Attachment B

Wetland Delineation Report

Beltline Station Development

City of Saint Louis Park, Hennepin County, Minnesota

Prepared for:

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October 2019

Final

Kimley»Horn

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Appendices

Executive Summary

Wetland scientist Aaron Stolte (CWD #1297 with Kimley-Horn and Associates, Inc. conducted a wetland investigation and field delineation for the Beltline Station Development Project located in the City of Saint Louis Park, Hennepin County, Minnesota. The wetland investigation and delineation occurred on September 4, 2019. The study area, shown in **Figure 1,** included approximately 6 acres in the southeast corner of County State Aid Highway 25 and Beltline Boulevard in Saint Louis Park, MN.

In total, one wetland was delineated. The wetland is a Type 1 - Forested Basin located in the southwest corner of the study area. The wetland is mapped on the NWI which extends out farther than the delineated area. The wetland is not mapped as having hydric soils, but the contours depict a low area in the general vicinity of the delineated wetland. The wetland boundary was placed based on change in elevation and hydrology indicators.

1 Site Location

The study area, shown in **Figure 1**, included approximately 6 acres in the southeast corner of County State Aid Highway (CSAH) 25 and Beltline Boulevard in Saint Louis Park, Hennepin County, Minnesota.

2 Project Description

Sherman Associates Development, LLC is proposing to redevelop a 6-acre site at the existing Beltline Blvd and CSAH 25 intersection in St. Louis Park, Hennepin County, Minnesota. The proposed mixed-use redevelopment is anticipated to consist of four new buildings with vehicular access to the development from either Beltline Blvd or Minnesota 7 Service Rd.

3 Purpose of the Delineation

The purpose of this delineation was to identify the extent of wetlands and other aquatic resources within the study area. The information will be used to facilitate project design and determine if wetland impacts are avoidable and/or if minimization of impacts can result from design modifications.

4 Site Description

The study area consists of a vacant building site and a small wooded area. Land use on the site is commercial and industrial, with the proposed redevelopment being a mix of residential, commercial, and transit-oriented uses. Cover types within the study area generally consisted of wooded/forested areas with manicured and unmanicured vegetation.

5 Preliminary Investigation

Prior to field reconnaissance, potential wetland areas within the project study areas were identified through a desktop review of National Wetlands Inventory (NWI), aerial photography (2019), DNR Public Waters Inventory (PWI), LiDAR, and the soil survey for Hennepin County.

NWI mapping, available from the US Fish and Wildlife Service, identified one wetland within the project study area. The Minnesota Department of Natural Resources (DNR) Public Waters Inventory (PWI) shapefiles (2017) were reviewed and no DNR Public Watercourses were identified. The National Hydrography Dataset (NHD) was reviewed and no NHD flow lines were identified. LiDAR data was reviewed and shows NWI located in a depression. Maps showing NWI and LiDAR are shown in **Appendix A**.

According to the Natural Resources Conservation Service's (NRCS) *Web Soil Survey*, no soil mapping units with the project study areas were considered hydric or partially hydric. Maps and information obtained from the NRCS online web survey are included in **Appendix B**.

The project area is located in Sections 6 of Township 28N, Range 24W. This is depicted on the Hennepin County Minnesota 7.5 minute topographical map (USGS) (see **Figure 2**).

Precipitation data for the project study area was obtained from an online data retrieval system. The online system is maintained by the Climatology Working Group at the University of Minnesota (available at http://climateapps.dnr.state.mn.us/gridded_data/precip/wetland/wetland.asp). This information was used to determine the current hydrologic conditions for the project area and if those conditions are typical for

this time of year. Precipitation levels for the three months (June, July, and August) leading up to the field review on September 4 were compared to historical data. The data shows that June had drier than normal and July and August had wetter than normal precipitation levels, which constitutes wetter than normal precipitation levels for the site visit. This information is included in **Appendix C**.

6 Field Investigation

A routine level 2 (onsite) wetland delineation, as outlined in the 1987 Corps of Engineers Wetlands Delineation Manual (USACE, 1987) along with the Midwest regional supplement (August 2010) was performed for the project study areas.

During the onsite delineation, vegetation, soils, and current hydrologic characteristics were evaluated at within the study area. Wetland boundaries were flagged with wetland flags where one or more of the three criteria were no longer present. The sample point locations and wetland boundary was surveyed with a Trimble GPS and are shown in **Figure 3**. A transect was completed for all delineated wetlands.

The field data sheets are included in **Appendix D.** Site photos can be found in **Appendix E.**

7 Wetland, Tributary, and Upland Characteristics

The field delineation identified 1 wetland within the project study area. This area is described below.

Wetland 1 is a Type 1 — Forested Basin located in the southwest corner of the study area, 0.26 acres in size. The wetland did not have mapped hydric soils according to the Hennepin County Soil Survey; however, was depicted on the NWI. The wetland was dominated by cottonwood, common buckthorn, and boxelder. One transect was completed along the northern edge of the wetland. The wetland boundary was based on a change in topography and presence of primary hydrology indicators, in addition to hydric soil. The wetland appears to be an isolated depression with no outlet.

8 Regulatory Requirements

A summary of the permit requirements that may pertain to the project is provided below. Any activity planned within areas identified as wetland must be coordinated with and approved by the appropriate agencies prior to commencement of such activities.

Agencies in Minnesota that regulate activities that affect lakes, rivers, streams, and wetlands include:

- US Army Corps of Engineers (USACE)
  - Section 404 of the Clean Water Act
- Local Governmental Units (LGUs)
  - Wetland Conservation Act (WCA)

The LGU for this project is the Minnehaha Creek Watershed District. The WCA applies to nearly all wetland not regulated by the DNR. The one wetland delineated within the study area is not a Minnesota DNR Public Water.

The regularity authority of the USACE covers Waters of the United States, including those that are regulated by the DNR or subject to WCA. Generally, the USACE reviewed delineations to determine whether wetlands are jurisdictional (i.e., Waters of the United States.

In Minnesota, a joint application process has been developed for projects with anticipated wetland impacts. Applications are coordinated between the USACE and LGU.

9 Report Preparation

The procedures followed for this wetland delineation are in accordance with the *Corps of Engineers Wetlands Delineation Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)*.

This report describes site conditions for a specific date in time and is generally valid for a period of five years from the date of the final field investigation and delineation, which was September 4, 2019.

References

Climatology Working Group, University of Minnesota. *Historical Climate Data Retrieval: Daily or Monthly Temperature, Precipitation, Snow Data by Target Location.* Available at http://climate.umn.edu/doc/historical.htm, accessed September 2019.

Minnesota Climatology Working Group. *Historical Climate Data Retrieval: Wetland Delineation Monthly Precipitation Data Retrieval from Gridded Database*. Available at http://climate.umn.edu/gridded_data/precip/wetland/wetland.asp, accessed September 2019.

Minnesota Board of Water and Soil Resources. Information regarding Minnesota wetland regulations (includes links to other regulatory websites). Available at http://www.bwsr.state.mn.us/wetlands/index.html, accessed September 2019.

Minnesota Department of Natural Resources. *Public Waters Basin and Watercourse Delineations (February 2017).* Shapefiles available at https://gisdata.mn.gov/dataset/water-mn-public-waters.

Minnesota Department of Natural Resources. *National Wetland Inventory Update for East-Central Minnesota (March 2017).* Shapefiles available at https://gisdata.mn.gov/dataset/water-nat-wetlands-inv-2009-2014.

Natural Resources Conservation Service, U.S. Department of Agriculture. *Web Soil Survey*. Available at http://websoilsurvey.nrcs.usda.gov, accessed September 2019.

US Army Corps of Engineers. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1. January 1987. Available at http://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RegulatoryDocs/1987%20Manual.pdf.

U.S. Army Corps of Engineers. *Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Northcentral and Northeast Region (Version 2.0)*. January 2012. Available at http://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/reg_supp/.

U.S. Geological Survey. *National Hydrography Dataset*. Shapefiles available at https://nhd.usgs.gov/, accessed September 2019.

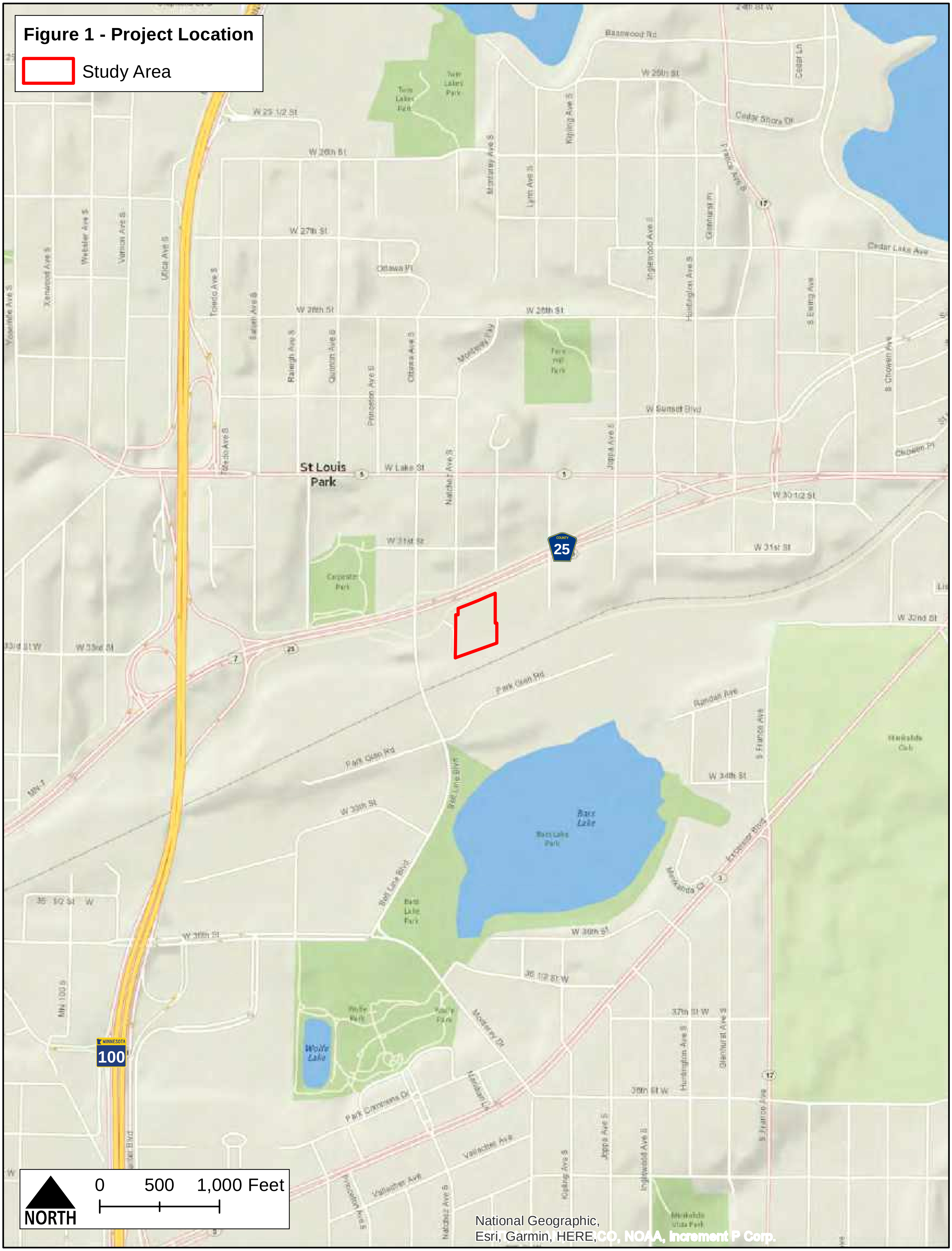
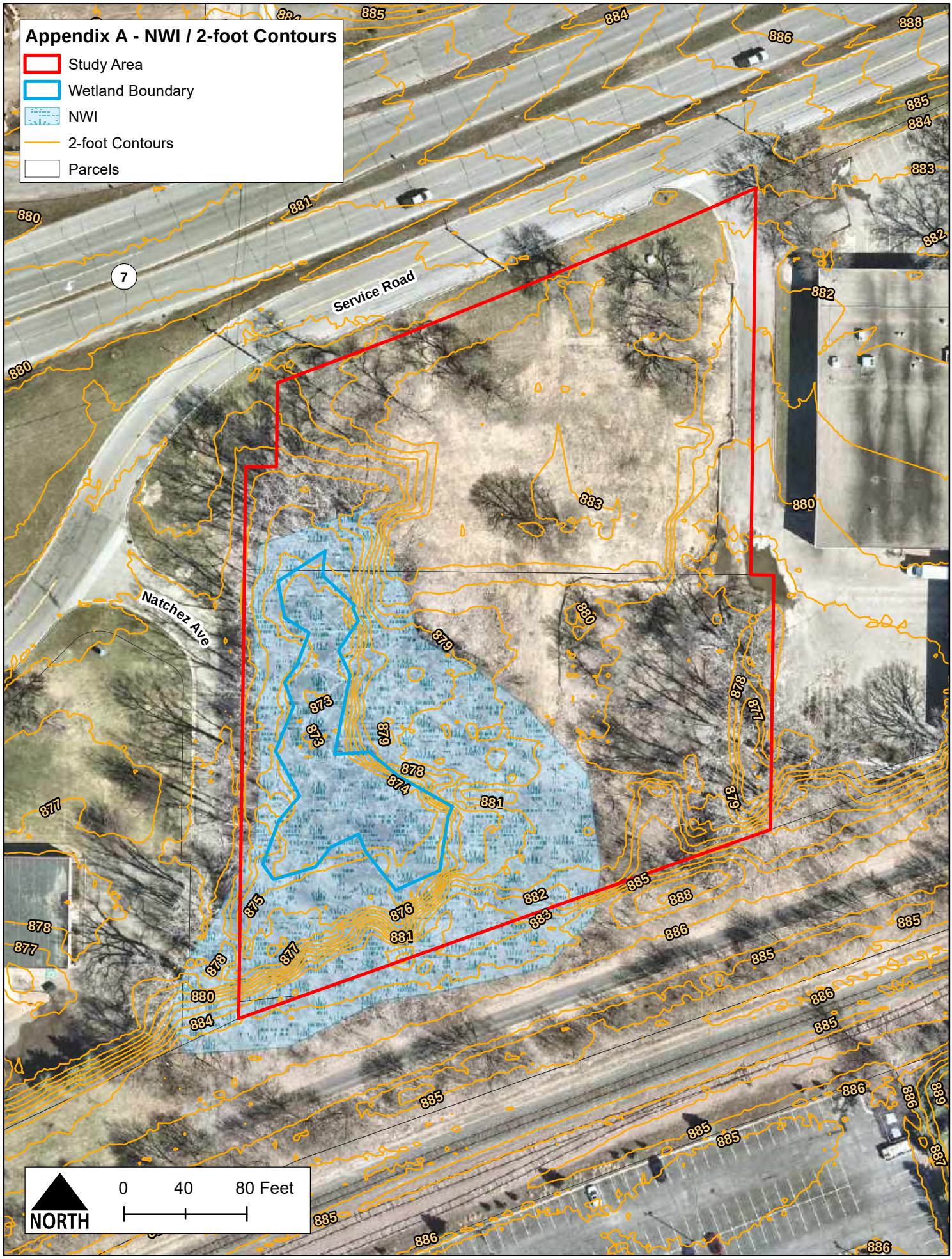


Figure 1 - Project Location

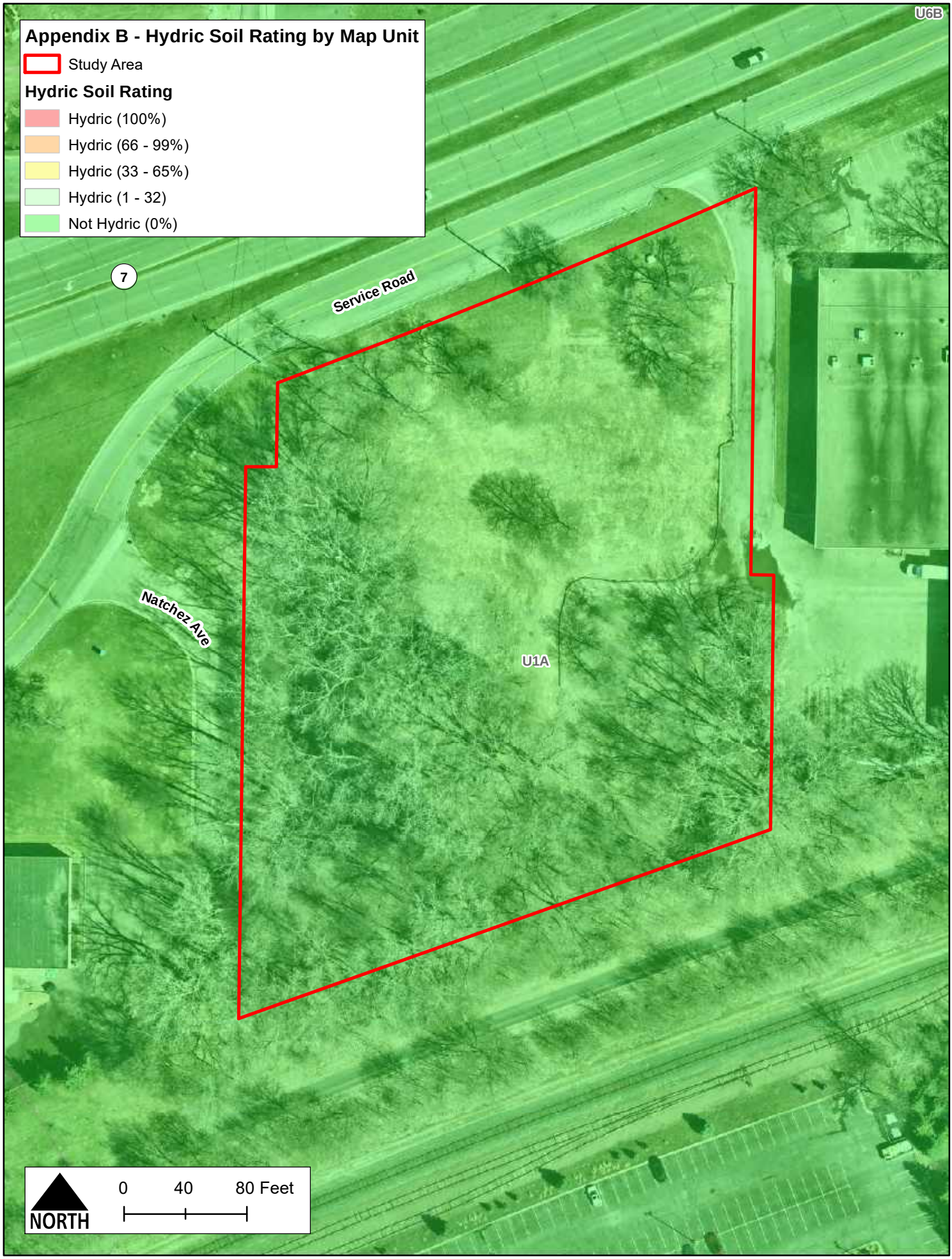

Figure 2 - USGS Topographical Map
Study Area
Birchwood Park
26TH ST
Park
Fern Hill Park
Fern Hill Sch
SUNSET
BM 906
Park Hill Sch
City Hall
Carpenter Park
Bass Lake
Minikahda Golf Course
Wolfe Park
Minikahda Vista
Shopping Center
0 500 1,000 Feet
NORTH
Copyright © 2013 National Geographic Society, i-cubed


Figure 3 - Delineated Wetland Boundary and Type
Study Area
Wetland Boundary
Sample Points
Parcels
7
Service Road
Natchez Ave
SP-2
SP-1
Wetland 1
Type 1
0.26 acres
NORTH
0
40
80 Feet

Appendix A: National Wetlands Inventory, DNR Public Waters Inventory, and LiDAR


Appendix A - NWI / 2-foot Contours
Study Area
Wetland Boundary
NWI
2-foot Contours
Parcels
Service Road
Natchez Ave
7
NORTH
0
40
80 Feet

Appendix B: Hydric Soils Information


Appendix B - Hydric Soil Rating by Map Unit
Study Area
Hydric Soil Rating
Hydric (100%)
Hydric (66 - 99%)
Hydric (33 - 65%)
Hydric (1 - 32)
Not Hydric (0%)
7
Service Road
Natchez Ave
U6B
U1A
NORTH
0
40
80 Feet

Appendix C: Precipitation Data

Minnesota State Climatology Office

Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:

county: **Hennepin**
township name: **St. Louis Park**
nearest community: **Saint Louis Park**
township number: **117N**
range number: **21W**
section number: **10**

Aerial photograph or site visit date:
Wednesday, September 4, 2019

Score using 1981-2010 normal period

values are in inches A 'R' following a monthly total indicates a provisional value derived from radar-based estimates.	first prior month: **August 2019**	second prior month: **July 2019**	third prior month: **June 2019**
estimated precipitation total for this location:	**6.48R**	**6.61R**	**3.01R**
there is a 30% chance this location will have less than:	3.50	2.66	3.48
there is a 30% chance this location will have more than:	5.05	4.62	5.38
type of month: dry normal wet	**wet**	**wet**	**dry**
monthly score	**3 * 3 = 9**	**2 * 3 = 6**	**1 * 1 = 1**
multi-month score: 6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)	**16 (wet)**		

Other Resources:

- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- *Evaluating Antecedent Precipitation Conditions* (BWSR)

Appendix D: Field Data Sheets

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Beltline City/County: St. Louis Park/Hennepin Sampling Date: 9-4-2019
Applicant/Owner: Beltline Development, LLC State: MN Sampling Point: SP-1
Investigator(s): Aaron Stolte Section, Township, Range: Sec 6, Twp 28N, Ran 24W
Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave
Slope (%): 2 Lat.: 44.945074 Long.: -93.338873 Datum: WGS 1984
Soil Map Unit Name: U1A-Urban Land, Udorthents NWI Classification: PFO1A
Are climatic/hydrologic conditions of the site typical for this time of the year? No (If no, explain in remarks)
Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal
Are vegetation ____, soil ____, or hydrology ____ naturally problematic? circumstances" present? Yes
(If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Y
Hydric soil present? Y
Indicators of wetland hydrology present? Y

Is the sampled area within a wetland? Y

If yes, optional wetland site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.) **Edge of inundated depression**

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Microtopographic Relief (D4)

Field Observations:

Surface water present?	Yes	____	No	X	Depth (inches): ____
Water table present?	Yes	X	No	____	Depth (inches): 8
Saturation present? (includes capillary fringe	Yes	X	No	____	Depth (inches): 6

Indicators of wetland hydrology present? Y

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: **Based on antecedent precip conditions, the prior three months have been wetter than normal**

SOIL

Sampling Point: SP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-14	10YR 2/1						fibric peat	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining,

Hydric Soil Indicators:

- X Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Suface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA**
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

*Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):
Type: ____
Depth (inches):

Hydric soil present? Y

Remarks:

VEGETATION - Use scientific names of plants

Sampling Point: SP-1

Tree Stratum	Plot Size (30' radius)	Absolute % Cover	Dominant Species	Indicator Status
1	*Rhamnus cathartica*	30	Y	FAC
2	*Populus deltoides*	30	Y	FAC
3				
4				
5				
6				
7				
8				
9				
10				
		60	= Total Cover	

Sapling/Shrub Stratum	Plot Size (15' radius)	Absolute % Cover	Dominant Species	Indicator Status
1	*Rhamnus cathartica*	80	Y	FAC
2				
3				
4				
5				
6				
7				
8				
9				
10				
		80	= Total Cover	

Herb Stratum	Plot Size (5' radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		0	= Total Cover	

Woody Vine Stratum	Plot Size (30' radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0	= Total Cover	

50/20 Thresholds

	20%	50%
Tree Stratum	12	30
Sapling/Shrub Stratum	16	40
Herb Stratum	0	0
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0	
FACW species	0	x 2 =	0	
FAC species	140	x 3 =	420	
FACU species	0	x 4 =	0	
UPL species	0	x 5 =	0	
Column totals	140 (A)		420	(B)

Prevalence Index = B/A = 3.00

Hydrophytic Vegetation Indicators:

- ___ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- X Prevalence index is ≤3.0*
- ___ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ___ Problematic hydrophytic vegetation* (explain)

*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic vegetation present? Y

Remarks: (Include photo numbers here or on a separate sheet)
Photo #:
No. of flags:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Beltline City/County: St. Louis Park/Hennepin Sampling Date: 9-4-2019
Applicant/Owner: Beltline Development, LLC State: MN Sampling Point: SP-2
Investigator(s): Aaron Stolte Section, Township, Range: Sec 6, Twp 28N, Ran 24W
Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none
Slope (%): 3 Lat.: 44.945042 Long.: -93.338865 Datum: WGS 1984
Soil Map Unit Name U1A-Urban Land, Udorthents NWI Classification: PFO1A
Are climatic/hydrologic conditions of the site typical for this time of the year? No (If no, explain in remarks)
Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal
Are vegetation ____, soil ____, or hydrology ____ naturally problematic? circumstances" present? Yes
(If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Y
Hydric soil present? N
Indicators of wetland hydrology present? N

Is the sampled area within a wetland? N

If yes, optional wetland site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.) **Hillslope leading into depression, approx. 2-feet upslope of SP-1**

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Microtopographic Relief (D4)

Field Observations:
Surface water present? Yes ____ No X Depth (inches): ____
Water table present? Yes ____ No X Depth (inches): ____
Saturation present? (includes capillary fringe Yes ____ No X Depth (inches): ____

Indicators of wetland hydrology present? N

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: **Based on antecedent precip conditions, the prior three months have been wetter than normal**

SOIL

Sampling Point: SP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-8	10YR 2/2	100					sa lo	
8-24	10YR 5/3	100					sand	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining,

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Suface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA**
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

*Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):
Type: ____
Depth (inches): ____

Hydric soil present? N

Remarks:

VEGETATION - Use scientific names of plants

Sampling Point: SP-2

Tree Stratum	Plot Size (30' radius)	Absolute % Cover	Dominant Species	Indicator Status
1	*Rhamnus cathartica*	30	Y	FAC
2	*Populus deltoides*	30	Y	FAC
3	*Acer negundo*	15	Y	FAC
4				
5				
6				
7				
8				
9				
10				
		75	= Total Cover	

Sapling/Shrub Stratum	Plot Size (15' radius)	Absolute % Cover	Dominant Species	Indicator Status
1	*Rhamnus cathartica*	50	Y	FAC
2				
3				
4				
5				
6				
7				
8				
9				
10				
		50	= Total Cover	

Herb Stratum	Plot Size (5' radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		0	= Total Cover	

Woody Vine Stratum	Plot Size (30' radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0	= Total Cover	

50/20 Thresholds

	20%	50%
Tree Stratum	15	38
Sapling/Shrub Stratum	10	25
Herb Stratum	0	0
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across all Strata: 4 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	125	x 3 =	375
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	125 (A)		375 (B)

Prevalence Index = B/A = 3.00

Hydrophytic Vegetation Indicators:

- ___ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- X Prevalence index is ≤3.0*
- ___ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ___ Problematic hydrophytic vegetation* (explain)

*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic vegetation present? Y

Remarks: (Include photo numbers here or on a separate sheet)
Photo #:
No. of flags:

Appendix E: Site Photos

Photo 1: North side of site looking at forested wetland

Photo 2: Middle of forested wetland with standing water

Photo 3: Middle of forested wetland with standing water

Photo 4: South side of site showing construction activity

Photo 5: Middle of forested wetland

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, ST. PAUL DISTRICT
180 FIFTH STREET EAST, SUITE 700
ST. PAUL, MN 55101-1678

June 10, 2020

Regulatory File No. MVP-2019-02827-MAD

Beltline Development, LLC
c/o Will Anderson
233 Park Ave South, Suite 201
Minneapolis, MN 55415

Dear Mr. Anderson:

We are responding to your request, submitted by Kimley-Horn on your behalf, for Corps of Engineers (Corps) concurrence with the delineation of aquatic resources completed on the Beltline Station site. The project site is in Section 6, Township 28 North, Range 24 West, Hennepin County, Minnesota.

We have conducted a preliminary review of the delineation report, dated October 2019 and generally concur that Figure 3 in the report depicts a reasonable approximation of the location and boundaries of aquatic resources on the property. This delineation can be used for planning, and will generally be sufficient for permitting purposes. It may be necessary to review this determination in response to changing site conditions or new information.

Additional Information regarding Jurisdiction and Permitting:

No jurisdictional determination was prepared for this project, nor is one required to support a permit application. If you submit a permit application, we will assist you in identifying aquatic resources that are not subject to Corps regulation to exclude those resources from the permit evaluation. A permit application should include this delineation, any subsequent revisions, and any state or local delineation approvals. You are advised that receipt of a permit or exemption from a state or local agency does not satisfy the requirement to obtain a Corps permit where one is needed.

Please note that the Corps has issued Nationwide General Permits and Regional General Permits that provide authorization for many minor activities. Many of those general permits require a pre-construction notification and Corps verification prior to starting work. However, several general permits also have “self-certifying” provisions that eliminate the need to provide notice to the Corps, provided the permittee complies with the terms and conditions of the general permit. Current general permit terms and conditions can be found at: https://www.mvp.usace.army.mil/Missions/Regulatory/Permitting-Process-Procedures/.

If you have any questions, please contact me in our St. Paul office at (651) 290-5266 or Maria.A.DeLaundreau@usace.army.mil. In any correspondence or inquiries, please refer to the Regulatory file number shown above.

Sincerely,

Maria DeLaundreau
Project Manager

cc:
Aaron Stolte, Kimley-Horn
Heidi Quinn, LGU
Ben Carlson, BWSR

BOARD OF WATER AND SOIL RESOURCES

Minnesota Wetland Conservation Act
Notice of Decision

Local Government Unit: Minnehaha Creek Watershed District	**County:** Hennepin County
Applicant Name: Beltline Development, LLC (Will Anderson) **Applicant Representative:** Kimley-Horn & Associates (Aaron Stolte)	
Project Name: Beltline Station, St. Louis Park	**LGU Project No. (if any):** W19-35
Date Complete Application Received by LGU: 11/21/2019	
Date of LGU Decision: 12/27/2019	
Date this Notice was Sent: 12/27/2019	

WCA Decision Type - check all that apply

☒ Wetland Boundary/Type ☐ 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 decisions only)

Total WCA Wetland Impact Area:
Wetland Replacement Type: ☐ Project Specific Credits: ☐ Bank Credits:
Bank Account Number(s):

Technical Evaluation Panel Findings and Recommendations (attach if any)

☐ Approve ☐ Approve w/Conditions ☐ Deny ☐ No TEP Recommendation

LGU Decision

☐ Approved with Conditions (specify below)[1] ☒ Approved[1] ☐ Denied
List Conditions:

Decision-Maker for this Application: ☒ Staff ☐ Governing Board/Council ☐ Other:

Decision is valid for: ☒ 5 years (default) ☐ Other (specify):

[1] *Wetland Replacement Plan approval is not valid until BWSR confirms the withdrawal of any required wetland bank credits. For project-specific replacement a financial assurance per MN Rule 8420.0522, Subp. 9 and evidence that all required forms have been recorded on the title of the property on which the replacement wetland is located must be provided to the LGU for the approval to be valid.*

LGU Findings – Attach document(s) and/or insert narrative providing the basis for the LGU decision[1].

☐ Attachment(s) (specify):
☒ Summary:

Beltline Development, LLC has applied for a wetland boundary & type confirmation for the wetlands located at 3130 Monterey Avenue South, St. Louis Park, Hennepin County, Minnesota. Legal description: Section 6, Township 28N, Range 24W. The boundary & type approval was requested on October 30th, 2019 and a complete application was received on November 21st, 2019.
A wetland delineation was conducted by Kimley-Horn & Associates on September 4th, 2019. One wetland was delineated within the project area. Wetland 1 was identified as a Type 1, seasonally flooded wetland.

The project area has received a previous boundary & type confirmation under W13-40 Notice of Decision (relevant data sheets and figure attached). The boundary figure and soil data sheets are similar between the current delineation and the previous one.

MCWD is in agreement with the wetland boundaries and types shown in the delineation report.

MCWD approves the wetland boundaries and types as shown in the delineation report. This decision is valid for five years. A future project located on this property may require a permit from the MCWD.

[1] *Findings must consider any TEP recommendations.*

Attached Project Documents

☒ Site Location Map ☒ Project Plan(s)/Descriptions/Reports (specify): Wetland Delineation Exhibit, W13-40 NOD

Appeals of LGU Decisions

If you wish to appeal this decision, you must provide a written request within 30 calendar days of the date you received the notice. 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 local appeal process applicable to this decision?

☒ Yes[1] ☐ No

[1] *If yes, all appeals must first be considered via the local appeals process.*

Local Appeals Submittal Requirements (LGU must describe how to appeal, submittal requirements, fees, etc. as applicable)

Appeal of an LGU staff decision. Send petition and $100 fee to:
Minnehaha Creek Watershed District
15320 Minnetonka Boulevard
Minnetonka, MN 55345
wca@minnehahacreek.org

Notice Distribution (include name)

Required on all notices:

☒ SWCD TEP Member: Stacey Lijewski-stacey.lijewski@co.hennepin.mn.us
☒ BWSR TEP Member: Ben Carson- ben.carlson@state.mn.us
☐ LGU TEP Member (if different than LGU contact):
☒ DNR Representative: Leslie Parris -leslie.parris@state.mn.us;
☐ Watershed District or Watershed Mgmt. Org.:
☒ Applicant: Will Anderson- wanderson@sherman-associates.com
☒ Agent/Consultant: Aaron Stolte- aaron.stolte@kimley-horn.com

Optional or As Applicable:

☒ Corps of Engineers: usace_requests_mn@usace.army.mil
☐ BWSR Wetland Mitigation Coordinator (required for bank plan applications only):

☒ Members of the Public (notice only): Erik Francis-efrancis@st.louispark.org ☐
Other:

Signature:	Date:
Heidi Quinn, MCWD Permitting Technician	12/27/2019

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.

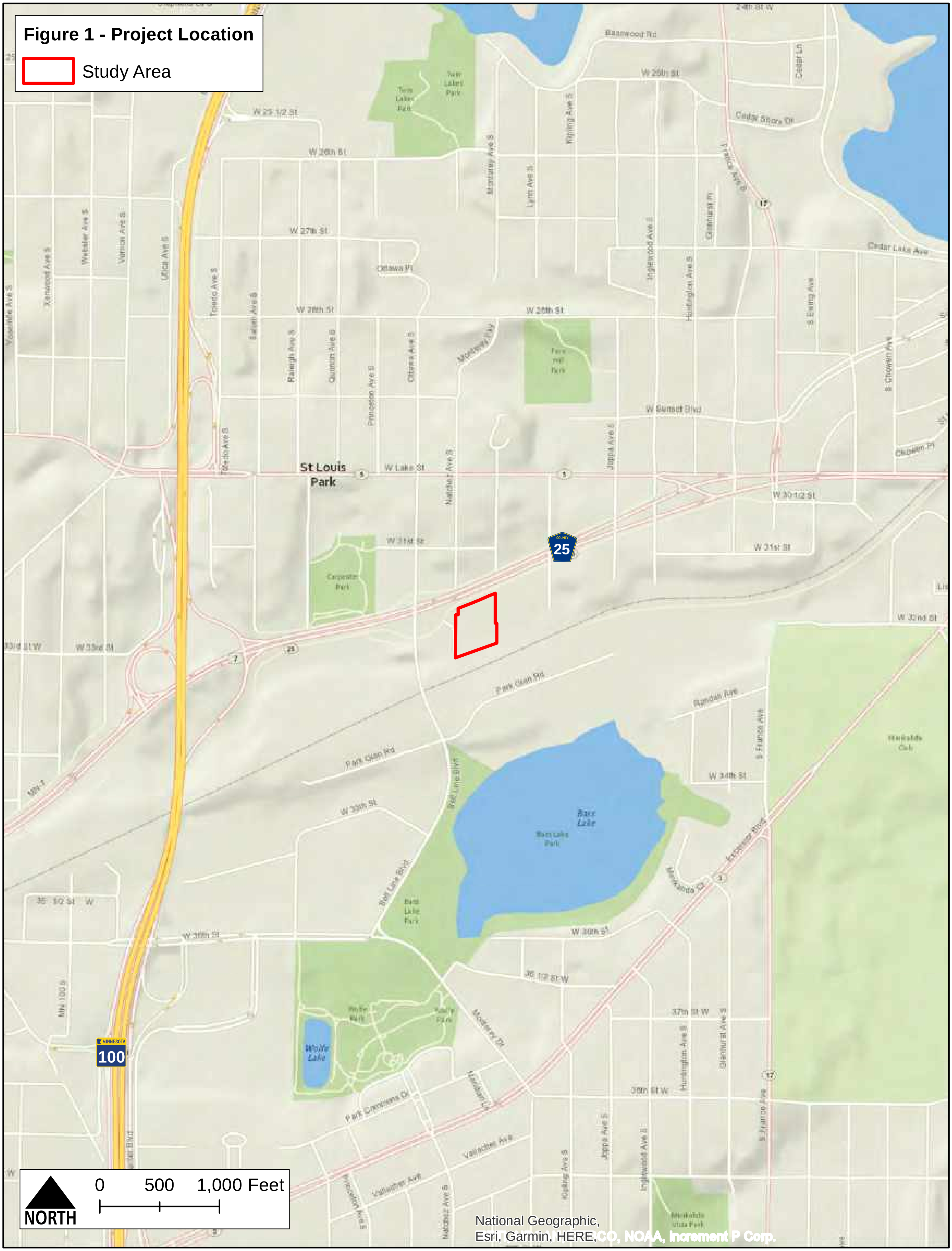
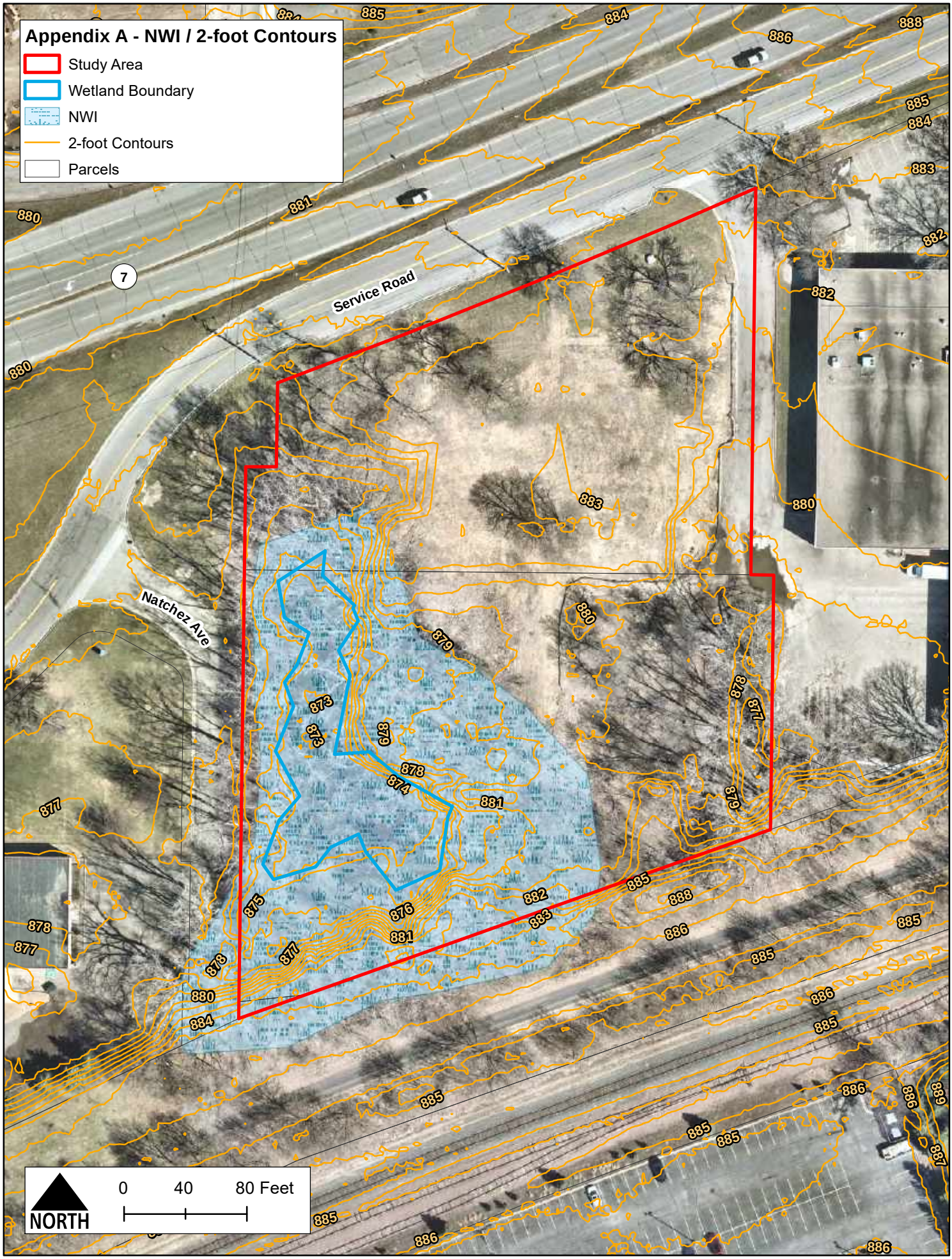


Figure 1 - Project Location
Study Area
St Louis Park
W Lake St
W 28th St
W 27th St
W 26th St
W 31st St
W 36th St
Park Glen Rd
W Sunset Blvd
Cedar Lake Ave
25
100
0
500
1,000 Feet
NORTH
National Geographic,
Esri, Garmin, HERE,


Figure 3 - Delineated Wetland Boundary and Type
Study Area
Wetland Boundary
Sample Points
Parcels
7
Service Road
Natchez Ave
SP-2
SP-1
Wetland 1
Type 1
0.26 acres
NORTH
0
40
80 Feet


Appendix A - NWI / 2-foot Contours
Study Area
Wetland Boundary
NWI
2-foot Contours
Parcels
Service Road
Natchez Ave
7
NORTH
0
40
80 Feet

Minnesota Wetland Conservation Act
Notice of Decision

Local Government Unit (LGU)	Address
Minnehaha Creek Watershed District	**15320 Minnetonka Blvd Minnetonka, MN 55391**

1. PROJECT INFORMATION

Applicant Name	Project Name	Date of Application	Application Number
Southwest Light Rail Transit (LRT)	**Southwest LRT Project, St. Louis Park and Minneapolis**	**12/16/2013**	**W13-40**

☒ Attach site locator map.

Type of Decision:

☒ Wetland Boundary or Type ☒ No-Loss ☐ Exemption ☐ Sequencing
☐ Replacement Plan ☐ Banking Plan

Technical Evaluation Panel Findings and Recommendation (if any):

☒ Approve ☐ Approve with conditions ☐ Deny

Summary (or attach):

BWSR staff recommended the approval of the Application for No Loss and Wetland Boundary and Type.

2. LOCAL GOVERNMENT UNIT DECISION

Date of Decision: **2/12/2014**

☒ Approved ☐ Approved with conditions (include below) ☐ Denied

LGU Findings and Conclusions (attach additional sheets as necessary):

Southwest Light Rail Transit has applied for a Wetland Boundary & Type and No-Loss approval for the proposed Southwest LRT Project, a proposed 16-mile light rail line located in southern Hennepin County. Delineation of wetlands located within the MCWD was performed by Anderson Engineering of MN, LLC between August 9 and November 18, 2013.

16 wetlands were identified and delineated within the proposed LRT corridor and study area by Andersen Engineering. The wetlands were classified according to wetland type and are summarized in Appendix A of the delineation report dated December 2013. The boundaries were reviewed and verified in the field by Wes Boll of Wenck Associates on behalf of MCWD on October 3, 2013. Wenck staff was in agreement with the delineated boundaries and types of the wetlands located in the proposed project area.

In addition to the delineated wetland basins described above, four wetland basins were also identified within the MCWD in Minneapolis where on-site access could not be obtained from the property owner to complete the field delineation. These four wetlands were digitally mapped using off-site methods. This Notice of Decision does not approve the wetland boundaries identified through off-site procedures. These wetland boundaries will need to be field delineated and verified at a later time.

Two of these wetlands have been further identified as being incidental wetlands not subject to WCA rules. The Applicant provided aerial photographs that demonstrate that these basins were constructed as stormwater basins. Therefore, these basins are incidental and are not covered under the scope of WCA.

MCWD approves the wetland boundary & type as delineated in the field and documented in the delineation report. MCWD also approves the request for a No-Loss determination for Wetlands MC-SLP-06 and MC-SLP-07 as documentation provided sufficient evidence that these basins are incidental wetlands not regulated by WCA. This decision is valid for five years.

For Replacement Plans using credits from the State Wetland Bank:

Bank Account #	Bank Service Area	County	Credits Approved for Withdrawal (sq. ft. or nearest .01 acre)

Replacement Plan Approval Conditions. In addition to any conditions specified by the LGU, the approval of a Wetland Replacement Plan is conditional upon the following:

☐ **Financial Assurance:** For project-specific replacement that is not in-advance, a financial assurance specified by the LGU must be submitted to the LGU in accordance with MN Rule 8420.0522, Subp. 9 (List amount and type in LGU Findings).

☐ **Deed Recording:** For project-specific replacement, evidence must be provided to the LGU that the BWSR "Declaration of Restrictions and Covenants" and "Consent to Replacement Wetland" forms have been filed with the county recorder's office in which the replacement wetland is located.

☐ **Credit Withdrawal:** For replacement consisting of wetland bank credits, confirmation that BWSR has withdrawn the credits from the state wetland bank as specified in the approved replacement plan.

Wetlands may not be impacted until all applicable conditions have been met!

LGU Authorized Signature:

Signing and mailing of this completed form to the appropriate recipients in accordance with 8420.0255, Subp. 5 provides notice that a decision was made by the LGU under the Wetland Conservation Act as specified above. If additional details on the decision exist, they have been provided to the landowner and are available from the LGU upon request.

Name	Title	
Brandon Wisner	**Compliance Officer**	
Signature	Date	Phone Number and E-mail
BL. Wz	2/14/2024	**(952) 641-4505** **bwisner@minnehahacreek.org**

THIS DECISION ONLY APPLIES TO THE MINNESOTA WETLAND CONSERVATION ACT. Additional approvals or permits from local, state, and federal agencies may be required. Check with all appropriate authorities before commencing work in or near wetlands.

Applicants proceed at their own risk if work authorized by this decision is started before the time period for appeal (30 days) has expired. If this decision is reversed or revised under appeal, the applicant may be responsible for restoring or replacing all wetland impacts.

This decision is valid for three years from the date of decision unless a longer period is advised by the TEP and specified in this notice of decision.

3. APPEAL OF THIS DECISION

Pursuant to MN Rule 8420.0905, any appeal of this decision can only be commenced by mailing a petition for appeal, including applicable fee, within thirty (30) calendar days of the date of the mailing of this Notice to the following as indicated:

Check one:

☒ Appeal of an LGU staff decision. Send petition and $0 fee (if applicable) to: **Minnehaha Creek Watershed District** **15320 Minnetonka Blvd** **Minnetonka, MN 55391**	☐ Appeal of LGU governing body decision. Send petition and $500 filing fee to: Executive Director Minnesota Board of Water and Soil Resources 520 Lafayette Road North St. Paul, MN 55155

4. LIST OF ADDRESSEES

☒ SWCD TEP member: **Stacey Lijewski – Stacey.lijewski@co.hennepin.mn.us**
☒ BWSR TEP member: **Lynda Peterson – Lynda.peterson@state.mn.us**
☐ LGU TEP member (if different than LGU Contact):
☐ DNR TEP member:
☒ DNR Regional Office (if different than DNR TEP member): **Brooke Haworth – brooke.haworth@state.mn.us**
☐ WD or WMO (if applicable):
☒ Applicant (notice only) and Landowner (if different): **Southwest Light Rail Transit (Nani Jacobsen) – nani.jacobsen@metrotransit.org**
☒ Members of the public who requested notice (notice only):
Consultant: Anderson Engineering of MN, LLC (Ben Hodapp) – bhodapp@ae-mn.com
☒ Corps of Engineers Project Manager (notice only): **Melissa Jenny – Melissa.m.jenny@usace.army.mil**
☐ BWSR Wetland Bank Coordinator (wetland bank plan applications only)

5. MAILING INFORMATION

➢ For a list of BWSR TEP representatives: www.bwsr.state.mn.us/aboutbwsr/workareas/WCA_areas.pdf

➢ For a list of DNR TEP representatives: www.bwsr.state.mn.us/wetlands/wca/DNR_TEP_contacts.pdf

➢ Department of Natural Resources Regional Offices:

NW Region:	NE Region:	Central Region:	Southern Region:
Reg. Env. Assess. Ecol. Div. Ecol. Resources 2115 Birchmont Beach Rd. NE Bemidji, MN 56601	Reg. Env. Assess. Ecol. Div. Ecol. Resources 1201 E. Hwy. 2 Grand Rapids, MN 55744	Reg. Env. Assess. Ecol. Div. Ecol. Resources 1200 Warner Road St. Paul, MN 55106	Reg. Env. Assess. Ecol. Div. Ecol. Resources 261 Hwy. 15 South New Ulm, MN 56073

For a map of DNR Administrative Regions, see: http://files.dnr.state.mn.us/aboutdnr/dnr_regions.pdf

➢ For a list of Corps of Project Managers: www.mvp.usace.army.mil/regulatory/default.asp?pageid=687 or send to:

US Army Corps of Engineers
St. Paul District, ATTN: OP-R
180 Fifth St. East, Suite 700

St. Paul, MN 55101-1678

➢ For Wetland Bank Plan applications, also send a copy of the application to:
Minnesota Board of Water and Soil Resources
Wetland Bank Coordinator
520 Lafayette Road North
St. Paul, MN 55155

6. ATTACHMENTS

In addition to the site locator map, list any other attachments:

☒ **MCWD Wetlands**

☐

☐

SOUTHWEST LRT

Preliminary Wetland Field Data Review
Locally Preferred Alternative

Exhibit 12
Rev 04.00
9/24/2013
Sheet 12 of 15

NORTH
0 100 200 400
Scale

DRAFT - WORK IN PROCESS

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: 053-0602824130003 City/County: St. Louis Park/Hennepin Sampling Date: 08/26/2013

Applicant/Owner: SWLRT State: MN Sampling Point: WL1-SPA

Investigator(s): Marc Cottingham/Mo Elabbady/Alison Hruby Section, Township, Range: 6-28-24

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: Long: Datum:

Soil Map Unit Name: U1A-Urban Land, Udorthents NWI Classification: F01A

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances"

Are vegetation ____, soil ____, or hydrology ____ naturally problematic? present? Yes

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	Y		
Hydric soil present?	Y	**Is the sampled area within a wetland?**	Y
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	

Remarks: (Explain alternative procedures here or in a separate report.)

All three criteria were met. Area is a wetland.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species	Indicator Staus
1			
2			
3			
4			
5			
	0	= Total Cover	
Sapling/Shrub stratum (Plot size:)			
1 *Rhamnus cathartica*	15	Y	FAC
2			
3			
4			
5			
	15	= Total Cover	
Herb stratum (Plot size:)			
1 *Alliaria petiolata*	70	Y	FAC
2 *Phalaris arundinacea*	15	N	FACW
3			
4			
5			
6			
7			
8			
9			
10			
	85	= Total Cover	
Woody vine stratum (Plot size:)			
1			
2			
	0	= Total Cover	

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	15	x 2 =	30
FAC species	85	x 3 =	255
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	100 (A)		285 (B)

Prevalence Index = B/A = 2.85

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- X Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? Y

Remarks: (Include photo numbers here or on a separate sheet)

Highway 7 Frontage Road, East of Beltline.

SOIL **Sampling Point:** WL1-SPA

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-40	10YR2/1	100					Fiberous Peat	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ 0-13
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- X 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

*Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? Y

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface water present?	Yes		No	X	Depth (inches):	
Water table present?	Yes		No	X	Depth (inches):	
Saturation present? (includes capillary fringe)	Yes	X	No		Depth (inches):	18"

Indicators of wetland hydrology present? Y

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Storm drainage pone inlet.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: 053-0602824130003 City/County: St. Louis Park/Hennepin Sampling Date: 08/26/2013
Applicant/Owner: SWLRT State: MN Sampling Point: WL1-SPB
Investigator(s): Marc Cottingham/Mo Elabbady/Alison Hruby Section, Township, Range: 6-28-24
Landform (hillslope, terrace, etc.): Slope Local relief (concave, convex, none): Convex
Slope (%): 0-2 Lat: Long: Datum:
Soil Map Unit Name: U1A-Urban Land, Udorthents NWI Classification:
Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)
Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances"
Are vegetation ____, soil ____, or hydrology ____ naturally problematic? present? No

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	Y		
Hydric soil present?	N	**Is the sampled area within a wetland?**	N
Indicators of wetland hydrology present?	N	If yes, optional wetland site ID:	

Remarks: (Explain alternative procedures here or in a separate report.)

Soil and hydrology criteria were not met. Area is not a wetland.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species	Indicator Staus
1 *Acer negundo*	15	Y	FAC
2			
3			
4			
5			
	15	= Total Cover	
Sapling/Shrub stratum (Plot size:)			
1 *Rhamnus cathartica*	15	Y	FAC
2			
3			
4			
5			
	15	= Total Cover	
Herb stratum (Plot size:)			
1 *Alliaria petiolata*	70	Y	FAC
2			
3			
4			
5			
6			
7			
8			
9			
10			
	70	= Total Cover	
Woody vine stratum (Plot size:)			
1			
2			
	0	= Total Cover	

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant Species Across all Strata: 3 (B)
Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	100	x 3 =	300
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	100 (A)		300 (B)

Prevalence Index = B/A = 3.00

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- X Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? Y

Remarks: (Include photo numbers here or on a separate sheet)

Highway 7 Frontage Road, East of Beltline.

SOIL **Sampling Point:** WL1-SPB

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-20	10YR2/2	100					Sandy Loam	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ 0-13
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

*Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? N

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface water present?	Yes	___	No	X	Depth (inches): ___
Water table present?	Yes	___	No	X	Depth (inches): ___
Saturation present? (includes capillary fringe)	Yes	___	No	X	Depth (inches): ___

Indicators of wetland hydrology present? N

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: