Rogers Industrial Development

Environmental Assessment Worksheet (EAW)

Rogers, MN

December 14, 2023

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APPENDIX "G" – TRAFFIC IMPACT STUDY

APPENDIX "H" – GEOTECHNICAL REPORT

Rogers Industrial Development

Environmental Assessment Worksheet

Rogers, MN

1. Project Title Rogers Industrial Development

2. Proposer CP West, LLC Contact Person Thomas Noble

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4. Reason for EAW Mandatory EAW, required by MN Rule 4410.4300 Subp 14, A & B

Preparation

5. Location and Maps The index of figures can be found on page 4.

County Hennepin
City Rogers

PLS Location E ½ of the NW ¼, S11, T 120N, R 23W

SE ¼ of the SW ¼, S2, T 120, R23W

Watershed Elk Creek Watershed Management Organization

GPS Coordinates 45°13'31.8"N 93°33'15.1"W

Tax Parcel Numbers: 1112023210002

Parcel ID	Tax Parcel #	Legal Descriptions
A	1112023210002	Parcel 1:
	Tha 120 Noi	That part of the Southeast Quarter of the Southwest Quarter of Section 2, Township 120, Range 23, lying South of the Crow River, also That part of the East Half of the Northwest Quarter of Section 11, Township 120, Range 23 lying North of the South 1458.75 feet and West of the westerly right-of-way of State Highway No. 101.
		Excepting therefrom that part of Tracts A and B described below:
		Tract A:
		That part of the Southeast Quarter of the Southwest Quarter of Section 2, Township 120 North, Range 23 West, Hennepin County, Minnesota, lying south of the Crow River and westerly of the westerly right of way line of Trunk Highway No. 101 as now located and established.
		Tract B:
		That part of the Northeast Quarter of the Northwest Quarter of Section 11, Township 120 North, Range 23 West, Hennepin County, Minnesota, lying north of the south 1458.75 feet of the East Half of the Northwest Quarter of said Section 11, and west of the westerly right of way line of Trunk Highway No. 101 as now located and established; which lies westerly of the westerly boundary of Minnesota Department of Transportation Right of Way Plat No. 27-61 as the same is on file and of record in the office of the County Recorder in and for said County and easterly of Line 1 described below:
		Line 1: Commencing at the intersection of the south line of said Section 2 with the westerly boundary of said Plat No. 27-61; thence southerly on an assumed azimuth of 180 degrees 02 minutes 32 seconds along said westerly plat boundary for 382.00 feet to the point of beginning of Line 1 to be described; thence on an azimuth of 356 degrees 56 minutes 21 seconds for 831.22 feet; thence on an azimuth of 270 degrees 02 minutes 33 seconds for 50.00 feet; thence on an azimuth of 00 degrees 02 minutes 33 seconds for 367.02 feet, more or less, to the shore line of the Crow River and there terminating.
		(All Abstract Property)
		Parcel 2: Easement for vehicular and pedestrian traffic for ingress and egress as described in Quit Claim Deed, dated April 19, 1984, filed April 24, 1984, as Document No. 4884703.

The following is a complete list of figures in this EAW which can be found in **Appendix "A"**.

TABLE 5.2 – LIST OF FIGURES

FIGURE NUMBER	FIGURE TITLE
1	Regional Location
2	Project Area
3	Concept Site Plan
4	USGS Map
5	Existing Cover Types
6	Existing Farmland Types
7	Soils
8	Zoning Map
9	2040 Future Land Use Map
10	Delineated Wetlands
11	National Wetland Inventory
12	100 Year Floodplain Map
13	Historic Site Locations
14	Impaired Waters

6. Description

The description section of an EAW should include the following elements for each major development scenario included:

a. Provide a project summary of 50 words or less to be published in the EQB Monitor.

EQB Monitor Heading	Environmental Assessment Worksheet
Comment Deadline	December 14, 2023
Project Title	Rogers Industrial Development
•	The proposed Rogers Industrial Development project includes the es within the City of Rogers, MN. The project proposes construction cant lot.

Copies of the Draft EAW have been distributed to agencies listed on the Minnesota Environmental Quality Board distribution list. The Draft EAW may also be publicly accessed on the City of Rogers' website.

RGU	City of Rogers
Contact Person	Rrett ∆ngell

Give a complete description of the proposed project and related new construction. Attach additional sheets as necessary. Emphasize construction, operation methods and features that will cause physical manipulation of the environment or will produce wastes. Include modifications to existing equipment or industrial processes and significant demolition, removal, or remodeling of existing structures. Indicate the timing and duration of construction activities.

The area being studied by the EAW is in Rogers, MN, within Hennepin County, north of Northdale Boulevard near the intersection of 147th Avenue and State Highway 101 (see **Figure 1 and Figure 2**). The proposed Rogers industrial Development project includes the development of approximately 45.53 acres within the City of Rogers, MN. The project proposes the construction of three industrial buildings on one vacant lot. Industrial uses on the proposed site will be compliant with City regulations and zoning guidelines. The proposed Concept Site Plan is included in **Figure 3**.

Construction on this site is anticipated to begin in fall 2024 with the first building being ready for occupancy in fall 2025. Phase I of the project will include mass grading of the site and construction of all stormwater facilities and utility improvements. Potential construction and operation methods include clearing and grubbing, mechanical site grading, underground utility installation, bituminous paving, concrete pouring, and building construction. The construction schedule will be confirmed as purchase agreements are obtained for the properties. Individual buildings will be built as the market allows and adhere to all City of Rogers zoning and building regulations.

According to aerial footage, there are no existing structures onsite in need of demolition. Trees and shrubs will be removed where necessary to accommodate the potential for changing grades onsite.

b. Project Magnitude Data

Total project acreage	45.53 acres
Linear Project Length	NA
Number & type of residential uses	NA
Residential Building Area	NA
Commercial Building Area	
Industrial Building Area	550,000 – 700,000 SF
Other Uses (specify)	
Structure heights	

Explain the project purpose; if the project will be carried out by a governmental unit, explain the need for the project and identify its beneficiaries.

This project is being initiated and constructed by the private market. No governmental entities are leading the proposed design or construction efforts. The purpose of the project is to provide needed industrial facilities to accommodate an increasing population in and around the City of Rogers. The site is directly west of State Highway 101 and proximity to Interstate 94 and Highways 169 and 10 provide good access to a larger region. There are no projects with a similar size in the immediate area and being first to market will allow Rogers to capture the employment and tax revenue associated with this development.

d. Are future stages of this development (including development on any other property) planned or likely to happen?

No future phases of development, other than those described as part of the project and included in this EAW, are proposed on the project site and there are no known plans for additional development in the vicinity.

e. Is this project a subsequent stage of an earlier project?

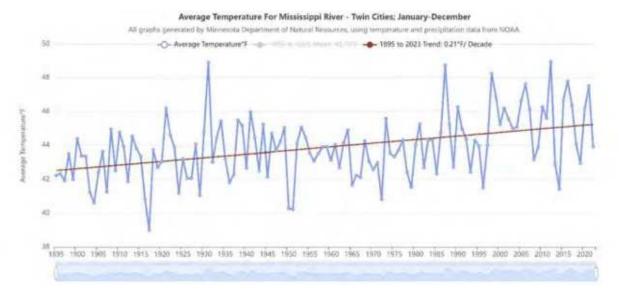
The project is not a subsequent stage of an earlier project.

7. Climate Adaptation and Resilience:

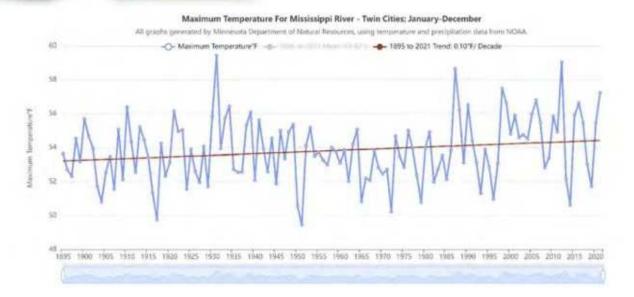
a. Describe the climate trends in the general location of the project (see guidance: Climate Adaptation and Resilience) and how climate change is anticipated to affect that location during the life of the project.

The MNDNR Minnesota Climate Trends website was used to analyze past climate trends in the immediate vicinity of the project area using the Mississippi River Watershed District – Twin Cities boundary.

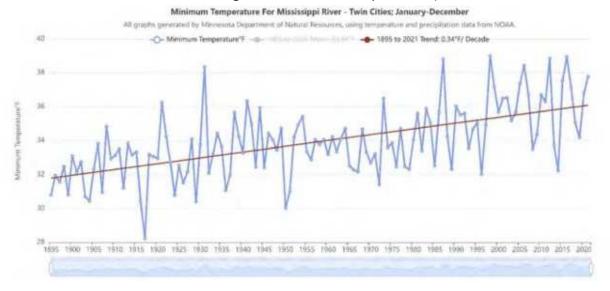
Overall past trends involve warming average annual temperatures (42.23°F in 1895 to 44°F in 2023).



Past trends included increasing maximum annual temperatures (53.56°F in 1895 to 57.49°F in 2021).



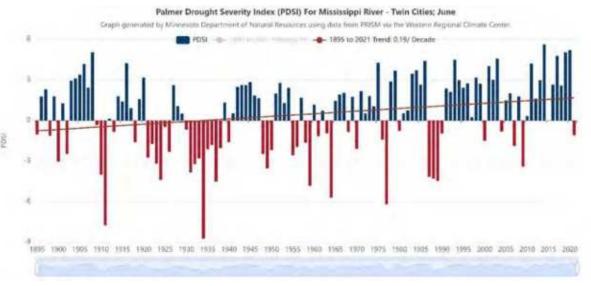
Past trends included increasing minimum annual temperatures (30.8°F in 1895 to 37.84°F in 2021)



Past tends included slightly increasing annual precipitation (24.31" in 1895 to 24.66" in 2021)



Past trends included increasing drought severity (Palmer Drought Severity index of 1.64 in 1895 to - 2.1 in 2023).

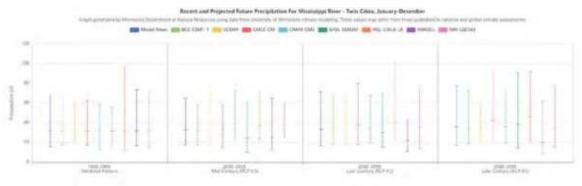


The MNDNR Minnesota Climate Explorer website was used to analyze future predictions for climate trends in the immediate vicinity of the project area using the Mississippi River Watershed District – Twin Cities boundary.

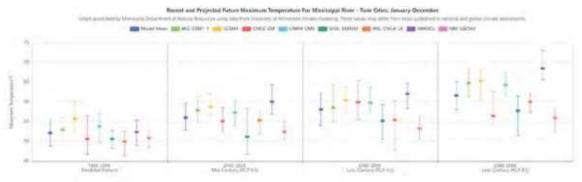
Overall trends involved warming annual average temperatures (modeled mean of 48.98°F between 2040-2059 and 51.38°F between 2080-2099).



Future trends showed slightly increasing annual precipitation (modeled mean of 32.43" between 2040-2059 and 33.11" between 2080-2099).



Future trends showed increasing maximum annual temperatures (modeled mean of 55.99 °F between 2040-2059 and 58.08°F between 2080-2099).



Future trends showed increasing minimum annual temperatures (modeled mean of 42.20°F in 2040-2059 and 45.01 between 2080-2099).



The Rogers Industrial Development is expected to have a construction timeline of 2-4 years. The building and site design will abide by City and watershed requirements for minimum separation from existing ordinary high-water levels for the historic wetland, and amenities will comply with separation requirements from any observed ground water. These design parameters will mitigate the likelihood of flooding given current climate trends and future climate trends. The proposed development is consistent with the City of Rogers zoning plans in the Regional Employment Center and will not contribute to climate trends beyond what is predicted given the Industrial designation.

b. For each Resource Category in the table below: Describe how 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.

Resource	Climate Considerations	Project Information	Adaptations
Category			
Project Design	The proposed project will increase the impervious area of the site and implement tree removal in the areas required to construct the development.	The developed site will include stormwater basins and improve stormwater management on site by regulating potential runoff. The developed site will provide tree replacement in accordance with City requirements to provide shade and help reduce heat island effect.	Project will abide by maximum allowable impervious coverage percentages per the zoning designation for industrial buildings. The project will limit tree removal and grading impacts to only the areas of the site necessary for development of the industrial facility. Trees and existing grades outside the development area will be preserved. New landscaping will include new trees throughout the site to ensure no net loss of qualifying trees.
Land Use	Climate trends of increasing annual average, minimum, and maximum temperatures along with increasing	The project includes stormwater basins to protect the existing wetlands. Floodplain	Project will comply with City and watershed guidelines. The project will include emergency overflow locations so large rainfall events will flow to downstream waters without impacting the proposed buildings or
	precipitation may result in expansion of	mitigation will be provided to	neighbors. The project will exceed the required open green space for

	existing waterbodies.	maintain existing floodplain volume.	its zoning designation.
Contaminated/ Hazardous Waste/ Materials	Climate trends of increasing annual average, minimum, and maximum temperatures along with increasing precipitation may increase erosion of exposed soils and materials held within the soils.	The project will comply with sediment control requirements of the NPDES permit and satisfy water quality requirements of the City and watershed district.	The project will implement a Storm Water Pollution Prevention Plan during construction. Practices will include designated wash-out areas for potentially hazardous construction materials and best management practices to capture and retain sediment onsite.
Water Resources	Climate trends of increasing annual average, minimum, and maximum temperatures along with increasing precipitation may result in increased storm runoff volumes, increased water temperatures, and greater fluctuation in annual precipitation.	The proposed project will satisfy stormwater requirements of the City and watershed district.	The project will satisfy rate, volume, and water quality control as outlined by the City and watershed district regulations. The project will also comply with regulations pertaining to protecting and preserving existing water resources such as wetlands, floodplain volume, and endangered species.

8. Cover Types

Estimate the acreage of the site with each of the following cover types before and after development:

- Wetlands identified by type (Circular 39)
- Watercourses rivers, streams, creeks ditches
- Lakes identify protected waters status and shoreland management classification
- Woodlands breakdown by classes where possible
- Grassland identify native and old field
- Cropland
- Current development

Please refer to **Figures 5 & 6** for a visual depiction of the following cover types and soil types before development within the study area:

Table 8.1 – Existing Cover Types				
Cover Types & Subtypes	Acres Before Development	Acres After Development		
Wetlands	0.43	0.43		
Watercourses	0	0		
Lakes	0	0		
Woodlands	7.89	3.16		
Grassland	0	0		

Cropland	37.21	0
Developed Land	0	41.94
Total:	45.53	45.53

Approximately 81% of the project area is currently cropland, 18% is trees, and the remaining 1% is wetland. As the design progresses the post-construction cover types will be refined. The developer will complete a tree preservation and replacement plan as required prior to construction activities.

Green Infrastructure*	Before	After
	(acreage)	(acreage)
Constructed infiltration systems (infiltration	0	2.79
basins/infiltration trenches/ rainwater		
gardens/bioretention areas without		
underdrains/swales with impermeable check		
dams)		
Constructed tree trenches and tree boxes	0	0
Constructed wetlands	0	0
Constructed green roofs	0	0
Constructed permeable pavements	0	0
Floodplain Mitigation	0	0
TOTAL*	0	2.79

<u>Trees</u>	<u>Percent</u>	<u>Number</u>
Percent tree canopy removed or number of	60%	-
mature trees removed during development		
Number of new trees planted	-	260

9. Permits and approvals required.

List all known local, state, and federal permits, approvals, and financial assistance for the project. Include modifications of any existing permits, governmental review of plans and all direct and indirect forms of public financial assistance including bond guarantees, Tax Increment Financing, and infrastructure. All these final decisions are prohibited until all appropriate environmental review has been completed. See Minnesota Rules, Chapter 4410.3100.

Currently Assumed Approvals Needed:

Table 9.1 - Approvals				
Unit of Government	Type of Application	Status		
FEDERAL				
St. Paul District of the U.S.	Approved Jurisdictional Determination	To be applied for		
Army Corps of Engineers (COE)				
STATE				
Minnesota Department of	MN Natural Heritage Database Review	Complete		
Resources (MNDNR)	_			
MN Pollution Control Agency	National Pollution Discharge Elimination	To be applied for		
(MPCA)	System Construction Permit (NPDES)			
(1111 57 1)				

Table 9.1 - Approvals					
Unit of Government	Type of Application	Status			
	Stormwater Pollution Prevention Plan (SWPPP)	To be applied for			
State Historic Preservation Office (SHPO)	Archeological/historic sites review	Complete			
Minnesota Department of Labor and Industry (MNDLI)	Site Utilities Review	To be applied for			
LOCAL					
Metropolitan Council	Metropolitan Council Environmental Services (MCES) Permit	To be applied for			
Hennepin County	Plat Approval	To be applied for			
Elm Creek Watershed Management Commission (ECWMC)	Wetland Alteration & Buffer Review	To be applied for			
	Storm Water Management Plan Review	To be applied for			
	Erosion and Sediment Control Plan Review	To be applied for			
	Underground Excavation Permit	To be applied for			
	Mechanical/HVAC Permit	To be applied for			
	Plumbing Permit	To be applied for			
City of Rogers	Electrical Permit	To be applied for			
	Right of Way Permit	To be applied for			
	New Construction Permit	To be applied for			
	Temporary Sign Permit	To be applied for			

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, prime or unique farmlands.

The project area currently consists of cropland, trees, floodplain, and wetlands. The property to the west consists of residential single-family housing. The north property line abuts the Crow River. The property directly north of the Crow River is single-family housing. The east property line of the project area abuts State Highway 101 and properties directly across the highway are industrial and commercial production facilities. Properties located south of the project area are also industrial and commercial facilities.

There are no parks, trails, or designated walks near the project area.

The USDA Web Soil Survey indicates that approximately 50% of the project area is not prime farmland, approximately 43.4% is farmland of statewide importance, 5.9% is prime farmland if drained, and 0.4% is prime farmland (**Figure 6**).

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

The planned land use for the project area consists of Mixed-Use Regional per the City of Rogers' 2040 Future Land Use Map (**Figure 9**). The region is intended to include commercial, office, light industrial, institutional, mid-and-high density residential, and park uses.

The project area is served by the Elm Creek Watershed Management Commission.

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

The project area is under one ownership and is currently zoned as Regional Employment Center (RC) on the City of Rogers Zoning Map (Figure 8). This zoning designation is intended to promote the redevelopment of the corridor along State Highway 101 into areas suited for high intensity commercial, office oriented, and industrial land use patterns tailored to the larger metropolitan region. The proposed project property is shown as Mixed-Use Regional on the 2040 Future Land Use Map (Figure 9). The Mixed-Use Regional zoning is intended to be a commercial and office-oriented land use pattern tailored to the community and larger metropolitan region.

There is no shoreland overlay district shown in the proposed project area on the City of Rogers 2022 zoning map (**Figure 8**) nor a Minnesota DNR designation for "Wild and Scenic Rivers". Appendix A of the City municipal code governs shoreland protection.

Based on the data provided by FEMA, approximately 6.47 acres of the site lies within Flood zone AE which represents the 1% annual flood (**Figure 12**).

iv. If any critical facilities (i.e. facilities necessary for public health and safety, those storing hazardous materials, or those with 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 within a floodplain area.

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

The project area is designated as Regional Employment Center by the City of Rogers' Zoning Map and Mixed-Use Regional in the City of Rogers' 2040 future Land Use map. The proposed project is consistent with these designations. The proposed project will create a unique identity in the region as the largest industrial site along State Highway 101. While the primary focus in this district is job creation, the proposed development will also be mindful of the existing natural features, trees, and floodplain.

The proposed development will be compatible with neighboring properties per the zoning ordinance and 2040 land use plan. No land use variances or conditional use permits are being applied for. All industrial developments have truck traffic and the expected trips from this project have been quantified in the traffic study (See **Question 18**). No hazardous waste or other contaminants is expected to be created from this development. The environmental impacts of the proposed project are consistent with impacts found with other industrial projects.

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

No inconsistencies were identified for the proposed project. New trees will be planted on site, storm water management best practice will be followed, and the site buildings will comply with all City of Rogers zoning regulations.

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.

According to the Minnesota Geological Survey, depth to bedrock ranges from 50-150 feet below the existing ground surface within the limits of the project area. No known geologic hazards in the form of sinkholes, faults, shallow limestone formations, and karst topography are present on the site. Consequently, measures to avoid or minimize environmental problems due to these hazards are not proposed.

According to Minnesota Geological Survey of Hennepin County, the bedrock underlying the project area is identified as Jordan sandstone, St. Lawrence formation, and Mazomanie formation. Jordan sandstone is white-to-yellow, medium-to-coarse grained, friable quartzose sandstone. St. Lawrence formation is light gray-to-yellow gray and pale yellowish-green, dolomite, feldspathic siltstone with interbedded fine-grained sandstone and shale. Mazomanie formation is white-to-yellow gray, fine-to-medium grained, cross-stratified quartzose sandstone with interbedded dolomite sandstone. Surficial geology in the project area is fine grained sandy gravel.

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 soils limitations, such as steep slopes, 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 the stormwater "water resources" question.

Most of the site is currently cropland and trees with one existing wetland. According to the HSDA's Web Soi Survey, the soil is a mix of sandy loams (**Figure 7**).

Table 11.1 – Existing Soils				
Map Symbol	SCS Soils Classification	≈	% of	
		Acres	site	
D8C	Sandberg loam	17.2	35	
D6B	Verndale sandy loam	8.9	18	
D5B	Dorset-Two Inlets	7.2	14.7	
D3B	complex			
D3A	Elkriver fine sandy loam,	5.2	10.7	
DJA	occasionally flooded			
D67A	Hubbard loamy sand, 0-		7.5	
B07A	2% slope	3.7	7.5	
D67C	Hubbard loamy sand, 2-		6.5	
8070	12% slope	3.2	0.5	
D24A	Sedgeville loam	2.9	5.9	
W	Water	0.6	1.3	
D2A	Elkriver fine sandy loam, 0.2		0.4	
	rarely flooded			

According to the geotechnical investigation by American Engineering Testing, Inc., soils within the project limits are non-erodible and suitable for the proposed uses. Mitigation based on typical erosion control and sedimentation regulations will be provided. (Appendix H)

12. Water Resources

- a. Describe surface water and groundwater features on or near the site in a.i. and a.ii. below.
 - i. Surface water lakes, streams, wetlands, intermittent channels, and county/judicial ditches. Include any special designations such as public waters, shoreland classification and floodway/floodplain, 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 1 mile of the project. Include DNR Public Waters Inventory number(s), if any.

Within the project area there are 0.43 acres of wetland along the northern property line. The Minnesota Wetland Conservation Act Notice of Decision on the wetland boundary was submitted on November 4, 2022. The wetland report is included in **Appendix C**. The delineation may be found in **Figure 10**.

According to Minnesota Geospatial Commons, there are no designated trout streams, trout lakes, wildlife lakes, or migratory waterfowl feeding and resting areas on or near the project area. Approximately 6.47 acres of the site is within the FEMA flood zone AE which represents the 1% annual flood.

According to MPCA's Construction Stormwater Special Waters Search, there are two impaired waters within one mile of the proposed site. The Crow River borders the northern property line of the project area and is impaired for benthic macroinvertebrates bioassessments, fecal coliform, fish bioassessments, nutrients, and turbidity. Foster lake is approximately 0.84 miles from the project site and is impaired for nutrients. See **figure 14** for impaired waters within 1 mile of the project area.

a MDH wellhead protection area; 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 soil borings taken on-site by American Engineering Testing on April 16, 2001, groundwater elevations on the site range from approximately 862.8-865.3 feet above mean sea level. The hydrogeologic gradient onsite is unknown but may be estimated to be north given the Crow River is located north of the project site location.

The United States Department of Agriculture Soil Conservation Service, Minnesota Geological Survey, and Hennepin County Well Index were reviewed as part of the Phase I Environmental Site Assessment. No wells were observed onsite. If any wells are discovered on-site during construction, they must be sealed in accordance with the regulations of the Minnesota Department of Health (MDH). The site is not located within a Drinking Water Supply Management Area (DWSMA) or Wellhead Protection Area.

- **d.** Describe effects from project activities on water resources and measures to minimize or mitigate the effects in Item b.i. through Item b.iv. below.
 - 1) Wastewater For each of the following, describe the sources, quantities and composition of all sanitary, municipal/domestic and industrial wastewater produced or treated at the site.
 - 2) 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.

Wastewater from the proposed development will discharge to the City of Rogers trunk line located south of the proposed site. Stubs from the existing sanitary sewer lift station will be extended for the proposed development. The City's sanitary sewer system collects wastewater within City limits and conveys water to the Rogers Wastewater Treatment Plant and the Elm Creek Interceptor for treatment and disposal. There are plans to construct the MCES Crow River Reclamation Plant which will supply additional wastewater treatment capacity for the cities of Rogers, Corcoran, and Dayton. The Rogers Wastewater Treatment Plant was expanded in 1996 to a capacity of 1.602 million gallons per day (MGD). The Rogers industrial Development site is expected to use 48,000 gallons per day. This flow rate is 3% of the capacity of the Rogers Wastewater Treatment Plant. The waste loading from the development is expected to closely match the composition of the existing wastewater loading to the treatment plant. Pretreatment measures only consist of those pretreatment measures prior to treatment at the wastewater treatment facility.

3) If the wastewater discharge is to a subsurface sewage treatment systems (SSTS), describe the system used, the design flow, and suitability of site conditions for such a system. If septic systems are part of the project, describe the availability of septage disposal options within the region to handle the ongoing amounts generated because of the project. Consider the effects of current Minnesota climate trends and anticipated changes in rainfall frequency, intensity, and amount with this discussion.

The wastewater discharge from the development will not discharge to a subsurface sewage treatment system. The industrial development will be connected to the municipal sanitary sewer system.

4) If the wastewater discharge is to surface water, identify the wastewater treatment methods and identify discharge points and proposed effluent limitations to mitigate impacts. Discuss any effects to surface or groundwater from wastewater discharges, taking into consideration

how current Minnesota climate trends and anticipated climate change in the general location of the project may influence the effects.

Sanitary sewer service will be provided by the City of Rogers from the south. Industrial buildings will connect via service connection to the sanitary sewer trunk line. The source of wastewater discharge from the site is expected to consist of the quantity and composition of wastewater typical of light industrial facilities. No effects to surface or groundwater are expected due to the wastewater being contained in the municipal sanitary sewer line.

i. 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.

Stormwater runoff for the existing conditions flows into the Crow River to the north. The topography in the area is higher along the south end of the project area and slopes downhill to the river. There are no existing areas with impervious surfaces.

The proposed project will be designed to meet the stormwater quantity and quality standards and requirements set by the Elm Creek Watershed Management Commission (ECWMC) and the City of Rogers. The ECWMC reviews grading, stormwater, erosion and sediment control. In addition to the ECWMC requirements, the City's zoning and stormwater management code plays a critical role in preserving natural resources.

Permanent stormwater Best Management Practices (BMPs) will be designed to manage the site's stormwater runoff and may include surface infiltration basins and surface sedimentation basins. These BMPs will aid in minimizing environmental impacts of rising average, maximum, and minimum temperatures, along with increasing average annual precipitation. BMPs provide additional water storage onsite to provide rate, volume, and water quality control before runoff discharges to downstream received waters. The proposed stormwater design will be compliant with City and watershed plans to integrate changing rainfall frequency, intensity, and amount into development requirements.

According to the geotechnical boring logs completed by American Engineering Testing in April 2001, existing soils in preliminary BMP locations consist of sand, sand with silt, and silty sand. These soils are hydrologic soil group (HSG) A and suitable for infiltration. The bottoms of proposed basins will be designed to provide required separation from the bottom of basin to groundwater elevation.

Catch basins and storm sewer pipes convey the stormwater runoff to those systems. Temporary

erosion and sediment control BMPs will be utilized during construction to ensure disturbed soil does not run off the site to surface waters or storm sewers. The project stormwater pollution prevention plan (SWPPP) ensures that the construction contractor follows proper procedures to prevent polluting stormwater runoff from the site during construction activity. The contractor and designer are encouraged to limit tree removal from the site to aid in the retention of stormwater, as older trees are much more efficient at retaining rainfall than young trees. The City of Rogers will require a maintenance agreement to ensure the permanent stormwater BMPs are maintained in the long term.

The project meets the requirements of the National Pollutant Discharge Elimination System/State Disposal System (NPDES/SDS) General Construction Stormwater (CSW) Permit, as it will disturb more than one acre of land. The CSW permit requires inactively worked soil to be stabilized within 7 days of disturbance, even if construction activity will resume in the area, because there is an impaired water within one mile of the proposed site area. The Crow River borders the northern property line of the project area and is impaired for benthic macroinvertebrates bioassessments, fecal coliform, fish bioassessments, nutrients, and turbidity. Foster lake is approximately 0.84 miles from the project site and is impaired for nutrients. See **figure 14** for impaired waters within 1 mile of the project area.

The CSW permit requires the maintenance of 50 feet of undisturbed existing buffer to existing water bodies during construction. If construction encroaches the buffer, then redundant downgradient sediment controls must be installed to protect these water bodies during construction. These requirements must be listed in the project's SWPPP. If the lots are sold to other parties to complete construction on individual lots, the owner must supply a SWPPP to the new owner specifying required stormwater BMPs and CSW Permit coverage must be obtained by the new owner for their portion of the site via the Subdivision Registration process.

With the project proposes an increase in impervious surface, it can be expected that the amount of road and sidewalk salt used will slightly increase in the project area. Chloride released into local waterbodies does not break down and accumulates in the environment. At high enough levels, this can be harmful to aquatic plants and wildlife. The MPCA offers a Smart Salting Training program to encourage responsible usage of road salts. There are a variety of classes available for road salt applicators. The City is encouraged to provide public outreach to reduce the overuse of chloride.

ii. 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. Identify any measures to avoid, minimize, or mitigate environmental effects from the water 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 theappropriation 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.

No water appropriation will occur during the operational lifespan of the proposed project. If water for dust control during construction is taken from streams, wetlands, or lakes in volumes

that exceed 10,000 gallons per day, or one million gallons per year, a DNR Water Appropriation Permit will be required. No products that contain chloride for dust control will be used in areas that drain to public waters. Construction dust control is required to be in conformance with City of Rogers's ordinances and the NPDES Construction Stormwater permit.

Domestic water use for the proposed project will be supplied through City of Rogers watermain. Existing 12" watermain is installed south of the project area and stubs will be extended for the proposed industrial development. The source for domestic water for the proposed project will be the City of Rogers which utilizes nine wells, two elevated storage facilities, and one ground storage reserve to provide capacity and flow for the expected demand. The City's 2040 comprehensive plan speculates additional water production and storage facilities will be required over the next 20 years as the city continues to grow and develop. The City of Rogers sources domestic water from wells connected to the Franconia-Ironton-Galesville formations. There is an annual Drinking Water Report which summarizes a years' worth of monitoring lead, copper, inorganic and organic contaminants.

iii. Surface Waters

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 Minnesota Wetland Conservation Act Notice of Decision was submitted on November 4, 2022 for the Wetland Boundary onsite. Approximately 0.43 acres of wetland are located along the northern property line of the site aside the Crow River. See **Appendix C** for the Wetland Delineation Report. No commercial or industrial access to the wetland is proposed in the form of docks, bridges, or other pedestrian walkways.

To reduce indirect impacts to the wetland a 25 feet average and 10 feet minimum upland buffer will be established along the wetland boundary per the ECWMC rules, and all structures will have a 15 feet setback from the buffer strip. Upland buffers along wetlands have been proven to reduce sedimentation, stormwater runoff, and the number of pesticides/herbicides that reach wetlands. If any disturbance occurs within the buffer during construction the buffer will be re-planted with native species suitable to the area. ECWMC will review the buffer strips for the proposed project in accordance with the Stormwater Management Rule I. Signage will be required along the edge of the wetland buffer indicating that it is a "no disturb area."

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. Identify measures to avoid, minimize, or 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.

All waters within the project area have been discussed above.

13. Contamination/Hazardous Materials/Wastes

a. Pre-project site conditions - Describe existing contamination or potential environmental hazards on or near the project site such as soil or ground water 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.

A Phase I Environmental Site Assessment for the project area was completed in April 2001 (**Appendix D**). No instances of existing contamination or potential environmental hazards were identified in the project area. Past land uses include agricultural activities. Past land use activities may have included the application of pesticides and herbicides; however, no soil or groundwater contamination was identified or anticipated with this project.

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.

Construction of the proposed project will result in the generation of solid waste and construction waste material. All waste and unused building materials will be properly disposed of off-site.

During project operation, municipal solid waste will be hauled away by a local, licensed garbage hauler and new commercial and industrial tenants will be encouraged to recycle.

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. Indicate the number, location, size, and age of existing tanks on the property that the project will use. Discuss potential environmental effects from accidental spill or release 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.

During construction and operation of the project, vehicles containing gasoline will be present on site. Minimal amounts of gasoline may be stored on site in approved containers with secondary leak protection. Toxic or hazardous materials present after construction will be consistent with commercial and industrial uses and may include pesticides and herbicides. If storage tanks for commercial and industrial hazardous materials are proposed, they will be constructed and contained in accordance with City standards. The potential for contamination is low. No above or below ground tanks will be stored onsite following construction.

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 waste including source reduction and recycling.

Construction of the project will not involve the generation of significant amounts of hazardous waste. Hazardous waste generated will be properly disposed of in accordance with state and federal law. The Minnesota Pollution Control Agency requires any business generating hazardous waste to complete a hazardous waste generator license. All state and federal laws will be followed during construction and operation of these facilities.

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 in near the site.

The project area consists of a variety of habitats and vegetation including wetlands, trees, and cropland. The surrounding properties consist of single-family residential developments, commercial facilities, and industrial facilities. No regionally significant ecological areas or Minnesota County Biological Survey Sites of Biodiversity Significance are identified on the project area or the adjacent properties.

According to the DNR's Ecological Classification System, the project area is located within historic Eastern Broadleaf Forest province, Minesota & Iowa Morainal section, and Big Woods subsection.

The land surface of the Eastern Broadleaf Forest province is largely the product of Pleistocene glacial processes. The northwestern and central portions of the province were covered by ice in the last glaciation and are characterized by thick (100–300 feet) deposits of glacial drift. Eastern Broadleaf Forest Province coincides roughly with the part of Minnesota where precipitation approximately equals evapotranspiration. This aspect of climate has an important influence on plants, as many forest species reach their western range limits and several prairie species reach their eastern range limits within the province.

The pre-settlement pattern of upland vegetation in the Minnesota & Iowa Morainal section reflects substrate texture and landform topography. These features affected plants directly through their influence on moisture and nutrient availability, insulation, and local temperature, and indirectly through their influence on the frequency and severity of fires. Sandy flat areas were dominated by prairie, savanna, and oak and aspen woodlands. Woodland and forest dominated sites in the section where fire was uncommon or rare. Fine-textured drift deposited in hummocky moraines supported mesic forests dominated by sugar maple, basswood, American elm, and northern red oak. Even small reductions in fire frequency afforded by streams, lakes, or topographic breaks permitted the formation of forest on finer-textured soils, and once formed these forests were highly resistant to burning. Floodplain and terrace forests were present historically along the valleys of the major rivers, the Mississippi, Minnesota, and St. Croix, and are still prominent today along many stretches of these rivers. Forests of silver maple occupy the active floodplains, while forests of silver maple, cottonwood, box-elder, green ash, and elm occupy terraces that flood infrequently. These valleys are also characterized by herbaceous and shrubby river shore communities along shorelines and on sand bars, and in some areas by cliff communities on steep rocky river bluffs.

The Big Woods subsection coincides with a large block of deciduous forest present at the time of Euro-American settlement. West of the subsection, tallgrass prairie was the primary vegetation, suggesting basic differences in climate, topography, and natural disturbance. Topography characteristically is gently to moderately rolling across this subsection. Soils are formed in thick deposits of gray limey glacial till left by the Des Moines lobe. Northern red oak, sugar maple, basswood, and American elm were most common in this dominantly forested region. Presently, most of the region is farmed. The primary landform is a loamy mantled end moraine associated with the Des Moines lobe of the Late Wisconsin glaciation. Parts of the moraine have ice disintegration features. The dominant landscape feature is circular, level topped hills bounded by smooth side slopes. Broad level areas between the hills are interspersed with closed depressions containing lakes and peat bogs. According to the Big Woods subsection profile, examples of species within the subsection in greatest need of conservation include common mud puppy, cruelean

warbler, least darter, western harvest mouse, mucket, and eastern racer. More than 75% of the current land use for the Big Woods subsection is cropland, with an additional 5 to 10% pasture. The remaining 10 to 15% of the subsection remains as either upland forest or wetland.

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 (LA-____) and/or correspondence number (MCE # 2023-00673) from which the data were obtained and attach the Natural Heritage letter from the DNR. Indicate if any additional habitat or species survey work has been conducted within the site and describe the results.

The Minnesota Department of Natural Resources (MNDNR) reviewed the Natural Heritage Information System (NHIS) to determine if any rare natural features could be impacted by the proposed project. Correspondence dated August 30, 2023 (Correspondence MCE # 2023-00673) (**Appendix B**) indicates the following state-listed species of special concern may be adversely affected by the proposed project:

• Black Sandshell (*ligumia recta*). This invertebrate animal lives in large rivers and medium-size streams.

The NHIS did not contain any records for federally listed species within one mile of the proposed site.

In addition to the information provided by the MNDNR, the U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) tool was used to identify other potential sensitive resources near the project. The IPaC identifies the northern long-eared bat (*Myotis septentrionalis*) (NLEB), the tricolored bat (*Perimyotis subflavus*), the whooping crane (*Grus Americana*), and the monarch butterfly (*Danaus plexippus*) as potentially being within the vicinity of the project area.

c. Discuss how the identified fish, wildlife, plant communities, rare features and ecosystems may be affected by the project including how current Minnesota climate trends and anticipated climate change in the general location of the project may influence the effects. 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.

The black sandshell is usually found in the riffle and run areas of medium to large rivers in areas dominated by sand or gravel. Members of this mussel species may live for several decades and in some instances, a century or more. They spend most of their lives buried in the bottom sediments of permanent water bodies, and often live in multi-species communities called mussel beds. Mussels eat by filtering bacteria, protozoans, algae, and other organic matter out of the water. They draw water into their body through their incurrent siphon, remove food and oxygen with their gills, and then expel the filtered water through their excurrent siphon. Food particles are carried to the mussel's mouth by tiny hairlike cilia located on the gills.

Degradation of mussel habitat in streams throughout the black sandshell's known range is a continuing threat to this species. Declines in habitat conditions are associated with management of the Mississippi River as a navigational canal, and with non-point source water pollution and sediment pollution. Dams, channelization, and dredging increase siltation, physically alter habitat conditions, and block the movement of fish hosts. The black sandshell is also being impacted by the infestation of non-native zebra mussels (Dreissena polymorpha) in the Mississippi River and its tributaries. Zebra mussels can attach themselves in large numbers to the shells of native mussels, eventually causing death by suffocation. Further survey work in rivers where the black sandshell was formerly documented is needed to verify its status in the remainder of its historical range. To avoid impacts to the black sandshell, proper erosion and sediment control practices will be implemented and maintained during

construction of this project and will be incorporated into a stormwater management plan. The bounds of the wetland located onsite will not be disturbed to maintain as much natural habitat as possible. The black sandshell can also be sensitive to the impacts of climate change such as rising average, maximum, and minimum temperatures along with average increased annual precipitation. Rising water levels and droughts may lead to decreased habitat and unsuitable air and water temperatures.

The northern long eared bat (NLEB) was recently (March 31, 2023) recognized as a federally endangered species. The habitat of the NLEB in Minnesota is natural caves, sand mines, and iron mines in the winter and forested habitats near water in the summer. The bats have also been found roosting in man-made structures such as barns and sheds. There are no existing buildings located onsite and caves and mines are not present in the proposed project area. No surface carbonite features are located within the project area. The US Fish and Wildlife list of townships containing documented NLEB maternity roost trees and/or hibernacula entrances in Minnesota does not identify any hibernacula or roost trees near the project area.

Tricolored bats hibernate in caves, mines, and tunnels in the winter, and generally roost singly, often in trees in the summer. Maternity colonies have not been found in Minnesota, but elsewhere they have been found in trees, rock crevices, barns, or other buildings. Because no colonies have been found in Minnesota, the likelihood of the proposed project disturbing habitat for the tricolored bat is low. Tricolor bat habitats of caves are mines are not present on the proposed project area. The tricolor bat is under a proposal to be listed as an endangered species.

The whooping crane is an endangered species and currently exist in the wild at 3 locations (Aransas Buffalo-Woods National Park, central Florida, eastern Wisconsin) and in captivity at 12 sites. The proposed project site falls within the migratory path for the eastern Wisconsin population, but given the population size and migratory area, the chances of the project disturbing habitat for the birds are unlikely. Whooping crane habitat includes coastal marshes and estuaries, inland marshes, lakes, open ponds, shallow bays, salt marsh and sand or tidal flats, upland swales, wet meadows and rivers, pastures, and agricultural fields. The proposed project area does include agricultural fields and wetlands. The majority of existing agricultural field will be replaced for the proposed project development and landscaped areas. Historic wetlands will be protected to preserve habitat.

Monarch butterflies lay their eggs on milkweed (*Asclepias speciosa*) hosts year-round and migrate to warmer climates during the fall. Additional habitat needs for adult monarchs include flowering plants and nectar corridors. The existing ground cover of the proposed site consists of turf grass and cropland, neither of which contain abundance of milkweed or flowering plants. The monarch butterfly is under a proposal to be listed as an endangered species.

There is an opportunity for invasive weed species to be introduced during project construction; however, it is not anticipated that these species would persist following construction. The proposed project would be landscaped with turf grass and landscape trees and shrubs per a City-approved landscaping plan. Consequently, areas of exposed soil where invasive weed species might appear are not anticipated. If areas of invasive species do develop, they would be controlled in accordance with local and state invasive and noxious weed regulations. There are no specific invasive species of concern for the proposed project area.

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

To minimize impacts to the rare features noted above, the mitigation measures recommended by the MNDNR (**Appendix B**) will be implemented including:

• To avoid impacts to the Northern Long Eared Bat, tree removal should be avoided from June 1 through August 15. Winter tree clearing (November 15 to March 15) is recommended.

- River protection is vital to maintaining black sandshell populations. The bounds of the existing
 wetland between the project area and the river will be preserved on the proposed project to
 maintain existing habitat.
- Effective erosion and sediment control practices will be implemented and maintained during construction and incorporated into any stormwater management plans.
- If any construction equipment or materials encounter water, they must be decontaminated following the Equipment Cleaning to Minimize Invasive Species brochure from the DNR.

With implementation of these measures, impacts to rare features are not anticipated.

15. Historic properties

Describe any historic structures, archeological sites, and/or traditional cultural properties on or near the site. Include: 1) historic designations, 2) known artifact areas, and 3) architectural features. Attach letter received from the 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.

The SHPO was contacted regarding the potential for historic, cultural, or architectural resources on and near the site as part of the EAW process. SHPO conducted a search of the Minnesota Archaeological Inventory and Historic Structures Inventory on September 12, 2023. The result of this database search provided a listing of recorded archaeological sites and historic/architectural properties that are included in the current MN SHPO databases, the general vicinity of these sites has been mapped and can be found on **Figure 13**. The SHPO correspondence is included in **Appendix B**.

The project area is in the E ½ of the NW ¼, S11, T 120N, R 23W and the SE ¼ of the SW ¼, S2, T 120, R23W in Hennepin County, Minnesota. The parcels consist of cropland and trees with wetland separating the parcel from the crow river. Vegetation consisted of non-native grasses, trees, and bushes.

A total of 45.53 acres were inventoried by SHPO for the proposed project. No cultural resources were observed during this inventory of the proposed project. Therefore, a finding of "no historic properties" is recommended for the proposed project. If the applicable regulatory agencies agree with these findings, then a recommendation of 'no further work' is considered appropriate.

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.

The transformation of natural land into a developed area inevitably alters its visual appearance. The Rogers Industrial Development is not expected to detrimentally affect the scenic views from State Highway 101. To mitigate the overall visual changes typically associated with development, the project will incorporate screen of truck entrances, dumpsters, and other areas identified through the site plan review process. In addition, the site will be improved with extensive landscaping, particularly in areas that provide a natural buffer from adjacent developments.

Additionally, all lighting within the development will be thoughtfully designed to minimize glare and will be equipped with shields to direct the light downward, preventing any disturbance to neighboring properties.

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 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.

No stationary source of air emissions is proposed as part of the project. Emissions from the heating and cooling units would be typical of other industrial and commercial buildings in the area. State law prohibits idling of trucks and equipment while parked or not-in-use during both construction of the project and operation of the facilities. Overnight parking is also prohibited.

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.

The most critical pollutant associated with vehicular traffic in Minnesota is carbon monoxide (CO). Carbon monoxide (CO) is one of five vehicle emission pollutants for which the US Environmental Protection Agency has standards. CO is a colorless, odorless, and tasteless toxic gas produced by the incomplete burning of carbon in fuel. Motor vehicle emissions will be associated with vehicles traveling to and from the development site, and from construction equipment necessary for the proposed construction activities. Following project completion, vehicle-related air emissions in the area—including carbon monoxide levels—will see a relatively small increase due to the increase in traffic to and from the site.

In general, concentrations of carbon monoxide are typically greatest at intersections with poor levels of service because of excessive idling or acceleration of vehicles. Levels of service at area intersections will remain consistent following this project.

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.

The project will not generate significant odors during construction or operation. Odors generated during construction will be mitigated by maintenance of the construction equipment to the manufacturers' specifications and by using appropriate fuel additives when necessary. Grading and construction will temporarily generate dust. BMPs and other standard construction methods will be used to reduce construction impacts such as intermittent applications of water to exposed soils as needed to reduce dust during dry weather.

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.

The greenhouse gas emissions from the proposed Rogers Industrial Development project are provided on an annual basis using the carbon dioxide (CO₂) equivalent and include the best estimate of average annual emissions from the construction and operating phases. Emissions were estimated using the US Environmental Protection Agency's Simplified Greenhouse Gas Emissions Calculator and are summarized in the tables below by project phase and source type. The complete printout of the GHG Emission Calculator may be found in **Appendix F.**

Construction emissions are from mobile equipment, including passenger cars, light duty trucks, medium duty trucks, heavy duty trucks, and construction equipment. Emissions from cooling and refrigeration systems are not included in the analysis of GHG emissions as emissions from refrigerants are approximately less than five percent of the total emissions of a building according to the Practice Health Greenhouse Gas Reduction Toolkit.

The emission calculations below are from the EPA Greenhouse Gas Equivalencies Calculator and based on typical construction equipment used for a project of this size and duration. While specific equipment on site may vary slightly based the construction needs at the time of building, the emissions amount per equipment type are based on EPA data.

Scope	Type of Emission	Emission Sub-type	Project-related CO2eEmissions (tons/year)	Calculation method(s)
cope 1	Combustion	Mobile	9.415	EPA Simplified Greenhouse Gas
		Equipment		Emissions Calculator
TOTAL			9,415	

Scope	Type of	Emission	Project-related CO2e Emissions (tons/year)	Calculation
Scope 1	Combustion	Stationary equipment		EPA Simplified Greenhouse Gas Emissions Calculator
Scope 2	Off-site electricity	Grid-based	•	EPA Simplified Greenhouse Gas Emissions Calculator
Scope 3	Off-site waste management	Area	3,739	EPA Simplified Greenhouse Gas Emissions Calculator.

b. GHG Assessment

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

Mitigation considerations to reduce greenhouse gas emissions on the proposed project may include use of energy efficient appliances, equipment and lighting, use of energy efficient building materials, encouragement of alternative forms of transportation to and from the proposed site, implementation of waste best management practices to recycle and compost appropriate materials, landscaping to improve air quality and absorb greenhouse gasses, and providing electric vehicle charging infrastructure.

ii. Describe and quantify reductions from selected mitigation, if proposed to reduce the

project's GHG emissions. Explain why the selected mitigation was preferred.

Potential mitigation items will be selected based on practicability during design and construction.

iii. Quantify the proposed projects predicted net lifetime GHG emissions (total tons/#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 goal.

The Next Generation Energy Act requires the state to reduce greenhouse gas emissions by 80 percent between 2005 and 2050 while supporting clean energy, energy efficiency, and supplementing other renewable energy standards in Minnesota. The expected lifespan of the proposed Rogers Industrial Development project is 50 years. This equates to a total estimated carbon dioxide equivalent emission of 521,960 metric tons including construction and operation phases.

Annual Construction Emissions*Years of Construction + Project Life Emissions*Project Lifetime=Net Lifetime Emissions

(9,415*4)+(1,386+4,561+3,739)*50 = 521,960

The project contractor will evaluate potential emission reduction practices to reduce operational emissions to the extent practicable and the project will be built in accordance with federal and state regulations and to the 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.

Grading and construction will temporarily generate an increase in noise level and vary in intensity based on the type of construction equipment being used (see **Table 9**). To minimize the effects of noise pollution, construction volumes and work hours will adhere to the City's noise ordinances. Mufflers will be used on equipment used during demolition and construction activities. Additionally, BMPs and other standard construction methods will be used to reduce construction impacts such as limiting hours of operation to comply with the noise regulations in City ordinance. Construction noise will be limited to daytime hours consistent with the City of Rogers's construction and noise ordinances.

After construction is completed, the proposed development will decrease noise pollution in residential communities coming from State Highway 101 by acting as a "sound wall". Industrial buildings, oriented north/south, will shield automotive noise and for the residential developments along Raspberry Drive, located west of the proposed project area. In addition, landscaping on site, including trees, vegetation, and berms will help reduce noise. The nearest parking area to the residential areas to the west will be approximately 250 feet from the nearest house and the nearest building will be approximately 320 feet. Both exceed the City's setback requirements.

Since this land is zoned for industrial development, this project is not asking for any variances or special considerations regarding noise, landscaping, or height regulations. All City codes will be followed during construction and operation of the facilities. In addition, the building on the west side of the property will not have loading bays that face residential neighbors to further reduce noise during business operations.

Minnesota law, 7030.0040 NOISE STANDARDS, regulates the non-construction noise on all industrial sites in the state. The maximum noise allowable by law at this development during the day is 70dB and at night is 65dB. This project will comply with state law regarding noise limits.

Equipment Type	Peak Noise Level	Average During Use
Backhoe	74-92 dB	83
Dozer	65-95dB	85
Front Loader	75-96 dB	85
Grader	72-92 dB	84
Pile Driver	95-105 dB	101
Scraper	76-98 dB	87

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) indicate source of trip generation rates used in the estimates, and 5) availability of transit and/or other alternative transportation modes.

The existing site is currently vacant agricultural land. The proposed development has the potential to provide up to 688 parking spaces, not including the truck loading bay areas. The proposed development is expected to generate approximately 1,716 daily vehicular trips, of which, approximately 292 daily trips would be from heavy commercial vehicles (i.e., trucks). The proposed development is expected to generate approximately 207 a.m. peak hours (174 in/ 33 out) and 205 p.m. peak hour (44 in / 161 out). The a.m. peak hour represents 7 to 8 a.m. and the p.m. peak hour represents 4:30 to 5:30 p.m. The trip generation estimate for the proposed development was created using the ITE Trip Generation Manual, 11th Edition and used the preliminary fit plan as the basis for the estimate. A summary of the proposed development trip generation is provided in **Table 20.1.**

Table 20.1 Trip Generation Summary

Land Use Type (ITE Code)	Size	AM Pea	AM Peak Hour		PM Peak Hour	
Land Use Type (ITE Code)		In	Out	ln	Out	Daily
Proposed Development						
Warehouse (150)	473,450 SF	62	18	24	61	810
General Office (710)	83,550 SF	112	15	20	100	906
Total (All Vehicles)	557 000 CF	174	33	44	161	1,716
Total (Trucks)	557,000 SF	8	7	5	5	292

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 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.

Although the expected trip generation is below the EAW threshold for traffic generation, a traffic study was still prepared to assess the transportation impacts associated with the proposed development. The <u>draft Cote Industrial Development Traffic Study</u> dated October 17, 2023, is included in Appendix G for reference.

Results of the study indicated that all study intersections and approaches currently operate an acceptable LOS D or better during typical weekday a.m. and p.m. peak hours. There are existing minor queuing issues within the study area, although they do not present any significant operational issues from a capacity perspective and do not warrant any mitigation.

Under year 2026 build conditions, all study intersections and approaches are expected to continue to operate at an acceptable LOS D or better during typical weekday a.m. and p.m. peak hours. The overall change in operations resulting from the proposed development from an intersection delay perspective is relatively minimal and within acceptable industry standards. Note that the location most impacted by the proposed development will be the CR 144 (141st Avenue) and Northdale Boulevard intersection, with an average increase of two (2) to six (6) seconds of delay per vehicle during the a.m. and p.m. peak hours respectively. Southbound queues along Northdale Boulevard will extend up to approximately 360 feet during the p.m. peak hour, which will impact access to a few driveways in the area.

To limit any queuing impacts along Northdale Boulevard during the p.m. peak hour, the addition of a southbound right-turn lane and optimization of the intersection signal timing should be considered. With these changes, the Northdale Boulevard intersection would operate at an overall LOS B and the average and 95th percentile queues in the southbound direction would be approximately 160 feet and 260 feet, respectively. At this level of queues, impacts to the North 101 Business Park access would be minimal.

The northbound left-turn lane queuing issue at the CR 144 (141st Avenue) and James Road / Rogers Drive intersection is expected to continue, however the proposed development is not expected to significantly impact this intersection or its operation. Minor signal timing adjustments could help reduce these queues, but given the relatively short-turn lane, they cannot be fully mitigated without additional geometric modifications. Further discussion with Hennepin County should occur to determine if any modifications should be considered for this location given the relatively small impact of the proposed development.

A review of the proposed site plan does not indicate any major issues. Although special care should be taken to locate signage and landscaping to avoid creating any sight distance issues and truck maneuverability should be reviewed to limit potential internal circulation conflicts. There are no multimodal facilities along Northdale Boulevard, but preservation of right-of-way for a future multimodal facility should be considered.

c. Identify measures that will be taken to minimize or mitigate project related transportation effects.

As noted in the traffic study, the following mitigation was identified.

- Construct a southbound right-turn lane along Northdale Boulevard at CR 144 (141st Avenue);
 this modification may require reconfiguration of the existing traffic signal in this location.
- Optimize the signal timing at the CR 144 (141st Avenue) and Northdale Boulevard intersection, which may also involve reviewing overall corridor progression and signal timing along CR 144.
- Preserve right-of-way for a future multimodal facility along Northdale Boulevard.

Further discussion with area agencies should occur to determine what modifications should be considered, as well as their implementation timeframe and funding.

21. Cumulative potential effects

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.

Any impacts to the environment will meet Federal, State, and Local regulations and will be mitigated as required; therefore, it is not anticipated that impacts from the development create any cumulative potential effect not already examine herein.

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.

No other known development or redevelopment is planned adjacent to the proposed project site currently.

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.

No known development or redevelopment is planned adjacent to the proposed project site currently. Development of the project is not anticipated to cause any future projects. Continued development of the area is always a possibility, but any such changes in land use on an adjacent site would be reviewed as required by the City, and if necessary, a separate environmental review may need to be completed as a part of such a redevelopment. At that point, the drivers of such a project would need to coordinate efforts and reviews with the Rogers Industrial Development site to identify cumulative impacts that cannot be identified at the present day.

22. Other potential environmental effects

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

No additional environmental effects have been identified.

RGU Certification

I hereby certify that:

- The information contained in this document is accurate and complete to the best of my knowledge.
- The EAW describes the complete project; there are no other projects, stages, or components other than those described in this document, which are related to the project as connected actions or phased actions, as defined at Minnesota Rules, parts 4410.0200, subparts 9c and 60, respectively.
- Copies of this EAW are being sent to the entire EQB distribution list.

Signature:	BC	Date: 12/14/2023

Name: Brett Angell, City of Rogers

Appendix A



FIGURE 1 - REGIONAL LOCATION MAP



FIGURE 2 - PROJECT LOCATION

PROPOSED POND 2 1.67 AC PROPOSED POND 1 1.18 AC PROPOSED LOT 2 INDUSTRIAL BUILDING A 410'x850' 348,500 SF FUTURE INDUSTRIAL BUILDING 210'x800' 168,000 SF FUTURE EXPANSION 410'×380' 50' RESIDENTIAL SETBACK 155,800 SF > 30' CORRIDOR SETBACK - 10' PARKING SETBACK

BOUNDARY LINE

WL WL WETLAND

STORMWATER POND

FEMA FLOOD ZONE

100 YEAR FLOOD PLAIN

IMPACTED 100 YEAR FLOOD PLAIN

AREAS
LOT I
LOT 2
LOT 2
GROSS LOT
GROSS LOT
FLOOD PLAIN
NET DEVELOPABLE

IMPERVIOUS (MAX 15%)
BUILDINGS

BUILDING COVERAGE LOT I
BUILDING COVERAGE LOT 2
(24.8%) 3.86 AC

PARKING RATIOS INDUSTRIAL PARKING: I PER 2000 SF OFFICE: I PER 200 SF 85/15 FOR EACH BUILDING

STORMWATER PONDING

PARKING SUMMARYBUILDING AREAREQUIREDPROVIDEDPROPOSED BUILDING A348,500 SF411 STALLS218 STALLSBUILDING EXPANSION155,800 SF180 STALLS184 STALLSFUTURE BUILDING168,000 SF198 STALLS198 STALLS

(18.8%) 2.85 AC

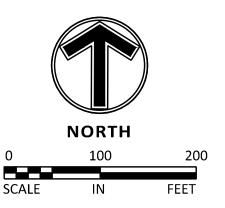
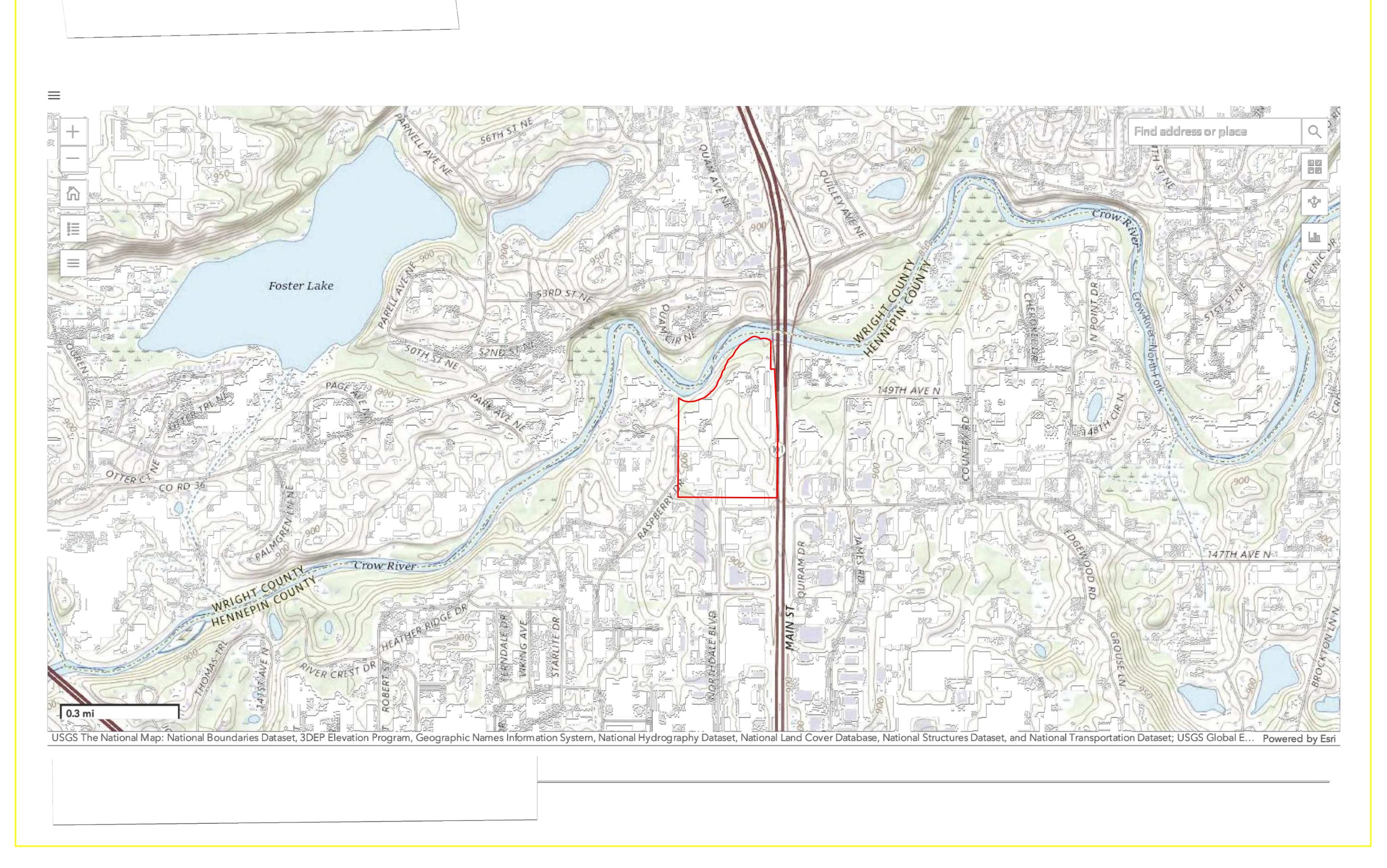


FIGURE 3 - CONCEPT SITE PLAN



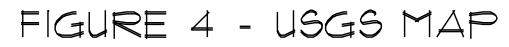




FIGURE 5 - EXISTING COVER TYPES

Sambatek www.sambatek.com

Custom Soil Resource Report

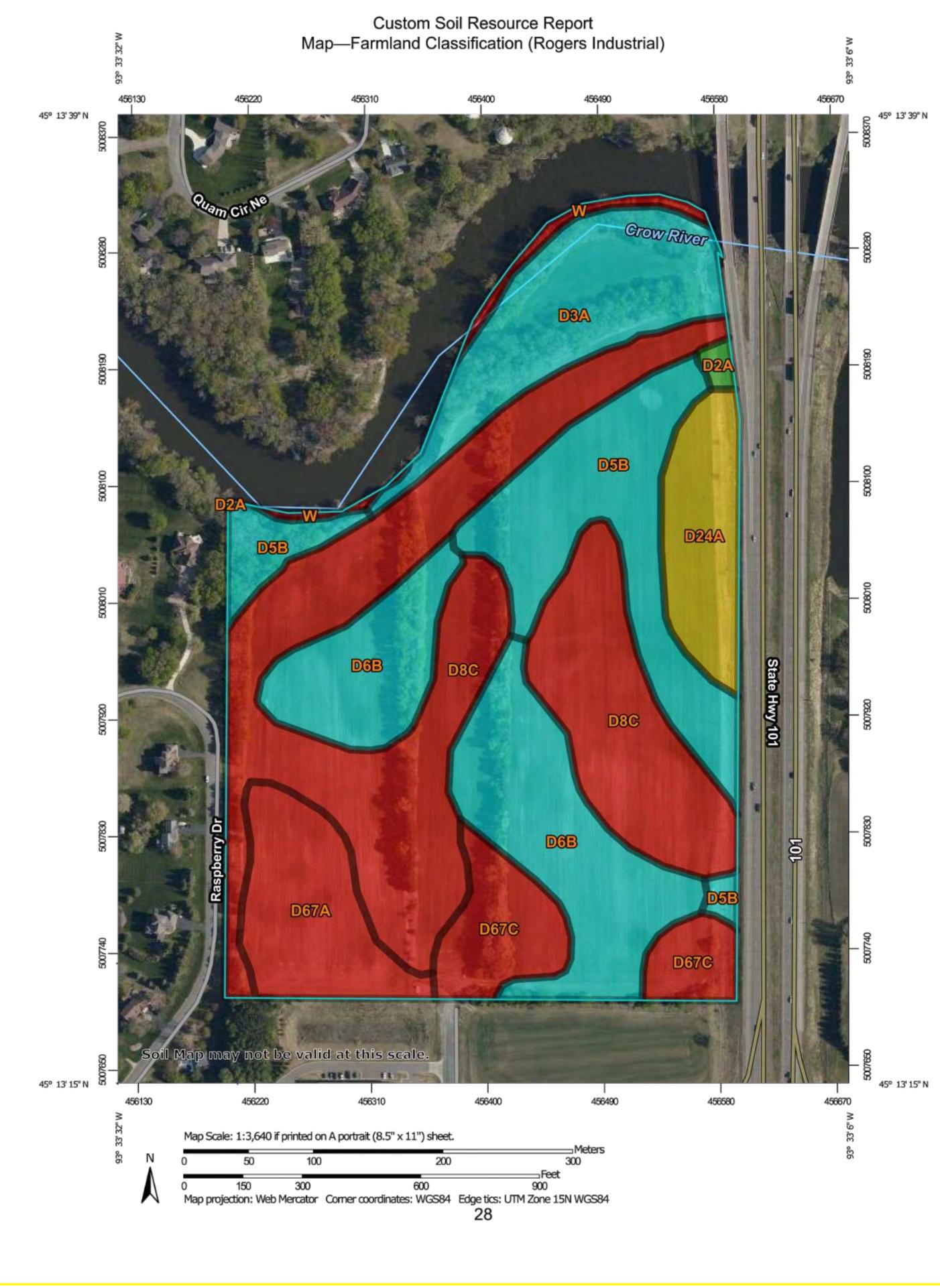
Table—Farmland Classification (Rogers Industrial)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
D2A	Elkriver fine sandy loam, 0 to 2 percent slopes, rarely flooded	All areas are prime farmland	0.2	0.4%
D3A	Elkriver fine sandy loam, 0 to 2 percent slopes, occasionally flooded	Farmland of statewide importance	5.2	10.7%
D5B	Dorset-Two Inlets complex, 2 to 6 percent slopes	Farmland of statewide importance	7.2	14.7%
D6B	Verndale sandy loam, 2 to 6 percent slopes	Farmland of statewide importance	8.9	18.0%
D8C	Sandberg loamy sand, 2 to 12 percent slopes	Not prime farmland	17.2	35.0%
D24A	Sedgeville loam, 0 to 2 percent slopes, occasionally flooded	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season	2.9	5.9%
D67A	Hubbard loamy sand, 0 to 2 percent slopes	Not prime farmland	3.7	7.5%
D67C	Hubbard loamy sand, 2 to 12 percent slopes	Not prime farmland	3.2	6.5%
W	Water	Not prime farmland	0.6	1.2%
Totals for Area of Interest			49.2	100.0%

Rating Options—Farmland Classification (Rogers Industrial)

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower



32

Custom Soil Resource Report

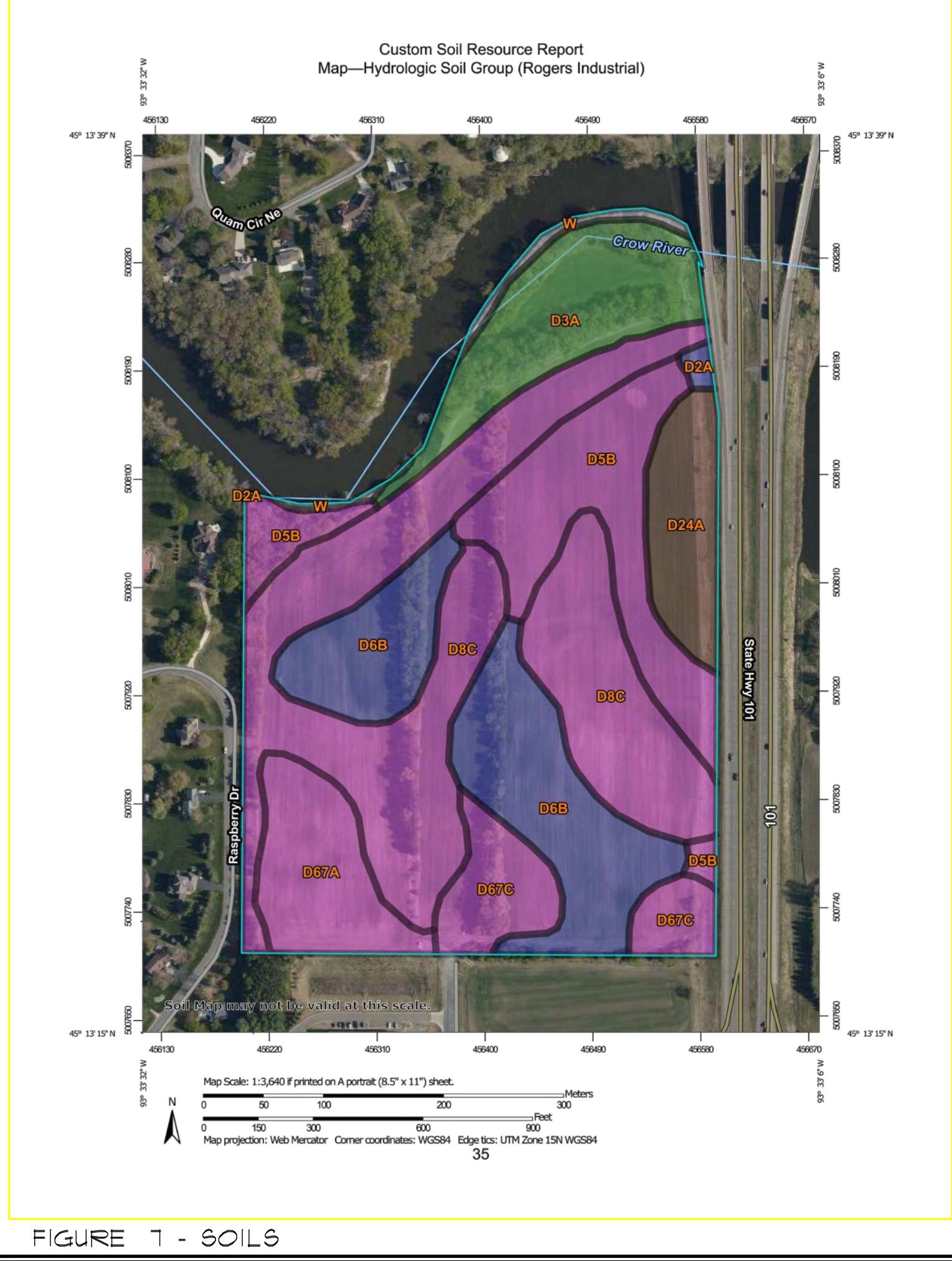
Table—Hydrologic Soil Group (Rogers Industrial)

Map unit symbol	Map unit name	Rating Acres in AOI		Percent of AOI	
D2A	Elkriver fine sandy loam, 0 to 2 percent slopes, rarely flooded	В	0.2	0.4%	
D3A	Elkriver fine sandy loam, 0 to 2 percent slopes, occasionally flooded	A/D	5.2	10.7%	
D5B	Dorset-Two Inlets complex, 2 to 6 percent slopes	A	7.2	14.7%	
D6B	Verndale sandy loam, 2 to 6 percent slopes	В	8.9	18.0%	
D8C	Sandberg loamy sand, 2 to 12 percent slopes	А	17.2	35.0%	
D24A	Sedgeville loam, 0 to 2 percent slopes, occasionally flooded	B/D	2.9	5.9%	
D67A	Hubbard loamy sand, 0 to 2 percent slopes	А	3.7	7.5%	
D67C	Hubbard loamy sand, 2 to 12 percent slopes	Α	3.2	6.5%	
W	Water		0.6	1.2%	
Totals for Area of Interest			49.2	100.0%	

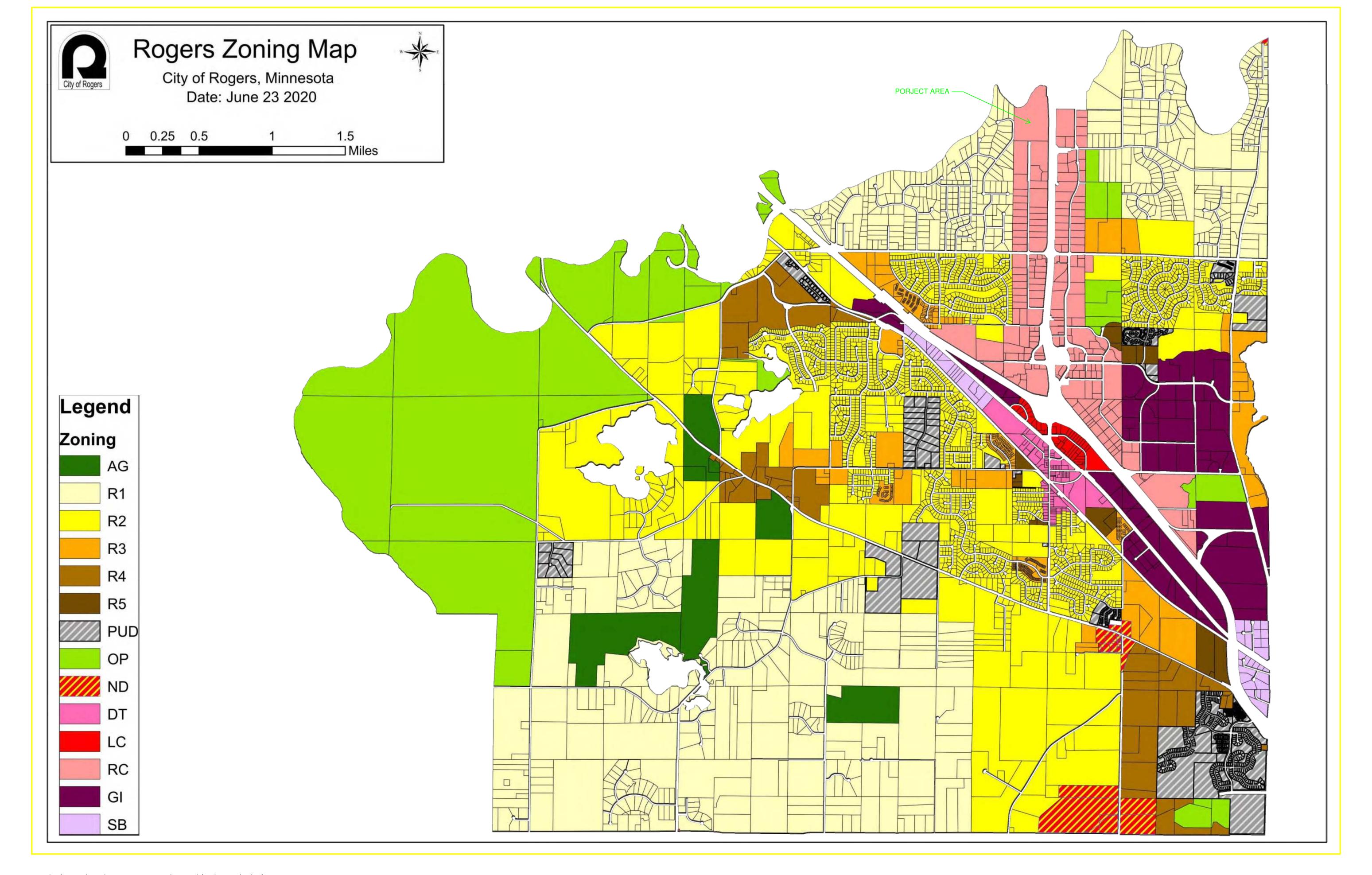
Rating Options—Hydrologic Soil Group (Rogers Industrial)

Aggregation Method: Dominant Condition Component Percent Cutoff: None Specified

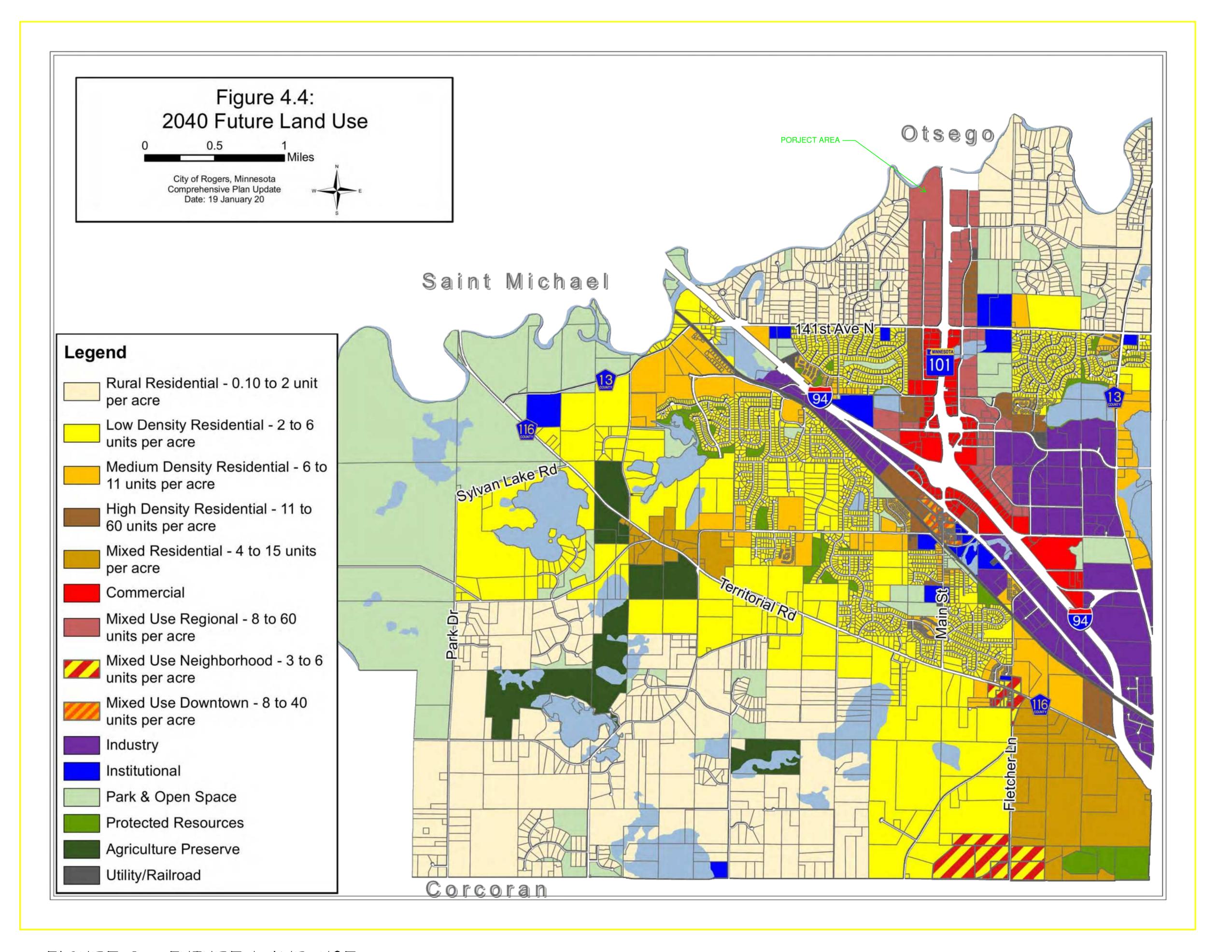
Tie-break Rule: Higher



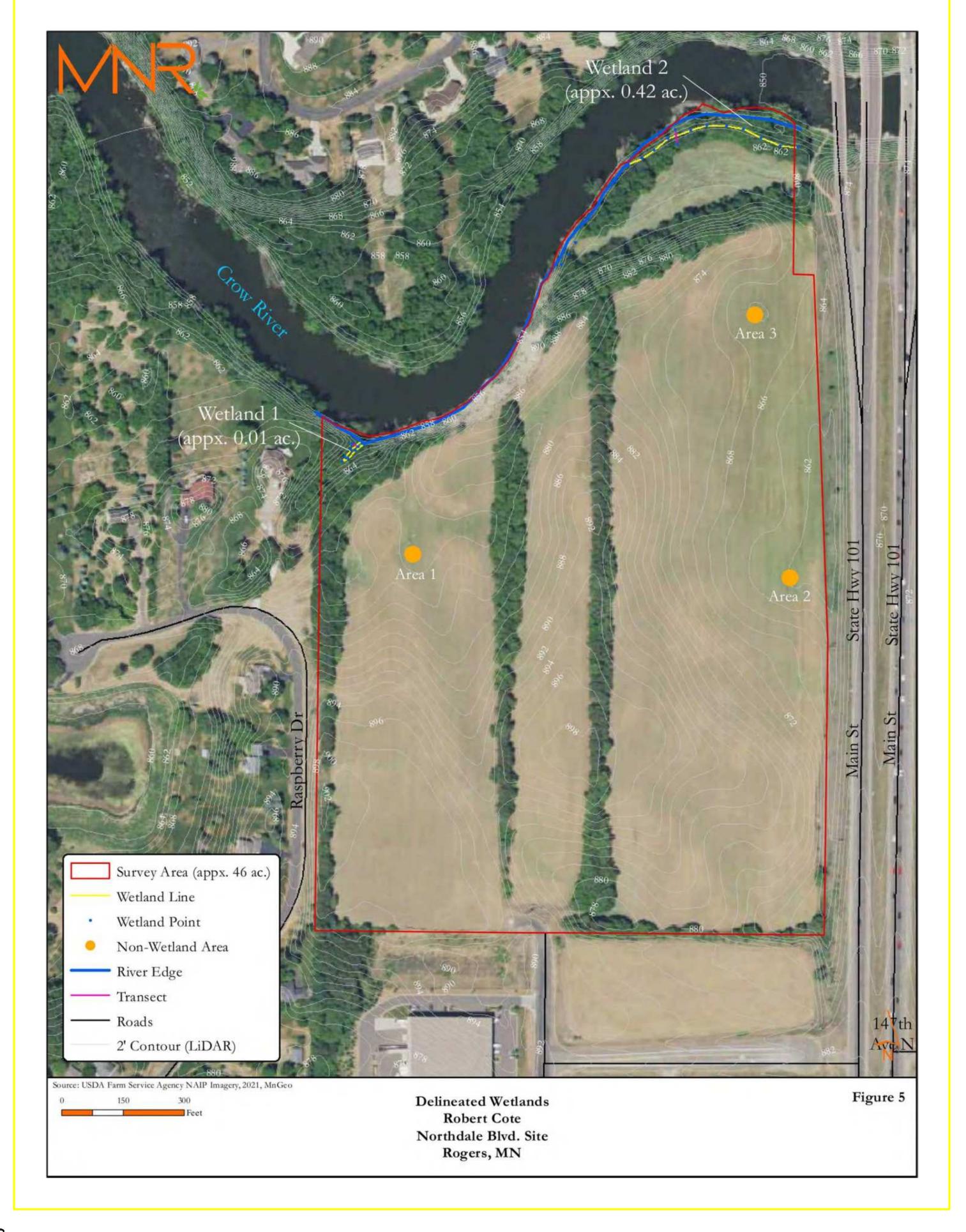












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U.S. Fish and Wildlife Service National Wetlands Inventory

Rogers Industrial Site





Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Lake Freshwater Forested/Shrub Wetland

Other

Freshwater Pond

Riverine

base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

> National Wetlands Inventory (NWI) This page was produced by the NWI mapper



Sep 11, 2023 - 3:27pm - User:astutz L:\PROJECTS\51493\CAD\Exhibits\EAW\11 national wetland inventory.dwg

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' National Geodetic Vertical Datum of 1929 (NGVD 29). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Universal Transverse Mercator (UTM) zone 15. The horizontal datum was NAD 27, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in mapfeatures across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the National Geodetic Vertical Datum of 1929. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following and reserved.

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

obtained directly from the MSC website.

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the information Services Branch of the National Geodetic Survey at (301) 713- 3242, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the Minnesota Department of Natural Resources. This information was photogrammetrically compiled at a scale of 1:12,000 from aerial photography dated 2010 or later.

The profile baselines depicted on this map represent the hydraulic modeling baselines

that match the flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

Corporate limits shown on this map are based on the best data available at the time

of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the

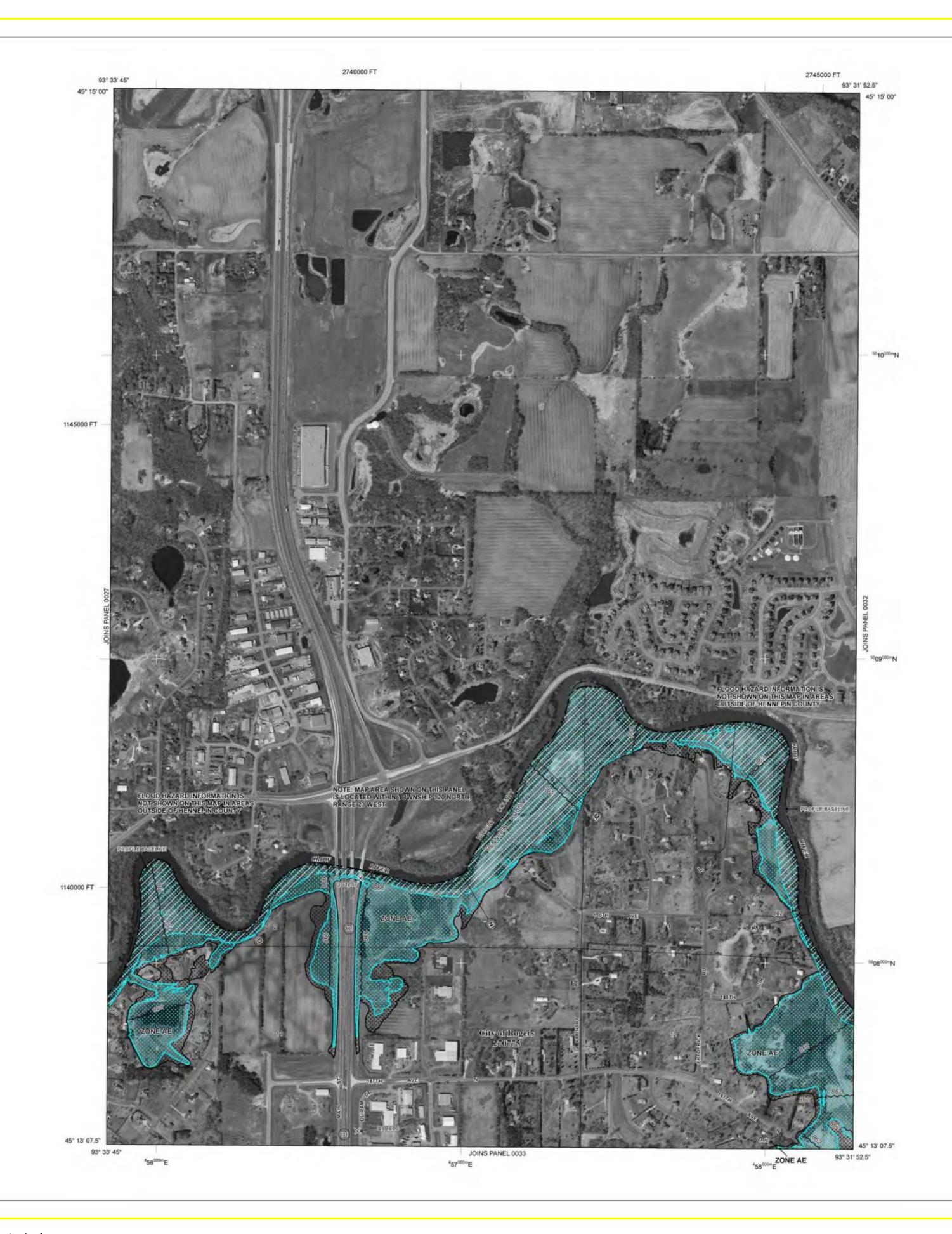
For information on available products associated with this FIRM visit the Map Service Center (MSC) website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or

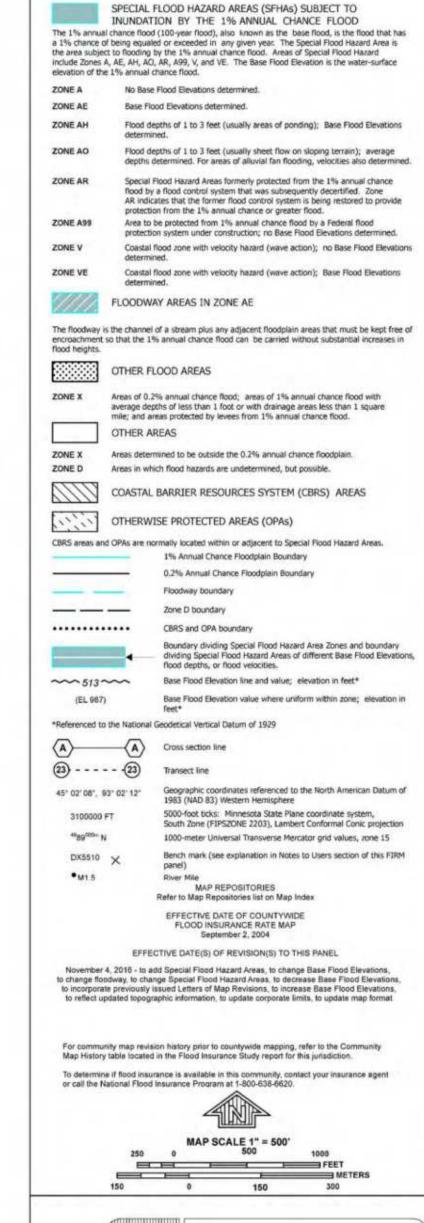
county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program

dates for each community as well as a listing of the panels on which each community

*Administrative floodway designated in accordance with local regulations for management of these areas

MODELED NODE LABEL





LEGEND

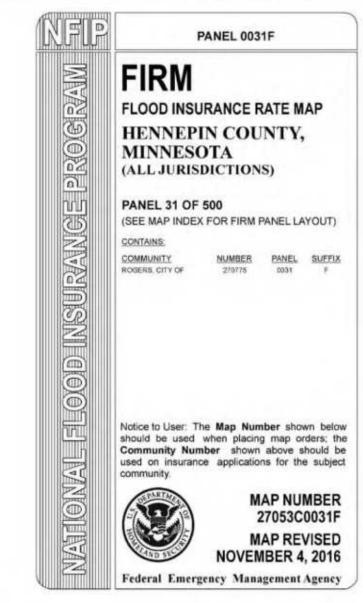








FIGURE 13 - HISTORIC/ARCHEOLOGICAL SITE LOCATIONS

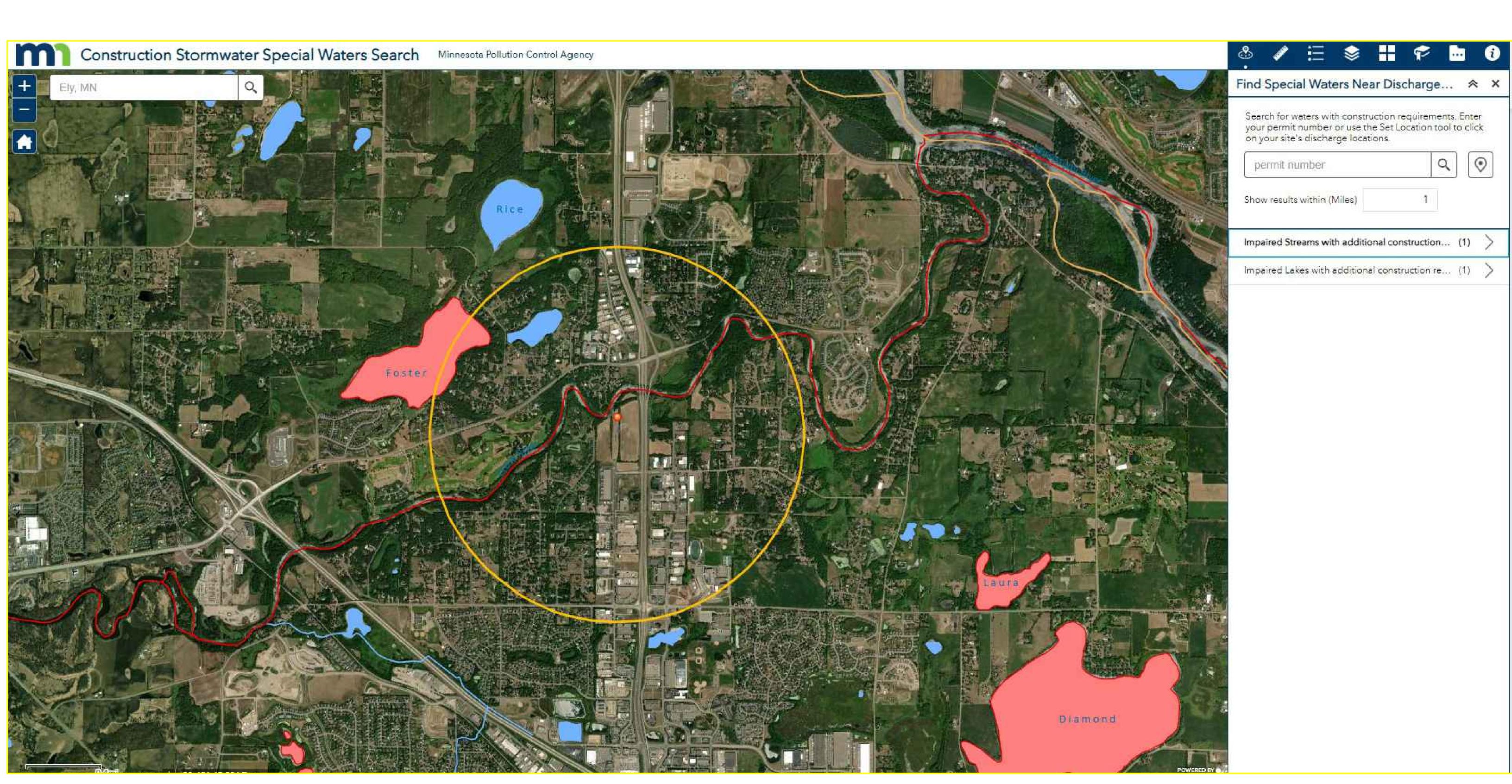


FIGURE 14 - IMPAIRED WATERS MAP

Appendix B

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location





Local office

Minnesota-Wisconsin Ecological Services Field Office

(952) 858-0793

(952) 646-2873

3815 American Blvd East



Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- Log in (if directed to do so).
- 4. Provide a name and description for your project.
- Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status</u> <u>page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME STATUS

Northern Long-eared Bat Myotis septentrionalis

Endangered

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/9045

Tricolored Bat Perimyotis subflavus

Proposed Endangered

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/10515

Birds

NAME STATUS

Whooping Crane Grus americana

EXPN

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/758

Insects

NAME STATUS

Monarch Butterfly Danaus plexippus

Candidate

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/9743

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and golden eagles are protected under the <u>Bald and Golden Eagle Protection Act</u> and the <u>Migratory Bird Treaty Act</u>.

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

Additional information can be found using the following links:

- Eagle Managment https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds
 https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds
 https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

There are bald and/or golden eagles in your project area.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME BREEDING SEASON

Bald Eagle Haliaeetus leucocephalus

Breeds Dec 1 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and

understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (I)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

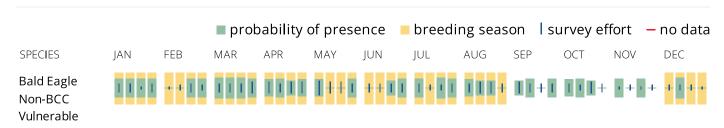
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply). To see a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the <u>Eagle Act</u> should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds
 https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds
 https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME BREEDING SEASON

Bald Eagle Haliaeetus leucocephalus

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds Dec 1 to Aug 31

Black Tern Chlidonias niger

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/3093

Breeds May 20 to Jul 31

Breeds May 1 to Jul 20

Breeds May 1 to Aug 31

Breeds elsewhere

Breeds May 15 to Aug 20

Bobolink Dolichonyx oryzivorus

This is a Bird of Conservation Concern (BCC) throughout its

range in the continental USA and Alaska.

Canada Warbler Cardellina canadensis Breeds May 20 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its

range in the continental USA and Alaska.

Breeds Apr 22 to Jul 20 Cerulean Warbler Dendroica cerulea

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/2974

Chimney Swift Chaetura pelagica Breeds Mar 15 to Aug 25

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Golden-winged Warbler Vermivora chrysoptera

This is a Bird of Conservation Concern (BCC) throughout its

https://ecos.fws.gov/ecp/species/8745

range in the continental USA and Alaska.

Henslow's Sparrow Ammodramus henslowii

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/3941

Lesser Yellowlegs Tringa flavipes

This is a Bird of Conservation Concern (BCC) throughout its

range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9679

Red-headed Woodpecker Melanerpes erythrocephalus Breeds May 10 to Sep 10

This is a Bird of Conservation Concern (BCC) throughout its

range in the continental USA and Alaska.

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Wood Thrush Hylocichla mustelina

Breeds May 10 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (III)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (1)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

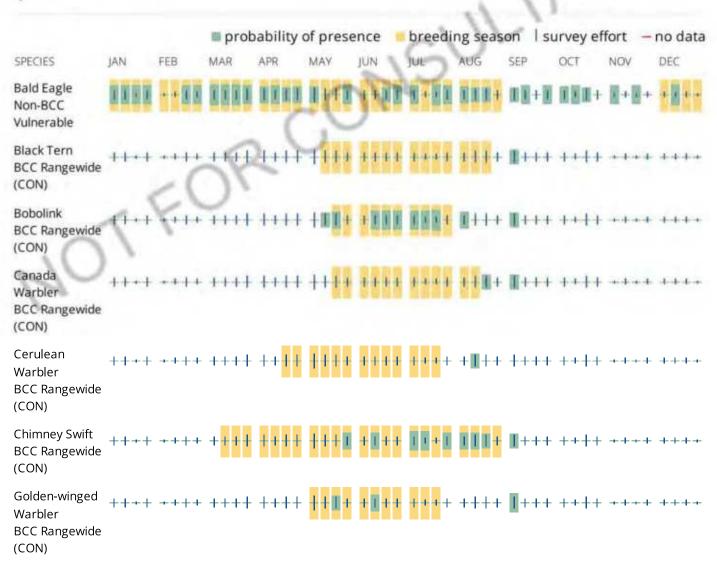
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

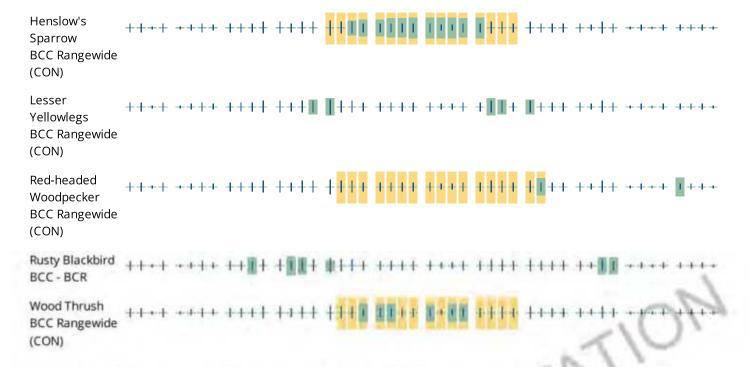
No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, and <u>citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps</u> of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

RIVERINE

R2UBH

A full description for each wetland code can be found at the <u>National Wetlands Inventory</u> website

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include

seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

T FOR CONSULT



Formal Natural Heritage Review - Cover Page

See next page for results of review. A draft watermark means the project details have not been finalized and the results are not official.

Project Name: Rogers Industrial
Project Proposer: CP West, LLC

Project Type: Development, Commercial/Institutional/Industrial

Project Type Activities: Tree Removal; Grading; Waterbody or watercourse impacts (e.g., dewatering, discharge, excavation, fill, runoff, sedimentation, changes in hydrology)); Wetland impacts (e.g., dewatering, discharge, excavation, fill, runoff, sedimentation, changes in hydrology))

TRS: T120 R23 S11, T120 R23 S2

County(s): Hennepin, Wright

DNR Admin Region(s): Central

Reason Requested: State EAW

Project Description: The proposed Rogers Industrial project includes construction of three industrial

buildings in Rogers, MN. Driveway connections to the proposed facilities ...

Existing Land Uses: Existing land use consists of cropland, trees, and wetlands.

Landcover / Habitat Impacted: Clearing and grubbing of cropland will occur due to altering grades. Tree

removal will occur due to altering grades. a tree removal and replacement will ...

Waterbodies Affected: The site is bordered by the Crow River along the north and a wetland delineation

line runs along the northern property line. The project will provide floodplain ...

Groundwater Resources Affected: Not applicable

Previous Natural Heritage Review: No

Previous Habitat Assessments / Surveys: No

SUMMARY OF AUTOMATED RESULTS

Category	Results	Response By Category
Project Details	Comments	Tree Removal - Recommendations
Ecologically Significant Area	No Comments	No Further Review Required
State-Listed Endangered or Threatened Species	No Comments	No Further Review Required
State-Listed Species of Special Concern	Comments	Recommendations
Federally Listed Species	No Records	Visit IPaC For Federal Review



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

August 30, 2023

Project ID: MCE #2023-00673

Alessandra Stutz Sambatek, Inc. 12800 Whitewater Drive, Suite 300 Minnetonka, MN 55343

RE: Automated Natural Heritage Review of the proposed Rogers Industrial See Cover Page for location and project details.

Dear Alessandra Stutz,

As requested, the above project has been reviewed for potential effects to rare features. Based on this review, the following rare features may be adversely affected by the proposed project:

Project Type and/or Project Type Activity Comments

• 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 below, all seven of Minnesota's bats, including the federally endangered northern long-eared bat (<u>Myotis septentrionalis</u>), 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.

Ecologically Significant Area

No ecologically significant areas have been documented in the vicinity of the project.

State-Listed Endangered or Threatened Species

No state-listed endangered or threatened species have been documented in the vicinity of the project.

State-Listed Species of Special Concern

Taxonomic Group	Common Name	Scientific Name	Water Regime		Federal Status
Invertebrate Animal	Black Sandshell	Ligumia recta		Large Rivers, Medium Rivers and Streams	

Rogers Industrial MCE #: 2023-00673 Page 3 of 6

• The above table identifies state-listed species of special concern that have been documented in the vicinity of your project. If suitable habitat for any of these species occurs within your project footprint or activity impact area, the project may negatively impact those species. To avoid impacting state-listed species of special concern, the DNR recommends modifying the location of project activities to avoid suitable habitat or modifying the timing of project activities to avoid the presence of the species. 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. For further assistance, please contact the appropriate DNR Regional Nongame Specialist or Regional Ecologist. Species-specific comments, if any, appear below.

Federally Listed Species

The Natural Heritage Information System does not contain any records for federally listed species within one mile of the proposed project. Please note, however, that not all federally listed species are tracked within the NHIS. To ensure compliance with federal law, please conduct a federal regulatory review using the U.S. Fish and Wildlife Service's online <u>Information for Planning and Consultation</u> (IPaC) tool.

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 the project description provided on the cover page. If project details change or construction has not occurred within one year, please resubmit the project for review.

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 effects to these rare features. For information on the environmental review process or other natural resource concerns, you may contact your <u>DNR Regional Environmental Assessment Ecologist</u>.

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

Sincerely,

Jim Drake Jim Drake Natural Heritage Review Specialist James.F.Drake@state.mn.us

Rogers Industrial MCE #: 2023-00673 Page 4 of 6

Links: USFWS Information for Planning and Consultation (IPaC) tool
Information for Planning and Consultation (IPaC) tool
DNR Regional Environmental Assessment Ecologist Contact Info
https://www.dnr.state.mn.us/eco/ereview/erp_regioncontacts.html

Rogers Industrial Aerial Imagery With Locator Map





Project Type: Development, Commercial/Institutional/Industrial

Project Size (acres): 46.56

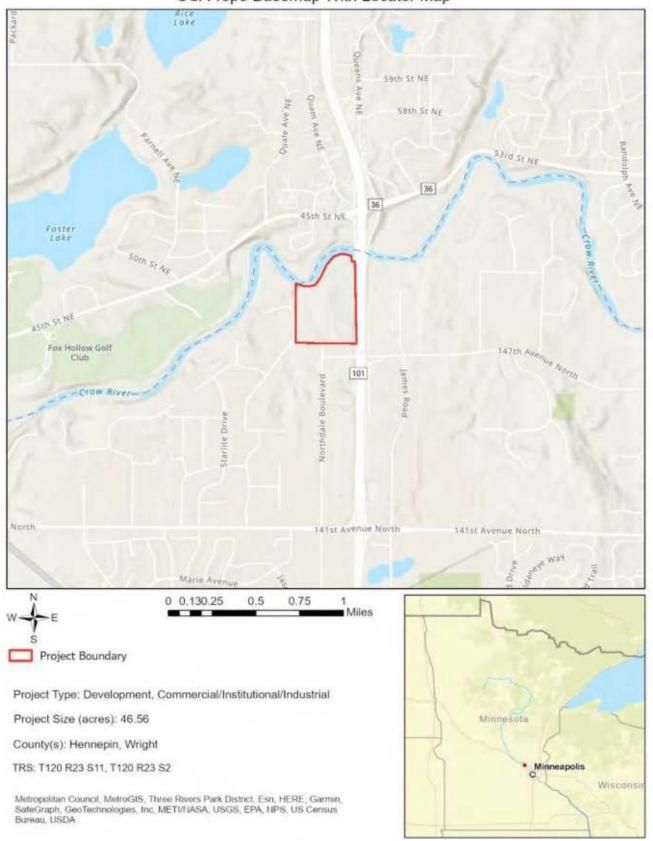
County(s): Hennepin, Wright

TRS: T120 R23 S11, T120 R23 S2

Metropolitan Council, MetroGIS, Three Rivers Park District, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc. METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA



Rogers Industrial USA Topo Basemap With Locator Map



Alea Stutz

From: MN_MNIT_Data Request SHPO <DataRequestSHPO@state.mn.us>

Sent: Tuesday, September 12, 2023 3:16 PM

To: Alea Stutz

Subject: RE: Cultural Resource Consultation - Rogers Industrial

Attachments: Archaeology.xls; History.xls

Hello Alea,

Please see attached.

Jim



SHPO Data Requests
Minnesota State Historic Preservation Office
50 Sherburne Avenue, Suite 203
Saint Paul, MN 55155
(651) 201-3299
datarequestshpo@state.mn.us

Notice: This email message simply reports the results of the cultural resources database search you requested. The database search is only for previously known archaeological sites and historic properties. **IN NO CASE DOES THIS DATABASE SEARCH OR EMAIL MESSAGE CONSTITUTE A PROJECT REVIEW UNDER STATE OR FEDERAL PRESERVATION LAWS** – please see our website at https://mn.gov/admin/shpo/protection/ for further information regarding our Environmental Review Process.

Because the majority of archaeological sites in the state and many historic/architectural properties have not been recorded,

important sites or properties may exist within the search area and may be affected by development projects within that area.

Additional research, including field surveys, may be necessary to adequately assess the area's potential to contain historic properties or archaeological sites.

Properties that are listed in the National Register of Historic Places (NRHP) or have been determined eligible for listing in the NRHP are indicated on the reports you have received, if any. The following codes may be on those reports:

NR – National Register listed. The properties may be individually listed or may be within the boundaries of a National Register District.

CEF – Considered Eligible Findings are made when a federal agency has recommended that a property is eligible for listing in the National Register and MN SHPO has accepted the recommendation for the purposes of the Environmental Review Process. These properties need to be further assessed before they are officially listed in the National Register.

SEF – Staff eligible Findings are those properties the MN SHPO staff considers eligible for listing in the National Register, in circumstances other than the Environmental Review Process.

DOE – Determination of Eligibility is made by the National Park Service and are those properties that are eligible for listing in the National Register, but have not been officially listed.

CNEF – Considered Not Eligible Findings are made during the course of the Environmental Review Process. For the purposes of the review a property is considered not eligible for listing in the National Register. These properties may need to be reassessed for eligibility under additional or alternate contexts.

Properties without NR, CEF, SEF, DOE, or CNEF designations in the reports may not have been evaluated and therefore no assumption to their eligibility can be made. Integrity and contexts change over time, therefore any eligibility determination made ten (10) or more years from the date of the current survey are considered out of date and the property will need to be reassessed. If you require a comprehensive assessment of a project's potential to impact archaeological sites or historic/architectural properties, you may need to hire a qualified archaeologist and/or historian. If you need assistance with a project review, please contact Kelly Gragg-Johnson, Environmental Review Specialist @ 651-201-3285 or by email at kelly.graggjohnson@state.mn.us.

The Minnesota SHPO Archaeology and Historic/Architectural Survey Manuals can be found at https://mn.gov/admin/shpo/identification-evaluation/.

Please <u>subscribe to receive SHPO notices</u> for the most current updates regarding office hours, accessing research files, or changes in submitting materials to the SHPO.

To access historic resource information please visit our webpage on <u>Using SHPO's Files</u>.



From: Alea Stutz <astutz@sambatek.com>
Sent: Tuesday, September 12, 2023 11:36 AM

To: MN_MNIT_Data Request SHPO <DataRequestSHPO@state.mn.us>

Subject: RE: Cultural Resource Consultation - Rogers Industrial

You don't often get email from astutz@sambatek.com. Learn why this is important

This message may be from an external email source.

Do not select links or open attachments unless verified. Report all suspicious emails to Minnesota IT Services Security Operations Center.

Hello,

I am following up on a data request submitted on 8/30. Please let us know any cultural resources within the project area.

Thank you!

Alea Stutz

Staff Engineer

Direct: 763.520.8460

From: Alea Stutz

Sent: Wednesday, August 30, 2023 1:43 PM

To: MN_MNIT_Data Request SHPO < DataRequestSHPO@state.mn.us >

Cc: Steve Troskey, AICP <stroskey@sambatek.com>

Subject: Cultural Resource Consultation - Rogers Industrial

Hello,

Sambatek is preparing an EAW for an industrial development in Rogers, MN. We are requesting a cultural resource review for the site to inform the impact analysis. The project location is as follows:

City of Rogers Hennepin County Section: 02

Township:120 Range: 23W

PID: 1112023210002

A PDF of the project area is attached.

Thank you!

Alea Stutz

Staff Engineer

Direct: 763.520.8460 Email: astutz@sambatek.com



Engineering | Surveying | Planning | Environmental

12800 Whitewater Drive, Suite 300 Minnetonka, MN 55343

TPBPLS FIRM #10194760

Connect with us!







CONFIDENTIALITY NOTICE: This e-mail and the documents accompanying this e-mail contain confidential information. The information is solely for the use of the intended recipient(s) named above. If you are not the intended recipient, please notify us immediately by phone and delete it from your system.

COUNTY Hennepin

Rogers

EITYWP PROPNAME ADDRESS TOWN RANG SEC QUARTER USGS REPORTNUN NRH CE DOLINVENTNUM

Rogers

Bridge 27020 120 23 2 SESW Rogers

HE-HAT-058

COUNTY Wright	SITENUM	SITENAME	TOW	RAN SECTIO	ON XQUARTERS	ACRES WORKTYPE	DESCRIPT	TRADITION CONTEXT ReportNum	Natreg CEF DOE
	21WR0026		120	23	2 E-SW	0	EW	W-2	
	21WR0146		120	23	2 SW-NE-SE	13.9 1	AS	MULT-2004-03	
			120	23	2 SE-NW-SE	13.9 1	AS	MULT-2004-03	
			120	23	2 NE-SW-SE	13.9 1	AS	MULT-2004-03	
			120	23	2 NE-NW-SE	13.9.1	AS	MULT-2004-03	

Appendix C



Minnesota Wetland Conservation Act Notice of Decision

Local Government Unit:	City of Rogers	County: H	lennepin
Applicant Name: Schimdt			
Applicant Representative	: Ken Arndt - MNR		
Project Name: Northdale	Blvd Property	LGU Project No. (if any)	:
Date Complete Application	n Received by LGU:	10/24/2022	
Date of LGU Decision: 11/	4/2022		
Date this Notice was Sent	: 11/18/ 2022		
WCA Decision Type - check			
☑ Wetland Boundary/Typ	e 🗆 Sequencing	☐ Replacement Plan	☐ Bank Plan (not credit purchase)
☐ No-Loss (8420.0415)		☐ Exemption	(8420.0420)
Part: □ A □ B □ C □ D	□ E □ F □ G □ H	Subpart: □	2 🗆 3 🗆 4 🗆 5 🗆 6 🗆 7 🗆 8 🗆 9
Replacement Plan Impacts	(replacement plan de	ecisions only)	
Total WCA Wetland Impac	t Area:		
Wetland Replacement Typ	e: 🗆 Project Speci	fic Credits:	
	☐ Bank Credits:		
Bank Account Number(s):			
Technical Evaluation Panel	Findings and Recom	mendations (attach if any)	
	w/Conditions \square D	eny 🔲 No TEP Recomm	endation
LGU Decision			
☐ Approved with Condition	ons (specify helow) ¹	\boxtimes Approved ¹	☐ Denied
List Conditions:	ons (specify below)	△ Approved	E beined
List conditions:			
Danisian Malantantanthia A		✓ C	il 🗆 Othern Consulting Areas
Decision-iviaker for this A	ppiication: \square Starr	☐ Governing Board/Counci	il Other: Consulting Agent
Decision is valid for: ⊠ 5	years (default) 🛚 Ot	her (specify):	
1,4,4,4,0,4,4,1,4,1,4,1,4,1,4,1,4,1,4,1,			
			required wetland bank credits. For project- t all required forms have been recorded on
the title of the property on which	•	· •	•
the title of the property on which	ine replacement wetland i	s located mast be provided to the	2 200 for the approval to be valid.
LGU Findings – Attach docu	• • • • • • • • • • • • • • • • • • • •		
	•	ated Figure 5 showing post	TEP results, Email between
MNDNR and Ken Arndt of	MNR.		
-			Mueller (LGU) Jed Chesnut (BWSR),
			he Wetland Boundary and Type
•	•	were made to the original of	
	land delineation repo	ort and boundaries submitte	ed by MNR on 10/24/2022.
¹ Findings must consider any TEP			

[•]

Attached	Proi	ect	Doci	ıme	nts
Allaciieu	FIUI	CLL	$\boldsymbol{\nu}$	allic	IILS

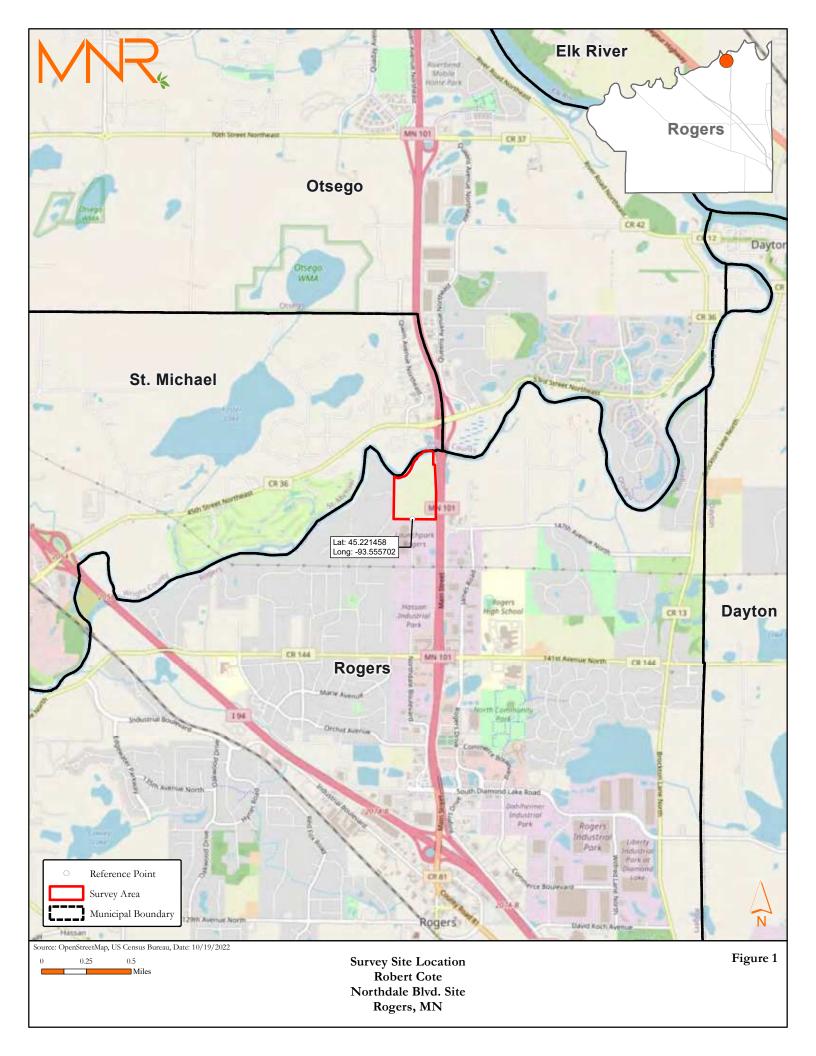
Site Location Map	■ Wetland Boundaries Map Click here to enter text.
-------------------	--

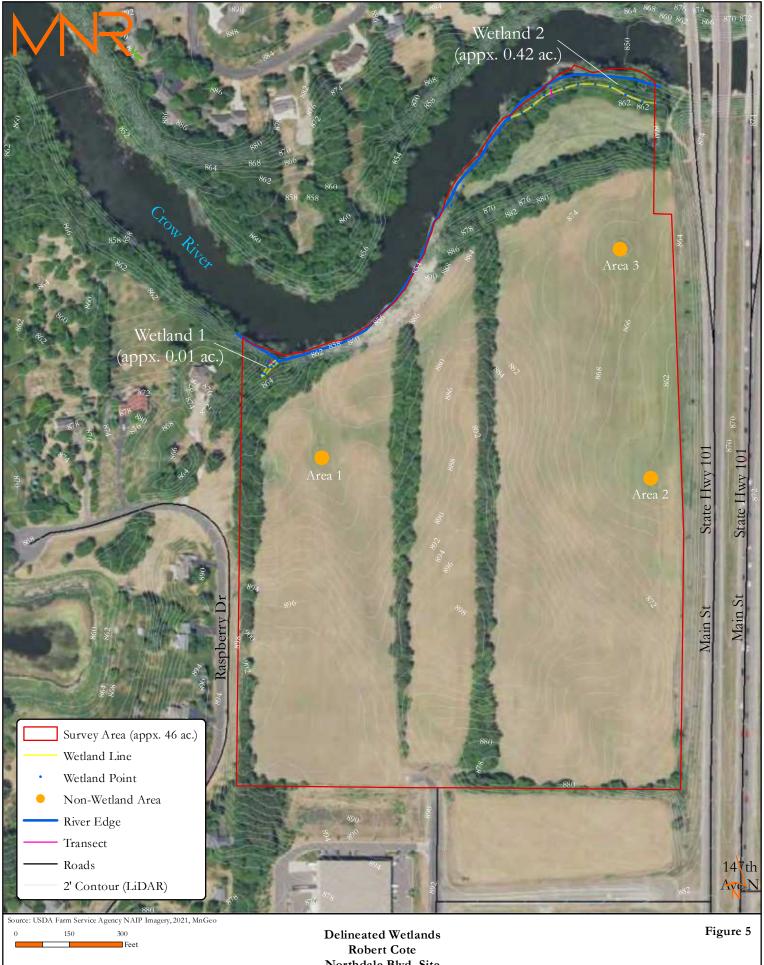
Appeals of LGU Decisions

If you wish to <u>appeal</u> this decision, you must provide a written request <u>within 30 calendar days of the date you received the notice</u>. All appeals must be submitted to the Board of Water and Soil Resources Executive Director along with a check payable to BWSR for \$500 *unless* the LGU has adopted a local appeal process as identified below. The check must be sent by mail and the written request to appeal can be submitted by mail or e-mail. The appeal should include a copy of this notice, name and contact information of appellant(s) and their representatives (if applicable), a statement clarifying the intent to appeal and supporting information as to why the decision is in error. Send to:

Appeals & Regulatory Compliance Coordinator Minnesota Board of Water & Soils Resources 520 Lafayette Road North St. Paul, MN 55155 travis.germundson@state.mn.us	
Does the LGU have a <u>local appeal process</u> applicable to this decision	sion?
\square Yes ¹ \boxtimes No	
¹ If yes, all appeals must first be considered via the local appeals process.	5.
Local Appeals Submittal Requirements (LGU must describe how to app	peal, submittal requirements, fees, etc. as applicat
Notice Distribution (include name) Required on all notices:	
Stacey Lijewski	BW3K TEP Member. Jeu Cheshut
☐ LGU TEP Member (if different than LGU contact):	
☑ DNR Representative: Wes Saunders-Pearce	
☐ Watershed District or Watershed Mgmt. Org.: Judie Anderson	n
☐ Applicant: Bob Cote ☐ Agent/Consultant: Ken Arndt	
Optional or As Applicable:	
⊠ Corps of Engineers:	
☐ BWSR Wetland Mitigation Coordinator (required for bank plan appl	lications only):
☐ Members of the Public (notice only): Eric Trelsad, Jeremey Dor	nabauer \square Other:
Signature:	Date:
Testalle	November 18, 2022
This notice and accompanying application materials may be sent elect	transally or by mail The LCU may out to soud a

This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.





Northdale Blvd. Site Rogers, MN

Appendix D



REPORT PHASE I ENVIRONMENTAL ASSESSMENT

48 ACRE DEVILOPMENT PROPERTY LOCATED ALONG THE WEST SIDE OF MN HWY 301, SOUTH OF THE CHOOLINGS. ROGERS, MINNESOUS

APRIL 13, 2001.

PRETAREMEDIA

MR. NON COTE SUBMINISCROW LAC

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APPENDIX (ENVIRONMENTAL DA LA RESOLROES, NO REPORT

AND DESCRIPTION OF DATABAKES.

APPENDIX D. R. PAUSCOUROPERTY PROTOCKAPING

APPENDIXT VER A PHOTOGRAPHS

APPENDIX F TOPOGRAPHIC MARS.

PARTENDANC CORRESPONDENCE

1.0 KARCUMIVE SIMMARY

Observed the communication (Omni) was removed by Mr. Bob Cont, Schmidt-Crow, ILC CON(FNI), Fullis, Munascrip, to conduct a Phase I Reproducted Site Assessment of the property known as (Logal Description is observed in Apportia C) the 43 acre development, property located about The TDI, south of the Crow-Siver (subject property) in Royals, Mannesota. A location map of the property is presented in Figure 1. The purpose of the Phase I Royals are developed whether content of historical activities on or man the subject property may have resulted as significant communication by locations materials on was less also shown as a 185 opinical Environmental Conditions (REC).

The Physic I Environmental Arte Assessment was performed in accommise with ANTW Stricture F 1527-97 and the attached scope of work (Apparelix A), and was authorized by the CLIENT on Machines 25, 2001.

The subject jet (party is approximately 49 scress in also and as Januarious are approximately 1,00% for 2,700 fb. The subject property is correctly an approximational field with no building out to According to Montaura, the subject property has never been describe out and has been always used primarily for agoly that 3 had no been varient.

The subject property is Lounded on the east by Minnesota Highway 101 and beyond is agricultural and commercial land. The Crow Resembounds die subject property to the commercial land. Residential land bounds the western safe of the subject property. Commercial property broades the school property to the south

No evidence of contonination by loss addeds substances, hazardous wastes, uncongroupd storage tanks (USTs), and drows or contouring observed on the subject property of the uncolding site substance. No unusual orders, contraining pools of waste diquid, distressed vegotion in a condstance deduces but off patterns, or ordered grown inward observed untitle subject property strong the site inspection. No pits, pands, against our solutions at our observed on the subject property but of the site inspection. No we is were observed on the set property.

Boxes for the available information, no Recognised Errano colored Conditions (RECs) were found to be a solved as twice current or historic activities on the subject property.

A visite line particular observable areas of surrounding properties of the subject property did nor identify any $\rho \in \mathbb{N}$ stated potential concern that could be case anythy appeared to create on K+C of the author; property.

A review of Follow and State convironmental declares blockified to proportion of proportion entire environments convoir to the endoughting area and could be reasonably exposted to obtain an REC withe subject property

2.0 PTRODECTION

Outsil was related by Mr. Bob (O)c, Schmidt Crow, LLC (C/LFNI), linguis, Minnesons, to absolute a Phase 5 Environmental Sea Assessment of the property known as the 48 Acre development Property located stong the West school MN Thay 101, control for the Crow River (surport property) in Rugers. Minnesons I this project was conducted in accordance with the strought scope of work (Appendix A) and was sufficiently by the CLITINT on Match 13, 200. This project purpose, scope, and himraricus and presented in the following scoreus.

2.1 Physics:

The purpose of the Phase I Bryincomental Site Assessment was to evaluate environmental concerns on 1980-8 the may be associated with the subject property. Such any equational concerns at issues subsequently referred to in this conjuries of Regeneraed Environmental Condition I in accoma no with the ASTM Standard P. 555-6571 A Resognized Environmental Condition is defined as

The personal or likely presence of any basardous substances or permission products of a projectly under conditions if at its litate an existing rolesse, it past of ascending material distributions of a release of any locations substances of periodeum promise unto a property or into the gravial, exceed water or seriate reason of the property or into the gravial, exceed water or seriate reason of the property of into the gravial or published and products even make conditions in compliance with these. The reson is not into its include as more missional to the gracestally do not present a material risk of leases to publish health or the environment, such that sentently would not be the singer or an electrocestal union if brought to the attention of appropriate governmental agencies.

2.2 Scope of Worta

The Photo I Environmental Sup Associated was performed in accompanie with the attached scape of work and authorized by the CLEINT on Merch 28, 200. . A copy of this proposal is trusted in Appendix A

3.3 Limiting Conditions

The ability to complete the scape of work was linear by the result availability of sequipal woods such as the insurance maps (Sauthonia), Listonia) topographic maps, and applicationias. The ability to complete the scape of two kiess also liquid by the subject probably being open in show during the site walk through

2.4 Limitations of the Report

The Proxe I have bounded Sup Assessment Report was prepared in accordance with the Scope of World described in Sociate 2.2 and presented as Appendix A. The world on high singled to the pervises agreed to with the CLIENT, and no other services beyond those explicitly stated should be interval (a, implicit.)

The Prace I Programmental Site Assessment was 1 mind to visual observations of conditions on the day of the site magnetical, review of readity exhibite and polyant data, and statements made and information provided by the CLIENT, his agents, curated parties, and regularity appraise. Specifically not included in the Scope of the Phase 1 Environment of Site Assessment was an exhibitation of geologic mazeret, anchor geologic hazeret, and the geologic hazeret geologic hazeret.

The Place I Euvironment Site Assessment is a limited and non-Alacstice survey than a unmoded to evaluate whether rend by available information indicates that the lasteric or content use of the subject property resulted to committee up by hazardous substances of wastes. As a result, without a contention strength, and subject program or implementation of services beyond the original scope of waste, centum portifical conditions, including, but not knowed to those samples at below, may not be reverted.

- Naturally according toxic substances or elements fould in the substance soils, rocks, or where.
- Toxic substances congroudy found its current habitable anvicomments, and as procedured products, in their metals, and consumateles.
- feelegical or infectious agents and participants
- In Combount plantes Significant gaseous), whose this suitable from a remote on ordinount source.
- Onto your, threspected, and not reachly visible contacting ion which may have been caused by "tording in a conjugate and/or accidental applies."

Due and customory (\$65 its 5 its concreted in the conduct of the $[P]_{0.80}$ 1 [invariance of $[S]_{0.80}$ Associated, but into that the provided by others has not been independently verified. The motion is also into the conduction and loss resulting from errors or consistent anising from the met of its current incomplete information in the misconstantations made by private. This has been proported at the request of the 10 (FIV), and it should be emphasized than because conditions in the subject property can change ever ticks; the usu of this report by mount (curred third parties shall be at the incomplete.)

3.0 PHASE LENVIRONMENTAL ATTE ASSESSMENT

3.1 Hescription of Subject Property

Information concerning the subject property was obtained from the similar specifical conducted by Mrt. Matt. Cikos of Dann on April 5, 2001 and documents referenced in Society 4.0 of this report. Interviews concerning the subject gropesty were concurred with Mrt. Jun Line.

3.1.1 Physical Lucarian and Bese aption of Subject Property

This subject property is 1.48 core development property located along the west side of MN 112.5 131, south of the Grow River in Rogers. Minnespig 1.A literation coup of the subject properties dimensions are approximately 1.368 froz 2,230 ft. Associated to Mr. Linz, the subject property has associated by Liveleged and has been used primarily as agreed to discuss been vaccor.

The subject projectly is bounded on the east by Minneson Highway 101 and beyond is agricultural and conductival hald. The Grow River bounds the amplet property to the botth and beyond is residential factor cause that has subject property. Commortal or sperty become the subject property in the south.

3.1.2 Environmental Actions

3 U.S.I. Topography

The subject property is located in Sections 2 & 11, Township 10) North, Range 20 West, in Herney in Downs, Munusula. Businessmental characteristics including topography, swits, geology, a VI Lyruogoology were evaluated based on sire observations, published Locature, and maps.

According to the 1, most brane; Geological Survey i Rogers. Minnesotal 7...5 Minnesotal (MSL), the elevation of the subject property to no tauty the Hydre, with the exception of a steep more rank, and some lower river terrace areas in the roger's set occurs of the property. The local surface most appears to flow contributions for the 3 most River.

3122 Soils

Based at information from the U.S. Department of Agricular via (1,80A) Soil Conservation Solvice (SCS) leading the National Congerative Soil Solvicy (NCSS) the combant soil study-osition in the general area of the ranger property is composed (4 HeUserd Leady send). Hothard locally said is well drained to excessively a niew. These soils 36ve very likely and high levelset lie conductivity and low water holding property. Could be the water able is generally more than 5 foot, except in the northeast stee notion, or the property man, the river.

3.2.2 Part Uses of Subject Property

Dased on the site interview, observations (i) in the site walk-discuss and a review of highly actial photographs, the past use of the subject property were discertable nased on the subjection. His said use information is presented in Section 5.4.

3.2.3 Exterior and Interior Alte Observations of Subject Property.

i / i 1 Hazar Jous Substances and Peopleum Products.

No hazarroms substrongs of insurchana products were observed on the subject property during the site taspetrion. According to Mr. Lutz, as hazardous substances or petroleum products substances on petroleum products used or stored on the subject property.

3.2.3.2 Hazardona Wastes

According to Mr. Tunk, no hozardous tensors are properties; or a result of operations at the sire property. The site was not listed to the government regulatory namely as a post cubic hazardous waster.

13 × 5 · J.Margabuch Aboveground Storage Tanks

Vertilpipos indicating tackoga audi storago paiks (USTs), word not observed an the sobject property curring the such aspection. No aboveground storage tanks (ASTs) were conserved on the subject property curring the site inspection.

5.2.5.4 Drems, and Containeral

No drums or containers were observed on the subject property distance the site dispersion.

3.2.3.5 PCD Containing Equipment

Noticenstonable that could potentially contain polyablorinated highertyls (FCRs) were $p_{\rm GCRs}$, as the sub-out property during the site inspection.

3.7.3.9 Solul Waste.

According to M_1 . Latz, no solid wastes, is zandons or otherwise, are produced at or horizonthe solid (or properly). No dumps are were observed on the subject properly during the site association.

3.2.3.7 Drains and Success

No drains or samps were (two values the subject property during the site inspection.

3.2.3.8 Wishermer/Stone: Wago:

According to Mr. I may not wrepowered is produced at the subject property as a result of site operations:

3 2.3 9 Wells

Abstraction to Mr. Euro, no wells are located on the subject property. No wells were observed to the subject property during the site inspection.

870.876 Peac Pouck, and Lagrange

Phils, pands and logorous were but observed on the sobject progerty at the nine of the Signific perhan

3.2.3..1 Dry cleaning Operations

Day-Lacking operations do not appear to have have sondhered at the being conducted on the subject property

8 % ^{п. т.} Видивику Селетцова

The visits on analysists governors located on the subject property.

3.2.9.13 Acc

There were no closery (δu comparisons coming them the subject property during the specific property during the specific u

Radon was not belief the however, there are no buildings on the subject grope by for magnitive natures are

2.2.3.14 Office: Physical Experies of Lenguigation.

Office physical evidence of concernitarion was not observed that is, the sub-inegotion.

3.3.3.15 Asberous Containing Materials

According to Mr. Lutz, the subject property has never been developed. No assessos of equipped makerists were observed during the site inspection.

3.3 Surrounding Property Site Inspection

A prisure inspection of coadily visible areas of controlled property was performed. The following description of the current uses and percent a long-to-muchtal concerns is based (in observations on the data of the site inspection and interviews with site contacts.)

3.3.1 Current I set of Sucrounding Property

Surrounding property of the time of the site inspection are as fellows:

Notific: The Craw River bounds the subject products to the borth, and reyond is administrated and residents in property.

Haster Illighway 10, houses the subject peoplarly on the case, and beyond is agreent (a) and communicial property.

Septimen Communicational bounds the subject property on the sopple.

West - Residential build bounds the subject prometry on the west

3.3.2 Surrounding Property of Potential Environmental Contern

The devicemental database search reveals industrial of potential environmental configurations. The ASTM regards readers for each database. No successfully properties of properties of properties of properties of properties are properties.

3.4 Historic Conditions of Subject Property and Surgoinging Property

The bistory of land use on and next the subject property was evaluated in code; to Storbly those cases and occupations that are likely to have led to a Recognized Environmental Condition in connection with the subject property.

3.4.1 Correct post Prior Osciership and Tenancs

According to Mr. 100 1205, or objectly owns the subject properly, and has extract the properly since 1977 when he proposed the properly Bount the Scharber family. Through a mapping interview with the Helmophi Change Ratiodors office, the Scharber family purchased the property for deed in 1961. The subject property is containly an agricultural field and as such is categories.

3.4.2 Chain-d'-Title

A Laured Chain-difficults is was not completed at the Hennegh Richard Recorder's Office, however, a relegious interview was conducted with the Henneghi Comby Recorder's Chine was at was learned that the Scharles purchased the subject property for read in 1961. It was learned through the interview with Jun Laur that he purchased the subject property from the Scharter family in 1999.

3.4.3 Enterviews

Mr. Junt Lutz was interviewed regarding past and pursual dwardship and usage of the halysop products. The results of this interview are intestants. In Sections 3.3 and 3.4.1

3.4.4 Assist Photographs

Activity hatographs were reviewed to provide historical follographs or the pulpoption and its vicinity. These social photographs were exactable from Environmental Yaya 3,550, 2005, Tight for the years input below.

1<u>937 F/5)((Jap)</u>

Approximate scale: 10 ± 800

The subject property in Leutrounding properties appear as furnished. MN Highway 191 and 147* Street are absorbed a 00 oil processes by Josephus 10th Avenue NB and the rethrand not observed in their present-day populars.

<u>1943 P</u>bote_szuphi

Anna recur ate scala: P = 350.

This sublext property and corrounding areas appear similar to the $(9.92\,{
m mod}_{\rm subs})_{\rm coll}$

956 Plotecapida

Approprimate scale: P = 328

The soft of property and surrounding areas appear similar to the 1965 photograph.

966 PL(Gegeogle

Approximate scale: 1' = 300.

The subject property and some or line stars appear similar to the 1956 photograph.

1975 Photographi

Appendig note sents: $1^{n} = 315$.

The commercial and residential bails in the spansars, the non-partial buildings to the eart of the property have appeared between 1966 and 1978. The soft on outside appears the armitematic 1966 photograph.

uP81 Photographi

Appropriate yeals: $1^{n} = \frac{n+3}{3}$.

The subject property and surrounding about appear sizaliza to the 1978 photograph.

1997 Photographs

 \triangle transformate scales $1.1 - 525^{\circ}$

Discresidential property bounding the subject property to be, was tapones between 1984 and 1999. The subject property appears similar to the 1984 is subjectly.

3.4.5 Soutour Rice Insurance Rate Maps

Sanhort. The Insciouse Say: Maps say not available for the subject property.

3.4.6 Historie Engagemphie Maps

Historic topographic cusps were reviewed to provide learnered background of the judiper-topolity and its vectority. From experience maps were available in the topographic map was obtained from the United States Geniovical Survey for the very noted helps.

<u> 1909 "Rockligti,</u> Minn." 15 Minute Quadrang et

<u> Pante II 92,500</u>

The subject producty appears vacani. MN Highway: 01 does not yet beautiful straps , producty to 0.0 \pm s.: 147° Avenue North is print present day location.

958 Resident Manual 13 Manual Continued

Scale: ::62.590

MN Highway 10 Fire as an ite present (by cotation. The subject property appears similal method - 909 regaging his many

<u>1981 "Ro</u>gers, Mind." 7.5 Mindre Quadrang e

Set Let 1, 74,000

The subject property and the standarding step appears within a forth a 1958 rape_aspling map.

1995 *Rosars, Milan.* 7.5 Minute Ouadrangie

Scale: 1.24,000

The subject program and the surrounding area appears similar to the 1901 topograph along

3.4.7 Cley Directories

Exists on the interview wire Mr. Dutz and on the review of historical topographic maps and serial photographs, is coes not appear that the subject property has even been developed. Therefore, a city directory search was not performed for this ESA.

3.5 Regularany Agency Review

3-5-1 Euvironmental Databases Review

During the least 15 years, Potentiand State government agencies have its cloped logislation televing to environmental constant. As a result of this legislation have the requirement of the potential and the manufacturing, gameration, use, storage, missed, such or disposal of such materials have been promoter to 1. As a consequence of these laws and agencial constant agencial collect and disseminate information for the level materials promote information and promote continuents.

To assess the national for soil and groundwater committance, at the subject promity of our confey property, the Hedden't Soila, and local decises that search provided by Environmental Day, Resources, Inc. (FDR) of Known (a potential bazarious waste sites of tendfills and for turn, currently under investigation for a propulational solutions were reviewed. A capy of the HDR search is included in Appendix C. The following datasesses and their respective search radii were included in the TDR search:

Tederal ASTM Records

- National Priority List (NPL) = Ving (g)
- Resource Conservation and Random you during tion System (ISCIES) Treatment, Storage, and Discressi (TSD) - Unite
- Comprehensive Environmental Kerponka, (Comprehensation and Edebillty Edocatation System (CERCTLIS), C.3 mile.
- RCRIS Small Quantity Cerembor (\$0) th = 0.05 in teat
- RCRIS Large Quantity Generator (1 (full) = 0 minutes.
- Entergency Response Notification System (EN NS) Target Applicacy

Federal Non-ASTM Records:

- Delixed NPI. Target Property.
- No Turther Remedial Action Planner (CHRCLA-NERAP) ImportPlankary
- Corrective Acrian Report (CORRACTS) Unit of
- RCRA Administrative Action Teaching System (RAATS) In per Property.
- Clarandous Muterial Information Reporting System (HMTKS) Torget Proxylly.
- DCB Activity Detailese System (PA-15) Impar Property
- Tacility Index System (FBVDX) Target Property
- Toxic Chemics! Release Inventory System (IPRIN) Target Property.
- NPL (Peneral Superford) Liens To ger Proposty
- Towid Substances Control Act (180 A) Torget Emperty.
- Morerial Licensing Tracking System (MT 180) To get Property.
- Records of Declai@r∢3 (11) Émile.
- Superfixed (CERCLA) Lauser (Ducless (CQN § FNT) 1 min

State of Milmasons AS IM Resouds

- Nielo Elezardous Waste Sites (S1FWS) rukin. Superfrom Permanen (Lie) of Priorities (P1.7).
 Lin, ile
- Mode Solid, Waste Twellidies-Lundfill Sflet (SW) / Sinaton: Parimeted SpLd Waste Disposed Face division, 5 miles.
- I ≫k 3 los (EUS t) 0.5 mile.
- Underground Storego Tests File (UST) 6/25 mile.

State of Minneyour Non-ASTM Reports

- Aboving out di Stonago Tank (AST) | 0.125 mile.
- M = us its its tot Sites (MN LS). Target Property.
- Millingota Euflocoment foru. Target Property.
- Minnasota Voluntury Investigation and Clennip Program (VCC) Torqui (respecty)
- Minnesota Spills Torget Property.
- Minnosota Post Londe
- Minnesota Deleted STIWS I mile.
- ▼ Michaesta Landfell Cleanup 0.5 mile.
- Violabsota LIWS Pormits Target Property.

Other Sociality Killian at

Cool Cos - 1 in by

Descriptions of these databases on passents I in Appendix C. The Assent development property, on the west side of VN I fay 10%, knoons, MN was the consequence time EDR search. Recause the subject property has no specific at our oddress. The property of the influence to an inspection. A summore of the influence to and in the EDR is presented below.

the evoluted property was not identified on any of the RDR search dambases.

Notice di des word identified within the ASTM search radius of the subject property.

The sites listed under "Cliphan Standardy" was not mapped due to occur or inadequate nacress information. A new ewind these spead of each tile to they are not located within the ASTM search radius of the subject property and/or they do not subject to past an REC to the subject property.

3.5.2 Regulatory Agency Connect

No equilatory agencies were contacted as ours of this Phase I 75A.

3.6 Findings and Conclusions

In occidentiance with the score and limitations of ASTM Sendard F1597-97 and the Scope of Work presented in Secrior 2.2 in Physical Environmental Site Assessment was concluded at the subject property located within the southwest quadrent of Highway 101. N and Crow River investigation in Regery, Minnesons to evaluate the potential for a Recognizer Environmental Condition to exist an the subject property from consite or off site activities. Conditions are presented by last

3.6.1 On-Site Recognized Environmental Conditions

No Recognized the requiremal Conditions (REC) were found in the associated with contemport between additions on the subject projects based on the available infrareaction. No other potential Recognized Environments, Conditions were identified on the subject projects.

3.6.2 Off Site Recognized Ketchronnenhai Conditions

A visual inspection of other observable of as of the surrounding properties dutino $(t_{ab})_{b\in B}$ and $(t_{ab})_{b\in B}$ by $(t_{ab})_{ab}$ expected $(t_{ab})_{ab}$ Recognized Euclidean model. Concern at the subject property

A review of Federal and State environmental caratrons obtained no properties of personal services the data converse in the surrounding area that converse by expected more and Recognized to vicosmontal Converse the subject property.

If you have any quastions or construct is regarding this report please contact $\eta_{0.90}$ (507) 252-0045.

Respectfully strom to a_x

OMNI ENVIRONMENTAL, INC.

Kylo B. Raverty. Staff Geologist

Number N. Cikas Principal Geologist

4.0 JUITERENCES

ASUNE 1997. American Society for Testing and Atanciola (ASTM). Standard F. 527-97. "Standard Proclee for Registermental Site Assessment." Physical Environmental Site Assessment Process."

Environmental Bota Rosa aces, J.S., "The EDR-Radios Way with Coother 1," July 27, 1998,

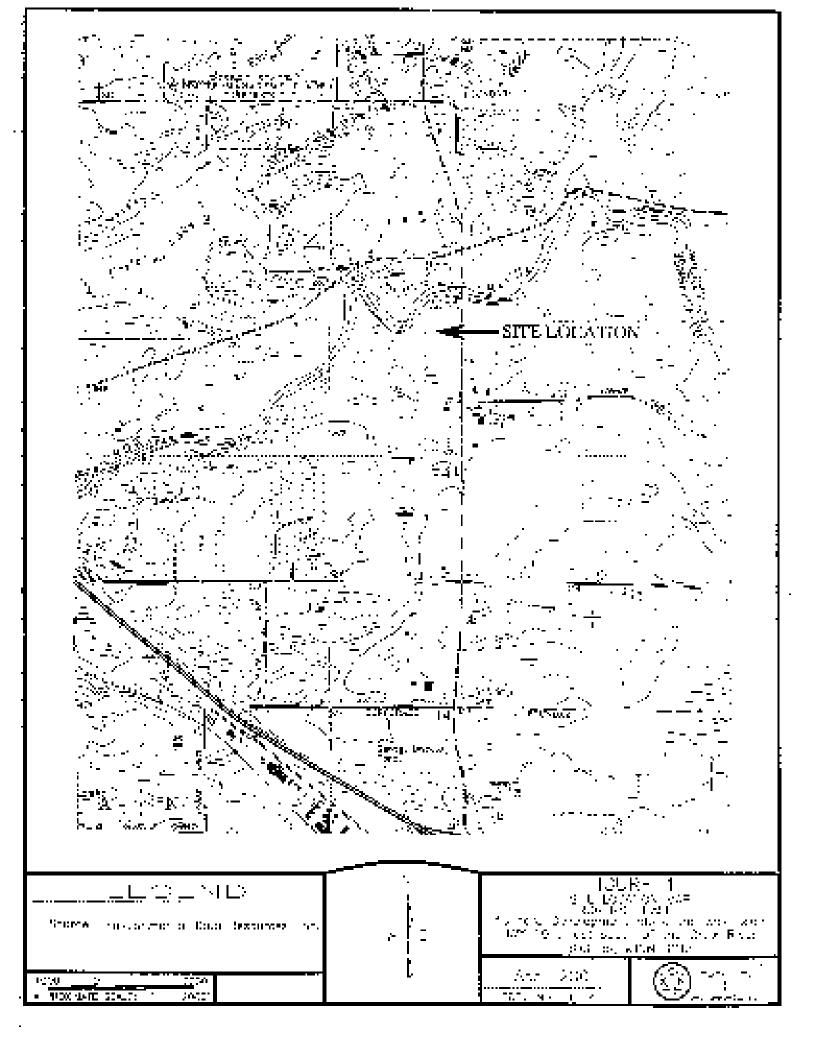
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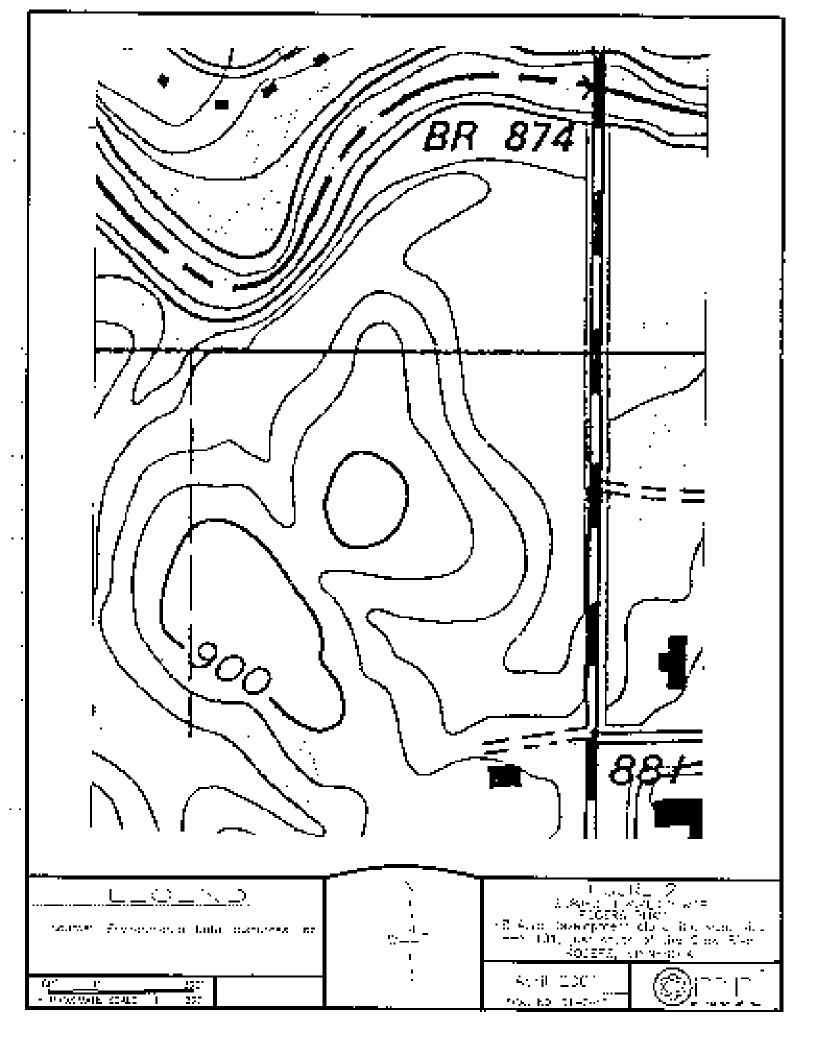
Colo, Babe Juture Property Owner, Saint British (New 1, UC), Parsonal Communication with Nisola. Plorin of Otton Patricemental, Inc., Major 28, 2000.

His erapiu County, Minnesota Geologic Atlas C.4, Minnesom Geological Stesay, University of Villassota, 1989.

In 2002 to County Reviewers Office, phone conversation, 42, 300.

Dethenic County Wolf Tultag, well-tops lize T120N, R25W, Section 11.







M-, Moir unge CD-Dichard Edlis - TV\$2 Буршин, Ангине, Уссан_{с ба}с ТРО Minnespolis, Michesota, 56435

Subject

Phase I Environmental Site Assessment 48 Acre Development Property Located slong the Wost sick of MES (lawy \$00) with red to a Gow River.

Blace st With resem-

1.0 INTRODUCTION

Once By Vironoutist, Inc. (Ontai) is pleased to solver, the following proposal to conduct a Phase ... However, the Assessment (FSA) at the property fourthed along Hwy 503 on the wast side adjagent to and one south of the onew river in Rogers. Minnesons. This proposal is taged (a) and one-find provoked by you in recent phase conversations. It is of a understanding that a legal description and/on placetop of the pione by Yull to secure dependent and commencement of the ESA.

2.0 ACOPK OF WORK

The purpose of the Place I ESA will be to obtain and review information regarding part are present land use proorders and also operations to assess the ose, stroage, generation, manefacture, and disposal of petroleum and agriculture, products and hazardors trace also such wastes to the above relocated property, and evaluate the potential presence of sci. and/or group* waste constraint from son-site and off-sets someone. This sessessment will be accompaished by, and is limited to, a recommissance of the subject property and surrounding properties, and a review of current and results available portment described an asystem, past and current and use which may have been associated with obsesses of concepts an proclass and/or loss above an agreeit wastes.

The progressionope of services by the ESA is included in order the workship information as building in the ASTM Standard Practice for a Phase (I-85A (II-1527-97) and will include the following plantages:

- Boviow of pertmean, readity avoidable documents and maps regarding blood அலிலும் வி.
 wdraphologic conditions:
- If available, review and interpretation of selected historical aeria; phytography of the
 asabject property and vicinity for established your widnings have 50 years, which are
 available shrough BDR, fine and/or other readily available sources.

#17 Bah Cale 360/ch 27 -2001 18.4172

- [7] Svindhole, review and interpretation of historical topographic maps, historical land designings (e.g., Sufficial Fire Insurance) and only directories for the subject people by such violating for indicatenguage in particular size landress for its least the prof. At years that could have involved the imprefability, generation, use, storage, and/or diagonal of peuroleum produces or hazardous castorials/wastes.
- Review of everlable disciplines regarding past and/or current property development provided by the a regard property owns. Presentably useful documents entry include different reports, maps, but thing construction plans, appointable to that their with sublivious and matter of businesses, gentechnical reports, appointifs, institutionally of opens. Prior out to the property and according to the property.
- Performing on of it recommissance is, every of the subject probably and surjoin ring was to make visital observations of extrang conditions and abdivities at the subject property and, in the property vicinity. ¿Outro will, also extraine the insulation, locatings, ceiling and flooding of the bolizings for suspected advectes continuing research and walfs, college shall nation surfaces for suspecied and based paint. No ashestas or less gains samples with the college without without written achieves into proceed. Appropriate photographs of the subject processy will be taken.
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 (Superfund Steet).
 - U.S. EPA, Gümprebensive Environmental Response, Compensation, and I sales nyell Actilist (CPRCC 38)
 - State Priorities List (SPL):
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 - . It let of computed Solid Wago, Landfills, Incidentions, or Transfer stations (SWI.Fr.
 - List of Sites (vin) Representation der two and Storage Tanks (1981).
 - U.S. RPA Sites with Provides Hazardnus Materials Stells (TRNS)
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 - ிகழ்ப்பில் இவீழ்நிலுக்கு எ**ய்கரு இடி** (kobragers) et aan informance regarding உல் உள்ளனர். அந்தாரி ஈடு வரிகஞ்சுக், அரசு குடுக்கு வழிக்குவதுக்கு நடித்து ஒரி

12), 100 Core Marin 27, 2307 Page 3

Prematation of a report summarizing the stope of assessment, information classified, and completions regard no recognized environmental conditions at the subject property.

Unless specified by pathested and additions, budget is surjointed, any additional environmental sampling and studyes including assessment of worlands, seismic butteris, had paint, look in drinking weter, and enruminal interhandal budging conditions are not included in the 500pc. Ashestes and radon surveys are lated to included in our proposed stephaloty of Controlled ashestes, lead-based-point, rates, and PCB remafromers will be a secretal in the report.

Faso I on the results of the Phose I EXA, we will provide recommendations for Additional Accessors.

Indian some surface water, programming our sampling and up years of requested. At this inner, it is not feasible to provide an accuracy definition of the stone and cost for additional investigation.

If recessary.

Mathiaw Cikes, a Station law insurage, all the logical will share as the project mannager and will be presponsible for managing the technical performance of the project. Mr. Gikas has 12 years experience, including performing and managing all reprote of ESAs. Mr. Johl Back, a Project. Engineer, will assist with conduction the Physic USSA. I Mr. Seck has 3 years experience no performing and managing ESAs.

4.0 UMNES OF ALIRICATIONS.

"Comit is without mostly in this arisent continuated consulting and outlinearing firm specializing to animum to contrast managers a consumer and ground where personal underground strength than investigations, properly transfer assessments, regulatory compliance appears, which is mitigation and undustrial waste-water treatment processes. On all transposes the importance of providing high duality products to our climits and tipedy and environment management. The principal of the company has even 10 years to proper distinguished and experimental management responsibilities.

'Ômri is especially well-qualified to assist in this erfort for the following reasons."

- Extensive experiences in Minoreters, lower Wisconsid and Princip.
- Extensive Phase I Invironmental Site Assessment, semedial design and construction away according experience;
- Expellent working relationship with the Minneson Pollution Control Agency (VPCA) and US (Foliabetal Protession Agency; and
- Immediate availability of experienced to description with the skills recided to ensure
 the delivery in a simety manner.

ldr. Bebilome (March 27, 2001) Paga 4

SH SCHROULE

Once is prepared to mobilize for the field investigation includingly upon receipt of your authorization to precedul. We conceipt that the individuality held, investigation ectivities can be completed within one day. The report documenting the results of the Pinde I ESA can be completed by April 10, 2001. Edward [16] you head for this captur, becomes less argent please modify as as sport as possible. Vertal recommendations are report usions can be communicated immediately (1998-completion of the site walk-through, historical research, and government, regulatory research, in your papers.

6.0 ISTDAATKUYEK, PERMA AND CONDITIONS

Optimizations as to complete this supple of work on a line optimization associate accordance with real Fee Schedule. Equipment Charges and Limits of monthly which are alumbed and are included in this proposal. The establish for the law entry of work is \$1,500.

The scope of twork configuration has proposal will be constanted in accordance with Outel Forescondental floor's translate General Committees, a cupy of which is proposed as an alternational for each South one. Once is if you can confidence by a documents, undersals, information, and reports collected or generated curring the project. Once is object of its to profound on place of satisfic polytopisms for profounding the project. Once is object of its to profound on place of satisfic polytopisms of the object of the network of descriptions, with a first small and engineering committing professional services for accordability first south has the current with the standard for professional services for accordability first south cancer south as so made of the islandard to care in the control of the control of the indicated of the control of the control of the indicated of the control of

these been Once is pleasable to propose this probabilistic yes. Should yet 1900 any conscious or a comment please do not be supported to require the proposal groups by signing a copy of this proposal and returning the own office.

Respectfully Submitted,

OMNERNYIRONMENTAL, INC.

Manhew N. Gikus Principal Grehn jet 2-26/2001 AMOUNT FULL SH-9/5 216

MINITED STREET, AND ADDRESS.

И анк

Mr. Bob Odří přemě 27, 2000 jřega S

Door your saceptance of the proposal places sign and report the white copy in Omni. By signing this proposal Bub Core authorizes Corol to begin the Phase I ESA to the property learned along the west side of MN Hwy 101 and south of the Craw Roser (approximately 48 occas), in Rugery, Manuagon.

Signature Signature

Title

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Omni Environmental, Tise. MATTHEW N. GIRAS, PAG. CPG.

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Provides project management for remedial investigations/someosition autom designs at particleurs districtly spill stars and dryld saming tapitages. Manager of Environmental Site Assessments for property transfers and sign investigations. For ideal Court Environmental, Inc., May of 1998.

- A total of fourteen years expecience in the creas of profoundings (gro)ogo and georethrical sampling and renting.
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- Provided field oversight during soil assulution as part of remedication effects following UST removal at carrous sites to the Midwest.

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of Professional Goglopists (AIPS).

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Jeff Beck Omni Environmental, Inc.

Title

Project Physicals

Expertise

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- Perform auxirommental 5 to Arsosphants for properly no island.
- Provider USD actional oversight (to I sampling and cover, department of leaking non-reground storage tank (1998) such in Minnesona, Wigoconsider of Diagos.
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І.піздізьде Proficience

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The EDR Radius Map with GeoCheck*

48 Acre Development Property West adde of MAN 11 my 101 Rogers, MN 55374

Inquiry Number: 614423,38

Ancil 04, 2001

The Source For Environmental Risk Management Data

3590 Post Soad Southpad Connecticus (18490)

Nationwide Gustomer Service

Tracchene: 1-800-052-0050 Pax: 1-800-231-6802 Internet: www.edmet.com

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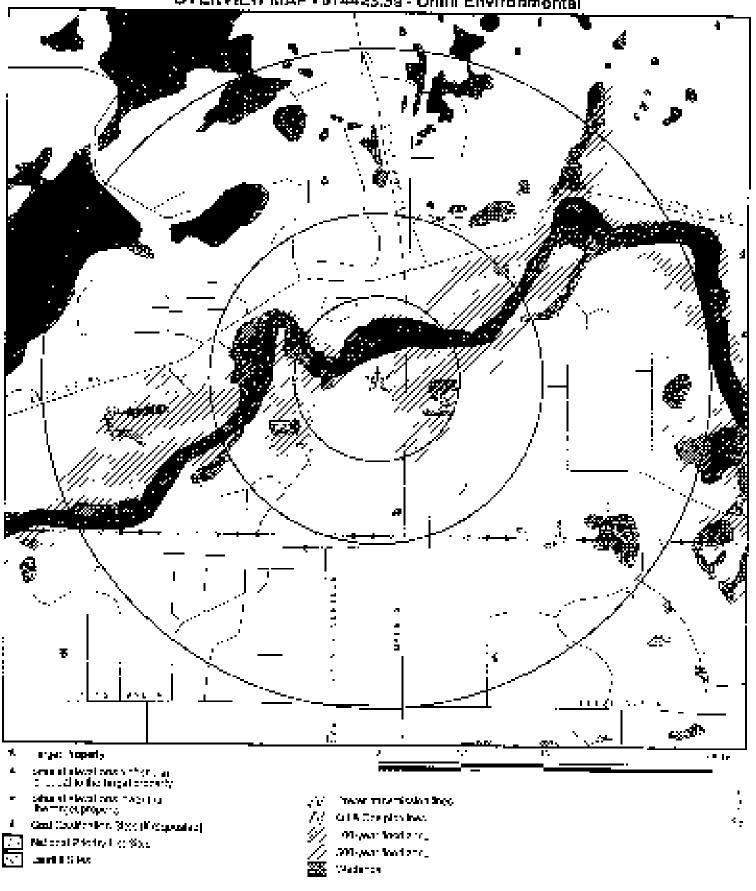
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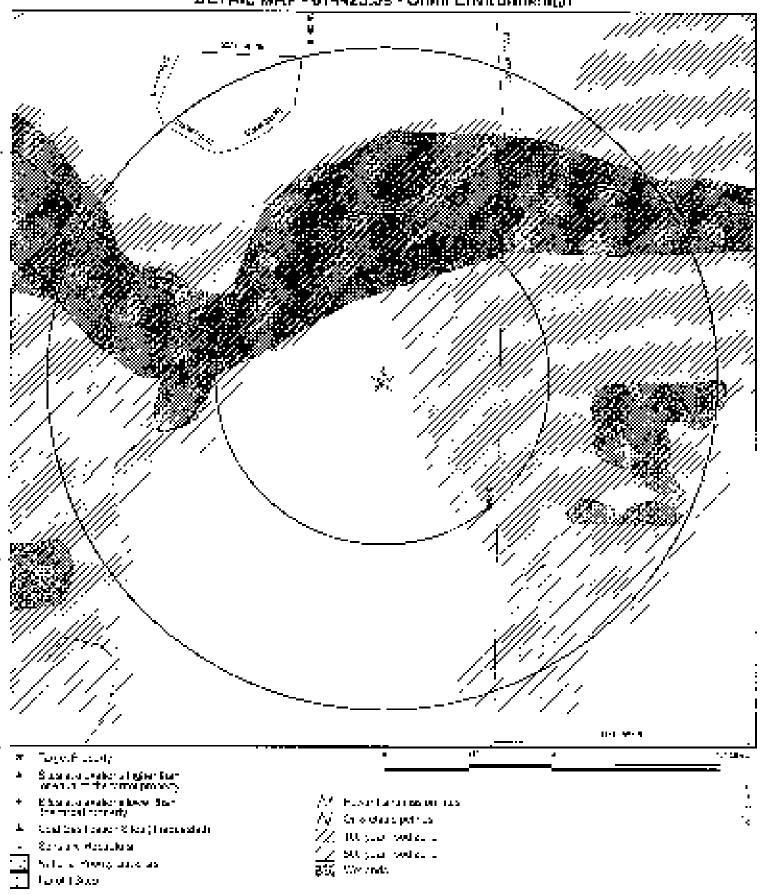
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GEOCHECK* - PHYSICAL SETTING SOURCE SUMMARY

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GEÖCHECK* PHYSICAL SETTING SOURCE SUMMARY

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GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

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WELL SEARCH DISTANCE INFORMATION

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GEOCHECK - PHYSICAL SETTING SOURCE SUMMARY.

PEDADAL FROS PURIOS WATER OUTFLY SYSTEM INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

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GÉÓCHECKÉ: PHYSICAL SETTING SOURCE SUMMARY

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NO?	2041640427	1-2 - 141 • Tag
N98	95042057427	2 - 1 編集 507
90	9/3555/ <u>52</u> 7	72 - 1 50 a 74 574
0193	963 4 - q - 653 1 - q	1/2 × 1 (#4.791)eV
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Wild I	200/204142.7	122 1 Mil east
9: 50	2000 No. 1920	131 1 140 810
2:4:	2006/15419	1.59 × 11 × 10 × 10 × 10 × 10 × 10 × 10 × 1
21: ::	0000555540	.22 - 1 VB1 MHT
7120	0000902959	.25 × 1.5 Mar 6.617
712	2000462847	1.22 × 1.53 (4. K.K.)
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.1 1:	3427424F5A	/2 - 1 ME 79F
V17.1	2027427579	/2 / 1 / 使有 7/2 [
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A 115	2042673676	22 - 1 7mm F4:
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GEOCHECK* - PHYSICAL SETTING SOURCE SUMMARY

STATE CATERARY MELL INFORMATION

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: a	1972748783 (ter 1 & R SA
5 42	89037140404	1-2 1 N to 579
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GEOCHECK* PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL IMPORMATION

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baus Sala	2.41528933 	192 - 1 M M ESE
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6.215	2009 90321	
2215	2004-07107	20 · 1 · 1/2 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·
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ú .22 <u>.</u>	7 /70/9035	D 1 Malees
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GEOCHECKS - PHYSICAL SETTING SOURCE SUMMARY

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4-252	3050 - 76014°	1:5 1 M ki I-W
ON COA	2019760197	Trail 1 M Re Such i
48277	7070520007	1:5 1 M to MT494
41 · · · ķ	2007474412	nee in Milly (ew)
480.7	20275 IDC#13	1/3 in the SNA
5.800 p	302/45 (F2 12	100 m in \$300.
485.6	3027521297	4-7-1 M M 65W
40.993	8637504686	18 - M M 5574
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ለር <u>አ</u> ያ	36727515684	1/2 - M M 55/74
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Photograph #1 - Facing S: Subject property



Photograph #2 - Facing N: Subject Property



Photograph #3 - Facing W: Northeast low-lands.



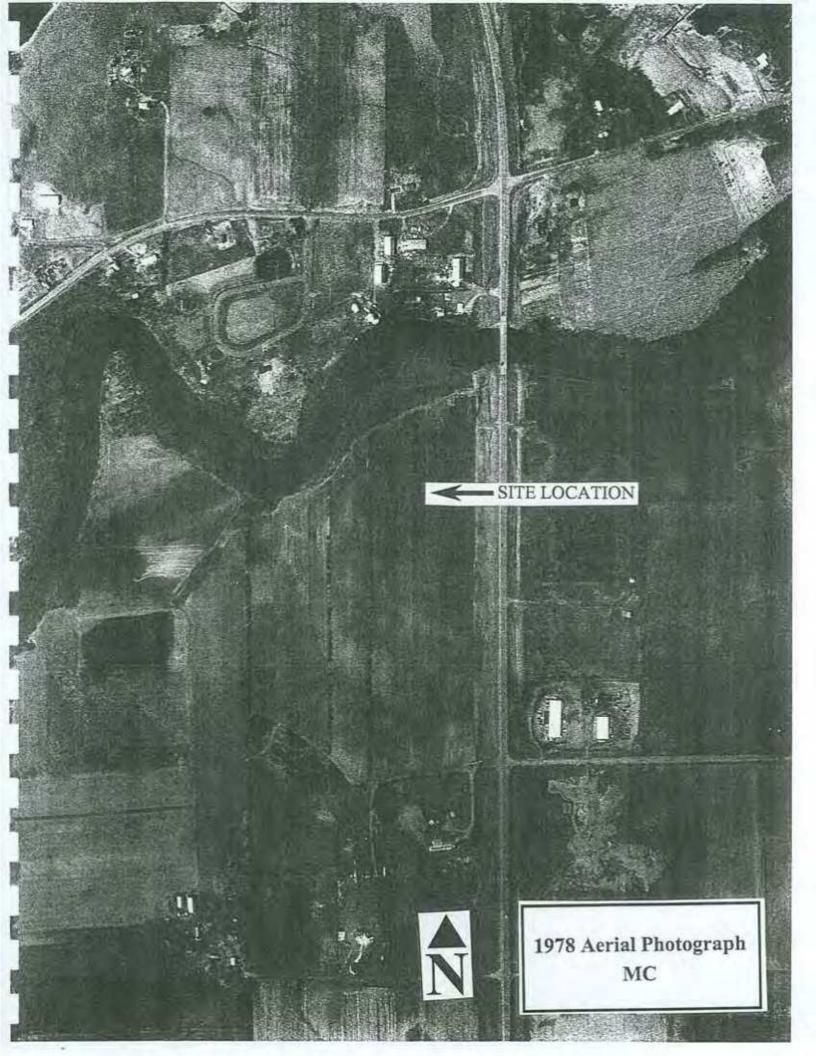
Photograph #4 - Facing E: Subject Property

SITE LOCATION

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1997 Aerial Photograph MC











1945 Aerial Photograph MN DOT

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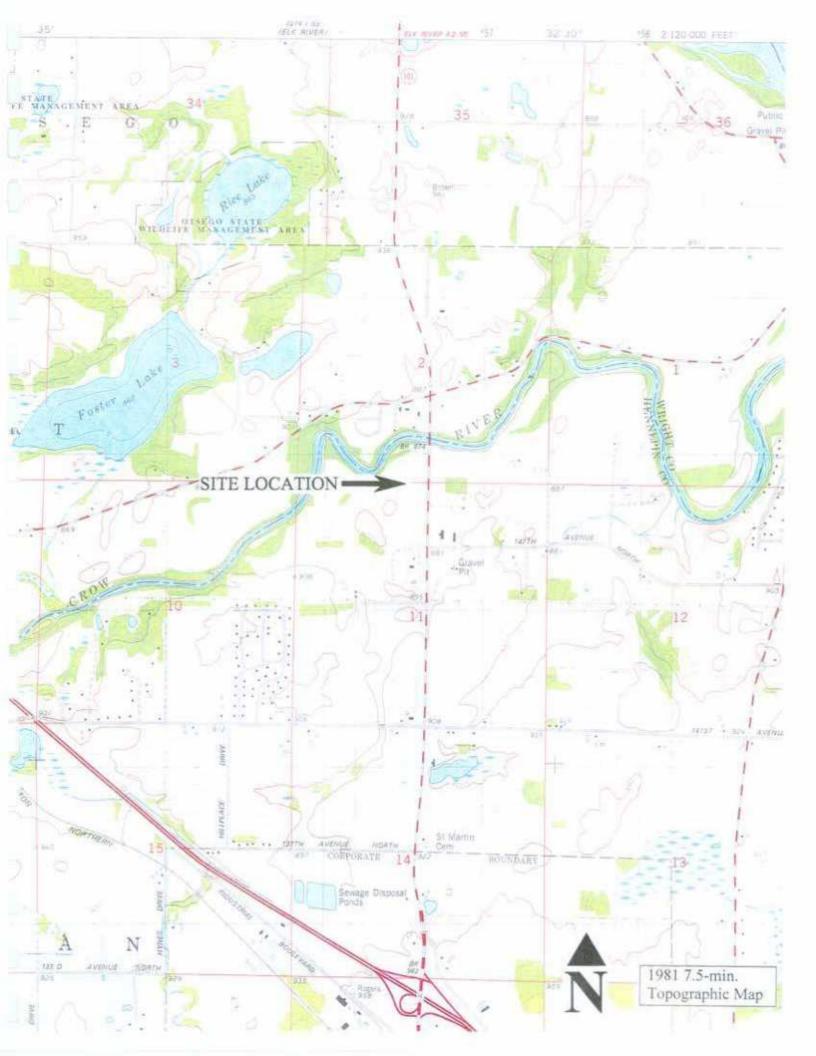
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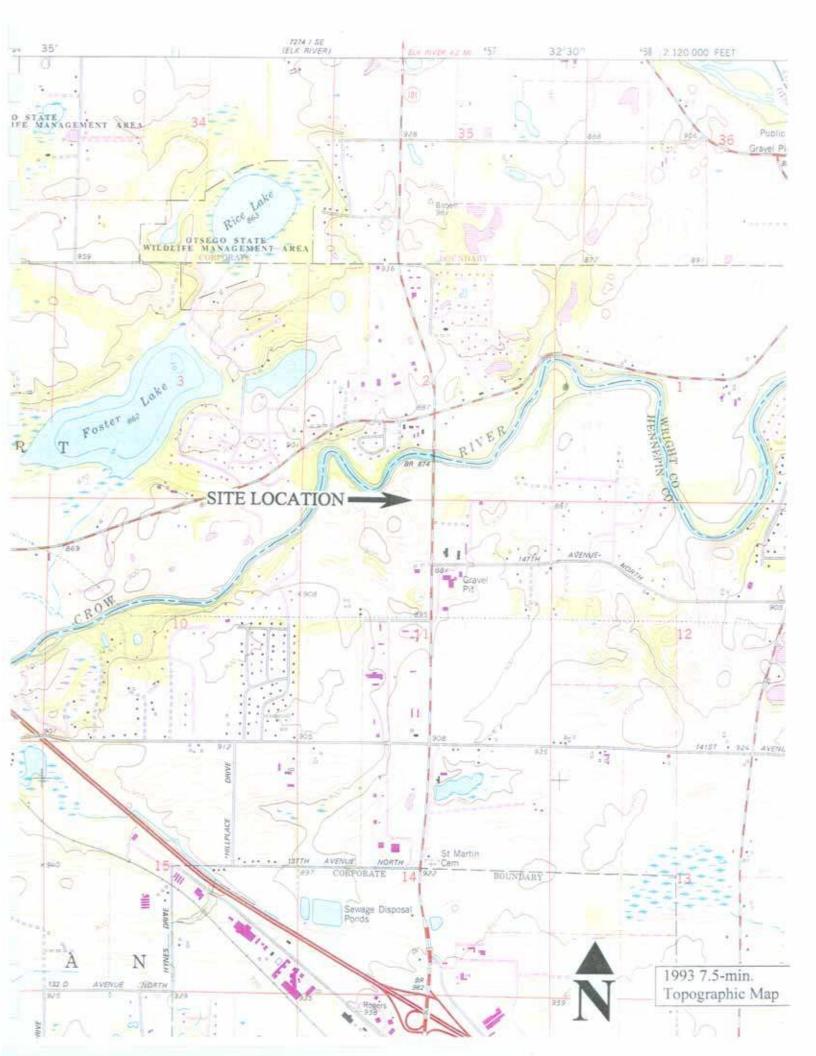
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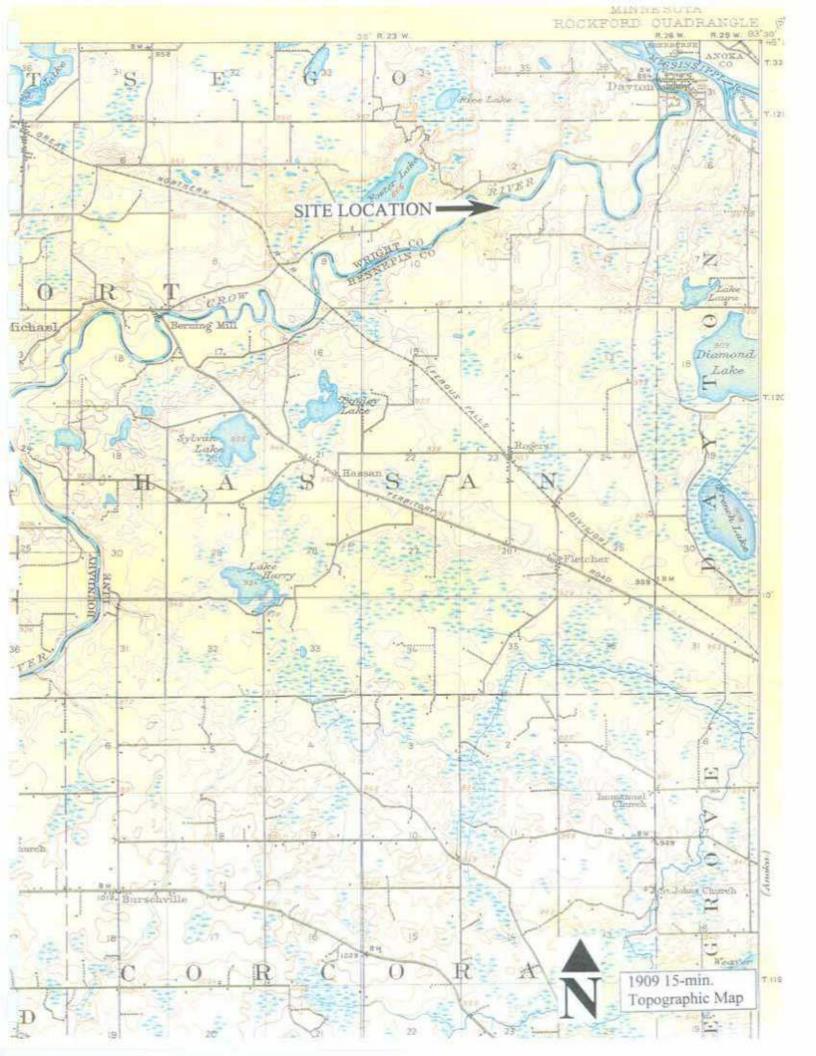


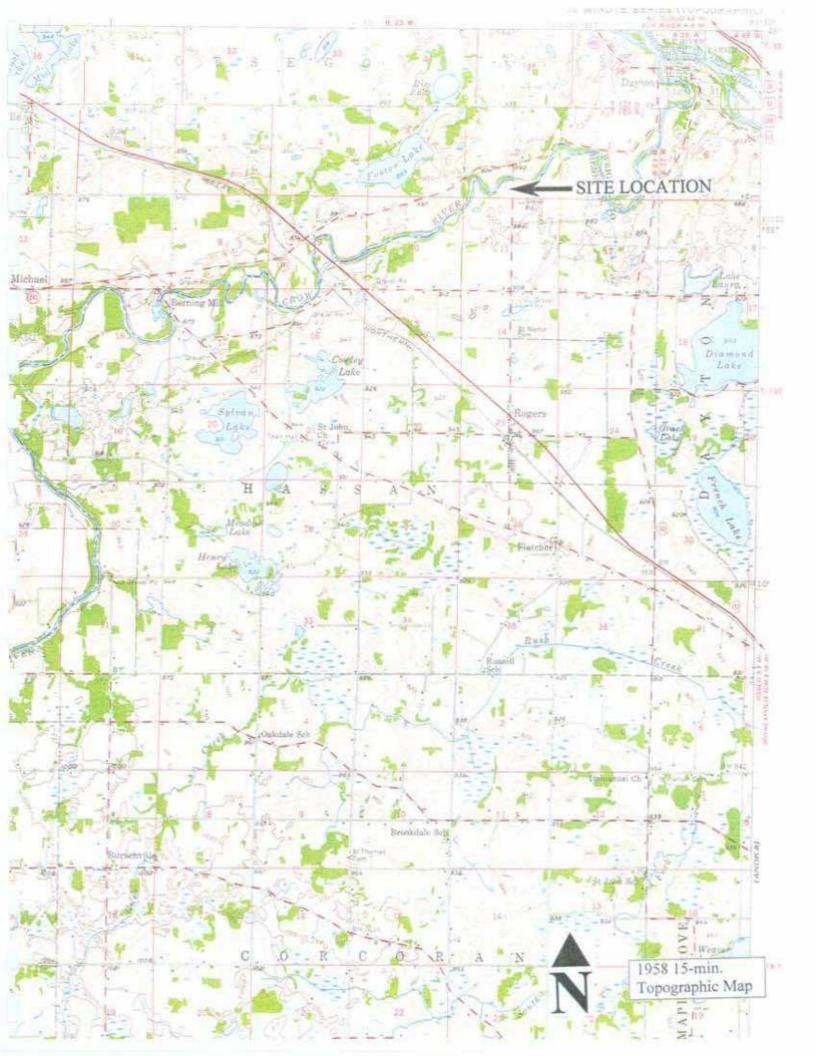
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After Dood Tax Stamp News

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Appendix E





Emissions Summary

Guidance

The total GHG emissions from each source category are provided below. You may also use this summary sheet to fill out the Annual GHG Inventory Summary and Goal Tracking Form (.xls) as this calculator only quantifies one year of emissions at a time.

https://www.epa.gov/climateleadership/target-setting

By entering the data below into the appropriate cell of the Annual GHG Inventory Summary and Goal Tracking Form, you will be able to compare multiple years of data.

If you have multiple Calculator files covering sub-sets of your inventory for a particular reporting period, sum each of the emission categories (e.g. Stationary Combustion) to an organizational total, which then can be entered into the Annual GHG Inventory Summary and Goal Tracking Form.

(A) Enter organization information into the orange cells. Other cells on this sheet will be automatically calculated from the data entered in the sheets in this workbook. Blue cells indicate required emission sources if applicable. Green cells indicate scope 3 emission sources and offsets, which organizations may optionally include in its inventory.

(B) The "Go To Sheet" buttons can be used to	navigate to the data entry sneets.
Organizational Information:	
Organization Name:	Rogers EAW
Organization Address:	
Inventory Reporting Period:	NA
	Start: NA End: NA
Name of Preparer: Phone Number of Preparer:	Sambatek
Date Prepared:	8/14/2023

Summary of	Organization's Emissions:	
	Scope 1 Emissions	
Go To Sheet	Stationary Combustion	1,386 CO ₂ -e (metric tons)
Go To Sheet	Mobile Sources	9,415 CO ₂ -e (metric tons)
Go To Sheet	Refrigeration / AC Equipment Use	0 CO ₂ -e (metric tons)
Go To Sheet	Fire Suppression	0 CO ₂ -e (metric tons)
Go To Sheet	Purchased Gases	0 CO ₂ -e (metric tons)
	Location-Based Scope 2 Emissions	
Go To Sheet	Purchased and Consumed Electricity	4,561 CO ₂ -e (metric tons)
Go To Sheet	Purchased and Consumed Steam	0 CO ₂ -e (metric tons)
	Market-Based Scope 2 Emissions	
Go To Sheet	Purchased and Consumed Electricity	4,561 CO ₂ -e (metric tons)
Go To Sheet	Purchased and Consumed Steam	0 CO ₂ -e (metric tons)
	Total Organization Emissions Total Scope 1 & Location-Based Scope 2	15.361 CO ₂ -e (metric tons)
	Total Scope 1 & Market-Based Scope 2	15,361 CO ₂ -e (metric tons)
Go To Sheet	Reductions	OCC = (matrix town)
Go to Sneet	Offsets	O CO ₂ -e (metric tons)
	Net Scope 1 and 2 Location-Based Emissions	15,361 CO ₂ -e (metric tons)
	Net Scope 1 and 2 Market-Based Emissions	15,361 CO ₂ -e (metric tons)
	Scope 3 Emissions	
Go To Sheet	Employee Business Travel	0 CO ₂ -e (metric tons)
Go To Sheet	Employee Commuting	O CO ₂ -e (metric tons)
Go To Sheet	Upstream Transportation and Distribution	0 CO ₂ -e (metric tons)
Go To Sheet	Waste	3,739 CO ₂ -e (metric tons)
	Required Supplemental Information	
Go To Sheet	Biomass CO ₂ Emissions from Stationary Sources	0 CO ₂ -e (metric tons)
Go To Sheet	Biomass CO ₂ Emissions from Mobile Sources	0 CO ₂ -e (metric tons)
	-	,

Back to Intro

Back to Summary

Heat Content

Help

Scope 1 Emissions from Stationary Combustion Sources

CLIMATE LEADERSHIP

Guidance

- (A) Enter annual data for each combustion unit, facility, or site (by fuel type) in ORANGE cells on Table 1. Example entry is shown in first row (GREEN Italics).
 Select "Fuel Combusted" from drop down box.
- Enter "Quantity Combusted" and choose the appropriate units from the drop down box in the unit column. If it's necessary to convert units, common heat contents can be found on the "Heat Content" sheet and unit conversions on necessary to convert units, common near contents can be found on the Troat content. State and the "Unit Conversion" sheet.

 (B) If fuel is consumed in a facility but stationary fuel consumption data are not available, an estimate should be made for completeness. See the "Items to Note" section of the Help sheet for suggested estimation approaches.

 (C) Biomass CO₂ emissions are not reported in the total emissions, but are reported separately at the bottom of the sheet.

Source	tationary Source Fuel Combustion Source	Source	Fuel	Quantity	Units
ID	Description	Area (sq ft)	Combusted	Quantity Combusted	Units
BLR-012	East Power Plant	12.517	Natural Gas	10,000	MMBtu
	Natural Gas	666,100	Natural Gas	26,089	MMBtu

GHG Emissions

Total Organization-Wide Stationary Source Combustion by Fuel Type

Fuel Type	Quantity Combusted	Units
Anthracite Coal	0	short tons
Bituminous Coal	0	short tons
Sub-bituminous Coal	0	short tons
Lignite Coal	0	short tons
Natural Gas	25,427,875	scf
Distillate Fuel Oil No. 2	0	gallons
Residual Fuel Oil No. 6	0	gallons
Kerosene	0	gallons
Liquefied Petroleum Gases (LPG)	0	gallons
Wood and Wood Residuals	0	short tons
Landfill Gas	0	scf

Total Organization-Wide ${\rm CO_2}$, ${\rm CH_4}$ and ${\rm N_2O}$ Emissions from Stationary Source Fuel Combustion

Fuel Type	CO ₂ (kg)	CH ₄ (g)	N ₂ O (g)
Anthracite Coal	0.0	0.0	0.0
Bituminous Coal	0.0	0.0	0.0
Sub-bituminous Coal	0.0	0.0	0.0
Lignite Coal	0.0	0.0	0.0
Natural Gas	1,384,293.5	26,190.7	2,542.8
Distillate Fuel Oil No. 2	0.0	0.0	0.0
Residual Fuel Oil No. 6	0.0	0.0	0.0
Kerosene	0.0	0.0	0.0
Liquefied Petroleum Gases (LPG)	0.0	0.0	0.0
Total Fossil Fuel Emissions	1,384,293.5	26,190.7	2,542.8
Wood and Wood Residuals	0.0	0.0	0.0
Landfill Gas	0.0	0.0	0.0
Total Non-Fossil Fuel Emissions	0.0	0.0	0.0
Total Emissions for all Fuels	1,384,293.5	26,190.7	2,542.8

Total CO₂ Equivalent Emissions (metric tons) - Stationary Combustion	1,385.7
Total Biomass CO ₂ Equivalent Emissions (metric tons) - Stationary Combustion	0.0

Help

CLIMATE LEADERSHIP

Scope 1 Emissions from Mobile Sources

Guidance

- (A) Enter annual data for each vehicle or group of vehicles (grouped by vehicle type, vehicle year, and fuel type) in ORANGE cells in Table 1. Example entry is shown in first row (GREEN Italics). Only enter vehicles owned or leased by your organization on
 - this sheet. All other vehicle use such as employee commuting or business travel is considered a scope 3 emissions source and should be reported in the corresponding scope 3 sheets.
 - Select "On-Road" or "Non-Road" from drop down box to determine the Vehicle Types available. Must select before picking vehicle type.
 - Select "Vehicle Type" from drop down box (closest type available).
 - Enter "Fuel Usage" in appropriate units (units appear when vehicle type is selected).
 - If mileage or fuel usage is unknown, estimate using approximate fuel economy values (seeReference Table below).
 - Vehicle year and Miles traveled are not necessary for non-road equiment.
- (B) When using biofuels, typically the biofuel (biodiesel or ethanol) is mixed with a petroleum fuel (diesel or gasoline) for use in vehicles. Enter the biodiesel and ethanol percentages of the fuel if known, or leave default values.

Biodiesel Percent:	20	%
Ethanol Percent:	80	%

(C) Biomass CO₂ emissions from biodiesel and ethanol are not reported in the total emissions, but are reported separately at the bottom of the sheet.

Table 1. Mobile Source Fuel Combustion and Miles Travelec							
Source	Source	On-Road or	Vehicle	Vehicle	Fuel	Units	Miles
ID	Description	Non-Road?	Туре	Year	Usage		Traveled
Fleet-012	HQ Fleet	OnRoad	Passenger Cars - Gasoline	2019	500	gal	12,065
Construction equipment (non road		NonRoad	Construction/Mining Equipment - Gasoline (2 stroke)	2007	201,083	gal	0
Passenger cars	Constructin Equipment	OnRoad	Passenger Cars - Gasoline	2007	686	gal	3,726
Construction equipment (non road	Constructin Equipment	NonRoad	Construction/Mining Equipment - Diesel	2007	718,160	gal	0
Medium and Heavy duty trucks	Constructin Equipment	OnRoad	Medium- and Heavy-Duty Vehicles - Diesel	2007	1,437		1,332
Light trucks	Constructin Equipment	OnRoad	Light-Duty Trucks - Gasoline	2007	1,340		1,332
V					·		
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							_

Reference Table: Average Fuel Economy by Vehicle Type	
Vehicle Type	Average Fuel Economy (mpg)
Passenger Cars	24.1
Motorcycles	44.0
Diesel Buses (Diesel Heavy-Duty Vehicles)	7.3
Other 2-axle, 4-Tire Vehicles	17.6
Single unit 2-Axle 6-Tire or More Trucks	7.5
Combination Trucks	6.0

GHG Emissions

Total Organization-Wide Mobile Source Fuel Usage and CC₂ Emissions (On-Road and Off-Road Vehicles)						
Fuel Type	Fuel Usage	Units	CO ₂ (kg)			
Motor Gasoline	203,109	gallons	1,783,297.0			
Diesel Fuel	719,597	gallons	7,347,085.4			
Residual Fuel Oil	(gallons	0.0			
Aviation Gasoline	(gallons	0.0			
Kerosene-Type Jet Fuel	(gallons	0.0			
Liquefied Petroleum Gas (LPG)		gallons	0.0			
Ethanol		gallons	0.0			
Biodiesel		gallons	0.0			
Liquefied Natural Gas (LNG)		gallons	0.0			
Compressed Natural Gas (CNG)		scf	0.0			

Note: emissions here are only for the g Note: emissions here are only for the d

Total Organization-Wide On-Road Gasoline Mobile Source Mileage and CF₄/N₂O Emissions

otal Organization-Wide On-Road Gasoline Mobile	Vehicle Year		CH₄(g)	N ₂ O (g)
Vehicle Type Passenger Cars - Gasoline	1984-93	Mileage (miles)		N ₂ O (g)
accorde cars - cascille	1994	0		
	1995	0		
	1996	0		
	1997	0		
	1998	0		
	1999	0		
	2000	0		
	2001	0		
	2002	0		
	2003	0		
	2004	0		
	2005	0		
	2006	0		
	2007	3,726		
	2008	0		
	2009	0		
	2010	0		
	2011 2012	0		
	2012	0		
	2013	0		
	2015	0		
	2016	0		
	2016	0		
	2017	0		
	2019	0		
ht-Duty Trucks - Gasoline	1987-93	0		
ins, Pickup Trucks, SUVs)	1994			
,	1995			
	1996			
	1997			
	1998			
	1999			
	2000			
	2001			
	2002			
	2003			
	2004			
	2005	0	0.0	
	2006	0	0.0	
	2007	1,332	13.7	
	2008			
	2009	0		
	2010			
	2011			
	2012			
	2013			
	2014			
	2015			
	2016			
	2017			
	2018			
	2019			
avy-Duty Vehicles - Gasoline	1985-86			
	1987		0 0.0 0 0.0 1,332 13.7 0 0.0	
	1988-1989			
	1990-1995			
	1996	0		
	1997	0		
	1998	0		
	1999	0		
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	2001	0		
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	2010	0		
	2012	0		
	2012	0		
	2013	0		
	2014	0		
	2016	0		
	2017	0		
	2018	0		
	2019	0		
torcycles - Gasoline	1960-1995	0		

 $Total \ Organization \hbox{-Wide On-Road Non-Gasoline Mobile Source Mileage and CI_4/N_2O Emissions}$

Vehicle Type	Fuel Type	Vehicle Year	Mileage (miles)	CH₄(g)	N ₂ O (g)
		1960-1982	0	0	0
Passenger Cars - Diesel	Diesel	1983-2006	0	0	0
		2007-2019	0	0	0

		1960-1982	0		0
Light-Duty Trucks - Diesel	Diesel	1983-2006	0	0	0
		2007-2019	0	0	0
Medium- and Heavy-Duty Vehicles -	Diosal	1960-2006	0	0	0
iviedidin- and neavy-Duty venicles -	DIESEI	2007-2019	1,332	13	57
	Methanol		0	0.0	0.0
	Ethanol		0	0.0	0.0
Light-Duty Cars	CNG		0	0.0	0.0
	LPG		0	0.0	0.0
	Biodiesel		0	0.0	0.0
	Ethanol		0	0.0	0.0
	CNG		0	0.0	0.0
Light-Duty Trucks	LPG		0	0.0	0.0
	LNG		0	0.0	0.0
	Biodiesel		0	0.0	0.0
	CNG		0	0.0	0.0
Medium-Duty Trucks	LPG		0	0.0	0.0
Medium-Duty Trucks	LNG		0	0.0	0.0
	Biodiesel		0	0.0	0.0
	Methanol		0	0.0	0.0
	Ethanol		0	0.0	0.0
Heavy-Duty Trucks	CNG		0	0.0	0.0
Heavy-Duty Trucks	LPG		0	0.0	0.0
	LNG		0	0.0	0.0
	Biodiesel		0	0.0	0.0
	Methanol		0	0.0	0.0
	Ethanol		0	0.0	0.0
Buses	CNG		0	0.0	0.0
Duses	LPG		0	0.0	0.0
	LNG		0	0.0	0.0
	Biodiesel		0	0.0	0.0

Total Organization-Wide Non-Road Mobile Source Fuel Usage and $\text{CH}_4/\text{N}_2\text{O}$ Emissions

Vehicle Type	Fuel Type	Fuel Usage (gallons)	CH ₄ (g)	N ₂ O (g)
Ships and Boats	Residual Fuel Oil	-	-	-
	Gasoline (2 stroke)	-	-	-
	Gasoline (4 stroke)	-	-	-
	Diesel	-	-	-
Locomotives	Diesel	-	-	-
Aircraft	Jet Fuel	-	-	-
	Aviation Gasoline	-	-	-
Agricultural Equipment	Gasoline (2 stroke)	-	-	-
	Gasoline (4 stroke)	-	-	-
	Diesel	-	-	-
	LPG	-	-	-
Agricultural Offroad Trucks	Gasoline	-	-	-
	Diesel	-	-	-
Construction/Mining Equipment	Gasoline (2 stroke)	201,083	2,435,115	68,368
	Gasoline (4 stroke)	-	-	-
	Diesel	718,160	675,070	624,799
	LPG	-	-	-
	Gasoline	-	-	-
Construction/Mining Offroad Trucks	Diesel	-	-	-
Lawn and Garden Equipment	Gasoline (2 stroke)	-	-	-
	Gasoline (4 stroke)	-	-	-
	Diesel	-	-	-
	LPG	-	-	-
Airport Equipment	Gasoline	-	-	-
	Diesel	-	-	-
	LPG	-	-	-
Industrial/Commercial Equipment	Gasoline (2 stroke)	-	-	-
	Gasoline (4 stroke)	-	-	-
	Diesel	-	-	-
	LPG	-	-	-
Logging Equipment	Gasoline (2 stroke)	-	-	-
	Gasoline (4 stroke)	-	-	-
	Diesel	-	-	-
Railroad Equipment	Gasoline	-	-	_
	Diesel	-	-	-
	LPG	-	-	-
Recreational Equipment	Gasoline (2 stroke)	-	-	-
	Gasoline (4 stroke)	-	-	_
	Diesel	-	-	-
	LPG		-	_

Total CO ₂ Equivalent Emissions (metric tons) - Mobile Sources	9,414.7
Total Biomass CO ₂ Equivalent Emissions (metric tons) - Mobile Sources	0.0

Notes:

^{1.} Average mpg values from the U.S. Department of Transportation, Federal Highway Administration, Highway Statistics 2019 (December 2021), Table VM-1.

Help - Market-Based Method

Scope 2 Emissions from Purchase of Electricity

CLIMATE LEADERSHIP

The Indirect Emissions from Purchased Electricity Guidance document provides guidance for quantifying two scope 2 emissions totals, usi a location-based method and a market-based method. The organization should quantify and report both totals in its GHG inventory. To location-based method considers average emission factors for the electricity grids that provide electricity. The market-based method considers average emission factors for the electricity grids that provide electricity. The market-based method considers contractual arrangements under which the organization procures electricity from specific sources, such as renewable energy.

- (A) Enter total annual electricity purchased in kWh and each eGRID subregion for each facility or site in ORANGE cells **3able 1**.
 (B) If electricity consumption data are not available for a facility, an estimate should be made for completeness.
 See the "Items to Note" section of the Help sheet for suggested estimation approaches.
 (C) Select "eGRID subregion" from drop box and enter "Electricity Purchased."

 Use map (Figure 1) at bottom of sheet to determine appropriate eGRID subregion. If subregion cannot be determined fror the map, find the correct subregion by entering the location's zip code into EPA's Power Profiler:
 https://www.ena.org/aridionyes.crefile.tt/!

 https://www.epa.gov/egrid/power-profiler#/
- (D) See the market-based emission factor hierarchy on the market-based method Help sheet. If any of the first four types of emission factors are applicable, enter the factors in the yellow cells marked as "<enter factor>". If not, leave the yellow cells as is, and eGRID subregion factors will be used for market-based emissions.

 Example entry is shown in first row(GREEN tlatics) for a facility that purchases RECs for 100% of its consumption, and therefore has a market-based emission factor of 0.

Help - Market-Based Method

Tips: Enter electricity usage by location and then look up the eGRID subregion for each location

	purchase renewable nle in the market-bas		ess than 100% of your site's electricity, sheet.	see the	Market-Based Use these cells to enter applicable market-based emission factors				Location-Based				
Table 1. Total Amount of Electricity Purchased by eGRID Subregion			Emission Factors			Emissions			Emissions				
Source	Source	Source	eGRID Subregion	Electricity	CO ₂	CH₄	N ₂ O	CO ₂	CO ₂ CH ₄ N ₂ O		CO ₂	CH₄	N ₂ O
ID	Description	Area (sq ft)	where electricity is consumed	Purchased	Emissions	Emissions	Emissions	Emissions	Emissions	Emissions	Emissions	Emissions	Emissions
				(kWh)	(lb/MWh)	(lb/MWh)	(lb/MWh)	(lb)	(lb)	(lb)	(lb)	(lb)	(lb)
Bldg-012	East Power Plant	12,517	HIMS (HICC Miscellaneous)	200,000	0	0	0	0.0	0.0	0.0	228,640.0	22.0	3.4
		666,100	MROW (MRO West)	10,191,330	<enter factor=""></enter>	<enter factor=""></enter>	<enter factor=""></enter>	9,982,407.7	1,059.9	152.9	9,982,407.7	1,059.9	152.9
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Total Emiss	ions for All Sources			10,191,330				9,982,407.7	1,059.9	152.9	9,982,407.7	1,059.9	152.9

GHG Emissions

CO ₂ Equivalent Emissions (metric tons)	
Location-Based Electricity Emissions	4,560.7
Market-Based Electricity Emissions	4,560.7

Indice. In CO2, CH₄ and N₂O emissions are estimated using methodology provided in EPA's Center for Corporate Climate Leadership Greenhouse Gas Inventory Guidance
Indirect Emissions from Purchased Electricity (January 2016).

Figure 1. EPA eGRID2020, April 2022



Back to Summary

CLIMATE LEADERSHIP

Help

Scope 3 Emissions from Waste

Guidance

- (A) Enter annual waste data in ORANGE cells. Example entry is shown in first row (GREEN Italics).

 (B) First, choose the appropriate material then the disposal method from the drop down options. For the average-data method, use one of the mixed material types, such as mixed MSW. If the exact waste material is not available, consider an appropriate proxy. For example, dimensional lumber can be used as a proxy for wood furniture.

 (C) Choose an appropriate disposal method. Note that not all disposal methods are available for all materials. If there is a #NA or # Value error in the emissions column, you must pick a new material type or appropriate disposal method.

Table 1. Waste Disposal Weight by Waste Material and Disposal Method (CO₂, CH₄ and N₂O)

Source ID	Source Description	Waste Material	Disposal Method	Weight	Unit	CO ₂ e Emissions (kg)
Bldg-012 Nonresidential buildings Nonresidential buildings	East Power Plant Finished Goods	Copper Wire Mixed MSW municipal solid waste Mixed Recyclables	Landfilled	1,000	metric ton metric ton metric ton	22,040 2,809,990 929,019
Nonresidential buildings	Nonresidental waste Nonresidential recycling	Mixed MSW municipal solid waste	Combusted Recycled	5,930	metric ton	2,809,990
Nonresidential buildings	Nonresidential recycling	Mixed Recyclables	Recycled	9,367	metric ton	929,019
· ·	•					

GHG Emissions

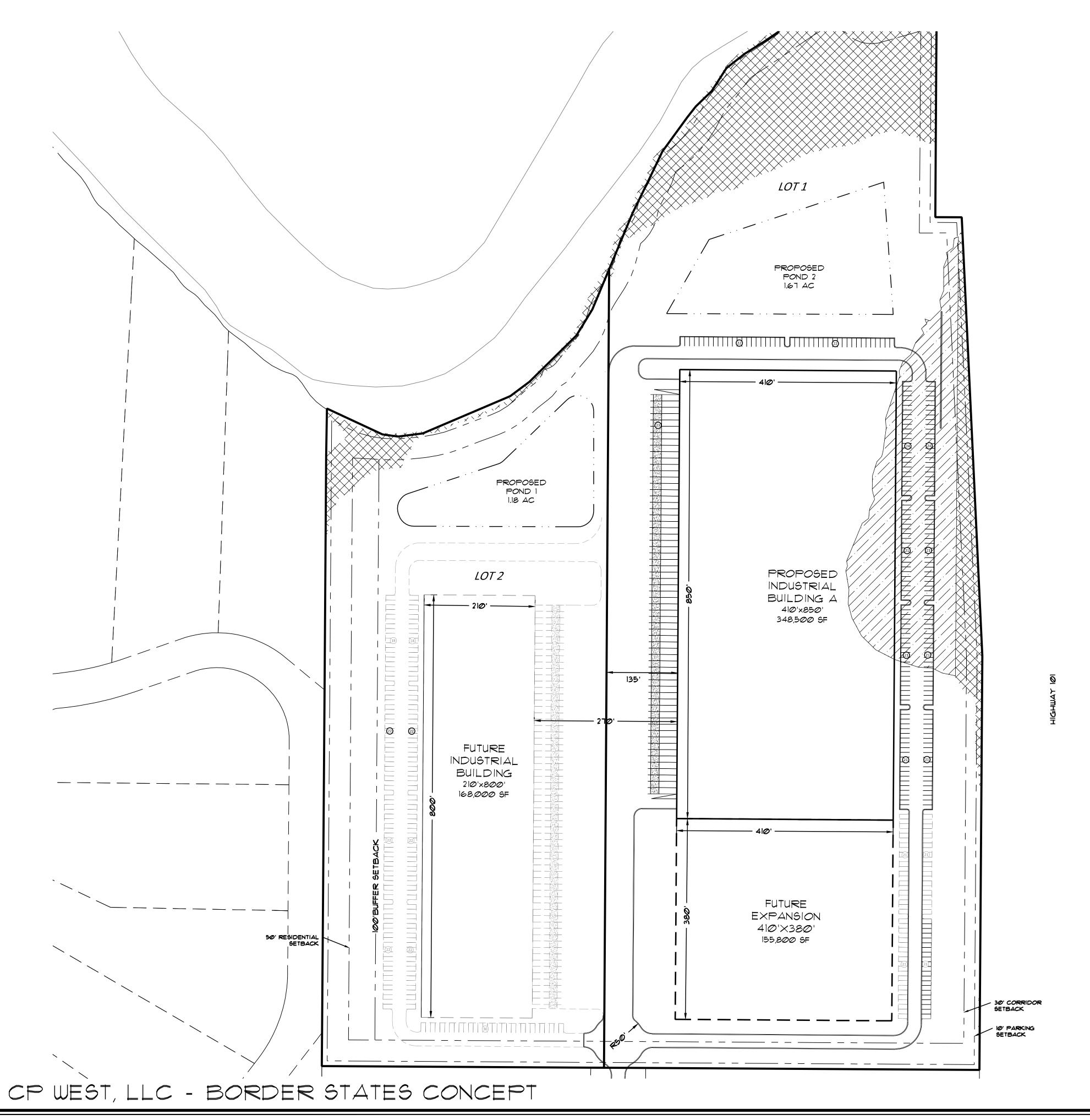
Total Emissions by Disposal Method

Waste Material	CO ₂ e (kg)
Recycled	929,019
Landfilled	-
Combusted	2,809,990
Composted	-
Anaerobically Digested (Dry Digestate with Curing)	-
Anaerobically Digested (Wet Digestate with Curing)	-

Total CO₂ Equivalent Emissions (metric tons) - Waste

3,739.0

Appendix F



BOUNDARY LINE

WL WL WETLAND

STORMWATER POND

FEMA FLOOD ZONE

100 YEAR FLOOD PLAIN

MPACTED 100 YEAR FLOOD PLAIN

AREAS
LOT 1
29.81 AC
LOT 2
115.51 AC
GROSS LOT
45.38 AC
FLOOD PLAIN
NET DEVELOPABLE
38.91 AC

IMPERVIOUS (MAX 15%)
BUILDINGS
(34.0%)
612,311 SF

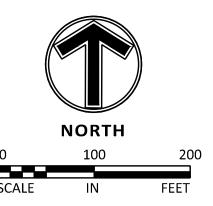
BUILDING COVERAGE LOT 1
BUILDING COVERAGE LOT 2
(24.8%) 3.86 AC

PARKING RATIOS INDUSTRIAL PARKING: I PER 2000 SF OFFICE: I PER 200 SF 85/15 FOR EACH BUILDING

STORMWATER PONDING

PARKING SUMMARYBUILDING AREAREQUIREDPROVIDEDPROPOSED BUILDING A348,500 SF411 STALLS218 STALLSBUILDING EXPANSION155,800 SF180 STALLS184 STALLSFUTURE BUILDING168,000 SF198 STALLS198 STALLS

(18.8%) 2.85 AC



Appendix G





To: Erik Miller, PE, Principal

Sambatek

From: Matt Pacyna, PE, Principal

Transportation Collaborative & Consultants, LLC

Date: October 17, 2023

Subject: Cote Industrial Development Traffic Study

INTRODUCTION

TC2 completed a traffic study for the proposed Cote Industrial development in the City of Rogers. The site under consideration, shown in Figure 1, is generally bounded by Highway 101 to the east, Raspberry Drive to the west, 147th Avenue to the south, and the Crow River to the north. The main objectives of the study are to quantify current area operations, identify transportation impacts associated with proposed development, and recommend improvements, if necessary, to ensure safe and efficient operations for all users. This study will support the transportation section of the Environmental Assessment Worksheet (EAW) being completed for the development. The following study assumptions, methodology, and findings are offered for consideration.

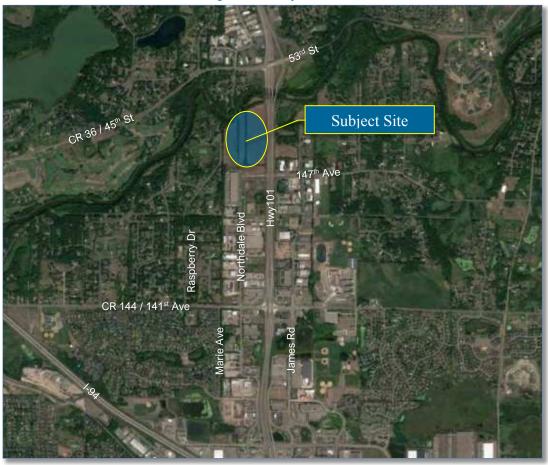


Figure 1 Subject Site

EXISTING CONDITIONS

Existing conditions were reviewed within the study area to establish current traffic conditions to help determine impacts associated with the proposed development. The evaluation of existing conditions included collecting traffic volumes, observing transportation characteristics, and analyzing intersection capacity, which are described in the following sections.

Traffic Volumes

Vehicular intersection turning movement counts were collected at the following locations on Tuesday, September 12, 2023, from 6 a.m. to 7 p.m.

- County Road 144 (141st Avenue) and Raspberry Drive
- County Road 144 (141st Avenue) and Marie Avenue
- County Road 144 (141st Avenue) and Northdale Boulevard

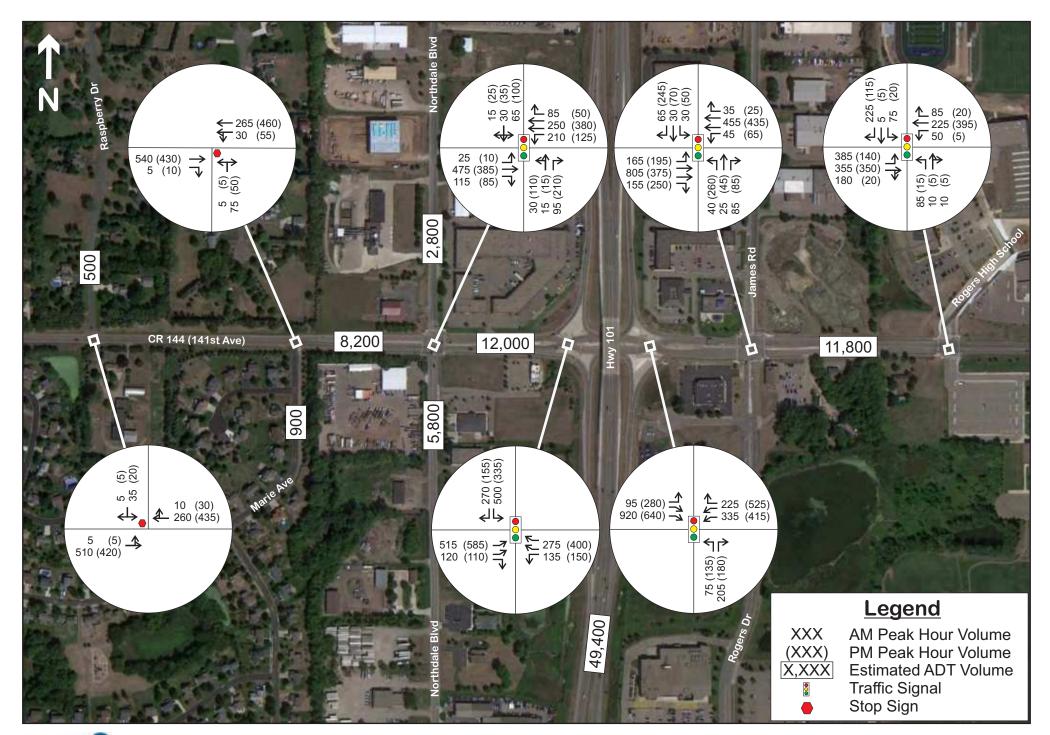
Intersection turning movement counts collected in October 2022 along County Road 144 (141st Avenue) between Northdale Boulevard and Rogers High School were also reviewed. Based on this review, the traffic volumes and patterns from October 2022 and September 2023 are generally consistent, with the September 2023 a.m. and p.m. peak hour volumes approximately five (5) to 15% higher. Therefore, the October 2022 volumes were modified to reflect 2023 conditions. Note that the a.m. and p.m. peak hours within the study area represent 7 to 8 a.m. and 4:30 to 5:30 p.m., respectively. Historical average daily traffic volumes were provided by MnDOT and/or estimated based on the data collected.

Transportation Characteristics

Observations were conducted within the study area to identify various transportation characteristics such as roadway geometry, traffic controls, speed limits, and multimodal facilities. A general overview of key roadways within the study area is as follows:

- CR 144 (141st Avenue) generally a 2-lane roadway west of Marie Avenue and east of the Rogers High School / Middle School access; the roadway expands to a 4-lane section between Northdale Boulevard and James Road/Rogers Drive. A multi-use trail is on the south side of the roadway, which connects Hassan Elementary and Rogers Middle School; there is also a multi-use trail on the north side of the roadway between James Road and Rogers High School. The speed limit is 40 mph.
- Northdale Boulevard generally a 2-lane roadway with no turn lanes, except a northbound right-turn lane at CR 144 (141st Avenue). No multimodal facility is present; the speed limit is 40-mph.
- James Road / Rogers Drive generally a 2-lane roadway north of CR 144 (141st Avenue) and a
 4-lane undivided roadway to the south. A multi-use trail is on the west side from CR 144 (141st
 Avenue) to approximately 600' to the north; a multi-use trail is on the east side south of CR 144
 (141st Avenue), with a gap near Broadway Pizza. The speed limit ranges from 35 to 40-mph.

Most study intersections are signalized, except for Raspberry Drive and Marie Avenue, which are both side-street stop controlled. Current signal timing was provided by MnDOT, who operates and maintains the signals long the corridor. Existing geometrics, traffic controls, and volumes within the study area are illustrated in Figure 2.





Intersection Capacity

Intersection capacity was evaluated using Synchro/SimTraffic Software (version 11), which uses methods outlined in the *Highway Capacity Manual, 6th Edition*. The software is used to develop calibrated models that simulate observed traffic operations and identify key metrics such as intersection Level of Service (LOS) and queues. These models incorporate collected traffic, pedestrian, and bicyclist volumes, traffic controls, and driver behavior factors.

Level of Service (LOS) quantifies how an intersection is operating. Intersections are graded from LOS A through LOS F, which corresponds to the average delay per vehicle values shown in Table 2. An overall intersection LOS A though LOS D is generally considered acceptable in the Twin Cities. LOS A indicates the best traffic operation, while LOS F indicates an intersection where demand exceeds capacity.

Level of	Average Delay / Vehicles						
Service	Stop, Yield, and Roundabout Intersections	Signalized Intersections					
Α	< 10 seconds	< 10 seconds					
В	10 to 15 seconds	10 to 20 seconds					
С	15 to 25 seconds	20 to 35 seconds					
D	25 to 35 seconds	35 to 55 seconds					
Е	35 to 50 seconds	55 to 80 seconds					
F > 50 seconds		> 80 seconds					

Table 1 Level of Service Thresholds

For side-street stop-controlled intersections, special emphasis is given to providing an estimate for the level of service of the side-street approach. Traffic operations at an unsignalized intersection with side-street stop control can be described in two ways. First, consideration is given to the overall intersection level of service, which takes into account the total number of vehicles entering the intersection and the capability of the intersection to support the volumes. Second, it is important to consider the delay on the minor approach. Since the mainline does not have to stop, most delay is attributed to the side-street approaches. It is typical of intersections with higher mainline traffic volumes to experience high-levels of delay (i.e., poor levels of service) on the side-street approaches, but an acceptable overall intersection level of service during peak hour conditions.

The existing intersection capacity analysis results, summarized in Table 2, indicate that all study intersections and approaches currently operate at an acceptable LOS D or better during typical weekday a.m. and p.m. peak hours. In addition, existing queues are generally maintained within the current turn lanes provided. However, queues in the eastbound through lane along CR 144 (141st Avenue) at Northdale Boulevard occasionally extend beyond the adjacent left- and right-turn lanes, which limits access for approximately five percent of the peak hours. In addition, queues in the northbound left-turn lane from Rogers Drive to CR 144 (141st Avenue) extend beyond the provided turn lane storage during approximately 20 percent of the p.m. peak hour; this queuing issue is related to the relatively short-turn lane (i.e., 120 feet) and the peak hour traffic volume demand for this movement. No mitigation for these queueing issues is provided to understand how the proposed development will impact these areas. Thus, there are no significant existing operational issues from a capacity perspective within the study area.

rable 2 Existing intersection dapacity								
CD 444 / 444st Avenue Interception	Traffic	Level of Service (Delay)						
CR 144 / 141st Avenue Intersection	Control	AM Peak Hour	PM Peak Hour					
Raspberry Drive	SSS	A / C (17 sec)	A / C (17 sec)					
Marie Avenue	SSS	A / B (14 sec)	A / B (13 sec)					
Northdale Boulevard	Signal	B (13 sec)	B (14 sec)					
Hwy 101 West Ramps	Signal	B (12 sec)	B (13 sec)					
Hwy 101 East Ramps	Signal	B (10 sec)	A (9 sec)					
James Road / Rogers Drive	Signal	B (10 sec)	B (19 sec)					
Rogers High School / Middle School	Signal	B (13 sec)	A (7 sec)					

Table 2 Existing Intersection Capacity

SSS – Side-Street-Stop

PROPOSED DEVELOPMENT

The proposed development, as shown in Figure 3, is generally bounded by Highway 101 to the east, Raspberry Drive to the west, 147th Avenue to the south, and the Crow River to the north. As proposed, the project would include three (3) industrial warehouse buildings totaling approximately 557,000

square feet. One access to the site is planned via Northdale Boulevard, which connects with CR 144 (141st Avenue) and eventually Highway 101. For purposes of this study, construction was assumed to be completed by the end of 2025.



Figure 3 Proposed Site Plan

TRAFFIC FORECASTS

Traffic forecasts were developed for year 2026 no build and build conditions, which represents oneyear after completion without and with the proposed development. The traffic forecasts include general background growth and trip generation from the proposed development. The following information summarizes the traffic forecast development process.

Background Growth

To account for general background growth in the study area, an annual growth rate of one (1) percent was applied to the existing traffic volumes to develop year 2026 background traffic forecasts. This growth rate is consistent with historical ADT volume growth over the past 15-years in the area, as well as future traffic forecasts from *Hennepin County's Transportation: Mobility 2040 Plan*. The year 2026 no build traffic forecasts are illustrated in Figure 4.

Proposed Development Trip Generation

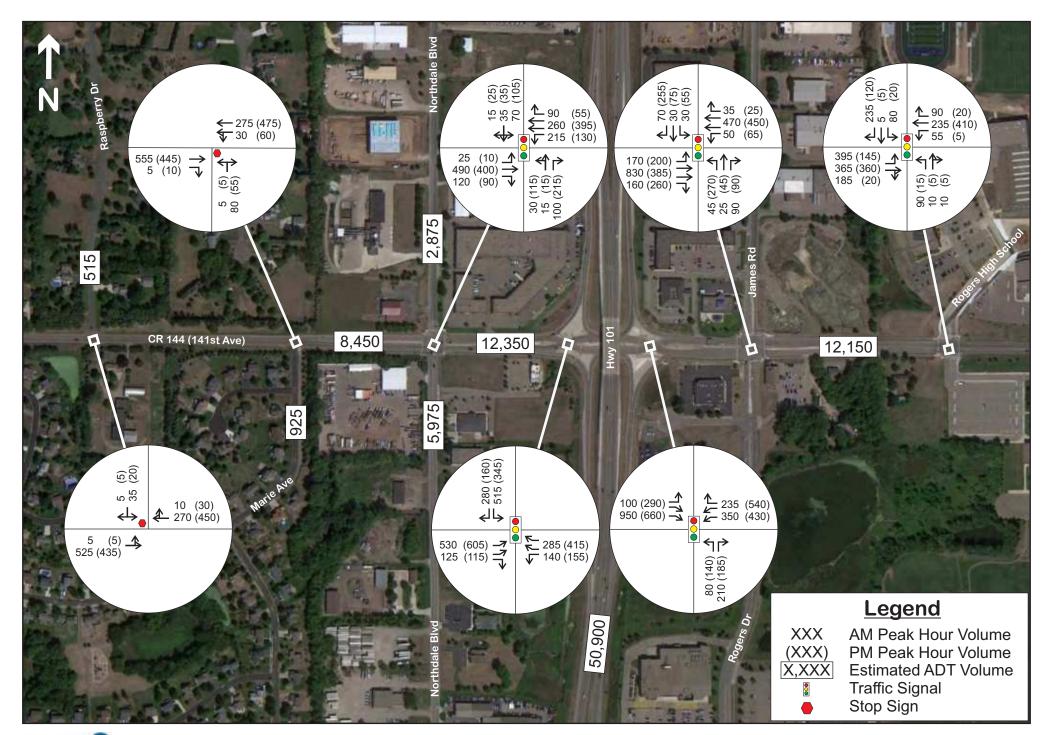
The trip generation estimate for the proposed development was created using the *ITE Trip Generation Manual, 11th Edition* and includes trips for typical weekday a.m. and p.m. peak hours, as well as daily. For purposes of this study and to provide a more conservative assessment, the overall industrial development was assumed to be 85 percent warehouse and 15 percent office; this equates to 473,450 square feet of warehouse and 83,550 square feet of office space. Using this assumption, the proposed development, as shown in Table 3, is estimated to generate 207 a.m. peak hour (174 in/ 33 out), 205 p.m. peak hour (44 in / 161 out), and 1,716 daily trips. No modal reductions were applied to provide a conservative estimate.

Table 3 Trip Generation Summary

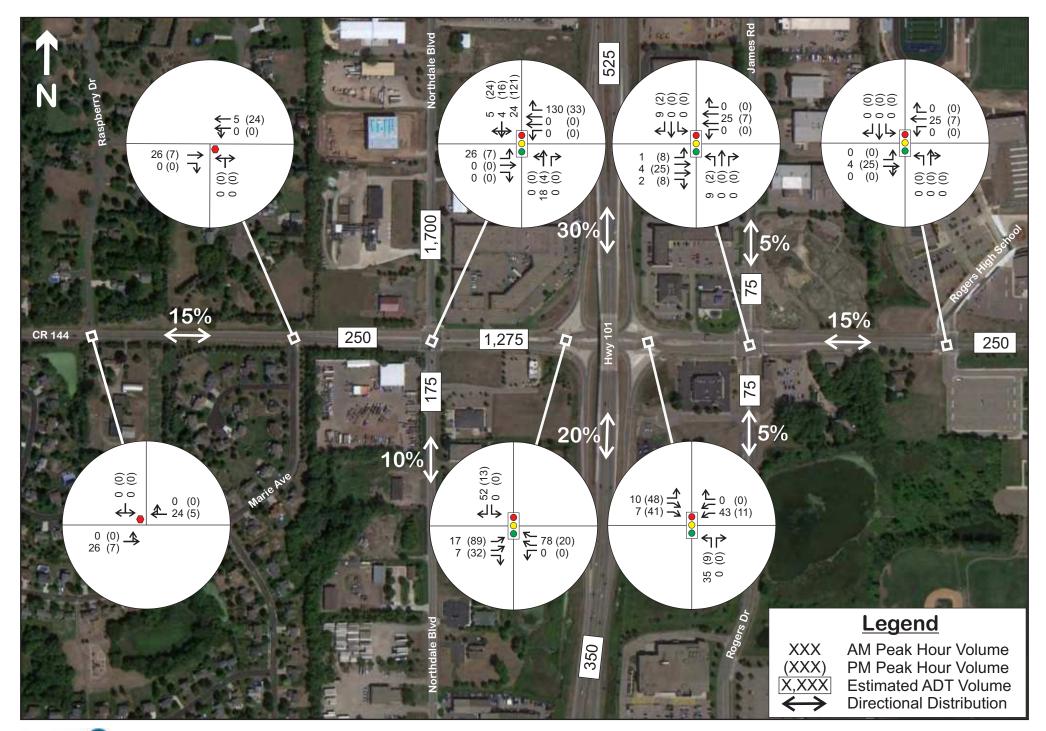
Land Has Type //TE Code)	Size	AM Peak Hour		PM Pea	Deily		
Land Use Type (ITE Code)	Size	In	Out	ln	Out	Daily	
Proposed Development							
Warehouse (150)	473,450 SF	62	18	24	61	810	
General Office (710)	83,550 SF	112	15	20	100	906	
Total (All Vehicles)	557 000 SE	174	33	44	161	1,716	
Total (Trucks)	557,000 SF	8	7	5	5	292	

Note that given the industrial warehouse land use, a proportion of the site trip generation is expected to be heavy commercial vehicles (i.e., trucks). To help determine the number of trucks associated with the proposed development, the *ITE Trip Generation Manual* was again used. Based on this approach, the proposed development is estimated to generate 15 a.m. peak hour, 10 p.m. peak hour, and 292 daily truck trips, which equates to approximately 5 to 15 percent of the overall site generated trips.

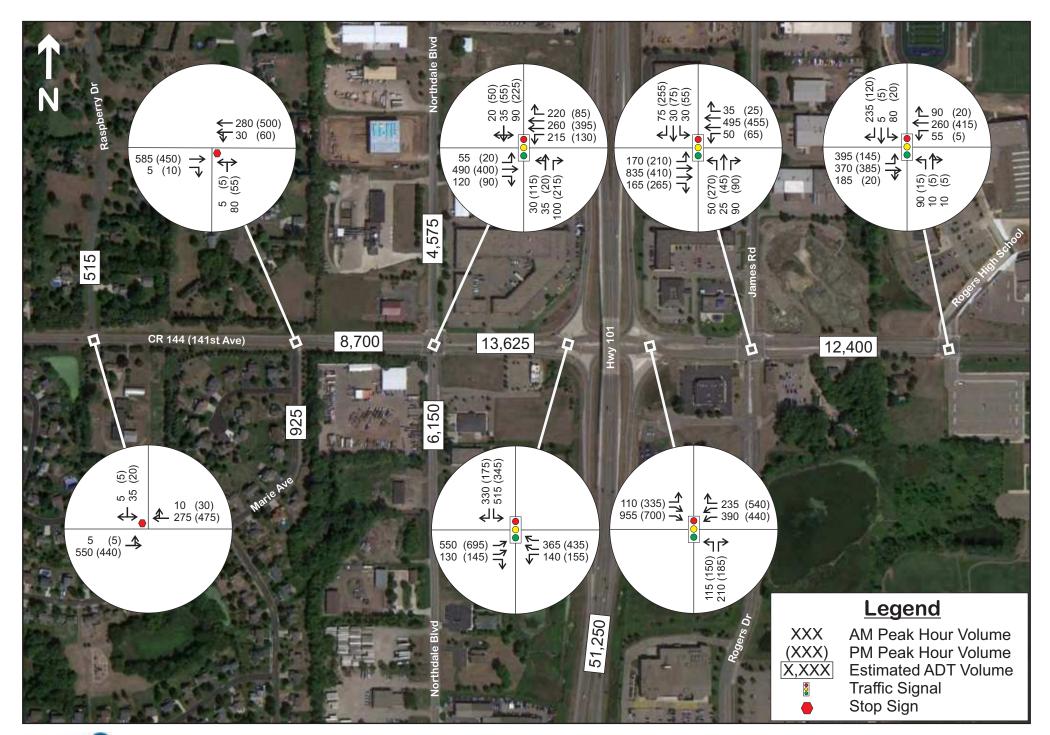
Site generated trips were distributed throughout the study area based on the directional distribution in Figure 5, which is based on a combination of existing area travel patterns and engineering judgment. The resultant year 2026 build condition traffic forecasts are illustrated in Figure 6.













YEAR 2026 CONDITIONS

To understand impacts associated with the proposed development, a year 2026 no build and build condition intersection capacity analysis was conducted. Table 4 provides a summary of the year 2026 no build and build condition capacity analysis and pertinent queuing information.

Table 4 Year 2026 Intersection Capacity Analysis Summary

	Year 2026 Level of Service (Delay - Seconds)							
CR 144 (141st Avenue) Intersection	AM Pea	ak Hour	PM Peak Hour					
	No Build	Build	No Build	Build				
Raspberry Drive	A / C (18 sec)	A / C (18 sec)	A / C (18 sec)	A / C (19 sec)				
Marie Avenue	A / C (15 sec)	A / C (15 sec)	A / B (13 sec)	A / B (13 sec)				
Northdale Boulevard	B (14 sec)	B (16 sec)	B (15 sec)	C (21 sec)				
Hwy 101 West Ramps	B (12 sec)	B (12 sec)	B (14 sec)	B (14 sec)				
Hwy 101 East Ramps	B (10 sec)	B (10 sec)	B (10 sec)	B (10 sec)				
James Road / Rogers Drive	B (10 sec)	B (10 sec)	C (20 sec)	C (21 sec)				
Rogers High School / Middle School	B (14 sec)	B (14 sec)	A (8 sec)	A (8 sec)				
Northdale Boulevard: 95 th Percentile Qu	ueuing							
Southbound	150 feet	180 feet	180 feet	360 feet				
Eastbound Thru Lane	255 feet	270 feet	210 feet	245 feet				
James Avenue / Rogers Drive: 95th Perc	entile Queuing							
Northbound Left-Turn Lane*	70 feet	80 feet	325 feet	385 feet				

^{*} The northbound left-turn lane is approximately 120 feet in length; the taper is an additional 100 feet.

Results of the year 2026 intersection capacity analysis indicate that all study intersections and approaches are expected to continue to operate at an acceptable LOS D or better during typical weekday a.m. and p.m. peak hours under both no build and build conditions. The overall change in operations resulting from the proposed development from an intersection delay perspective is relatively minimal and within acceptable industry standards. Note that the location most impacted by the proposed development will be the CR 144 (141st Avenue) and Northdale Boulevard intersection, with an average increase of two (2) to six (6) seconds of delay per vehicle during the a.m. and p.m. peak hours respectively. Southbound queues along Northdale Boulevard will extend up to approximately 360 feet during the p.m. peak hour, which will impact access to a few driveways in the area.

To limit any queuing impacts along Northdale Boulevard during the p.m. peak hour, the addition of a southbound right-turn lane and optimization of the intersection signal timing should be considered. With these changes, the Northdale Boulevard intersection would operate at an overall LOS B (18 seconds) and the average and 95th percentile queues in the southbound direction would be approximately 160 feet and 260 feet, respectively. At this level of queues, impacts to the North 101 Business Park access would be minimal. Note that any intersection modifications would need to be discussed further with Hennepin County before implementation.

The northbound left-turn lane queuing issue at James Road / Rogers Drive is expected to continue, however the proposed development is not expected to significantly impact this intersection or its operation. Minor signal timing adjustments could help reduce these queues, but given the relatively short-turn lane, they cannot be fully mitigated without additional geometric modifications. Further discussion with Hennepin County should occur to determine if any modifications should be considered for this location given the relatively small impact of the proposed development.

OTHER CONSIDERATIONS

A review of the proposed site plan does not indicate any major issues. Although special care should be taken to locate signage and landscaping to avoid creating any sight distance issues and truck maneuverability should be reviewed to limit potential internal circulation conflicts. There are no multimodal facilities along Northdale Boulevard, but preservation of right-of-way for a future multimodal facility should be considered.

CONCLUSIONS

Based on the findings of the study, the following conclusions are offered for consideration.

- 1) All study intersections and approaches currently operate at an acceptable LOS D or better during typical weekday a.m. and p.m. peak hours; there are a few locations with minor queuing issues although no mitigation was provided to understand impacts of the proposed development.
- 2) The proposed development includes three (3) industrial warehouse buildings totaling approximately 557,000 square feet; construction was assumed to be completed by the end of year 2025.
- 3) Traffic forecasts were developed for year 2026 no build and build conditions, which included a one (1) percent annual background growth rate and traffic generated by the proposed development.
 - a. The overall site is estimated to generate 207 a.m. peak hour (174 in/ 33 out), 205 p.m. peak hour (44 in / 161 out), and 1,716 daily trips; approximately 15 a.m. peak hour, 10 p.m. peak hour, and 292 daily trips will be heavy commercial vehicles (i.e., trucks), which equates to approximately 5 to 15 percent of the overall site generated trips.
- 4) Key takeaways from the future year 2026 capacity analysis, include:
 - a. All study intersections and approaches are expected to continue to operate at an acceptable LOS D or better during typical weekday a.m. and p.m. peak hours under both no build and build conditions; the overall change in operations resulting from the proposed development from an intersection delay perspective is relatively minimal and within acceptable industry standards.
 - b. Southbound queues along Northdale Boulevard will extend up to approximately 360 feet during the p.m. peak hour, which will impact access to a few driveways in the area.
 - c. The northbound left-turn lane queuing issue at James Road / Rogers Drive is expected to continue, however the proposed development is not expected to significantly impact this intersection or its operation.

- Page 12
- 5) To limit any queuing impacts along Northdale Boulevard during the p.m. peak hour, the addition of a southbound right-turn lane and optimization of the intersection signal timing should be considered.
- 6) To reduce the northbound left-turn queuing impacts along Rogers Drive during the p.m. peak hour, minor signal timing adjustments could be implemented, but would not fully mitigate the queues without additional geometric modifications.
- 7) Further discussion with Hennepin County should occur to review the mitigation strategies and determine implementation and if any additional modifications should be considered.
- 8) Special care should be taken to locate signage and landscaping to avoid creating any sight distance issues and truck maneuverability should be reviewed to limit potential internal circulation conflicts; preservation of right-of-way for a future multimodal facility should be considered.



Appendix H



CONSULTABLE

- GROTECHNICAL
- Materials

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- Kyvikimymtytät

REPORT OF PRELIMINARY GEOTECHNICAL EXPLORATION AND REVIEW

Hassan Township Development

147th Average and Highway 101. Hassau Township, Minnesota

AET Job No. 20-01113

Date:

April 16, 2001

Prepared Inte

Robert Cox 6624 Parkward Filing, MN 55496

St Paul, MN Delath, MN Markero, MN Marshell, MN Rochester, MN Bernidge, MN Wassan, WI La Choste, WI



April 16, 2001

Mi Rebes, Cote 6674 Parkwood Rosel Ethia, MN 55456

RE: Proliminary Geolechmical Exploration & Review Hassau Township Development 1471 Avanue and Highway 100 Hassau Township, Minnesona ABT Job No. 20401117

Described, Close-

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Very mility yours.

Nytegory I. Late. Nytegory **a** dia mandra

Prone: (761) 6194(*)94 Fax: (761) 65541879

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PRELIMINARY GEOTECHNICAL EXPLORATION AND REVIEW FOR

HASSAN TOWNSHIP DEVELOPMENT 147^{III} AVENUE AND HIGHWAY 101 HASSAN TOWNSHIP, MINNESOTA

ART JOB NO. 20-01113

SL MMARY

<u>Purpose</u>

A multipurpose description is proposed for construction in the northwest quadrant of 147° Avenue and 15,50% young for the substitute continues at the site and provide preliminary gentechnical engineering accommendations to assist you said the project reads in planning, design, and construction.

Scope

In accomplish the above purpose, you have authorized our firm to drill too standard. Scienation resultations at the six and propare this gratechnical engineering report.

<u>Findings</u>

The lest be rings initicate a generalized soil profile of 1 to 4" of filt and/or repsoil even alluvial (water depositor) soils. Ground water was ancountered in three of the borings at depths of about 11" to 19% below the surface, corresponding to about elevations 62.8 to 55.3 based on our assumed cater.

Regummentlations

These recommendations are confirmed for your convenience. Please study out carbo report for storiled recommendations.

- It should be possible to develop the site for construction of buildings on conventional shallow spread ICCodmices.
- General grading should not note excessing all fill, togethi, and fat clays from helper off
 building areas. In subjection, any soft clayer allowed solls should also be removed from
 below structural areas. This soil correction should include a 1:1 eversize soft surface
 compaction of any togetheresis at roinlastic which are expected.
- New Fill soils placed to resmain congridentiation grades should be ecompatible a minimum of 98% of the Standard Program maximum dry density density (ASTM:D698).

்பு மூர்ந் gripports the floor sub only, outside of the 1:1 oversize wine below footings. மூர்ந்தத் ஒருந்தே minimum compaction level of 95% of the Samana Product density.

Dellowing some objection, the sprend footings can then be designed for an allows stell
beaution pressure of up to 3,000 per. These foundations can be supported on the course
affining sands, newly placed fill, or competent clayer affordal soils.

INTRODUCTION

This report presents the results of a substitute exploration program and gentering and engineering government or proposed Hassan Township Development at the porthogonal granteer, of 147% Averment and Highway 101 in Hassan Township, Managona.

To proport you. American Engineering Testing, (inc. (All I)), and the public, we authorize use of opinions and maximum for this appearing project. Contact to in other 1825 are intended. Even inalphable appear is not line ided to provide sufficient information to accurately determine culminies and freation of posterior materials, we remain end that your potential contractors be advised of the report availability.

Scope of Services

AbT's work on the project was parliamed in accordance with our proposal dated. March 26, 2001. The mitherized scape of services for this project consists of the Ediowing:

- Perform ien sännford pener minn rest hogings to assimum dopdis of 16°.
- Conduct a profiminary geometrical organization, stally six based on the above inflammation.
- Prepore s formal report.

The so qualiform work is introded for gazaganical perpesse only. This scope is not intended to explane for its production of chairs mental companies is not be site to provide approve regarding the sound of its site relative to "welland" definitions.

PROJECT INFORMATION

A multipurpose development is proposed for construction conflued 147° Average and west of Highway 100 in Preson Township. Microsotal The Man furnished to us indicates that about the western list of the site will be used for multiplically bousing or residential effices and the envern conformation after site will the rate office/waychouse buildings.

Archis time, we have very little information regarding the proposed construction. We assume the apprintmentally residential office abtended will be relatively light wood-framed construction. In addition, we assume these tooldings may unlike either slab on grade or basened, construction, with one to two stories above-gone. We estimate bearing wall knots of up to 5 kips per limital floorance column locals of no to 100 kms.

We assume the office wandspine (mildings will be also on grade structures with high overhead strainance. In midition, we assume they will be constructed using either mastery block of precast constructe walks, structural start frages, and metal roof decks. We estimate bearing wall leads of up to 8 kips per lineal foot and column leads of up to 300 kips.

We recommodify addynant havings will be drilled at the site prior to the I design and doubt of the

Foundation Design Assumptions

Our congression design assumptions include a unimpositive strong of safety of 3 with respect to \log_{100} distance of the collection designs. We assume the structure will be able to talente collaboration structure of up to 1° , and delicential scatterings over a 90° distance of up to 1° .

The presental project is formation represents our understanding of the proposal terms maximus mixtures information is an integral part or our engineering review. It is important that you conside us if it considers the proposal form that described so that we can profession whether this goes in our recommendations are appropriate.

SITE CONDITIONS

Surface Observations

The site is located in the porthwest quadrum of 117° Avenue and Highway 10° in Hassa). Township, Minnesota, The Crow River boolers the property on the confluside and Highway 101. is the easierin property limit. The surface elevations at the boding locations ranged from about 74.4 ± 0 oring 41 ± 107.0 at Boding 49

Subsurface Soils/Geology

Logs of the rest parings are included in Appendix A. The logs contain addition to concerning soil layering, soil a assistantion, geologic description, and monitor. Relative density of consistency is also open, which is based on the standard pointiation constants (N-value).

Based on our interpretation of the southble borine information, it is our judgment the generalized தர்ந்தாரும் கணைகள் விடம் 4° of ரிட்டான்ன (cpsui) audiatisis by alterial soits

Topsoil is present near the surtime at each boding location, and surth in I fill soils word encountered at about half of the haring locations. When present, the full typically over its the repsoil layer. The fill and pryshill consist primarily of ally saids, however, some can clays, study kan clays, and sands with air, are also present. Most of these soils were those in the time of sampling, therefore, reliable N values were not obtained within these (typicies.

Frome allowing soils are the prodomineur radorlying soil type. The econselath whom includes said, sand with sile, and silty said. Based on N-values, the one we allowing varies from very loose to dense. The coarse allowed soils coursin varying sommers of gravel; cabbles and handers can also be present within coarse allowed soils.

Maxort altervial samily fear of the indication in the state of the property non-the reason and corresponding in the rate bounds are indicated by the property non-the southern bounds by illustrations also assemble to the property non-the southern bounds by illustrations also assemble in the state of the

The beging lage only indicate the sthree continents at the sampled locations. Variations often carried between bodings .

4

Water Level Measurements

The limited riches were probabilist the account of ground water and water level measurements were taken. The increasurements are recorded to the beining logs. A discussion of the writer level measurement and addising rescaled antic <u>SUBSURFACE EXPLOIDARY TRUN</u> section of this report.

Granch water levels were noted at three boring locations, at depths varying them about 11' to 1935' below existing and grade. Measured water level devalues range from elevation 63.8 to 65.5. The remaining seven benings did not extend flown to these elevations. The water level numericanisms were taken within last training startly soils and should provide a relatively greet indication of the ground water level at that sind and location.

Ground water levels usually fluctuate. Proctizations occur due to varying peasons and yearly assemble will accommend as well as when factors

GEOTECHNICAL CONSIDERATIONS

The following geograficies, considerations are the last a for the moontmentations proceeded lasts: in this coport.

Review of Soil Properties

FBI/Topend

The extering fill and topical are judged to be low to moderate arrength materials, and they are indeed to be percent ally compressible noder activities of into militaing leads. The expectage of these soils are mode are to fost craining and have low frost herve potential. The expectage would be the low to low a lay soils which are slow difficing, in addition to the lean clays are stay soils which are not least moderately frost susceptible.

Course Alluvium

The coarse allowial scale are moderate to high strongth meterials and are not palend to be significantly compressible under arrientered fill and brinding londs. These solis are moderate to take draining. The coarse of twint soils closs that as said on sand with air, are judget to have low thost heave potential, provided they do not become wer. The airry sands are at least needlessed thost appearables.

Fine Mised Allowing

The sine allows and mixed a highliseds are low to moderne strengt) materials. Any time of makes allow at a ayey soils which have an New ne of S bpd or less are judged to be compressable under increased fill northodically caus. The stiffer allowing spins are not judged to be sign through compress ato under the assumed railiting staces. The fine and mixed at myllomate consistered slow straining and are judged to be at least moderately fixed susceptible. The far almys are the progen to should see or swelling size to corresponding thanges in water correct.

PRELEMINARY RECOMMENDATIONS

The following recommendations should be considered proliminary in nature. Once building plans are further established (location grades, and building loads determined), we recommend miditional site exploration and geometrical enalysis be performed.

Building Gradine

Excavation

To propose the site for spread facting brideing construction, we recommend the existing fall, topsoil, lat clays, and any soft fear clay soils be excavated from the building areas. Generally, it will be necessary to excavate the softer dayer soils (N-value of 5 bpt or less) where these soils are within our booting width of the bettern of footing clovesion and grade will be raised. The

resommentieti depths of excavation and the estimated elevation of the calabation bottoms are indicated in the following table:

Briting Maskar	Surfee Liedton	Patenofed Degils of Racpost inn	Escheipfed Eschiffog at - Beitoing St. Escheroffed
-	্ন স	3%1	
<u>-</u>	77.5	<i>2</i> 1	75 <u>1/6</u>
.3.	•	<u>.</u> .	400
_, ¬	102.6	2"	100
ş	50.4	.1	\$4
5	80.8	T	87'A
-	106.4	<u>ā</u> .	134-5
8	107.1	ż	04
9	95. L	i 4	42
:11	851	1	: :

The standy soils exposed in the excavation bodical should be surface compacted with several passes of a large with mony collection with above are based on soil conditions at the busing boations. Since standard is may vary, it is recommended that a generational engineer/technicism altered the first tractors of the fill or flooring placement. Furthermore, provides of the silty sand topsoil may not be significantly organic. If this is the case, mese soils contents below building across following so three compaction.

Where [6] is blaced below the formistions. On contrastion between should be oversized Instally from the planner, musicle edges of the foundations of distance equal to at least 1.1 for each vertical fool of compared fit, required hereaft the foundation around socarion (i.e., 1:1 oversize).

Tilliam

Pull required to strain grade for Dortogs should be unafoundy comparted in thin bits to a michotom of 98% of the Sprinterd Percent maximum thy density (AS, M:10098). Fill placed which supports the floor sixb-only (nurside of the 1:1 oversize area below 6) prings) can have a not need doning the companion level of 98% of the Standard Proctor density.

In should be possible to reasonous most of the an site appropriate soils as fill, eached on the foliation soils, which should not be reased in structural or paverners areas. We caution that compaction of the on-site team day soils may be somewhat distinct to as these soils are straining to consist remains will likely compile moisture conditioning to attain the desired compaction level. This conditioning process can be time constraint, labor inversive and wall coquire favorable weather. In it also important to consider the flust leave parental for any area where copyey or silly fill a poing used.

If off-site materials are required, granular soils which contain less than 12% praying the #200 slove are preferred. If there are excavations where we conditions exist at the time of site grading, it may be materially to unitize cosmer granular soils as fall. In well excavation areas, we recommend the initial few feet of fill material placed he a clean granular soil which contains less than 5% passing the #300 sieve and less than 40% passing the #30 sieve.

In acress where now fill will be placed on alop, in ground, we recommend concloing the surface proof to placing the rifl. Renching is upcommended where aloues are steeper than 4:1 (herizontal versical).

Spread Footing Foundations

The substrates can be supported on conventions I spread foundations placed on the new compacted full and competent natural satis. We recommend performed foundations for heated building space to placed such that the bottom is a minimum of 42° below exterior grade. We recommend

<u>formals, ions</u> the contented building space (such as autopy, gausgo, or leading deck tou starious) be executed to give nimem of 50° below parenter grade.

Das \$1 on the conditions reconnected, in is our opinion the building foundations can be designed. Pastot on a maximum allowable so I bearing pressure of 3,000 path. If its our jurgment this design pressure will have a factor of astery of at least 3 against lacalized shoat of past fail are. We jurge that for seatlements under diese teachings should not exceed 1°. We also judge that differential addingers of conditions deposed by the harings should not exceed 16°.

Floor Slab

Preparation of the boilding area as previously accommended in the Building Cruding Engestures section will also prepare the building area on the consists support. All fill supporting the Loor slab should be compacted to minimum of 95% of Stancard Process density. This includes utility and foundation usually brokefill.

For information regarding floor slab moisture vapor protection, we refer you to the attached standard street enrittee. These Stab Metature Vapor Protection."

Wall Backfill & Water Control

In correction reduced lineral locals excited on helicongrade walls by the extension rackful strik, we concommend has followed into a true dimining sand which has no induced that 13% of the particles (by walghr) passing the \$200 serve. We recommend the wall backful be compacted to at least 95% of the Standard Proctor maximum cry certainy. For more information on preferred anilityies, from our document lateral locals, digitalies, and water control, please see the arms set standard sheets contact.

- Brisemeth/Retaining Wall Basist if and Winter Control
- Freezing Weather Effects on Hubbing Construction.

Exterior Rackfill & Site Dealinage

All soits placed below calculor structural elements, such as sidewalks or \$100ps. Stocks be compacted to a minimum of 95% of Standard Proport density. Boxels a militration of ground when into the subgrade so is car result in frost heaving and subgrade weakbring, workford in both powement and sidewalks are a proper site drainage is important. The lawerness, satewalks, and arrisonped areas should be properly sloped and manufacture of allow surface when minor away from the structure(s).

CONSTRUCTION CONSIDERATIONS

Potential Difficulties

Runniff Water in Excavation.

Some of the near-surface soils at the simpler momentally good draining. Because of this, surface writer can be expected to "perch" above mass soils during times of wester wouldness to allow preservation of the excavation become in reduce the potential for soil disturbance, and to facilities tilling operations. We appear that any water can be handled with conventional auto pumping.

Distriction of all Saids

The meticial on-site soils can become disrurbed under construction traffic, especially if the soils are wer. If soils become dispersed, they should be subcut to the underlying undistuded soils. The subcut soils can then be duced got recompacted back into place, or they should be removed and replaced with drive unported bit.

Untibles and Builders

(Marso a high, which are present at this site, can include nobbles and boulders. This may make excavating procedures somewhat more difficult than noticel if they are encountered. Also,

if collides or boulders are cocomment at footing grade, it may be recessary to remove these oversized particles and copiate them with compacts; fill to allow full feeting placement. Existing fill seeks can also contain oversized rapidles.

Excavation Sidesloping/Retention

If nonclosined, the exposition should maintain sinescopes in accordance with DSHA Regulations (Standards 129.CFR). Part 1926, Surguit P. "Excavations" (see www.gs.ja.gov.). Even with Jac required CSHA sloping, ground water seepage our induce sideslope raveling or morang which would require maintenance.

Observation and Testing

The purpose of this preliminary exploration program was to provide pretiminary recommendations. Additional burings are communicated prior to final design and construction.

The recommendations in this recommendation does be unless beautiful conditions found in our text buring locations. Since the soil conditions can be expected to vary a vary from the soil boring locations, we recommend on such description by a goodeth likely organization technician during emismic technical objection during emismic technical descriptions of evaluate these potential changes. Soil density its ling should also be performed on new fill placed in order to doesnote that project specialisations for compaction have been satisfied.

SUBSURFACE EXPLORATION

General

The substitution exploration program consisted of real standard honorranion rest because. The field were was performed on Moren 26 and '40, 2001.

Approximate so Thomag locations are shown on the artacled alcohol (Figure 1). The barings were located in the field by AHT (Nasonna by taging from marry site frequency. Surface elevations at

the beging locations were measured in the totality ATT personnel using an engineer's level. The bestchmark reference was the centerline of 147th Avenue at the west and (see Figure 1). This elevation was assumed to be 100.0.

Dadlling Methods

The standard ponetration less bodings were drilled caine 3 an diameter holicow-state august.

Sampling Methods

Solid-Spran Samples (SS).

Standard penetration (splir-spann) samples ware collected in accordance with AS: M:D1586. This needless consists of driving a 2^n O.D. split-battel sampler into the in-sate soft with a 140 pound hardoor compact those a traignet of DCC. The sampler is driven a body of 18^n into the soit. After an initial set of 6^n , the germen of humanor blows to drive the samples the third 12^n is known as the significant penetration resistance on N value.

Sampling Limits tions

Unless inhealty observed in a sample, contains between suit layers are estimated bused on the appearing of samples and the action of deliling tools. Cobbbes, becklass, and other large objects generally cannot be recovered from test beings. They may still be present in the ground even if they are not noted on the boring lags.

Classification Methods

Soil classifications shown on the boding logs are based on the Unified Soil classification (USL) system. The USC system is described in ASTM:D2487 and D2488. Where inhomotry classification (csts (viewe analyses and Atternery Limits) have been performed, classifications of: ASTM:D2487 are consolide. Otherwise, soil classifications shown on the horing logs are visual-anomal judgment. We have attached Space (Appendix A) Blastesting the USC system. By descriptive terminology, and the symbols used on the horing logs.

The boring logs makine judgments of the geologic origin. This progress is primarily based on observation of the soil samples, which can be limited. Observations of the surrounding apparaulty, separation, and development can sometimes aid this adjust to.

Water Level Measurements

The effected water measurements are shown at the bettern of the boring logs. The following information appears under "Water i evel Measurements" on the lags:

- Date and Time of Ecasumment.
- Nampled Depth; toggroup transcription of amotion of the time of measurement
- Casing Depth; depth is renormal unity or believe two regrets were of management.
- Cave in Dopth; typh a write measuring apt stops at the between
- Water Level; dept.; with tenentic whose Les tweet is enountant.
- Torilling Elqui Lawrit same at Water Level, except the site hapitain the invitable is drilling field.

The rime location of the water rable in the locating locations may be different than the water levels engagement in the bouckedes. This is possible book so does are several factors that can affect the water level measurements in the bottless in the bottless. Some of diese factors include: permeability of each soil layer in profile, pulsables or perched water, amount of time between which level tradings, presence of digiting floid, whather conditions, and use of bordhold casing.

<u>Sample Storage</u>

We will retain concentrative samples of the soits recovered from the butings for a period of 30 days. The samples will then be discarded unless you notify us otherwise.

LIMITATIONS

The data derived through this sampling and observation program have been used to develop our opinions should be subsurface constrained types site, acovered, because in exploration program can reveal to ally

who is in the substitution to the least of the points and between samples and at other times, may differ from a multiplications does the distributions of the explication we constitute that it has refer to the samples of other way of the samples of other may not be asserted, and to use the or island layers which are present in the ground may not be noted to the being logs.

If conditions are contract their government of the first the solid lighter by our begings, it may be necessary to the contract the area are commentations on to modify a contract improved the profite cost of construction may be altered.

The excess and detail of reference ico about the substraines continue is cirrectly related to the range of the application. It should be made at additional depletation.

STANDARD OF CARE

Our services for your project have been conjected to those standards considered named for services of the type at this limb and location. Other than this, no warrarray, either express or implient is intended.

SIGNATURES

Report Prepared hyd

Medinik I. T. sa

Amii Wajineet

Report Reviewed by:

Jeffery K., Vicyon, PE

Vize President, Gooteelindeal Division.

MN Ren. No. 15928.

THOSE SLAB MOISTLES WAIVOR PROTECTION

Figure 12/2 design relative to protective type protection should unusuable the gap and incommend two electrons are, and as the small and expenditure of two electrons are associated and the protection of the protection and following design and the protection and find protection specifies are not becoming incoming and the benefits and posts of the contests.

GRANITIAR LAYER

In American Constitute (ACI) 31C.1 95, a Topse moveral Tisk commendation the consensated terms "and constitute the consensated terms "and constitute the consensated terms for the moveral constitute and the constitute that the constitute the constitute that the constitute the constitute that the constitute the constitute the constitute that the constitute the constitute that the constitute the constitute the constitute the constitute that the constitute that the constitute the constitute the constitute that the constitute that the constitute the constitute that the

In choose whose potential static ward. Revels on **significant perched** water sources appear near to acrose the filoso slab. In redeminant water many be unstablished a distribute system to place within a drafter said original layer. Such a system and the property may be unstabling on subgrade and types and the horse or water from

VAPOR MEMBRANE

The used Sergrappo mentiment perits in whether, is flow and will have a squared in the contributed perits of the super specification of the expectation of the expect

VAROR MEMBRANE/CRANULAR LAVIORIPLACII MICAE

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- Time of Necroing, which allows for quicked fulfilling.
- Various manifestic page, ning.
- Mediane Historing on delectioning passed by an extended Meeting period.
- Observing remodility placets on drying statutage.

no lampfile of obeing the vagourient types over the grantian inject material the militaring:

- "file neckung activation one of symboles in over."
- Eliminate a constraint expense section of the grantian axis shows the memory re-
- Provide a "glip gripage", thereby retaining eath restraint end du less relations analyse crustina.

நிர<u>் நக்கிற</u>ுத் இருந்த next micogram mi kett, alguer tetar, பிற கூறாகள் நடிகளைக்கிய கொண்டனங்கில் கூறு வளிர்கள் <u>மூறாருந்து நந்த</u>ிருக்கி 11 hij நேரா numbrand skied i be alaced above the angular பிருள் White.

- Way preserved interferencing searchs and medical supplied forms will be firefly placed on the Sab.
- The two on the Introdity controlled but the slab will be placed before the building is enclosed and cealed from tall.
- Καφιστο έγια όπου συναίως παραβούμετο γγείεται Εναπαίας

The week meeting as build be placed below the graption byte where

Practic stability consolled Acts (subgr) wpor segment meaning corrections), with the neal meaning on place
and de locality subtoed to be pour were preorption will not from the near the state one. Consider on which to
given destricted page of the preorption well-decry position in the positional consolitation particular sections.
 Act on print a spire of providents. Fundament will decry position, for the print of system activation, the

Total may be cores object membrate per overhous to so a localisation office, on the subjectule appoint we brought, expension such that these cores, governments cost to energy during the subject of energy during a subject to per formulae riskin.

BASEMENT) RECAINING WALL BACKFILL AND WATER CONTROL.

MAANAGE.

Below grade pastrolic should include a pointeer lookfill delinage system at the exterior addeds the wall. The exception may be where to common alle will indeed rating sands where was a will not people in the backfill. Buildings systems considered in the boronies the backfill indeed by properly considered in the boronies the backfill report tower has the interior floor grade. The duals past should be supported by properly graded filter rack. The duals past should be supported by properly graded filter rack. The duals past should be supported by graded filter rack. The duals like specific properly on fall. A supported gradity contains a supported by properly on fall. A supported by cuttail would populate a be supported by the rack of the wall can be substituted for a their pipe.

RACKFILLING.

Promite leadefiling, famply mer proving should be applied on connecte basement sets. The recell is retained placed against research will be it error to real payings. To make the locality by allowing for countries, we assume and using free coming small for both?". The same of sand backers stock contracted and outward months within 1800 or proving from vertical. The same should assembly application of the will be really which would make it in 12 in by weight passing the width would make it is fitted. (SP-SM) with The said backers stock from the placed in 1800 and comparted with per slike compaction equipment. The compactor will be a made applied levels the same arrangement is the placed stock. Where subspections also as about, we recommend the small back Till within layer of placed stocks. Where subspections are the accommendation of the building should be accommended.

Diget in might help of clayer soil to provide by multiprofessoil. These stills can broad up sover of nonlinears intending escential provides and possible upon infill point into the for basement. If you exert to place sity or integrate point as backed, the massioner of soil places a prefatorizer of dramaps composite against the well which is hydroptically connected to a dramage property to the backett as backett, they we should be somitted as backett due to their so. Himselfold.

TATERAL PROSSERSS

I so call each pressures on two grant walk ware, depending to provide an increasion, leader, compatition and support to the back? For face, State or depends our large loads, and the wall vall viscount restriction was pressure. For design, we recommend the following different according to pressure values (given in equivalent fleed pressure values) for a deal coll compatition of \$6.5 of the standard Process are a well provided process.

Raubinken Mohl Demits

Soll Type	Analier, (pag)	Ad-Stest (pcf)
Fands (57 or 88 SM)	35	4:
Sally Sands (SM)	40	A0
Pine Germal Selfs (SC, CL or M1)	23	[8]

Basement we in among a direct strained to the neglection records a convenient. In this case, the design baseful presents in such that the late record presents situation. Remarks, while which are free to the control of facility be designed using the politic season. I must all carts the secrets will record print out it in that shows it in a file are not the next and become some out.

PREEZING WEATHER EFFECTS ON BUILDING CONSTRUCTION

GENERAL.

Oppogative or responds upon if using and softwartain water, so is which are allowed to freeze will have antitive density. Utom making, these softwill not regain their original knowledges by an identity. The emerged heave and density around knowledges are like softwartain and moisture condition. Heave is pleased in soils with higher paramoper of free (survivors). Higher than not with order was exampled to the knowledge pleased softs generally heave about 100 for Mail to each tool operation. This can impain to my invariant free in a second.

DESIGN CONSIDERATIONS

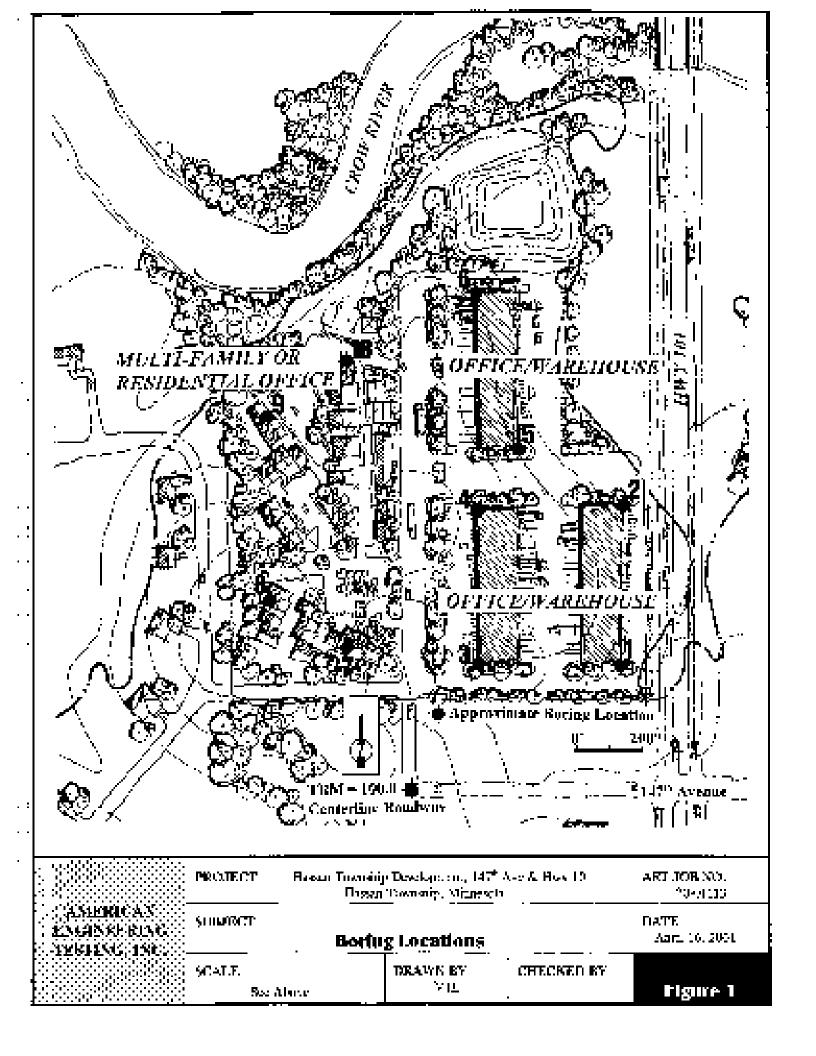
Cargov and stay sour can be used as perimeter backfill of though the effect of their proportions which are an instrumental for the properties downline on which are an instrumental for the properties at Lemmi states upported to a most though which are the states which are an instrumental for the regard as at Lemmi states supported on most though with viol space below. With this design, movements may then occur was that and the adjocant ones, also states. Note from supported states (with loss than 12% possing a 80% steep can be used to now and know, flag action on the function of summaring states. Here and type may need a thickness translation away from the area where movement is ortical. With sand transmit over slower durality sails, appearing a world for coaled for the sand tages. High doubties a total insulation could be read of him to sail to because from properties on the potential for the planting of the sand thickness meeter. We contain that makes the potential for the planting of the sand thickness meeter.

The passible effects of afficering should be considered in playey of only soils are used as backfill. Affireming occurs terms possibilities be complican less infinitely with and like the work as it. Seems, and heaves. This recovering is more common term massoury place works, innerties to practly nearest quicking suppliers and only backfill. The pare tial is abanine asset where backfill soils are poorly companied and become samurand. The risk of all knowing on the despayed by placing a law finite according to the seal of the restill.

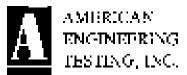
Addressing connection of extension piece (such as deal), feath is other smills piec findings), even if a small we force its provided. This is more likely to provide desirable where with resource countries. Additional toping confishing its feather indicated facilities below the most range (which indicates tensile relationsection) can be used to using upon increase. Spectral regions would complie to sharp via

CONSIDERATION CONSIDERATIONS.

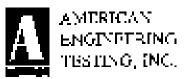
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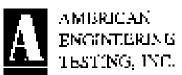
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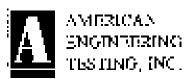


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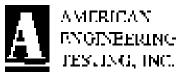


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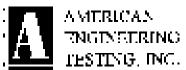
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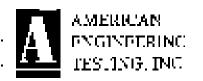
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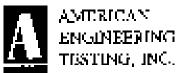


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AMERICAN ENGINEERING TESTING, INC.

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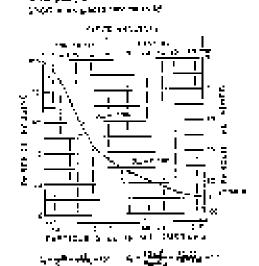
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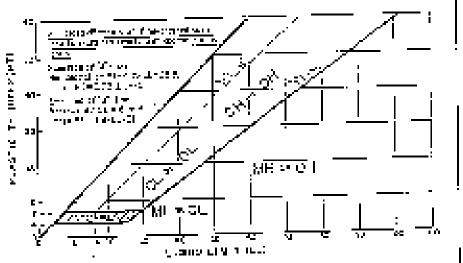
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GENERAL TERMINOLOGY NOTES FOR SOIL IDENTIFICATION AND DESCRIPTION

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Jack Blood Artis

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