

**Lino Lakes I-35E Corridor
Alternative Urban Areawide Review (AUAR)
Five Year Update**

**Original AUAR 2005
Five Year Update 2010
Five Year Update 2015**

June 29, 2015

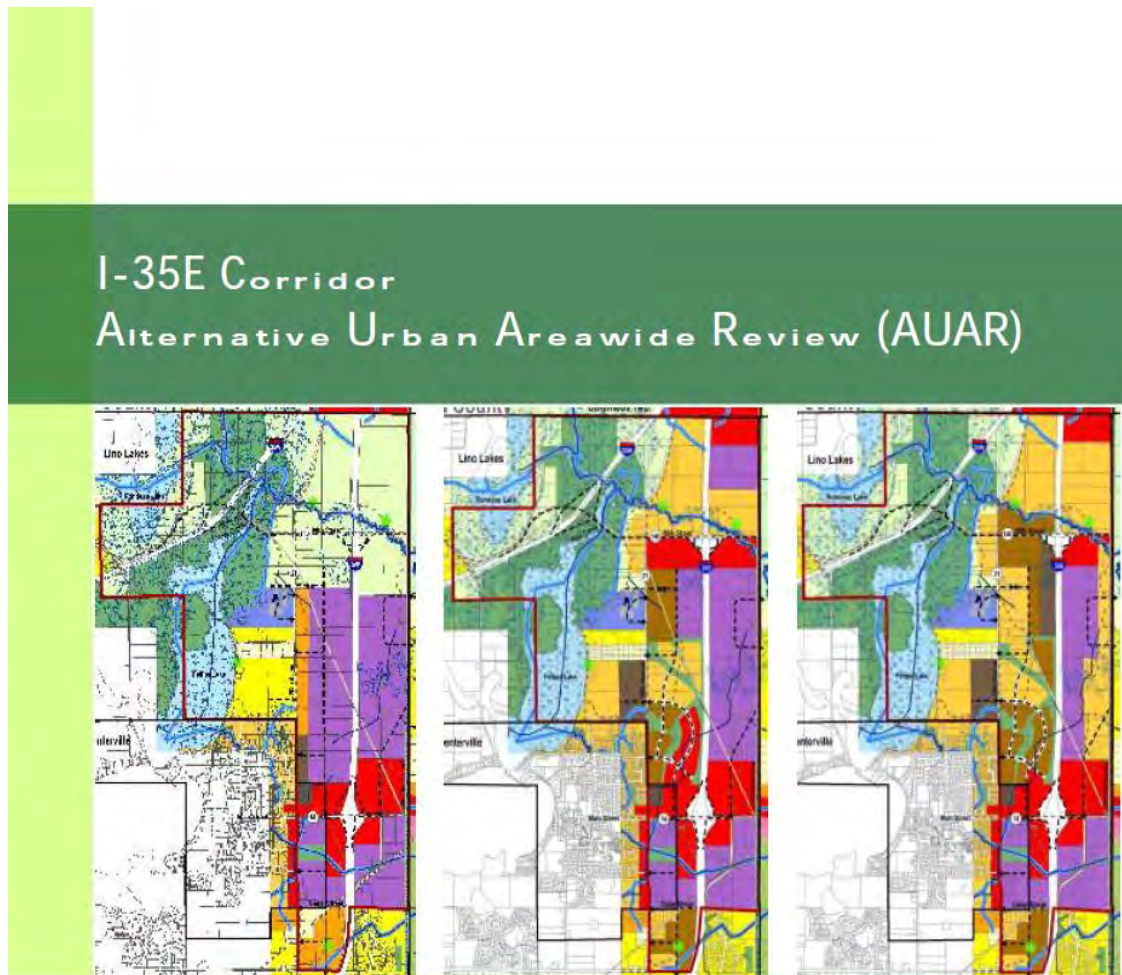


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I. INTRODUCTION AND PURPOSE

The I-35E Corridor Final AUAR was prepared for the City of Lino Lakes in accordance with Minnesota Rules Chapter 4410 in 2005. The AUAR was subsequently updated in 2010. Pursuant to Minnesota Rules 4410.3610 Subp. 7, for the AUAR to remain valid as the environmental review document for the area, the document needs to be updated every five years until all development in the study area has received final approval. Since undeveloped areas still remain in the study area and the AUAR will expire in October 2015, the purpose of this document is to update the AUAR pursuant to Minnesota Rules.

The I-35E Corridor AUAR study area is approximately 4,500 acres and is located in the northeastern portion of the city as shown in **Figure 5-1, Appendix A**. The AUAR included a review of three development scenarios. These three scenarios are being carried forward with this AUAR Update.

1. Scenario One was consistent with the city's comprehensive plan adopted in 2002 and allows for an additional 2,237 housing units, 2,985,733 square feet of commercial uses, and 11,175,035 square feet of industrial uses (see **Figure 6-2, Appendix A**). The city has subsequently adopted an updated Comprehensive Plan in 2011.
2. Scenario Two is based on known development plans of property owners within the AUAR area and has a commercial and industrial emphasis (**Figure 6-3, Appendix A**). Scenario Two allows for an additional 5,715 housing units, 5,617,890 square feet of commercial uses, and 9,570,045 square feet of industrial uses. This scenario is more consistent with the 2030 Comprehensive Plan adopted in 2011.
3. Scenario Three has a residential emphasis and allows for an additional 8,659 housing units, 4,141,554 square feet of commercial uses, and 5,829,722 square feet of industrial uses (**Figure 6-4, Appendix A**). Some elements of this scenario are in the 2030 Comprehensive Plan.

There has been some development since the 2010 update. A Park-and-Ride has been constructed in the northwest quadrant of I-35E and CSAH 14. A McDonald's restaurant has been constructed east of I-35E on CSAH 14. The NorthPointe development, located in the southern portion of the AUAR study area, has been approved. A few other developments were approved, but were not constructed. **Appendix A** has been updated to show these new developments.

Other updates include that the Rice Creek Watershed District (RCWD) updated their rules in November 2014. The 2010 AUAR Update included the addition of the Lino Lakes Resource Management Plan and the subsequent RMP-3 rule support the "Conservation Design Framework" that formed the foundation of the AUAR's Mitigation Plan. The November 2014 RCWD rules will assist in achieving the RMP goals.

Additionally, the City of Lino Lakes adopted the 2030 Comprehensive Plan in September 2011. This update is discussed further in **Section II**.

The original AUAR from 2005 and the update from 2010 are available on the City’s website at http://www.ci.lino-lakes.mn.us/index.asp?SEC=581A5670-E592-4178-B9B2-7B0B72922A8E&Type=B_BASIC. This report is intended to serve as an update of the 2010 AUAR Update and includes a review of the areas that have developed, an update to the environmental analysis as needed, and a review of the mitigation measures. Items in the original AUAR that have not changed are not discussed, and the information in the AUAR or the October 2010 AUAR Update for those items remains as written.

II. 2030 COMPREHENSIVE PLAN

The City of Lino Lakes adopted the 2030 Comprehensive Plan in 2011. The Future Land Use element of the Comprehensive Plan shows much of the AUAR area as “Urban Reserve”, or not projected to be developed until after 2030. Scenario One of the AUAR has some similarities to the future land use plan map in the Comprehensive Plan showing the Urban Reserve area. In addition to the future land use plan map, the Plan also includes a “full build-out” future land use plan which describes the planned uses for the AUAR area (Figure 3-2 of the Comprehensive Plan [http://www.ci.lino-lakes.mn.us/vertical/sites/%7B92EFCBF5-B800-4B28-AD6A-B8C3B7009FB0%7D/uploads/Chapter_3_Land_Use_Plan\(1\).pdf](http://www.ci.lino-lakes.mn.us/vertical/sites/%7B92EFCBF5-B800-4B28-AD6A-B8C3B7009FB0%7D/uploads/Chapter_3_Land_Use_Plan(1).pdf)). The future full build out land use map generally includes elements of Scenarios Two and Three of the AUAR.

This 2030 Comprehensive Plan incorporated land uses of the AUAR analysis and is substantially similar to Scenario Two. Both Scenario Two and the full build-out future land use plan show a mixture of medium density residential, commercial and industrial uses over most of the AUAR area. The differences between Scenario Two and the Comprehensive Plan relate to some residential areas that are shown as medium-to-high density residential in the AUAR and medium density residential or mixed use in the Comprehensive Plan. These changes in the Comprehensive Plan appear to meet the intent of the AUAR.

III. DEVELOPMENT WITHIN THE STUDY AREA

Figure 5-3 shows the location of the proposed, approved, and previously considered developments within the study area. The developments are listed in Table 1.

Table 1. Summary of Development within Study Area

Development	Activity	Status	Parcel Size	AUAR Update (Year)
NorthPointe	228 single family; 88-unit senior living facility	In process (completing Phase 2 of 5)	94 acres	2015
McDonald's Restaurant	Construction of fast food restaurant	Developed	3.3 acres	2015
Park and Ride	Large Metro Transit parking lot	Developed	3.1 acres	2015
CSAH 14 Interchange	Roadway improvements	Developed	NA	2010
Moon Marsh	Rural PUD	Did not develop	24.3 acres	2010
Main Street Village	Commercial PUD	Did not develop	47 acres	2010
Hardwood Creek Site	Mixed Use (PUD)	Did not develop	363 acres	2005

IV. UPDATE TO THE ENVIRONMENTAL REVIEW

A. Traffic and Transportation System

The AUAR included preparation of a detailed traffic impact analysis to fully investigate the effects of the proposed land use scenarios on the local and regional roadway systems (AUAR Item 21, Traffic). The 2010 AUAR Update contained information about transportation projects that had been completed since the original AUAR. Since 2010, the I-35E Interchange at CSAH 14 has been completed. The mitigation plan has been updated based on implementation of the plan.

A Traffic Impact Study was completed with the Northpointe development. The study updated the traffic data and evaluated the roadway system adjacent to and through the site. The study identified roadway improvements and access configuration consistent with the AUAR Mitigation plan. Therefore the analysis conducted with the 2005 AUAR and the 2010 updated AUAR remains valid for this AUAR Update.

B. Regional Sanitary Sewer

The AUAR included preparation of a sewer analysis to fully investigate the effects of the proposed land use scenarios on the systems. Sewer capacity was noted as an issue in the original AUAR. The 2010 AUAR Update discussed the Lino Lakes Relief Interceptor (MCES 70-29) that was constructed to address capacity for the area. Additionally, the sewer was extended along 21st Avenue as well as other trunk improvements to serve development within the study area in conformance with the AUAR and the Comprehensive Plan. No other regional sewer projects have occurred since the 2010 AUAR Update. This study remains valid for this AUAR Update.

C. Regional Water System

The AUAR included an analysis of the city's water system as it related to possible development in the AUAR Study Area. The city is currently in the process of updating its Wellhead Protection Plan. Part 1 of the plan has been approved by the Minnesota Department of Health and Part 2 is currently under review. This update process is in conformance with the AUAR mitigation plan.

D. Potential Environmental Hazards

Item 9 in the original AUAR included a review of past land use in relation to potential environmental hazards. This section was updated and includes a review of the Minnesota Pollution Control Agency's "What's in My Neighborhood" database. The results are in **Appendix C**. No significant changes occurred and the mitigation plan remains valid for the AUAR Update.

E. Stormwater Management

On November 12, 2014, the RCWD adopted revised rules that affect the I-35E Corridor study area. These rules became effective December 1, 2014. These rules supersede past rules or requirements that were in the 2010 and 2005 AUAR and also incorporate the Resource Management Plan that was added in the 2010 AUAR Update. These rules are now in effect for development in the study area and the mitigation plan has been updated accordingly.

F. Ecologically Sensitive Areas

The AUAR included review and analysis of the ecologically sensitive areas within the study area. For this update, the DNR Natural Heritage Database information was updated and is included in **Appendix B**. This update contains additional known occurrences of rare species or natural communities within a one-mile radius of the study area as compared to the data from the original AUAR. The mitigation plan is adequate to address these sensitive ecological areas and the remaining AUAR analysis remains valid for this update.

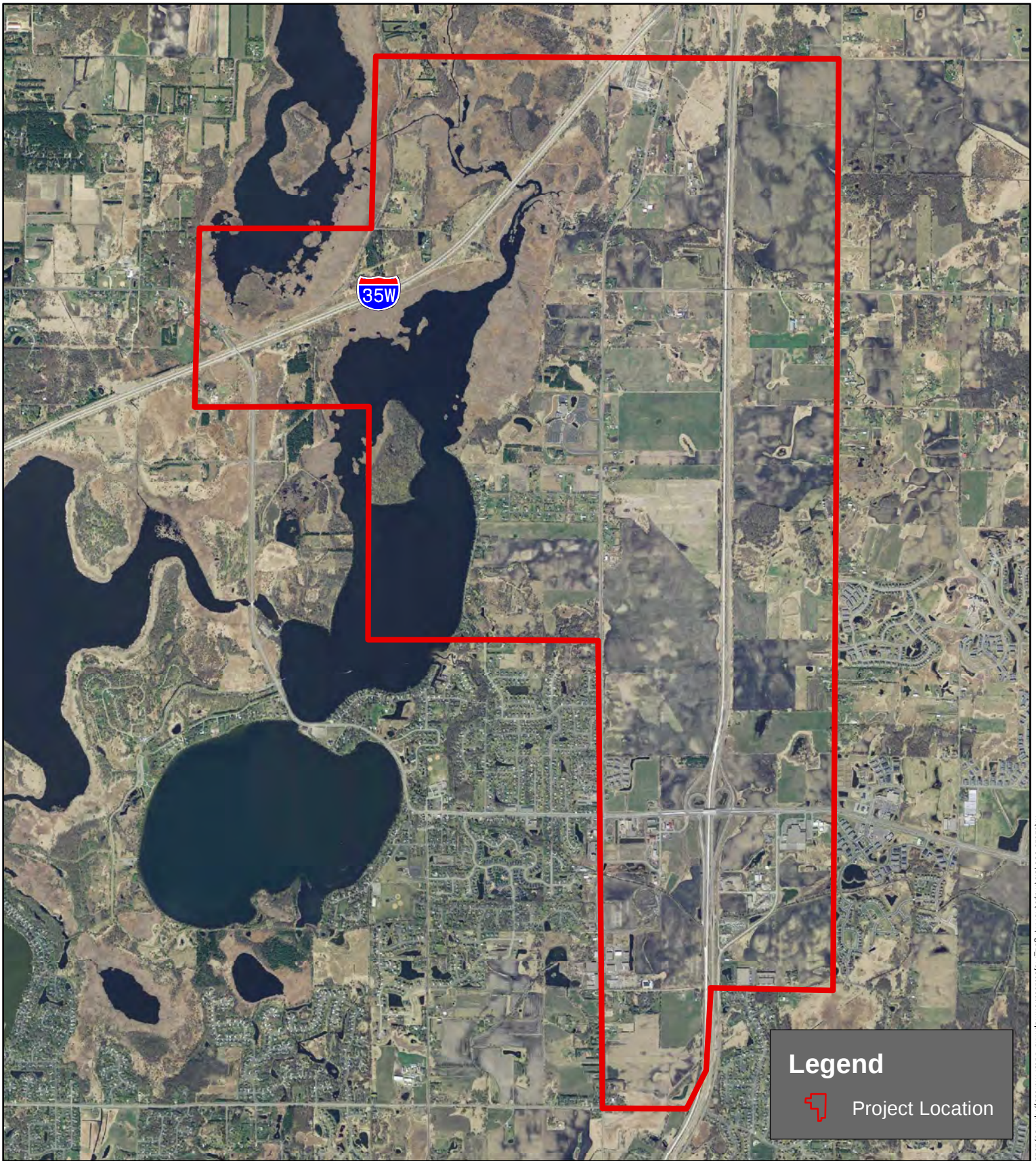
G. Cultural Resources

Information from the SHPO database was obtained to update the AUAR. There were more areas identified within the original AUAR than in the SHPO database update (**Appendix B**). The mitigation plan is adequate to address these resources and the remaining AUAR analysis remains valid for this update.

IV. MITIGATION SUMMARY AND UPDATE

The mitigation plan from the original AUAR and AUAR Update (2010) has been reviewed and updated based on changes since 2010. The mitigation plan is included in **Appendix D**.

APPENDIX A: Figures



K:\2029-250\GIS\Mapx\AUA\Fig51_ProjectLocationMap.mxd Date: Thursday, April 30, 2015

PROJECT LOCATION

CITY OF LINO LAKES, MINNESOTA
I-35E CORRIDOR AUAR UPDATE

FIGURE 5-1



0 5,000 10,000
Feet



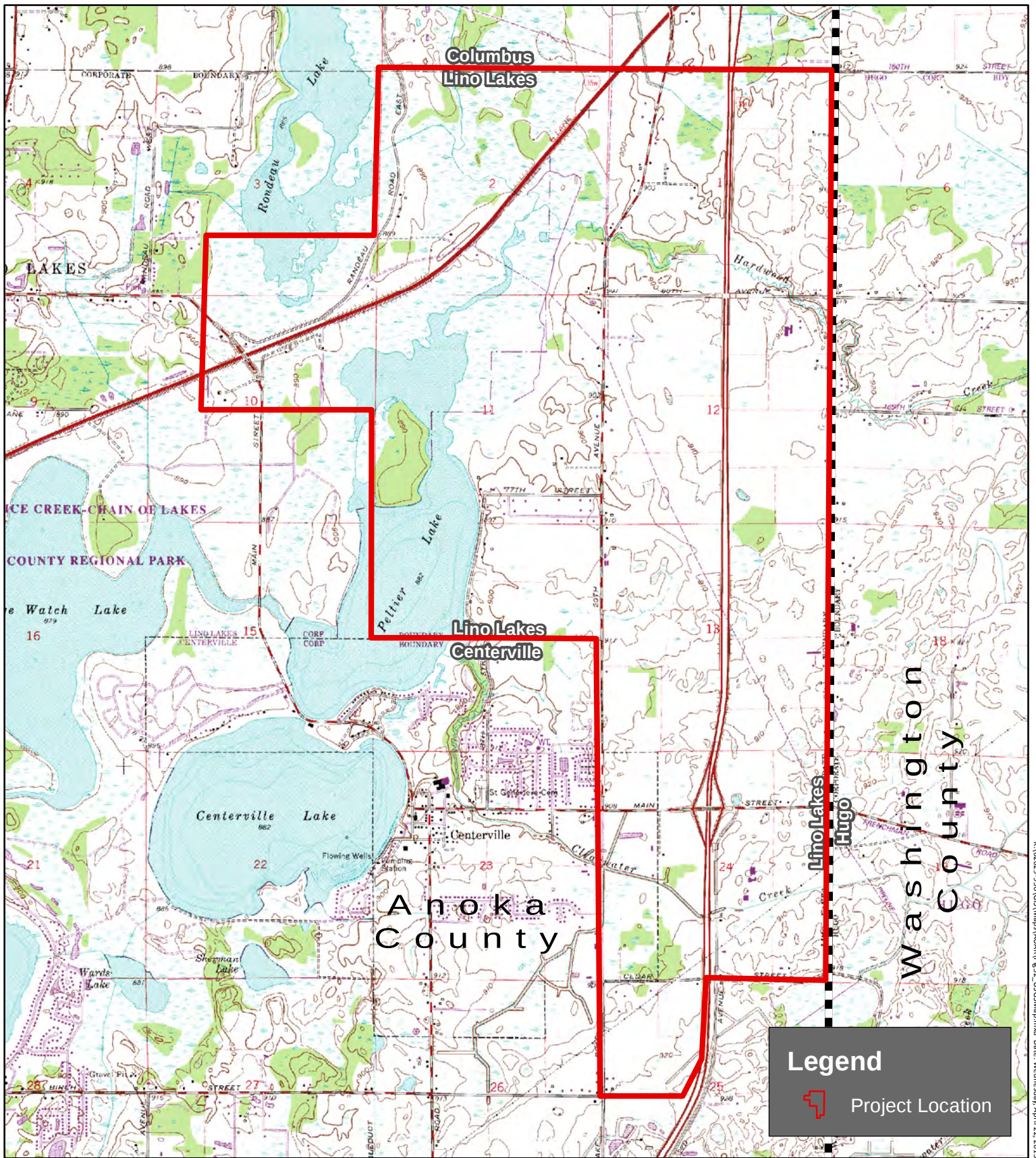
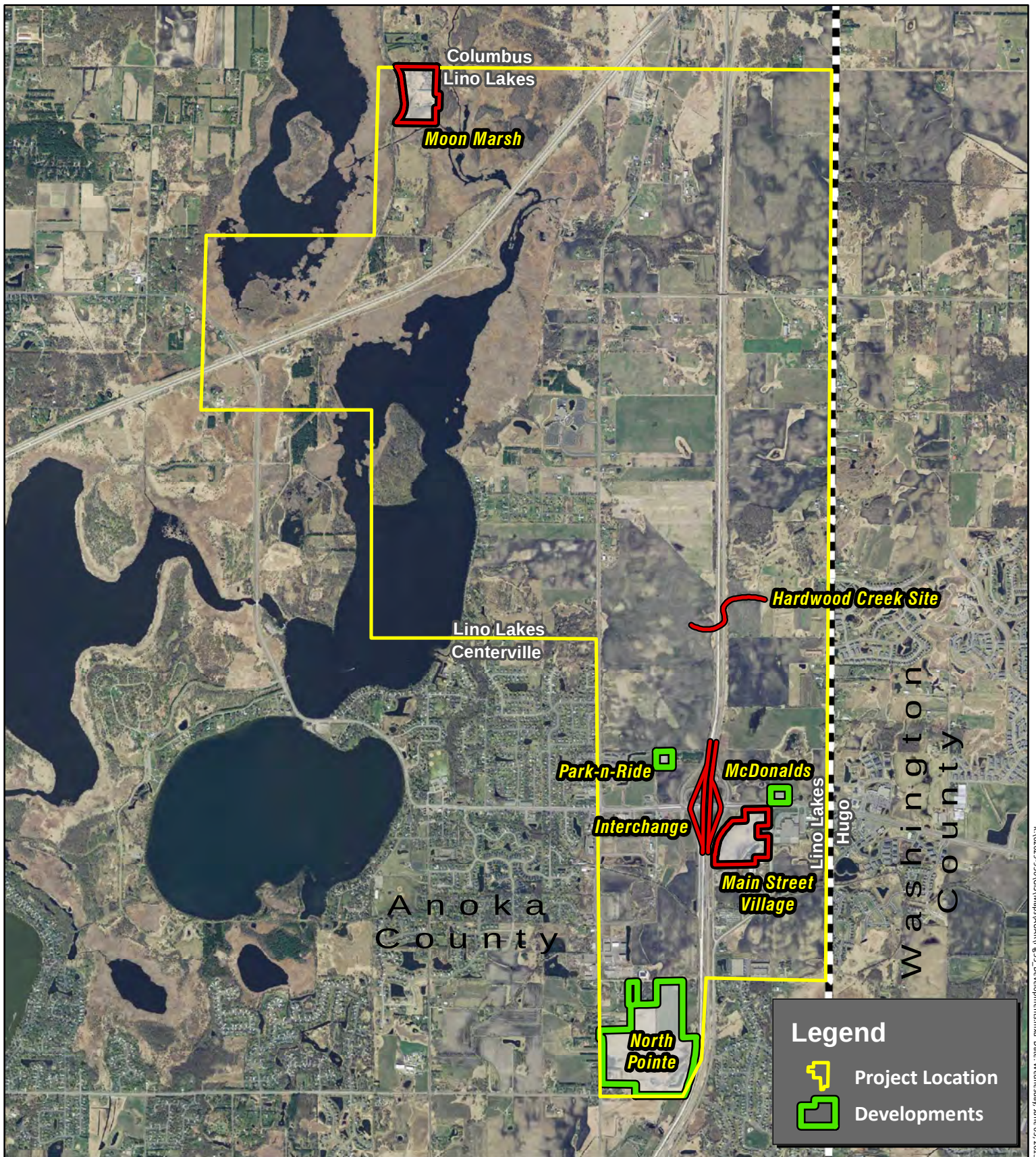


FIGURE 5-2



DEVELOPMENTS MAP

CITY OF LINO LAKES, MINNESOTA
I-35E CORRIDOR AUAR UPDATE

2015 Update

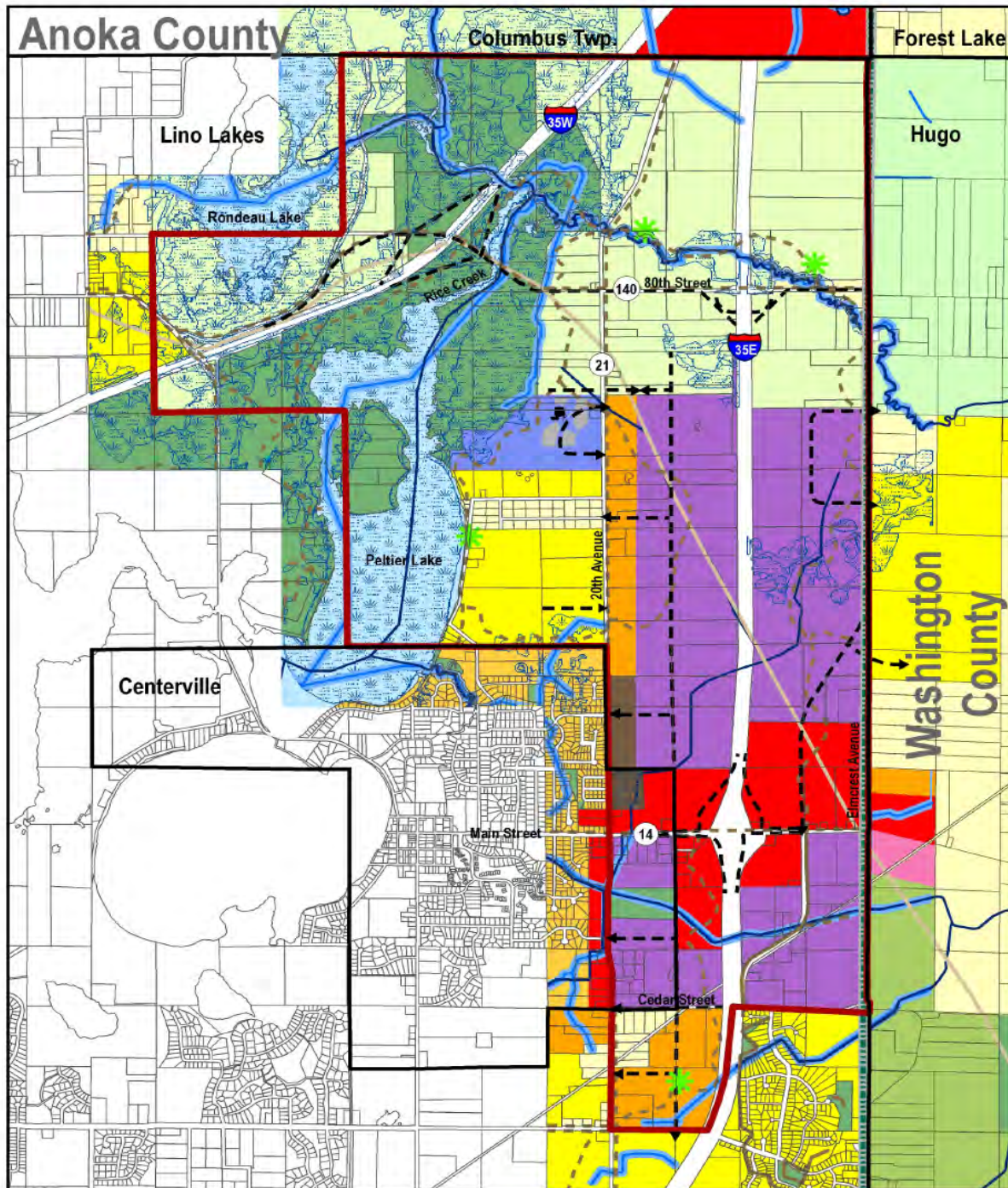
2010 Update



0 1,500 3,000 Feet

FIGURE 5-3





Scenario 1

City of Lino Lakes, Minnesota
I-35E Corridor AUAR

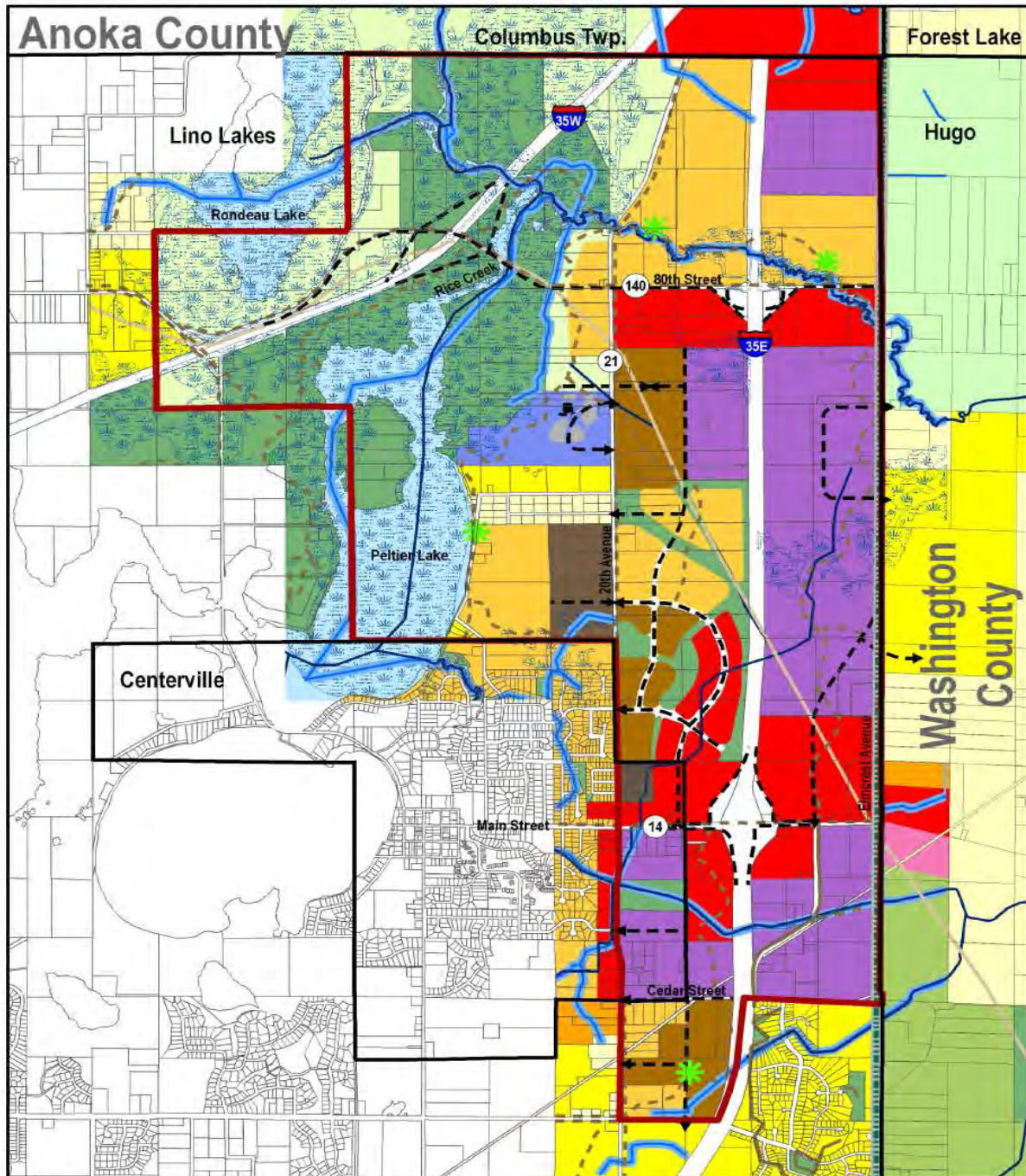
Figure 6-2



2,000 1,000 0 2,000 Feet
Prepared by: Daitlgren, Shandrew and Libari, Inc.
Copyright 2005
K:\data\work\gis\server\1448\Scenario 1 5-17-05.mxd

May 31, 2005





Scenario 2
City of Lino Lakes, Minnesota
I-35E Corridor AUAR

Figure 6-3



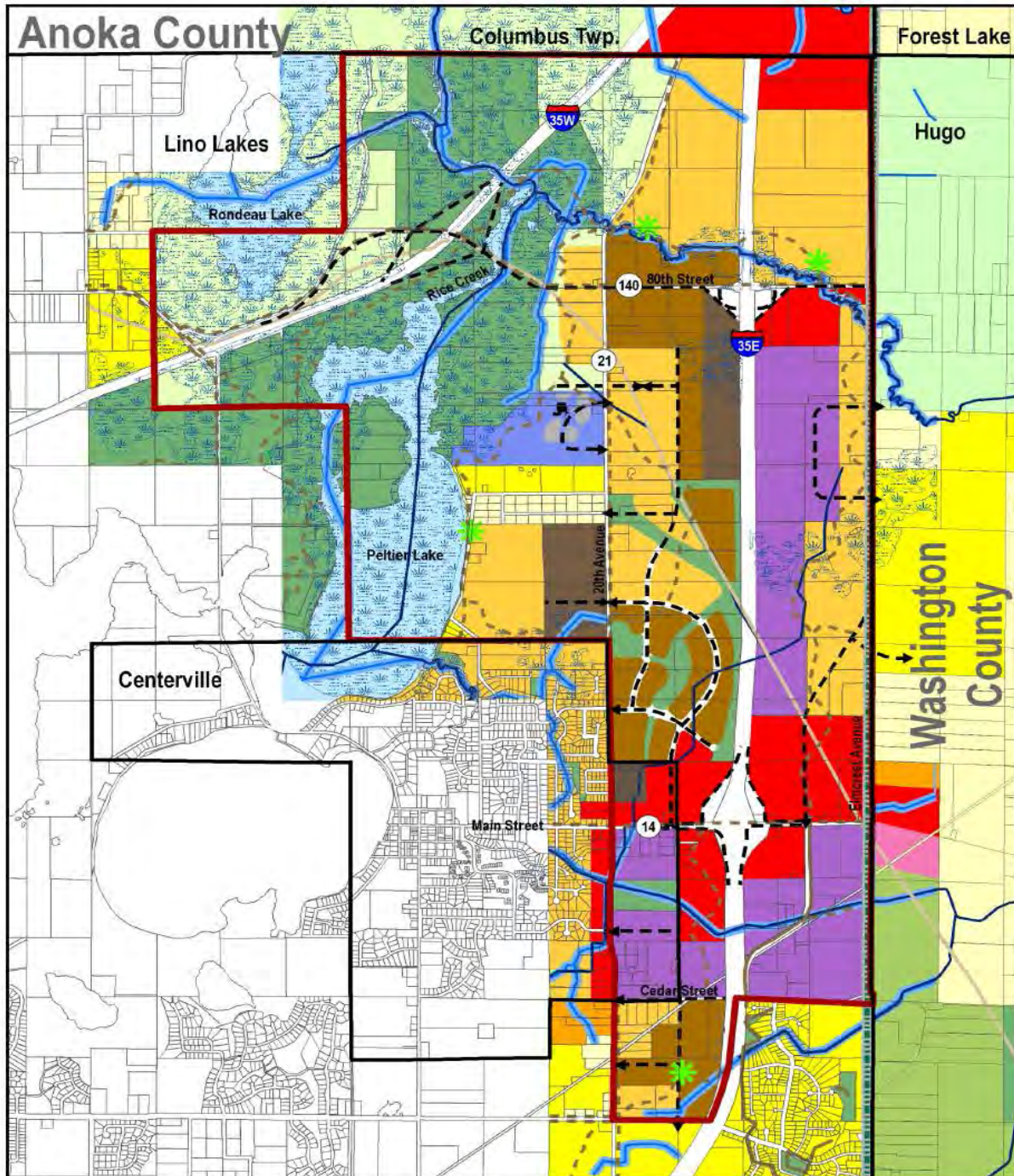


Figure 6-4

Scenario 3 City of Lino Lakes, Minnesota I-35E Corridor AUR



APPENDIX B: Agency Correspondence (DNR and SHPO)



Minnesota Department of Natural Resources

Division of Ecological and Water Resources, Box 25

500 Lafayette Road

St. Paul, Minnesota 55155-4025

Phone: (651) 259-5091 E-mail: samantha.bump@state.mn.us

March 11, 2015

Correspondence # ERDB 20150232

Ms. Andi Moffatt
WSB & Associates, Inc.
701 Xenia Avenue South, Suite 300
Minneapolis, MN 55416

RE: Natural Heritage Review of the proposed I-35E Corridor AUAR Update,
T31N R22W Sections 1-3, 10-14, 24 & 25; Anoka County

Dear Ms. Moffatt,

The Minnesota Natural Heritage Information System has been queried to determine if any rare species or other significant natural features are known to occur within an approximate one-mile radius of the proposed project. For the results of this query, please refer to the enclosed database reports (please visit the Rare Species Guide at <http://www.dnr.state.mn.us/rsg/index.html> for more information on the biology, habitat use, and conservation measures of these rare species). As requested per the data request form, I am providing the database reports only and have not evaluated the potential for the proposed project to adversely affect these rare features. Please note that the Environmental Assessment Worksheet (EAW) should address whether the proposed project has the potential to adversely affect these rare features and, if so, the EAW should describe any measures that will be taken to avoid, minimize, or mitigate impacts. Please note the following features are in the area of interest but are not represented on the reports:

- A portion of the area of interest is within a Central Region Regionally Significant Ecological Area (RSEA) that is ranked Outstanding. The DNR Central Region (in partnership with the Metropolitan Council for the 7-county metro area), identified these ecologically significant terrestrial and wetland areas by conducting a landscape-scale assessment based on the size and shape of the ecological area, land cover within the ecological area, adjacent land cover/use, and connectivity to other ecological areas. The purpose of the data is to inform regional scale land use decisions, especially as it relates to balancing development and natural resource protection. A GIS shapefile of this data layer can be downloaded from the DNR Data Deli at <http://deli.dnr.state.mn.us>. Additional information, including pdf versions of the RSEA maps, is available at <http://www.dnr.state.mn.us/rsea/index.html>. If you would like help interpreting the RSEA data please contact Hannah Texler, Regional Plant Ecologist for DNR's Central Region, at 651-259-5811 or hannah.texler@state.mn.us.
- For your information, I have attached a Blanding's turtle fact sheet that describes the habitat use and life history of this species. The fact sheet also provides two lists of recommendations for avoiding and minimizing impacts to this rare turtle. The first list is relevant for all areas inhabited by Blanding's turtles while the second list contains

additional protective measures for areas known to be of statewide importance to this species. Because the proposed project is within one of these areas, **please refer to both lists of recommendations**. In addition, if erosion control mesh will be used, I recommend that the mesh be limited to wildlife-friendly materials (see enclosed fact sheet).

- The Minnesota Biological Survey (MBS) has identified two Sites of Biodiversity Significance within the project boundary. Sites of Biodiversity Significance have varying levels of native biodiversity and are ranked based on the relative significance of this biodiversity at a statewide level. Factors taken into account during the ranking process include the number of rare species documented within the site, the quality of the native plant communities in the site, the size of the site, and the context of the site within the landscape. These particular Sites contains several high quality native plant communities and, as noted above, several rare plants. (Please see attached map; GIS shapefiles of MBS Sites of Biodiversity Significance and MBS Native Plant Communities can be downloaded from the DNR Data Deli at <http://deli.dnr.state.mn.us>.)

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.**

The enclosed results include an Index Report and a Detailed Report of records in the Rare Features Database, the main database of the NHIS. To control the release of specific location information, which might result in the destruction of a rare feature, both reports are copyrighted.

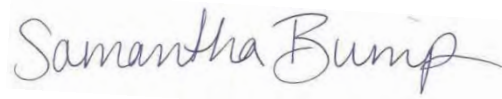
The Index Report provides rare feature locations only to the nearest section, and may be reprinted, unaltered, in an environmental review document (e.g., EAW or EIS), municipal natural resource plan, or report compiled by your company for the project listed above. If you wish to reproduce the index report for any other purpose, please contact me to request written permission. **The Detailed Report is for your personal use only as it may include specific location information that is considered nonpublic data under *Minnesota Statutes*, section 84.0872, subd. 2. If you wish to reprint or publish the Detailed Report for any purpose, please contact me to request written permission.**

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 (noted above) and the project description provided on the NHIS Data Request Form. Please contact me if project details change or for an updated review if construction has not occurred within one year.

The Natural Heritage Review does not constitute review or approval by the Department of Natural Resources as a whole. Instead, it identifies issues regarding known occurrences of rare features and potential effects to these rare features. To determine whether there are other natural resource concerns associated with the proposed project, please contact your DNR Regional Environmental Assessment Ecologist (contact information available at http://www.dnr.state.mn.us/eco/ereview/erp_regioncontacts.html). Please be aware that additional site assessments or review may be required.

Thank you for consulting us on this matter, and for your interest in preserving Minnesota's rare natural resources. An invoice will be mailed to you under separate cover.

Sincerely,

A handwritten signature in blue ink that reads "Samantha Bump". The signature is written in a cursive, flowing style.

Samantha Bump
Natural Heritage Review Specialist

enc. Rare Features Database: Index Report
 Rare Features Database: Detailed Report
 Rare Features Database Reports: An Explanation of Fields
 Blanding's Turtle Fact Sheet and Flyer
 Wildlife Friendly Erosion Control
 Map

cc: Brooke Haworth

Minnesota Natural Heritage Information System
Index Report of records within 1 mile radius of:
ERDB# 20150232 - I-35E Corridor AUAR Update
T31N R22W Section 1-3, 10-14, 24, & 25
Anoka County

Rare Features Database:

Element Name and Occurrence Number	Federal Status	MN Status	Draft Status	SGCN Status	State Rank	Global Rank	Last Obs Date	EO ID #
Vertebrate Animal								
<u>Bartramia longicauda</u> (Upland Sandpiper) #243 T31N R21W S18, T31N R22W S24, T31N R21W S19, T31N R22W S13; Anoka, Washington County		Watchlist		SGCN	S4B	G5	1990-06-18	11507
<u>Cygnus buccinator</u> (Trumpeter Swan) #90 T32N R21W S15, T30N R23W S9, T31N R21W S28, T30N R23W S10, T [...]; Ramsey, Anoka, Washington County		SPC		SGCN	S3B,SNRN	G4	2008	34447
<u>Emydoidea blandingii</u> (Blanding's Turtle) #283 T32N R22W S34, T31N R22W S3; Anoka County		THR		SGCN	S2	G4	1988-06-07	8824
<u>Emydoidea blandingii</u> (Blanding's Turtle) #493 T31N R21W S18, T31N R22W S24, T31N R21W S19; Anoka, Washington County		THR		SGCN	S2	G4	1989-09-05	11219
<u>Emydoidea blandingii</u> (Blanding's Turtle) #862 T31N R21W S30, T31N R21W S29, T31N R21W S20, T31N R21W S19; Washington County		THR		SGCN	S2	G4	1997-06-15	24989
<u>Haliaeetus leucocephalus</u> (Bald Eagle) #1919 T31N R22W S3; Anoka County		Watchlist		SGCN	S3B,S3N	G5	2005-05-06	26633
<u>Haliaeetus leucocephalus</u> (Bald Eagle) #2154 T31N R22W S9, T31N R22W S10, T31N R22W S16, T31N R22W S15; Anoka County		Watchlist		SGCN	S3B,S3N	G5	2001	28106
<u>Haliaeetus leucocephalus</u> (Bald Eagle) #2194 T31N R22W S11, T31N R22W S10; Anoka County		Watchlist		SGCN	S3B,S3N	G5	2001	22409
<u>Haliaeetus leucocephalus</u> (Bald Eagle) #2250 T31N R22W S16; Anoka County		Watchlist		SGCN	S3B,S3N	G5	2002	5275
<u>Haliaeetus leucocephalus</u> (Bald Eagle) #2275 T31N R22W S2; Anoka County		Watchlist		SGCN	S3B,S3N	G5	2009-06-07	31123
<u>Sterna forsteri</u> (Forster's Tern) #21 T31N R22W S36, T31N R22W S26, T31N R22W S35, T31N R22W S25; Anoka County		SPC		SGCN	S3B	G5	1982	25152
Animal Assemblage								
<u>Colonial Waterbird Nesting Area</u> (Colonial Waterbird Nesting Site) #721 T31N R22W S14, T31N R22W S11, T31N R22W S10, T31N R22W S15; Anoka County		N/A			SNR	GNR	1989-06-11	9753

Minnesota Natural Heritage Information System
Index Report of records within 1 mile radius of:
ERDB# 20150232 - I-35E Corridor AUAR Update
T31N R22W Section 1-3, 10-14, 24, & 25
Anoka County

Rare Features Database:

Element Name and Occurrence Number	Federal Status	MN Status	Draft Status	SGCN Status	State Rank	Global Rank	Last Obs Date	EO ID #
Vascular Plant								
<u>Agalinis purpurea</u> (Purple Gerardia) #5 T31N R22W S5, T32N R22W S32, T32N R22W S33, T31N R22W S4; Anoka County		N/A			SNR	G5	2001-09-20	31062
<u>Agalinis purpurea</u> (Purple Gerardia) #7 T31N R22W S5, T31N R22W S4; Anoka County		N/A			SNR	G5	2001-09-15	31064
<u>Botrychium rugulosum</u> (St. Lawrence Grapefern) #92 T31N R22W S9; Anoka County		SPC			S3	G3	2012-07-19	37243
<u>Botrychium simplex</u> (Least Moonwort) #230 T31N R22W S9; Anoka County		SPC			S3	G5	2012-06-01	37242
<u>Decodon verticillatus</u> (Waterwillow) #10 T31N R22W S3, T31N R22W S2; Anoka County		SPC			S3	G5	1989-09-29	11638
<u>Decodon verticillatus</u> (Waterwillow) #23 T32N R22W S35; Anoka County		SPC			S3	G5	2001-08-25	30993
<u>Echinochloa walteri</u> (Walter's Barnyard Grass) #25 T32N R22W S35; Anoka County		N/A			S4	G5	2001-08-25	30994
<u>Fimbristylis autumnalis</u> (Autumn Fimbristylis) #26 T31N R22W S5, T32N R22W S32, T32N R22W S33, T31N R22W S4; Anoka County		SPC			S3	G5	2001-08-22	30674
<u>Fimbristylis autumnalis</u> (Autumn Fimbristylis) #28 T31N R22W S5, T31N R22W S4; Anoka County		SPC			S3	G5	2001-08-24	30990
<u>Fimbristylis autumnalis</u> (Autumn Fimbristylis) #29 T31N R22W S5, T31N R22W S4; Anoka County		SPC			S3	G5	2002-08-22	30992
<u>Platanthera flava var. herbiola</u> (Tuberclad Rein-orchid) #73 T31N R22W S9; Anoka County		THR			S2	G4?T4Q	2012-07-20	37241
<u>Potamogeton bicupulatus</u> (Snailseed Pondweed) #16 T31N R22W S4; Anoka County		END			S1	G4	2008-08-15	35064

Minnesota Natural Heritage Information System
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T31N R22W Section 1-3, 10-14, 24, & 25
Anoka County

Rare Features Database:

Element Name and Occurrence Number	Federal Status	MN Status	Draft Status	SGCN Status	State Rank	Global Rank	Last Obs Date	EO ID #
Native Plant Community (This may not represent a complete list. Also see MCBS Native Plant Communities at http://deli.dnr.state.mn.us .)								
<u>Alder - (Maple - Loosestrife) Swamp Type</u> #959 T31N R22W S3, T31N R22W S10; Anoka County		(NPC Code: FPn73a)		N/A		SNR	GNR	1989-08-15 9959
<u>Low Shrub Poor Fen Type</u> #18 T32N R22W S34, T32N R22W S35, T31N R22W S2, T31N R22W S10, T [...]; Anoka County		(NPC Code: APn91a)		N/A		S5	GNR	1976-09 9573
<u>Tamarack Swamp (Southern) Type</u> #6 T31N R22W S10; Anoka County		(NPC Code: FPs63a)		N/A		S3	GNR	1989-08-15 9948
<u>Tamarack Swamp (Southern) Type</u> #7 T31N R22W S36; Anoka County		(NPC Code: FPs63a)		N/A		S3	GNR	1990-09-26 11535
<u>Willow - Dogwood Shrub Swamp Type</u> #910 T32N R22W S34, T32N R22W S33; Anoka County		(NPC Code: WMn82a)		N/A		S4	GNR	1989-08-03 9952
<u>Willow - Dogwood Shrub Swamp Type</u> #1319 T31N R22W S36, T31N R22W S35; Anoka County		(NPC Code: WMn82a)		N/A		S4	GNR	1990-09-26 11534

Records Printed = 30

Minnesota's endangered species law (*Minnesota Statutes*, section 84.0895) and associated rules (*Minnesota Rules*, part 6212.1800 to 6212.2300 and 6134) prohibit the taking of threatened or endangered species without a permit. For plants, taking includes digging or destroying. For animals, taking includes pursuing, capturing, or killing.

An Explanation of Fields:

Element Name and Occurrence Number: The Element is the name of the rare feature. For plant and animal species records, this field holds the scientific name followed by the common name in parentheses; for all other elements it is solely the element name. Native plant community names correspond to Minnesota's Native Plant Community Classification (Version 2.0). The Occurrence Number, in combination with the Element Name, uniquely identifies each record.

Federal Status: The status of the species under the U.S. Endangered Species Act: LE = endangered; LT = threatened; LE,LT = listed endangered in part of its range, listed threatened in another part of its range; LT,PDL = listed threatened, proposed for delisting; C = candidate for listing. If null or 'No Status,' the species has no federal status.

MN Status: The legal status of the plant or animal species under the Minnesota Endangered Species Law: END = endangered; THR = threatened; SPC = special concern; NON = tracked, but no legal status. Native plant communities, geological features, and colonial waterbird nesting sites do not have any legal status under the Endangered Species Law and are represented by a N/A.

Draft Status: Proposed change to the legal status of the plant or animal species under the Minnesota Endangered Species Law: END = endangered; THR = threatened; SPC = special concern; Watchlist = tracked, but no legal status.

Minnesota Natural Heritage Information System
Index Report of records within 1 mile radius of:
ERDB# 20150232 - I-35E Corridor AUAR Update
T31N R22W Section 1-3, 10-14, 24, & 25
Anoka County

SGCN Status: SGCN = The species is a Species in Greatest Conservation Need as identified in Minnesota's State Wildlife Action Plan (<http://www.dnr.state.mn.us/cwcs/index.html>). This designation applies to animals only.

State Rank: Rank that best characterizes the relative rarity or endangerment of the taxon or plant community in Minnesota. The ranks do not represent a legal status. They are used by the Minnesota Department of Natural Resources to set priorities for research, inventory and conservation planning. The state ranks are updated as inventory information becomes available. S1 = Critically imperiled in Minnesota because of extreme rarity or because of some factor(s) making it especially vulnerable to extirpation from the state. S2 = Imperiled in Minnesota because of rarity or because of some factor(s) making it very vulnerable to extirpation from the state. S3 = Vulnerable in Minnesota either because rare or uncommon, or found in a restricted range, or because of other factors making it vulnerable to extirpation. S4 = Apparently secure in Minnesota, usually widespread. S5 = Demonstrably secure in Minnesota, essentially ineradicable under present conditions. SH = Of historical occurrence in the state, perhaps having not been verified in the past 20 years, but suspected to be still extant. An element would become SH without the 20-year delay if the only known occurrences in the state were destroyed or if it had been extensively and unsuccessfully looked for. SNR = Rank not yet assessed. SU = Unable to rank. SX = Presumed extinct in Minnesota. SNA = Rank not applicable. S#S# = Range Rank: a numeric range rank (e.g., S2S3) is used to indicate the range of uncertainty about the exact status of the element. S#B, S#N = Used only for migratory animals, whereby B refers to the breeding population of the element in Minnesota and N refers to the non-breeding population of the element in Minnesota.

Global Rank: The global (i.e., range-wide) assessment of the relative rarity or imperilment of the species or community. Ranges from G1 (critically imperiled due to extreme rarity on a world-wide basis) to G5 (demonstrably secure, though perhaps rare in parts of its range). Global ranks are determined by NatureServe, an international network of natural heritage programs and conservation data centers.

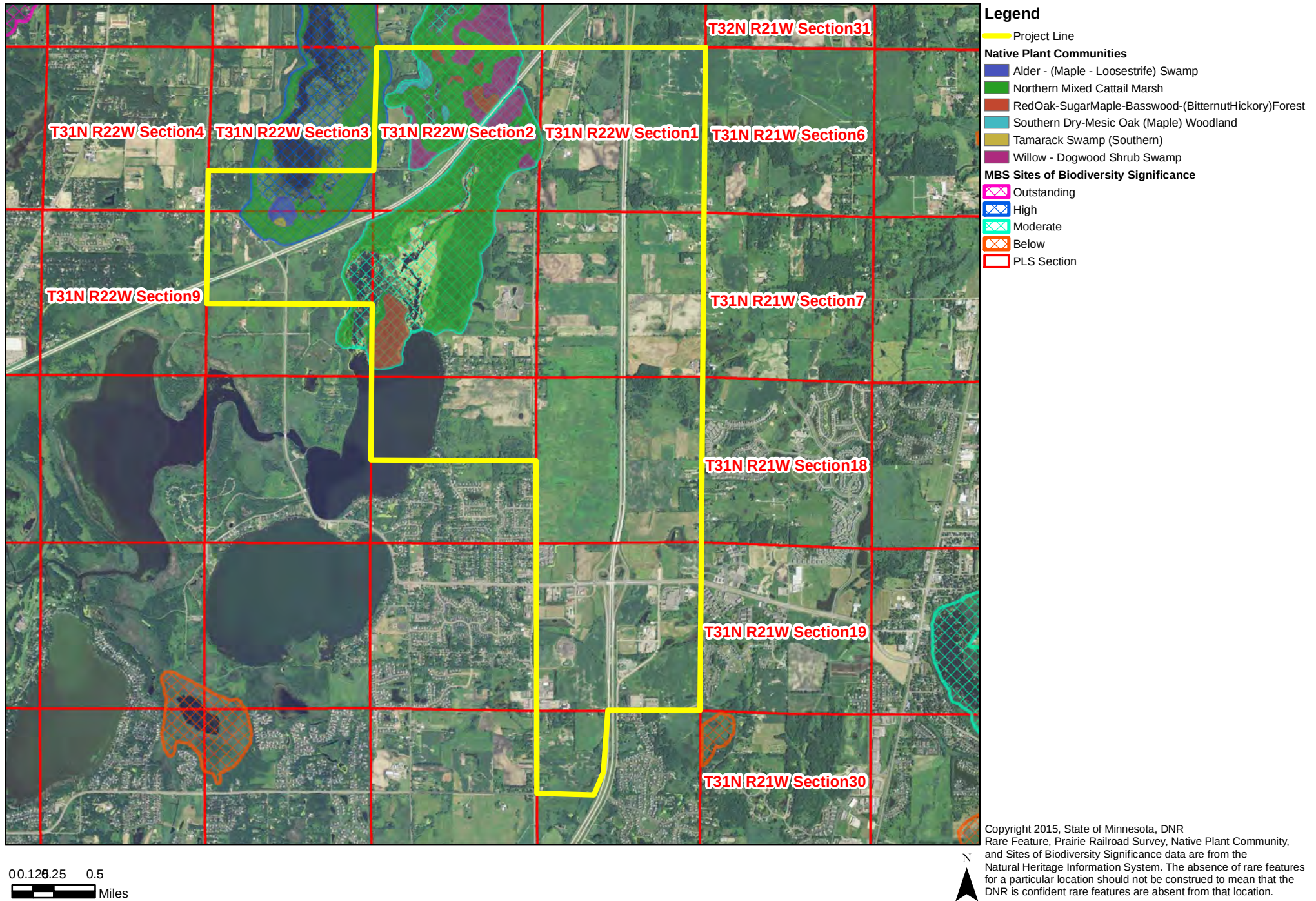
Last Observed Date: Date that the Element Occurrence was last observed to be extant at the site in format YYYY-MM-DD.

EO ID #: Unique identifier for each Element Occurrence record.

Element Occurrence: An area of land and/or water in which an Element (i.e., a rare species or community) is, or was, present, and which has practical conservation value for the Element as evidenced by potential continued (or historical) presence and/or regular recurrence at a given location. Specifications for each species determine whether multiple observations should be considered 1 Element Occurrence or 2, based on minimum separation distance and barriers to movement.

ERDB# 20150232 - I-35E Corridor AUAR Update T31N R22W Section 1-3, 10-14, 24, & 25 Anoka County

GIS shapefiles of MBS Sites of Biodiversity Significance and MBS Native Plant Communities can be downloaded from the DNR Data Deli at <http://deli.dnr.state.mn.us>.



Archaeological Site Locations

Site Number	Site Name	Twp.	Range	Sec.	Quarter Sections	Acres	Phase	Site Description	Tradition	Context	Reports	NR	CEF	DOE
County: Anoka														
21AN0003		31	22	11	C-S-S	18	2	EW, AS	W-1	Ps-2, SO-2	AN-01-11			
21AN0037	Paul	31	22	10	SE-NE-NW-SE,SE-NE-SW-NE	16	1	AS	W-1					
21AN0040	Cartier	31	22	10	SW-SE-SE	60	1	AS	A-2, W-	AL-2, HR-1, LW-2	AN-02-03			
21AN0041		31	22	10	SW-NE-SW	25	1	AS	W-1	RA-1				
		31	22	10	N-S-SW	25	1	AS	W-1	RA-1				
		31	22	10	SE-NW-SW	25	1	AS	W-1	RA-1				
21AN0049	Dupre	31	22	14	SW-NW-SW	21	1,2	AS	PL-1,A-1,W-1	PL-1,AL-1,HR-2,SO-1,Ka-2				
	Dupre	31	22	14	NW-SW-SW	21	1,2	AS	PL-1,A-1,W-1	PL-1,AL-1,HR-2,SO-1,Ka-2				
21AN0060	Peltier Island	31	22	11	W-SW	50	2	AS	W-1	MW-1	AN-02-03			
21AN0067		31	22	3	SW-SE-NE-NW	3	1	AS	A-1					
21AN0071	(overlaps w/21AN72)	31	22	14	SE-NE-SE-NW	1	1	AS	W-2	MW-2				
21AN0072	(overlaps w/ 21AN71)	31	22	14	NE-SE-SE-NW	1	1	AS	W-2	MW-2				
21AN0083		31	22	2	S-NE-SW, N-SE-SW	15	1	AS	W-1					
21AN0089		31	22	10	C-NE-NW-NW	3	1	LS	A-2					
21AN0090		31	22	2	C-N-NW-SW	6	1	AS	W-1					
21AN0091		31	22	2	S-NW-NE-NW, N-SW-NE-NW	5	1	AS	W-1, O-					
21AN0095		31	22	2	SE-SE; E-NW-NE-NE	24	1	AS	W-1	LW-1				

Site Number	Site Name	Twp.	Range	Sec.	Quarter Sections	Acres	Phase	Site Description	Tradition	Context	Reports	NR	CEF	DOE
County: Anoka														
21AN0095		31	22	11		24	1	AS	W-1	LW-1				
21AN0130	Iverson I	31	22	25	NE	0	5	LS						
21AN0132	Iverson III	31	22	12	NE-NE	0	5	LS						
21AN0143		31	22	14	SW-SE-SW	2.4	1	AS,LS	A-3,W-1		AN-97-02			
21AN0168	Paul Farm (east)	31	22	10	SW-SE	19	1	AS	W-1	RA-1				
21AN0174	Old Willow	31	22	1	SW-SW-NW-SW	0.1	1	LS						
21ANd		31	22	14	C-SW		5	LS						

History/Architecture Inventory

PROPERTY NAME	ADDRESS	Twp	Range	Sec	Quarters	USGS	Report	NRHP	CEF	DOE	Inventory Number
COUNTY: Anoka											
CITY/TOWNSHIP: Centerville											
house	7238 Main St.	31	22	14	SW-SW	Centerville	AN-2005-1H				AN-CVC-009
CITY/TOWNSHIP: Lino Lakes											
Bridge 02803	CSAH 14 over I35 E 3.6 miles south of Junction TH 35W	31	22	24	NW-SE	Centerville					AN-LKC-007
Bridge 9830	CSAH 14 over I35 W 2.2 miles NE of Junctin TH49	31	22	10	NW-SE	Centerville					AN-LKC-009
Bridge 02802	CR 140 over I 35E 1.5 miles S of Junction TH 35W	31	22	12	NE-NW	Centerville					AN-LKC-011
COUNTY: Washington											
CITY/TOWNSHIP: Hugo											
farmstead	corner of Main St. and Otter Tail Rd.	31	22	24	NW-SW-NE	Centerville	XX-2002-2H				WA-HGC-009

APPENDIX C: Potential Environmental Hazards

Memorandum

To: *Andi Moffatt, WSB & Associates, Inc.*

From: *Ryan Spencer, WSB & Associates, Inc.*

Date: *January 29, 2015*

Re: *Lino Lakes I-35E Corridor
Contamination Review
Lino Lakes, MN
WSB Project No.: 2029-950*

WSB reviewed available public Minnesota Pollution Control Agency (MPCA) database information to identify verified or potentially contaminated sites located within or adjoining the Lino Lakes I-35E Corridor located in Lino Lakes, MN (see **Figure 1**). The following regulatory databases were reviewed on January 28, 2015 as part of this investigation:

- MPCA "What's in My Neighborhood?" website search
- MPCA Storage Tank Leak site website search

Project Area Listings

Thirty five (35) total database listing were identified within the proposed project area (see **Figure 2**). The majority of these listings were for stormwater permits (17 construction and 2 industrial) indicating permits are in place to reduce surface water erosion and pollution during and after construction. Nine (9) of the project area listings were for small quantity hazardous waste generators, which means the site generates 0-1,000 kilograms of hazardous waste per year and seven (7) project area listing were multiple activities indicating the sites are listed on more than one MPCA database. None of the identified project area listings indicate a hazardous material spill or release except for the following:

- Site 1 – Eagle Trucking (7087 20th Avenue, Centerville, MN) was identified on the leak database. The identified leak (ID 13133) was discovered in 1999, consisted of diesel, and was issued site closure by the MPCA in 2000. Site closure does not mean that the site is free of contamination.
- Site 15 – Clearwater Creek Convenience Center (7090 21st Avenue South, Lino Lakes, MN) was identified on the leak database. The identified leak (ID 13380) was discovered in 2000, consisted of gasoline type unknown, did not impact groundwater, and was issued site closure by the MPCA in 2003.

- Site 16 – Rehbie Properties (6805 20th Avenue South, Centerville, MN) was identified on the leak database. The identified leak (ID 15707) was discovered in 2003, consisted of diesel, did not impact groundwater, and was issued site closure by the MPCA in 2006.
- Site 27 – Acton Construction (2209 Phelps Road, Lino Lakes, MN) was identified on the leak and voluntary investigation and cleanup (VIC) databases. The identified leak (ID 1284) was discovered in 1989, consisted of fuel oil 1 & 2 and leaded gasoline, impacted groundwater, and was issued site closure by the MPCA in 1992. The site was reportedly entering into the VIC Program (ID VP3340) from 1992 to 1997.

Adjoining Property Listings

Six (6) database listings were identified on sites adjoining the project area within 500 feet (see **Figure 2**). Three (3) of the adjoining listings were for small quantity hazardous waste generators, one (1) listing was for a construction stormwater permit, one (1) listing was for a leak, and one (1) listing was for a multiple activity. None of the identified adjoining listings indicate a hazardous material spill or release except for the following:

- Site 17 – Mcneely Residence (6687 20th Avenue South, Lino Lakes, MN) was identified on the leak database. The identified leak (ID 15090) was discovered in 2003, consisted of fuel oil 1 & 2, and was issued site closure by the MPCA in 2005. Site closure does not mean that the site is free of contamination.
- Site 19– Jim Stevens Construction (7007 20th Avenue, Centerville, MN) was identified on the leak database. The identified leak (ID 9694) was discovered in 1996, consisted of diesel and gasoline type unknown, and was issued site closure by the MPCA in 1998.

Conclusion

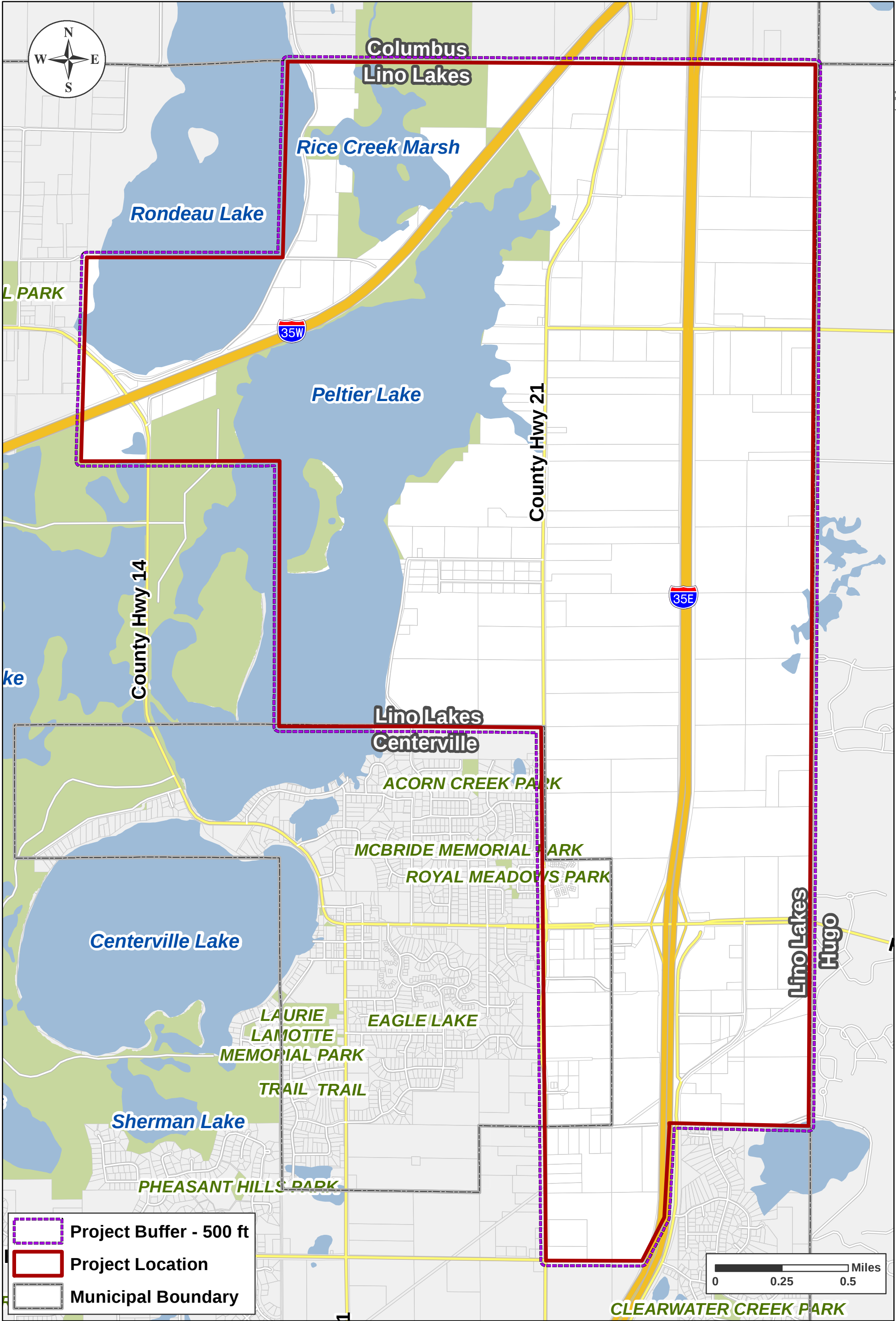
Thirty five (35) database listing were identified within the project area and six (6) adjoining listings were identified within 500 feet of the project area. Based on the this review, all identified project area leaks (Sites 1, 15, 16, and 27) and adjoining leak/VIC listings (Sites 17 and 19) pose a contamination risk if future redevelopment involves excavation in the vicinity of these sites. Prior to redevelopment in the vicinity of the identified leak/VIC sites, it is recommended that subsurface environmental investigations be conducted to determine if contaminated soil and/or groundwater will need to be managed during redevelopment.

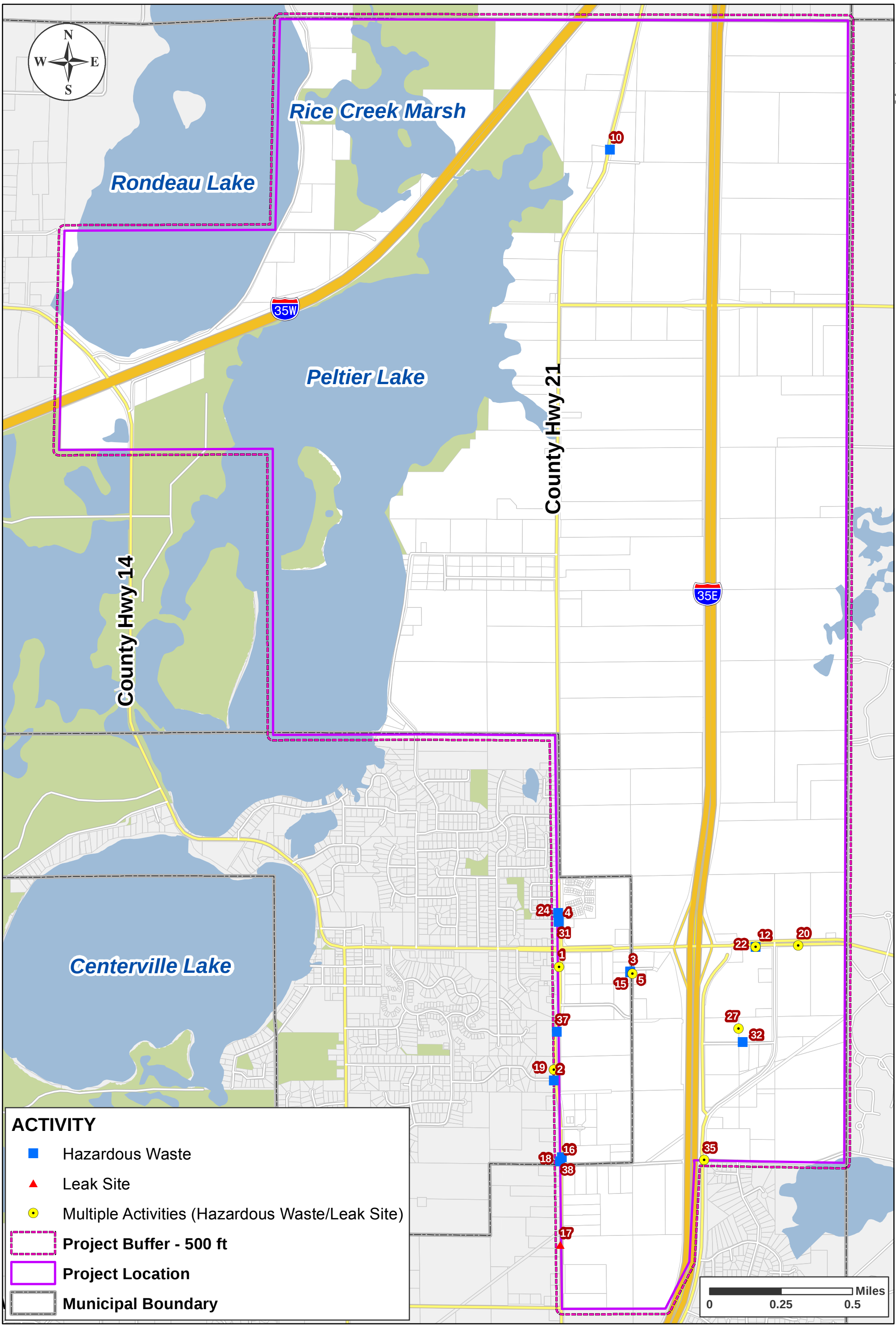
If you have any questions or need additional information, please contact me at 763-231-4854 or rspencer@wsbeng.com.

Enclosures:

Figure 1 – Project Location Map

Figure 2 – MPCA What's In My Neighborhood Search Result Map





Lino Lakes I-35E Corridor AUAR
Figure 2 – MPCA WIMN Search Results



APPENDIX D: Mitigation Plan

MITIGATION PLAN

The AUAR Mitigation Plan is outlined below. If mitigation items have been revised or updated, they are noted as such below.

ITEM 8. PERMITS AND APPROVALS REQUIRED

As projects are proposed, the project proposer will be required to obtain permits and approvals. Projects proposed since the original AUAR have obtained proper approvals. Additional permits that may not be listed here may also be required.

Unit of Government	Type of Application	Status
Federal		
Army Corps of Engineers	Section 404 Permit	To be Applied for
	Letter of No Wetland Jurisdiction	To be Applied for
Federal Highway Administration	Interchange Access Request	To be Applied for
State		
Minnesota Environmental Quality Board	Environmental Assessment (AUAR)	Completed 2005
		Updated 2010
		Updated 2015
Minnesota Board of Soil and Water Resources	Erosion and Sediment Control Plan Approval	To be Applied for
Minnesota Pollution Control Agency	Section 401 Water Quality Certificate	To be Applied for
	NPDES/SDS General Permit	To be Applied for
	Sanitary Sewer Extension Permit	To be Applied for
State Historic Preservation Office	Cultural Resources Review	To be Applied for
Minnesota Department of Natural Resources	Storm Sewer Discharge Permit	To be Applied for
	Water Appropriations Permit	To be Applied for
	Public Waters Work Permit	To be Applied for

Unit of Government	Type of Application	Status
	General Permit 97-0005 for Temporary Water Appropriations (need if more than 10,000 gpd of water is appropriated)	To be applied for, if necessary
Minnesota Department of Transportation	Use of or Work within MnDOT right of way Drainage Permit	To be Applied for To be Applied for
Minnesota Department of Health	Watermain Extension Approval Sanitary Sewer Extension Permit Approval Well Location and Construction Approval	To be Applied for To be Applied for To be Applied for
Regional		
Rice Creek Watershed District	Erosion and Sediment Control Plan Approval Stormwater Management Plan Approval Wetland Delineation Boundary Confirmation Drainage Authority Review and Approval – Mn. Stat. Section 103E.227 (impoundments & diversion) and/or Mn. Stat. Section 103E.805 (abandonment proceedings) Certificate of Wetland Exemption	To be Applied for To be Applied for To be applied for upon completion of wetland delineation To be applied for To be Applied for
Metropolitan Council	Sanitary Sewer Service Connection Approval Comprehensive Plan Amendment Review	To be Applied for To be Applied for
County		
Anoka County	County Roadway Access Permits Roadway Plan Approval on County Roads	To be Applied for To be Applied for

Unit of Government	Type of Application	Status
Local		
City of Lino Lakes	Site Plan Approval	To be Applied for
	AUAR and Mitigation Plan Approval	Adopted
	Planned Unit Development Approval	To be Applied for
	Preliminary Plat Approval	To be Applied for
	Final Plat (multiple) Approval	To be Applied for
	Grading, Excavation and Foundation Permits (multiple)	To be Applied for
	Building Permits (multiple)	To be Applied for
	Sanitary Sewer Connection Permit (multiple)	To be Applied for
	Municipal Water Connection Permit (multiple)	To be Applied for
	Use Permit – Floodplain District	To be Applied for
	City Roadway Access/Crossing Permits	To be Applied for
	Comprehensive Plan Amendment(s)	To be Applied for

ITEM 11. FISH, WILDLIFE, ECOLOGICALLY SENSITIVE RESOURCES

Item No.	Mitigation Description	Update
11.1	Implement the Conservation Design Framework (CDF, see Figure 10-3), which includes conservation of “Core” and “Outlier” habitat areas, buffering these natural resources, and establishing greenway corridors throughout the AUAR area to provide connectivity for ecological and wildlife corridors, regional stormwater collection and conveyance, and passive recreational opportunities	This mitigation measure is ongoing
11.2	Add the “Core” and “Outlier” habitat areas to the City’s <i>Parks, Natural Open Space/Greenways, and Trail System Plan</i> map.	This has been added to Fig 2-9 in the Comprehensive Plan.
11.3	Require public land dedication of priority natural open space areas through the subdivision process.	This mitigation measure is ongoing
11.4	Require that cash in lieu of public land dedication for subdivisions within the AUAR area be spent within the AUAR area to purchase, restore, and/or maintain priority natural open space areas.	This mitigation measure is ongoing
11.5	Consider provisions for conserving “Other” habitat areas (see Figure 10-2) during the development review process.	This mitigation measure is ongoing
11.6	Establish mechanisms for ecological restoration, management, stewardship, and education.	This mitigation measure is ongoing and implemented through the Comprehensive Wetland Protection and Management Plan
11.7	Provide for turtle and other wildlife passage by continuing to require surmountable curbing in new residential developments and encouraging ecologically sensitive site design.	This mitigation measure is ongoing. Residential developments that have occurred within the study area have all incorporated surmountable curbs.

11.8	Consult with the DNR and/or US Fish and Wildlife Service to determine appropriate mitigation strategies for activities near the Bald Eagle's nests within the AUAR area before development occurs within the vicinity of the nests, including reviewing recommended disturbance limit guidelines developed by the DNR.	This mitigation measure is ongoing
11.9	Continue to enforce the Peltier Lake No-Wake Zone ordinance and establish buffers to protect the Peltier Lake Heron Rookery.	This mitigation measure is ongoing
11.9A Added	The City will limit development within 300 meters of the edge of a heron colony and not allow disturbance in or near colonies from March to August	Measure was included in original AUAR within the text.
11.10	Require rare plant surveys, by qualified personnel, prior to development in wetland areas and of areas of banded soils between muck soils and adjacent Isanti, Soderville, or Zimmerman soil map units. These surveys shall be conducted by qualified professionals at an appropriate time of year to identify the rare plants.	This mitigation measure is ongoing
11.11	Encourage ecologically sensitive design and construction practices for the proposed northerly bypass that would connect I-35W and I-35E.	This mitigation measure is ongoing
11.12 Added	Implement the Conservation Design Framework (CDF) of the AUAR (Figure 10-3 and 10-2). The CDF includes consideration of: • Conservation of the most ecologically significant natural resources within the AUAR area (in particular, the "Core" and "Outlier" habitats as shown in Figure 10-2 of the original AUAR). • Protection of ecologically significant natural resources from adjacent land uses by implementing buffering. • Connection of ecologically significant natural resources via multi-functional greenway corridors.	Measure was included in original AUAR within the text.

ITEM 12. WATER RESOURCES: WETLANDS

Item No.	Mitigation Description	Update
12.1	Delineate wetlands in accordance with the Corps of Engineers Wetlands Delineation Manual and classify wetlands according to Wetlands of the United States (Circular 39) and Wetlands and Deepwater Habitats of the United States.	This mitigation measure is ongoing
12.2	Follow sequencing process of wetland avoidance, minimization, rectification, and mitigation as outlined in the Wetland Conservation Act (WCA) if wetlands area altered.	This mitigation measure is ongoing
12.3	Apply for applicable wetland permits to obtain authorization for wetland alterations under WCA and Section 404 prior to project construction if development activities will impact a jurisdictional wetland.	This mitigation measure is ongoing
12.4	Mitigate areas of wetland impacts according to the requirements of the Wetland Conservation Act.	This mitigation measure is ongoing
12.5	Submit wetland permit applications and replacement plans, as appropriate, to the Minnesota Board of Water and Soil Resources, Rice Creek Watershed District, and the City of Lino Lakes.	This mitigation measure is ongoing
12.6	Follow the requirements for wetland alterations delineated by the Rice Creek Watershed District (RCWD).	This mitigation measure is ongoing
12.7	Minimize or avoid totally any filling of public waters through careful design.	This mitigation measure is ongoing

ITEM 13. WATER USE

Item No.	Mitigation Description	Update
13.1	Monitor water usage and do not permit new development to proceed if it exceeds the capacity of the water supply and distribution system.	This mitigation measure is ongoing
13.2	Construct the water supply and distribution system in accordance with Minnesota Department of Health standards and with the goals, policies, and recommendations set forth in the city's Comprehensive Water System Plan.	This mitigation measure is ongoing
13.3	As necessary, amend the city's Comprehensive Water System Plan and Capital Improvement Plan to be consistent with any future amendments or updates to the Comprehensive Plan that would necessitate expansions or alterations to the water system.	This mitigation measure is ongoing. No updates have been needed to date for the study area.
13.4	Prepare a Wellhead Protection Plan amendment for new wells and follow the adopted wellhead protection plans for Lino Lakes and Centerville.	The City is in the process of updating its Wellhead Protection Plan. Part 1 has been approved by Minnesota Department of Health and Part 2 has been submitted and is pending approval.
13.5	Require abandoned private wells to be sealed in compliance with the Minnesota Department of Health regulations	This mitigation measure is ongoing
13.6	Require that the installation of any private individual wells be constructed and installed in accordance with the Minnesota Department of Health regulations (Minnesota Well Code).	This mitigation measure is ongoing
13.7	Continue to implement the City's adopted water conservation policies which are intended to attenuate peak water demands throughout the City.	This mitigation measure is ongoing
13.8 Added	Mitigation will be regulated through the city's development approval and permitting process. Proposed master development plans, planned unit development and subdivision applications, plats, and/or site plans must address relevant water	Measure was included in original AUAR within the text.

	conservation mitigation measures prior to final approval by the city. Implementation of mitigation measures will be assured through developer agreements with the city, which will require a financial security for land and infrastructure improvements and/or revoke the right to acquire building permits and/or certificates of occupancy until all relevant mitigation measures have been addressed.	
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ITEM 15. WATER SURFACE USE

Item No.	Mitigation Description	Update
15.1	Consider restricting individual lake access and dock construction along public and private shorelands by encouraging the use of clustered access and dock facilities.	This mitigation measure is ongoing

ITEM 16. EROSION AND SEDIMENTATION

Item No.	Mitigation Description	Update
16.1	Require project proposers to acquire NPDES/SDS General Stormwater Permit for Construction Activity from the MPCA prior to initiating earthwork.	This mitigation measure is ongoing
16.2	Require project proposers to meet the erosion and sediment control regulations in all applicable regulations, ordinances and rules of the city and MPCA, and Rice Creek Watershed District.	This mitigation measure is ongoing
16.3	Require project proposers to minimize runoff, improve the quality of runoff, and provide erosion control through BMPs and other low impact development techniques.	This mitigation measure is ongoing
16.4	Provide construction oversight to ensure designed sediment and erosion control measures are being implemented.	This mitigation measure is ongoing

16.5	Implement the Conservation Design Framework (CDF, Figure 10-3).	This mitigation measure is ongoing
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ITEM 17. WATER QUALITY: SURFACE WATER RUNOFF

Item No.	Mitigation Description	Update
17.1 DELETED	Work with project proposers to establish a regional stormwater management system within the Conservation Design Framework (CDF, see Figure 10-3) that consists of vegetated swales, wet prairies, and wetlands oriented in series to effectively retard runoff rates, reduce stormwater volume, and enhance water quality.	This measure has been removed as the RCWD rules supersede this mitigation measure.
17.2 DELETED	Work with project proposers to disperse collection, conveyance, and management of stormwater runoff as much as possible throughout the AUAR site through the use of bio-swales, rain gardens, and infiltration areas.	This measure has been removed as the RCWD rules supersede this mitigation measure.
17.3	Require stormwater management systems to be developed in accordance with the current version of the Rice Creek Watershed District Rules. These rules assist in achieving the goals of the Resource Management Plan – 3 that was added into the AUAR Update 2005.	Updated to be inclusive of the current version of the rules. The RCWD rules are intended to meet the goals of the Resource Management Plan-3 that was included in the 2010 AUAR Update.
17.4 DELETED	Require project proposers to design stormwater management areas (SMAs) to support native vegetation and maintain runoff rates at or below pre-development conditions.	This measure has been removed as the RCWD rules supersede this mitigation measure.
17.5 - DELETED	Require project proposers to design stormwater management systems that can achieve proposed conditions runoff volumes that are no less than 80% and no greater than 150% of existing conditions runoff volumes.	This measure has been removed as the RCWD rules supersede this mitigation measure.
17.6 DELETED	Encourage project proposers to use techniques that produce no net increases in total phosphorus content of proposed conditions runoff relative to existing conditions.	This measure has been removed as the RCWD rules supersede this mitigation measure.

	runoff.	
17.7 DELETED	Require project proposers to provide detailed topographic information with a contour interval of 1-foot and drain tile mapping.	This measure has been removed as the RCWD rules supersede this mitigation measure.
17.8 DELETED	Require project proposers to disperse outflow from stormwater management facilities to prevent erosion and failure of outlet structures. Make attempts to simulate sheet flow at these locations as opposed to concentrated flows.	This measure has been removed as the RCWD rules supersede this mitigation measure.
17.9 DELETED	Require project proposers to use conservation development design and/or low-impact development techniques, and ecological stormwater management techniques.	This measure has been removed as the RCWD rules supersede this mitigation measure.
17.10 DELETED	Require project proposers to limit the amount and connectedness of impervious surfaces and direct runoff into vegetated landscape areas including swales, prairies, and other infiltration.	This measure has been removed as the RCWD rules supersede this mitigation measure.
17.11 DELETED	Require project proposers to use stormwater management techniques that encourage infiltration of stormwater runoff and groundwater recharge, whenever possible, to maximize the infiltration potential of the site.	This measure has been removed as the RCWD rules supersede this mitigation measure.

ITEM 18. WATER QUALITY: WASTEWATER

Item No.	Mitigation Description	Update
18.1	Monitor wastewater flows and not permit new development to proceed if it exceeds the capacity of the wastewater system.	This mitigation measure is ongoing
18.2	Construct the major infrastructure improvements needed to expand the capacity of the wastewater system (i.e. lift stations, forcemains, and upgrades to the existing systems) in accordance with the Comprehensive Sanitary Sewer Plan and Capital Improvement Plan.	This mitigation measure is ongoing
18.3	Adequately phase capacity improvements.	This mitigation measure is ongoing
18.4	Amend the Comprehensive Sanitary Sewer Plan and Capital Improvement Plan to be consistent with any amendments to the Comprehensive Plan that would necessitate expansions or alterations to the sanitary sewer system and regional capacity needs.	This mitigation measure is ongoing. No updates have been needed to date for the study area.
18.5 Added	Each proposed development will be required to provide a detailed projection of wastewater generation and flows. These calculations will be checked by the City's Engineering Consultant.	Measure was included in original AUAR within the text.
18.6 Added	The City will create a year-end report to evaluate wastewater increases by major sewer lines and overall system usage in relation to capacity. Results of this assessment will become the targets for growth for the following year.	Measure was included in original AUAR within the text.

ITEM 19. SOIL AND GROUNDWATER CONTAMINATION

Item No.	Mitigation Description	Update
19.1	Require the removal of all tanks and associated underground piping in accordance with applicable state and federal laws.	This mitigation measure is ongoing
19.2	Require that any party that may discover residual petroleum contamination shall follow state law and report the information to the MPCA for further investigation and potential remediation.	This mitigation measure is ongoing

ITEM 21. TRANSPORTATION

Item No.	Mitigation Description	Update
21.1	Create a monitoring program that closely evaluates traffic impacts from proposed developments within the AUAR area.	Traffic Impact Studies are required for proposed developments showing the impact on the transportation system and consistency with the AUAR.
21.2	Implement traffic mitigation measures as development occurs within the AUAR area. Specific mitigation measures for the three development scenarios are discussed in Item 21 and depicted on Figures 21-8, 21-9, and 21-10. These mitigation measures improve overall traffic operations for the respective development scenarios. The improvements are intended to represent the minimum level of infrastructure investment that would be needed to meet acceptable level of service standards. Additional roadway and non-motorized improvements, beyond the minimum level, may be identified to accommodate specific development needs that are identified within the AUAR area.” Primary improvements, regardless of land use scenario, include: 21.2.1 Develop frontage road system in compliance with local, county and state access management guidelines to serve local and regional traffic.	CSAH 14 improvement was completed in 2009 and noted in the 2010 AUAR Update CSAH 54 (formerly CSAH 21) 20th Avenue North intersection improvements were completed and noted in the 2010 AUAR Update. I-35E Interchange reconstruction was completed in 2011. This mitigation measure is complete.

	21.2.2 Work with appropriate road authorities to reconstruct and provide additional capacity for CSAH 21. 21.2.3 Work with appropriate road authorities to construct Northerly Bypass with new interchanges at I-35W and I-35E (80th Street East) to improve traffic operations and access to and within the AUAR area. As recommended by FHWA and Mn/DOT, a phasing plan should be established to construct each piece of the Northerly Connector as it becomes necessary to maintain the serviceability of the transportation system.¹ <u>Phase Improvement</u> 1. CSAH 14, I-35W to I-35E (funded and programmed for construction) 2. CSAH 14, I-35E Interchange 3. CR 140 (80th Street)/I-35E Interchange 4. CSAH 14 across Peltier Lake (Northerly Bypass/Connector) 5. CSAH 14/I-35W Interchange As part of these improvements, the following steps should be taken as the opportunity is presented: ▪ Inclusion of the northerly bypass and proposed interchanges in future transportation and comprehensive plans ▪ Preservation of right of way through official mapping or other process ▪ Right of way dedication through the platting process	
21.3	Require a traffic impact analysis for all development projects within the AUAR area. The traffic impact analysis will assist the City and other road authorities in determining the appropriate mitigation measures that are required to mitigate	This mitigation measure is ongoing

¹ CSAH 14 Alternative Analysis Report – July, 2004, SRF Consulting Group,

	impacts of a specific development proposal.	
21.4	Work with appropriate road authorities to mitigate the impact of the additional traffic on the on the regional system, specifically Interstates 35W and 35E, by reconstructing each to provide a six-lane cross-section consistent with the recommendations outlined in the I-35 IRC. It should be noted that it was determined that an expansion will be necessary even without the development scenarios used in this analysis. As the interstates serve a much larger area, the projected growth of the entire Twin Cities region should warrant expansion by the year 2030.	This mitigation measure is ongoing
21.5	Prioritize alternative travel modes within the AUAR study area and require project proposers to address alternative travel modes (e.g., buses, bicyclists, and pedestrians) by identifying appropriate accommodations.	This mitigation measure is ongoing.
21.6	Consider the need for additional infrastructure improvements (see item #21.2) in future updates or amendments to the Comprehensive Plan. Submit the plan update to the appropriate agencies (i.e., FHWA, MnDOT, Met Council, etc.).	This mitigation measure is ongoing
21.7	Require project proposers to follow all appropriate guidelines and policies related to traffic nose and noise walls.	This mitigation measure is ongoing
21.8	Require that site plans for each of the developments include measures such as appropriate setback distances, earthen berms, noise walls, and appropriate site design to reduce the impact of traffic noise to residential areas.	This mitigation measure is ongoing
21.9	Continue to require the implementation of the conditions of approval for the Eagle Brook Church relating to mitigating traffic impacts.	This mitigation measure is ongoing.
21.10	Achieve effective traffic operations within the city by requiring that site plans make use of access management practices to promote safe, effective traffic flow.	This mitigation measure is ongoing
21.11	Require project proposers to follow the Anoka County Highway Department Development Review Process Manual (updated June 2013.)	This mitigation measure is ongoing and has been updated to reflect the newest manual.

21.12	Continue to coordinate capital improvement programming with applicable transportation authorities.	This mitigation measure is ongoing
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ITEM 25. CULTURAL RESOURCES

Item No.	Mitigation Description	Update
25.1	Consult the map that shows areas with a high potential for archaeological sites when development applications are submitted for review. Given the sensitive nature of this information, this map cannot be included in the AUAR document, nor can it be made available to the public. If a development application falls within an area that is considered to have a high potential for archaeological sites, the city will require that the following steps and procedures involved in the identification and analysis of any archaeological sites is followed prior to development: ▪ Conduct a Phase I archaeological survey within the area of potential effect (APE). The objective of the archaeological fieldwork is to determine if there are archaeological sites in the areas identified as having high potential for such, and define the extent of those sites that may be impacted by development plans. ▪ Conduct a Phase II archaeological survey. If archaeological resources are uncovered within the APE that may be eligible for listing on the National Register of Historic Places (NRHP) a Phase II survey should be conducted. The objective of the investigation is to determine whether archaeological resources are eligible for listing on the NRHP. ▪ Plan for avoidance or conduct Phase III data recovery. If a significant archaeological site is identified that will be impacted by development, avoidance is recommended. If this is not possible, then a data recovery of the site should occur. ▪ If human remains are recovered at any time during archaeological	This mitigation measure is ongoing.

	investigation or development, all activities must stop and consultation initiated with the Office of the State Archaeologist and Minnesota Indian Affairs Council.	
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ITEM 25. UNIQUE FARMLANDS

Item No.	Mitigation Description	Update
25.2	Consider preservation of agricultural heritage sites by implementing thoughtful interpretive planning. As development plans for the two Century Farms come to fruition, the City can encourage landscaping and other amenities that reflect the agricultural heritage of this city. In addition, the City can continue to reflect the agricultural heritage of the community in public buildings and gathering places (for example, City Hall reflects elements of the community's agricultural heritage).	This mitigation measure is ongoing.

ITEM 27. COMPATIBILITY WITH PLANS

Item No.	Mitigation Description	Update
27.1	Use the information contained in the AUAR during future considerations of updates or amendments to the adopted Comprehensive Plan and Zoning Ordinance. Any future consideration of amendments or updates to the Comprehensive Plan and Ordinances would follow the city's set procedures and guidelines for such amendments.	The City has completed the 2030 Comprehensive Plan amendment
27.2	Require that tools such as clustering, buffering, and/or screening be incorporated into future development plans to mitigate potential land use conflicts	This mitigation measure is ongoing