



## LOWER MINNESOTA RIVER WATERSHED DISTRICT

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May 1 2020 Administrator report  
From: Linda Loomis, Administrator  
To: LMRWD Board of Managers

In addition to items on the meeting agenda, work continues on the following District projects and issues:

### **Other Work**

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#### **2019 Audit**

The District just received the 2019 audit report for review and will conduct the final exit interview this week. The Board should decide if it would like to have the auditor come to a future meeting to present the report and answer any question the Board may have.

#### **Request for Proposals for Professional Services**

The LMRWD posted an advertisement for proposals of interest for legal counsel, technical services and education & outreach services. Notice of this request was published in the May 4th and May 11th editions of the State Register. Additional information can be found on the [LMRWD website](#).

#### **Minnesota River Basin Interagency Study**

The LMRWD was notified that the US Army Corps of Engineers released the Minnesota River Basin Interagency Study. The Report can be found online at

<https://usace.contentdm.oclc.org/digital/collection/p16021coll7/id/13606>

#### **Old Cedar Avenue Bridge opening celebration**

The City of Bloomington and the Minnesota Valley National Wildlife Refuge are planning a celebration commemorating the renovation of the Old Cedar Avenue Pedestrian Bridge and the surrounding amenities (nature play area, restrooms, parking lot, road work, etc). The celebration is planned for Saturday, September 26, 2020 from 2-6 PM. It will include opening remarks, food trucks, activities, and a chance to check out the new nature play area and augmented reality tour on the bridge. The LMRWD was invited to be a part of the event. The Water Resource department for the city of Bloomington contacted me to work together on planning for this event, which I agreed to. I will keep the Board updated as we get further into planning. If Board members have any key messages or ideas, please let me know. Here is a link to the city's website for the event:

<https://www.bloomingtonmn.gov/pl/events/old-cedar-avenue-bridge-celebration-2020-09-26>

#### **Watershed Based Funding**

At the March Board meeting, the Metropolitan-area Watershed Based Funding program was discussed. The Board asked how much funding was being allocated under the new program. Minnesota River Metro North will be allocated \$673,699 and Minnesota River Metro South will be allocated \$829,075. It is difficult to gauge how this compares with the Pilot Program, because there are now 10 areas in the Metro Area as opposed to the previous program which was divided among the seven counties. The total amount allocated to the Metro Area under the Pilot Program was \$5,590,000. This program has allocated \$5,999,000 to the Metro-area.

Lower MN River South met on April 29th. The group decided to not do any allocation formula, but has decided to develop a structure in order to prioritize projects that will be funded. Once priorities have been developed projects will be submitted to the group for consideration and evaluation. A second meeting for this group has been scheduled for May 20th.

Lower MN River North held its first meeting on May 12th. A second meeting has not been scheduled for this group.

### **The Meadows in Carver**

At the last meeting, staff informed the Board that an NPDES inspection report on a residential development in the City of Carver had been received. Staff followed up on this report with the inspector, who was from the Carver County SWCD. Mike Wanous, Carver SWCD District Manager, said they do inspections for the Carver County WMO and did an inspection of the "Meadows" residential development even though it isn't in the WMO.

Staff has discussed how inspections should proceed for the LMRWD and plans to hold a work session this summer for Managers. I have spoken with the Carver City Manager Brent Mareck about making sure the LMRWD is more involved with projects proposed in the City. He has agreed to work with his staff to make sure the LMRWD see proposals before they are approved.

### **One Watershed One Plan - Planning Area 56**

The Resolution drafted by legal counsel and adopted by the LMRWD Board at the March meeting has been sent to LeSueur County and BWSR.

## **Watershed Plan Projects**

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**Gully Inventory and condition assessment:** In 2006, the LMRWD worked with the Conservation Corps to conduct inventory of gullies within the LMRWD. Several Gullies have been stabilized, other have not. Since it has been 15 years staff felt it is time to conduct an update. This item is on the May 2020 agenda. The work plan for this project can be found on the LMRWD website:

Project website: <http://lowermnrivewd.org/projects/mn-river-corridor-management-project>

**Eden Prairie Area #3 Stabilization** - This item is on the May 2020 agenda.

**Riley Creek Cooperative project/Lower Riley Creek restoration:** No new information since last update.

Project website: <http://www.rpbcwd.org/whats-happening/projects/lower-riley-creek-ecological-restoration>

**Seminary Fen ravine stabilization project:** The 2020 Legislative session is scheduled to end Monday, May 18th, Staff should have an update for the Board at the meeting.

Project website: <http://lowermnrivewd.org/projects/bwsr-clean-water-fund-grant-administration>

**East Chaska Creek: (Carver County Watershed Based Funding):** LMRWD staff met with the City on April 28th. Chaska would like the project to wait until early winter for construction. The LMRWD is still waiting for DNR permit approval and approval from the City Council. Project website:

<http://lowermnrivewd.org/projects/east-chaska-creek-bank-stabilization>

**Schroeder Acres Park (Scott County Watershed Based Funding):** No new information since last update.

Project website: <http://lowermnrivewd.org/projects/schroeder-acres-parkeagle-creek-sub-watershed-stormwater-study>

**Shakopee Downtown BMP Retrofit (Scott County Watershed Based Funding):** No new information to report since last update. Project website: <http://lowermnrivewd.org/projects/targeted-bmps-downtown-shakopee>

**PLOC (Prior Lake Outlet Channel) Restoration (Scott County Watershed Based Funding):** The LMRWD received the 99% plans for this project. LMRWD staff reviewed the plans and provided comments to the

City. Comments can be found on the [LMRWD website](http://lowermnriverwd.org/projects/prior-lake-outlet-channel-realignmentwetland-restoration). The Notice of decision for this project has been postponed until May 22 due to meeting Corps of Engineers requirements. Project website: <http://lowermnriverwd.org/projects/prior-lake-outlet-channel-realignmentwetland-restoration>

**Dakota County Fen Gap Analysis and Conceptual Model (Dakota County Watershed Based Funding):**

The final report is finished. It has been posted to the LMRWD website on the project page.

Project website: <http://lowermnriverwd.org/projects/dakota-county-fen-study-management-plan>

**Hennepin County Chloride Project (Hennepin County Watershed Based Funding):** Riley Purgatory Bluff Creek Watershed District, None Mile Creek Watershed District, Richfield/Bloomington Water Management and I held a virtual meeting. A draft of the Cost Share Agreement for Salt Applicators was discussed and a draft document was presented.

**Vegetation Management Plan:** No new information since last update.

**Sustainable Lake Management Plan: Trout Lakes:** No new information since last update.

**Geomorphic Assessment of Trout Streams:** This item is on the May 2020 agenda for action.

**Spring Creek Cost Share:** No new information to report since last update.

**West Chaska Creek Re-meander:** The agreement has been signed by all parties. Planting has begun and the project should be finished this season.

**Seminary Fen Ravine Restoration Area C2:** No new information to report since last update.

## **Project Reviews**

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**9960 Deerbrook, Chanhassen:** - This address is a private home in Chanhassen. In 2014, the property owner at that time contacted the LMRWD and informed the District that he had lost a large portion of his property in the same rainfall event that washed out the Minnesota River Bluffs Regional Trail (another property in the area also experienced a significant loss of property due to a slope failure. The home was sold in late 2019 and the new owner is looking to "fix" the slope.

I met with a contractor and landscape architect for the new homeowner and representatives from the City of Chanhassen. The topography of the neighborhood is that several large homes on equally large lots sit at the head of a significant ravine. There is no storm sewer in the street and most of the rainfall from the neighborhood probably ends up flowing to this ravine. This ravine is also part of the system that we think is contributing the heavy flow of sediment to the box culvert on Flying Cloud Drive.

After the on-site visit, I spoke with Charley Howley, the Public Works Director for the City. The contractor has proposed just filling in the ravine to shore up the slope in the backyard of the home. Incidentally, there is a pool in the backyard of the home. It appears that trees that were destabilized after the slope failure in 2014 were felled and tossed into the ravine.

Della and I have spoken and this is one area that we will focus on with the gully inventory. It is likely that it will have to wait until fall to be inspected and that we will have to inspect the ravine in the area with drones overhead.

**Beech Street Bridge replacement:** Chaska - No new information to report since last update.

**Summerland Place Residential Development EAW:** Shakopee - The LMRWD was notified on May 12, that the City issued a Negative Declaration of Need for an Environmental Impact Statement. The LMRWD has the Declaration, Findings of Fact and Record of Decision on record for this development.

**Timber Creek Residential Development EAW:** Carver - No new information to report since last update.

**MNDOT TH13 Improvement Study:** Staff reported on the April 15th meeting with MNDOT at the April Board meeting. MNDOT said they would have some pre

Project website: <http://www.dot.state.mn.us/metro/projects/hwy13savageburnsville/index.html>

**Historic Fort Snelling Revitalization:** No new information to report since the last update. Project

website: <https://www.dnr.state.mn.us/input/environmentalreview/upperpost/index.html>

**HCRRA MN River Bluffs Regional Trail:** The maintenance agreement has been reviewed by legal counsel and is now being routed for signatures.

**MNDOT ADA Trail improvements in Mendota:** No new information since last update.

**MNDOT trail drainage improvements in Lilydale:** No new information since last update.

**MNDOT Trail - 494:** No new information to report since last update.

**MNDOT - TH5:** This **No new information to report since last update.** Project website:

<http://www.dot.state.mn.us/metro/projects/hwy5mpls-stpaul/index.html>.

**City of Chanhassen - Moon Valley Gravel Pit:** No new information to report since last update.

**City of Carver - Hawthorne Ridge:** I spoke with the City Manager of Carver and asked for the storm water plan for this development. He had requested that it be provided to the LMRWD; however I have not yet seen it. I will be following up with him on this and other requests.

**Metropolitan Airport Commission - Environmental Assessment Worksheet for MSP Concourse G Infill -**

No new information since last update.

**City of Burnsville - Quarry Property, LLC -** No new information on this project since last update.

**City of Carver - Levee rehabilitation -** No additional information other than what was report in the May 2020 Executive Summary for this item on the agenda.

**City of Carver - Jonathan Parkway upgrades -** No new information to report since last update.

Project website: <https://www.co.carver.mn.us/departments/public-works/projects-studies/jonathan-carver-parkway-highway-11-improvements>

**City of Burnsville - CenterPoint Energy Training Facility -** No new information on this project since last update.

**City of Burnsville -5337 Properties, LLC:** No new information on this project since last update.

**City of Burnsville - Freedom Enterprises, LLC:** No new information on this project since last update.

**City of Burnsville - Industrial Equities - 250 River Ridge Circle North:** - No new information on this project since last update.

**City of Burnsville - United Properties - 12400 Dupont Avenue North:** No new information on this project since last update.

**City of Burnsville - Kraemer Mining:** No new information to report since last update.

**Dakota County - MN River Greenway:** No new information to report since last update. Project website:

<https://www.co.dakota.mn.us/parks/About/TrailPlanning/Pages/minnesota-river.aspx>

**City of Shakopee - Jackson Township AUAR:** No new information to report since last update.

**City of Burnsville - CenterPoint Energy Lyndale Valve Replacement Project:** No new information to report since last update.

**City of Eden Prairie - C. H. Robinson:** No new information to report since last update.

**City of Burnsville - Burnsville Sanitary Landfill:** There are two projects in Burnsville that have to do with landfill. I believe in the past I have made a distinction between these two projects. The Burnsville Sanitary Landfill project is a request from Waste Management to increase the allowance of waste that can be placed on the site. One of the reason for the request to increase the capacity of this landfill has to do with the project; the Freeway Landfill. The Burnsville Sanitary Landfill is a permitted landfill that meets current standards for solid water disposal.

The second project, Freeway Landfill is also a permitted landfill, but it does not meet current standards for solid waste disposal. Freeway Landfill is actually two sites both of which are closed facilities. One referred to as Freeway Dump is located east of I35W and is currently a golf driving range. The second site, Freeway Landfill, is directly across the Interstate from Freeway Dump.

Neither of those solid waste disposal sites are lined and are leaching pollutants. The dewatering that is being done for mining operations at Kraemer Quarry is preventing the leachate from reaching the Minnesota River and groundwater that is used for municipal supplies for the cities of Burnsville and Savage.. One of the concerns driving the cleanup of the Freeway Dump and the Freeway Landfill is to prevent the leachate from reaching the Minnesota River and groundwater below once the Quarry closes.

The MPCA is currently working to prepare plans to deal with both sites. There are basically two proposals to address the Freeway Dump and Freeway Landfill. The first is a proposal to dig up the solid waste and haul it to another site for disposal. This is referred to as the "Dig and Haul" option. This option is where the two project become intertwined, because one of the disposal sites being proposed is the Burnsville Sanitary Landfill.

The second option has three different plans. All three involve digging and lining the current Landfill site. This option is called the "Dig and Line" option. The cheapest option would dig the material from the landfill, line the site and replace it on site within the smallest footprint (60 acres), but the highest elevation (850 feet). More expensive is to dig the Landfill site, line the site with the largest footprint (80 acres) within the space available and the lowest height (790 feet). The third option is a hybrid of the other two options; dig the Landfill, line the site and replace the waste with a footprint between the other two choices (76 acres). The height of this option is 795 feet. All heights are the elevation above sea level. For comparison the elevation of the Minnesota River at minor flood stage is 702 feet above sea level.

The MPCA is proposing to bid the two options; Dig & Haul and Dig & Line. They will take the two bids to the Legislature in 2021. The Legislature will be asked to choose between the two options and then provide funding. The MPCA hopes to begin construction in 2021.

LMRWD staff has been meeting with the MPCA and consultant, Barr Engineering, to make sure LMRWD standards are taken into consideration in the design and final proposal. The MPCA held a virtual public meeting Monday, May 18th. Both Della and I joined the meeting. Katy from Della's Staff also joined.

The MPCA has a website set up for the project at: <https://www.pca.state.mn.us/waste/freeway-landfill-and-dump>

**City of Eden Prairie - Peterson Wetland Bank:** No new information to report since last update.

**City of Chanhassen - TH 101 Improvements:** On April 30th there was a major discharge of sediment laden water to Bluff Creek. This was discovered by inspectors from the Carver SWCD and the City of Chanhassen. The LMRWD was not aware that any dewatering was occurring on this project. There is an application for water appropriation being considered for replacement of a sanitary sewer as part of the project, but the dewatering that created the release of the sediment was not permitted. It is possible that the dewatering fell below the threshold that would require a permit. The DNR was notified and consulted as to how to proceed. The LMRWD requested that the entire project examine the total need

for dewatering and that the DNR request that observation wells be monitored to determine whether or not dewatering connected to this project is having any impact on other water resource in the area, specifically, Seminary Fen and Bluff Creek.

LMRWD staff is conducting regular inspections of this project and the most recent inspection report is attached. Project website: <https://www.highway101improvements.com/>

**Cities of Richfield/Bloomington - TH 77 & 77th Street underpass:** No new information to report since last update.

**MPCA - MN River TSS TMDL:** No new information to report since last update.

**MPCA - Watonwan River Watershed Maximum Daily Load Study Draft Report and Watershed Restoration and Protection Strategy:** No new information to report since last update.

**MPCA - Middle Minnesota River Watershed Total Maximum Daily Load Study Draft Report and Watershed Restoration and Protection Strategy:** No new information to report since last update.

**MPCA - Lower Minnesota River Watershed Total Maximum Daily Load Study Draft Report and Watershed Restoration and Protection Strategy:** No new information to report since last update.

**City of Bloomington - MN Valley State Trail:** No new information to report since last update. Project website: [https://www.dnr.state.mn.us/state\\_trails/minnesota\\_valley/plans.html](https://www.dnr.state.mn.us/state_trails/minnesota_valley/plans.html)

**Hennepin County - CSAH 61/Flying Cloud Drive:** The most recent inspection report is attached. Ames Construction is planning to be done with the project by the end of May. The LMRWD has been sharing our inspection reports with other parties and has requested that a meeting be called to discuss ongoing maintenance issue, such as the amount of sediment that has been collecting in drainage location along the corridor. Base on initial response to our request, it looks like the LMRWD may have to take the lead in organizing any discussion of ongoing maintenance.

**MNDOT - I494/TH 5/TH 55 Mill & Overlay project:** No new information to report since last update. Project website: <https://www.dot.state.mn.us/metro/projects/i494invergroveheights/>

**MNDOT - I35W Bridge Replacement:** No new information to report since last update. Project website: <https://www.dot.state.mn.us/metro/projects/i35wbloomington/index.html>

**MNDOT - I494 from TH169 to Minnesota River:** No new information to report since last update.

**Scott County - TH 41/169/78 Interchange:** No new information to report since last update. Project website <https://www.scottcountymn.gov/1778/Highways-1694178-Interchange?PREVIEW=YES&PREVIEW=YES&PREVIEW=YES&PREVIEW=YES>

**City of Shakopee - Amazon Fulfillment Center drainage:** The LMRWD received response to the comments that the District provided to the City on the project. The City received all permits for the project and has bid the project. A contract was awarded to Ryan Contracting, Inc. on April 21st. The City planned to begin construction on April 27th.

**MAC/LMRWD/MCWD boundary realignment:** No new information to report since last update.

**Fort Snelling - Dominion Housing:** No new information since last update. The DNR's website for this project is <http://www.dnr.state.mn.us/input/environmentalreview/upperpost/index.html>.

**USACOE/USFWS - Bass Ponds, Marsh & Wetland:** This project was discussed at the COE River Resource Forum on April 21, 2020. Bid opening for this project was scheduled for April 14, however, due to COVID 19 the bid opening was rescheduled to May 14. The August River Resource Forum is scheduled to be held in Savage and there is talk about visiting this site then. The purpose of this project is to allow for seasonal variability of the water level in Blue, Rice and Fisher Lakes. When the Minnesota River floods and inundates the lakes, the condition of existing outlet structures does not allow the flood water



to recede, even when the water level of the River allows. Beavers have also exacerbated the problem. Some pictures of the deteriorated structures were provided by the COE (attached). They plan to construct a double box outlet structure similar to on that was constructed on Long Meadow Lake in Bloomington.

The LMRWD received a call from a contractor planning to bid on this project. He inquired as to whether or not material dredged from the wetland area could be placed on the Vernon Avenue Dredge site. I told him that decision was ultimately up to the Board, but that staff would not recommend additional material be placed there. Project website: <https://www.scottcountymn.gov/1865/Bass-Ponds-EAW>

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### **Upcoming meetings/events**

- UMWA - Thursday, May 21, 2020, 12:30pm to 1:30pm, check with District Administrator to join
- USACE River Resource Forum #116 - April 21-22, National Eagle Center, Wabasha, MN - This event has been changed to a one day online event
- USACE River Resource Forum #117 - August 25-26, Savage City Hall
- USACE River Resource Forum #118 - December 1-2, MN Valley US Fish & Wildlife Service Visitor's Center, Bloomington, MN

# Memorandum



**DATE:** May 11, 2020 *(Email transmittal)*

**TO:** Linda Loomis—Administrator, LMRWD

**FROM:** Shane Soukup, Water Resources Scientist  
Della Schall Young, PMP, CPESC

**SUBJECT:** Stormwater Visit Summary  
May 8, 2020, 5:30–6:10 a.m.  
TH 101—Great Plains Boulevard  
Owner—City of Chanhassen and Contractor—S.M. Hentges & Sons Inc.

**WEATHER:** 35°F, sunny—per AccuWeather

## SITE CONDITIONS/PHASE

Construction began in March 2020 and is currently in Phase 1, which takes place on the segment of TH 101 between Flying Cloud Drive and Creekwood Drive. Construction activities that were completed or underway during the site inspection included excavation and grading activities in various locations along TH 101, erosion and sediment control practices in place, construction of the Creekwood Drive cul-de-sac, construction of the Lakota Lane connection, and excavation and grading north of the Highway 61 roundabout.

The City of Chanhassen and its project partners, Carver County and the Minnesota Department of Transportation, have developed the Highway 101 Improvements website found here: <https://www.highway101improvements.com>. The website provides the public with general information regarding the project, construction updates, contact information, and relevant project documents. The most recent construction update is dated May 8, 2020, and it shows the status and planned construction activities, which include the following:

- Status
  - Excavation and grading activities are occurring north of the Highway 61 roundabout and along Highway 101.
  - Sanitary sewer is being installed north of the Highway 61 roundabout.
  - Lakota Lane connection road is under construction.
  - Creekwood Drive cul-de-sac is under construction.
  - Private utilities (gas, electric, etc.) are relocating their facilities.
- Planned
  - Highway 101 will be closed to traffic from Highway 61 to Lakota Lane beginning on May 11.
  - Excavation and grading activities will continue along Highway 101 between Highway 61 and Creekwood Drive.
  - Box culvert installation will occur north of the Highway 61 roundabout.
  - Private utility relocations will continue.



# Memorandum *(cont'd)*

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## PRESENT

Shane Soukup—Young Environmental Consulting Group

## PURPOSE

To observe stormwater management/erosion control techniques implemented by S.M. Hentges & Sons Inc. on the reconstruction of Great Plains Boulevard/Trunk Highway 101 from Flying Cloud Drive to Pioneer Trail in the City of Chanhassen in Carver County.

## GENERAL NOTES/OBSERVATIONS

- Construction crews had not arrived at the time of site inspection.
- Photos were taken observing current construction activities taking place and accompanying BMPs. These activities, BMPs, and observations include the following:
  - Excavation and grading activities north of Highway 61 roundabout (photos 1–7)
    - Dewatering activities occurring near Bluff Creek (photo 1)
      - No water flowing through the dewatering hose at the time of inspection
    - Sediment runoff occurring, creating a drainage channel to Bluff Creek (photos 2–6)
  - Excavation and grading activities near Vogelsberg Trail (photos 8–9).
    - Silt sock applied on the downgradient side of excavation and grading activities (photo 9)
  - Grading and roadbed preparation for the Lakota Lane connection (photos 10–12)
    - Silt fence applied around stockpiles (photo 11)
    - Sediment tracking into the roadway (photo 12)
  - Earthwork occurring in preparation for the Creekwood Drive cul-de-sac (photos 13–20)
    - Excavated drainage channel with rock applied throughout (photos 14–17). This drainage channel is not highlighted in the SWPPP.
    - Dewatering into excavated drainage channel (photos 18–20)
  - Soil eroding into drainage channel just east of Creekwood Drive (photos 21–22)
  - Earthwork activities occurring in the east ravine located north of Creekwood Drive and adjacent to the Mustard Seed (photos 23–28)
    - Dewatering activities in the ravine (photos 23–25)
    - Temporary pond established in the ravine (photo 27)

# Memorandum *(cont'd)*

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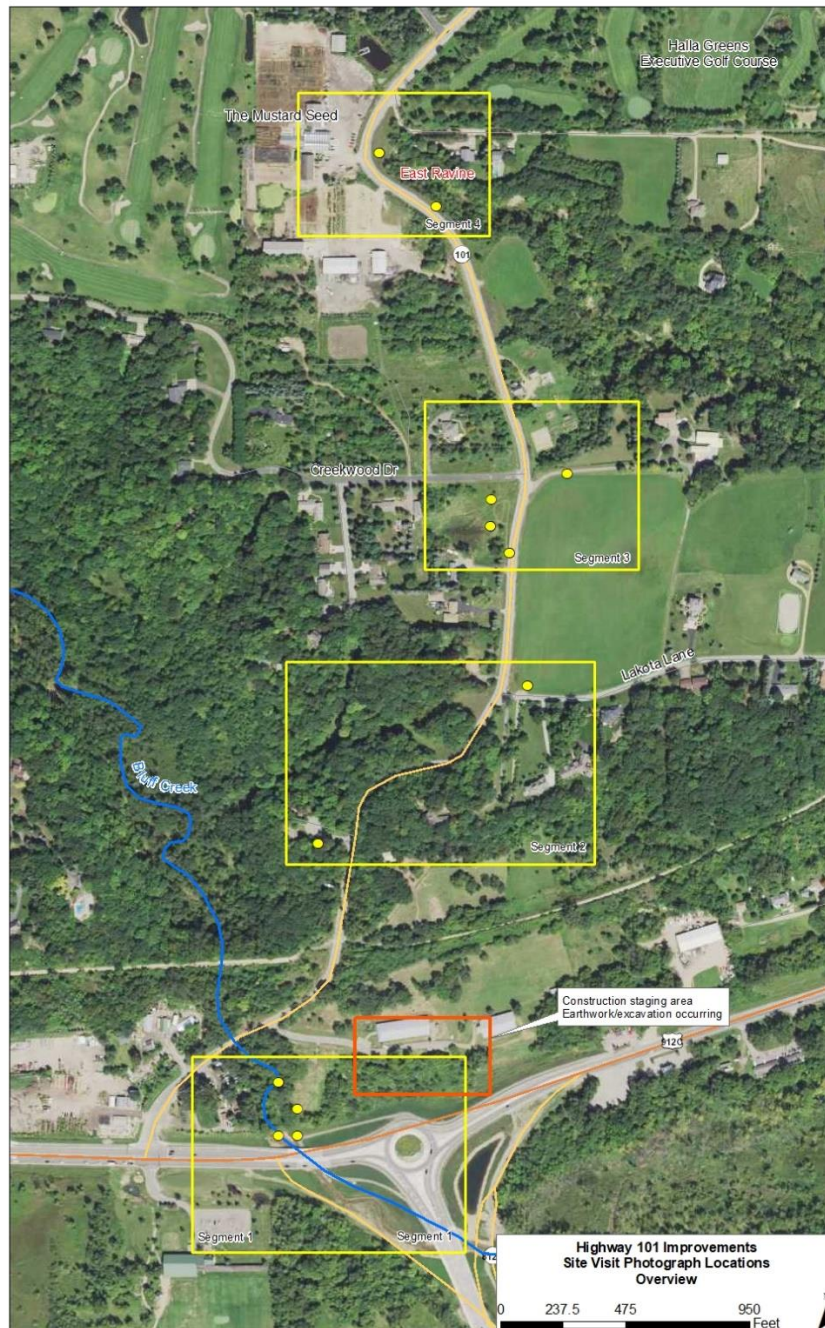
## RECOMMENDATIONS

- Install proper BMPs to prevent sediment from entering the eroded drainage channel to Bluff Creek (photos 2–6).
- Sweep and maintain adjacent side streets, as required by the NPDES Construction Stormwater Permit and the Project's SWPPP. Evidence of sweeping has been noted by the contractor and in the Carver County Soil and Water Conservation District report. However, sediment was noted in the roadways before daily construction activities began (photo 12).
- Install proper BMPs to prevent sediment from entering drainage channel just east of Creekwood Drive (photos 21–22).
- Investigate/confirm whether downgradient erosion and sediment control measures have been installed in the east ravine (photo 28). Discuss with the contractor and project managers to determine the extent of construction activities occurring in the ravine at this time.
- If the project SWPPP has been updated, request a copy of the updated version.
- Continue weekly site inspections; the next scheduled inspection is May 15, 2020.

## Memorandum (cont'd)

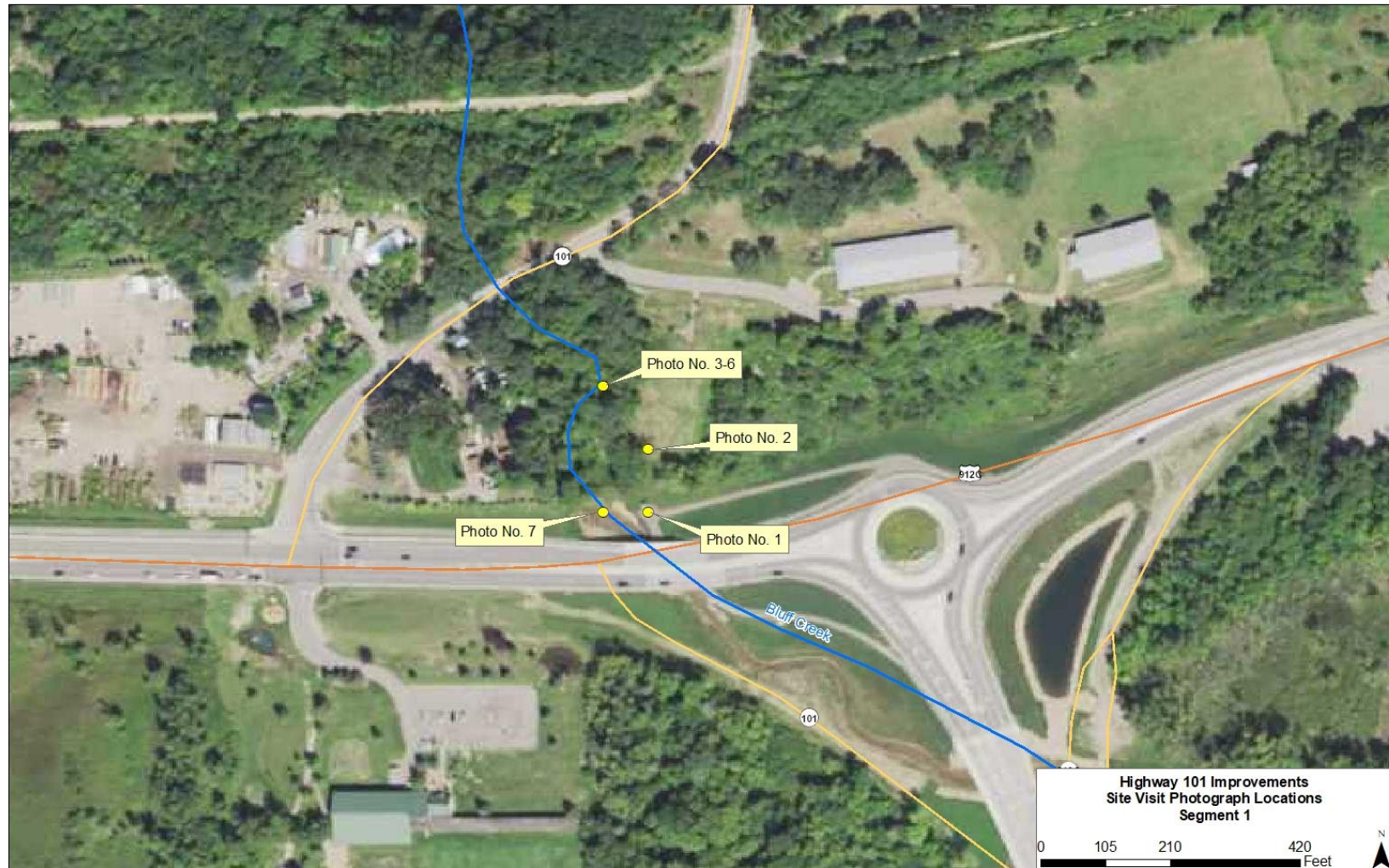
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Below is a map indicating where photos were taken. Photos include observations, coordinates, a white arrow indicating north, and a yellow arrow indicating flow direction. Due to the ongoing construction activities, the aerial photographs do not reflect the current ground conditions of the site.





# Memorandum



## Memorandum (cont'd)

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# Memorandum (cont'd)

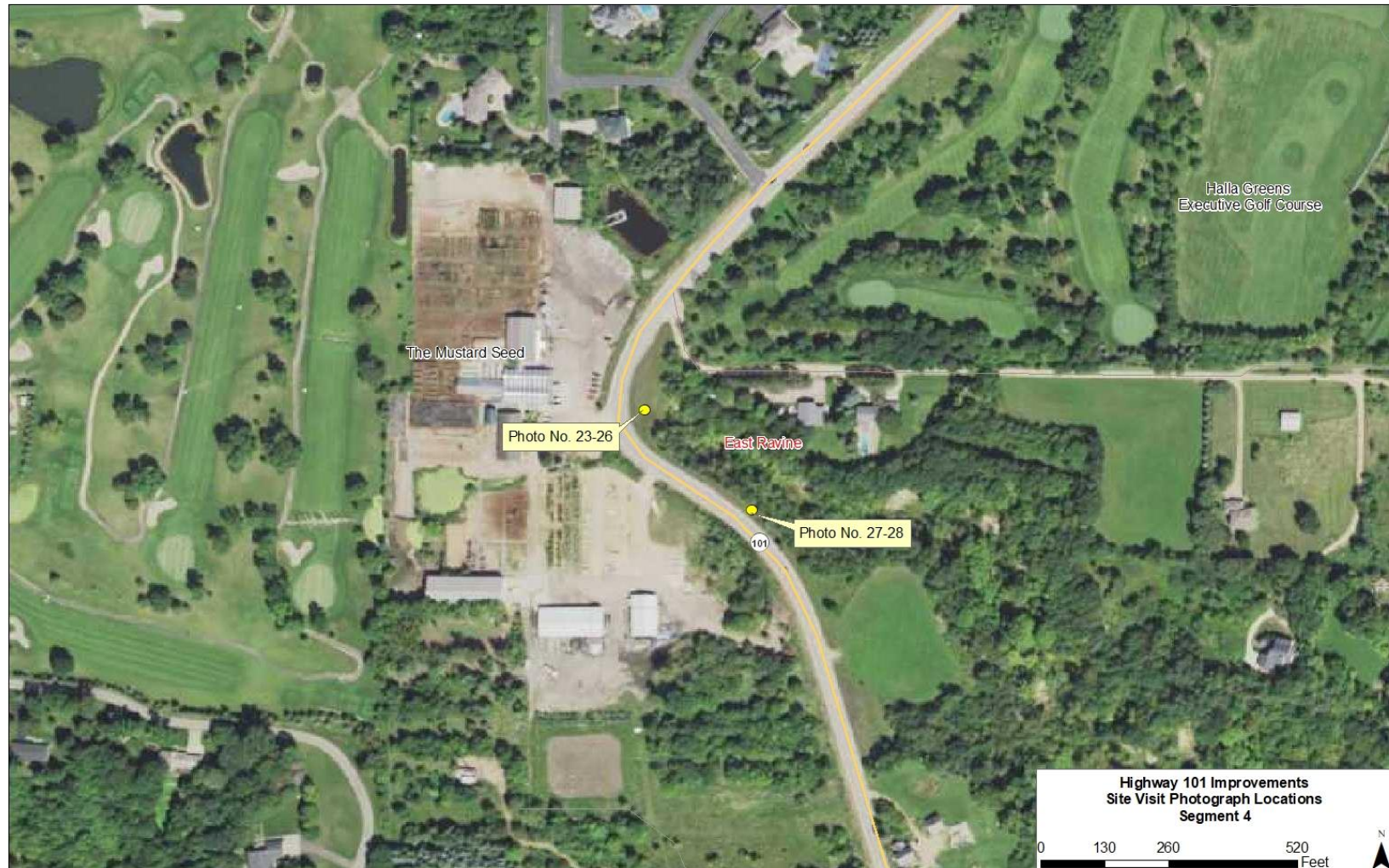
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# Memorandum (cont'd)

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1



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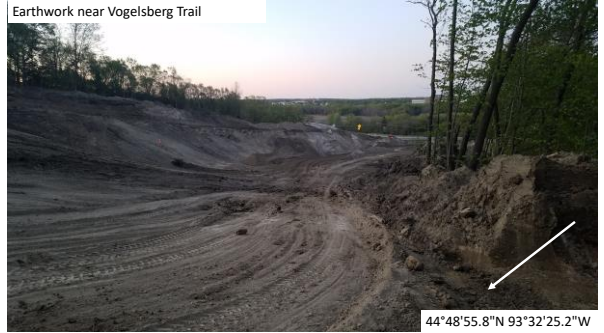
6

Bluff Creek, downstream of drainage channel



7

Earthwork near Vogelsberg Trail



8

Silt sock downgradient of earth work near Vogelsberg Trail



9

Lakota Lane connection



10

Recently installed silt fence around stockpiles near Lakota Lane



11

Sediment tracking into the roadway near the Lakota Lane connection



12



Creekwood Drive connection



13

Excavated drainage channel near the Creekwood Drive connection



14



15

Excavated drainage channel near the Creekwood Drive connection



16



17



18



Dewatering activities occurring in the excavated drainage channel



19



20

Soil eroding into drainage channel near Creekwood Drive



21

Soil eroding into drainage channel near Creekwood Drive



22

Dewatering activities in the east ravine



23

Dewatering activities in the east ravine



24

Dewatering activities in the east ravine



44°49'21.4"N 93°32'22.0"W

25

Grading and earthwork in the east ravine



44°49'21.4"N 93°32'22.0"W

26

Small holding pond with overflow pipe in the east ravine



44°49'19.4"N 93°32'19.7"W

27

Grading and earthwork in the east ravine



44°49'19.4"N 93°32'19.7"W

28



# Memorandum



**DATE:** May 5, 2020

*(Email transmittal)*

**TO:** Linda Loomis—Administrator, LMRWD

**FROM:** Shane Soukup, Water Resources Scientist  
Della Schall Young, PMP, CPESC

**SUBJECT:** Stormwater Visit Summary  
May 1, 2020, 6:20–7:00 a.m.  
CSAH 61—Flying Cloud Drive  
Owner—Hennepin County and Contractor—Ames Construction

**WEATHER:** 50°F, sunny—per AccuWeather

## **SITE CONDITIONS/PHASE**

The majority of road construction is complete, and the site is now open to all traffic. The multiuse trail on the north side of Flying Cloud Drive is now paved.

## **PRESENT**

Shane Soukup—Young Environmental Consulting Group

## **PURPOSE**

To observe stormwater management/erosion control techniques implemented by Ames Construction on the reconstruction of Flying Cloud Drive/County State Aide Highway (CSAH) 61 from Highway 101 to Charlson Road in the cities of Eden Prairie and Chanhassen and in Carver and Hennepin Counties.

## **GENERAL NOTES/OBSERVATIONS**

Following the site inspection, Nathan Bren was contacted to determine an approximate end date for the project as well as to discuss the sediment deposition near Rice Lake noted below. Nathan noted that the project is anticipated to be completed at the end of May. Regarding the sediment deposition near Rice Lake, Nathan noted that the deposition is due to sediment and runoff coming from the Moon Valley gravel pit. The area is currently being discussed with Carver and Hennepin Counties.

- Photos were taken observing drainage in critical areas throughout the project. Critical areas include the following:
  - Culvert near entrance to JMH Automotive
  - Box culvert near Erie Lane
    - High sediment levels throughout the culvert, as noted in previous reports (photos 8–11)

## Memorandum *(cont'd)*

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- Culvert near Moon Valley gravel pit
  - Sediment delta formed at the outlet of the culvert (photos 17, 19)
- Box culvert near Dell Road
  - BMPs applied to the inlet and outlet of the culvert to mitigate erosion issues noted in the previous reports (photos 23–26)
- Culvert located between Eden Prairie Road and Dell Road (photos 30–31)
  - Water flowing through the culvert appeared clear at the time of inspection

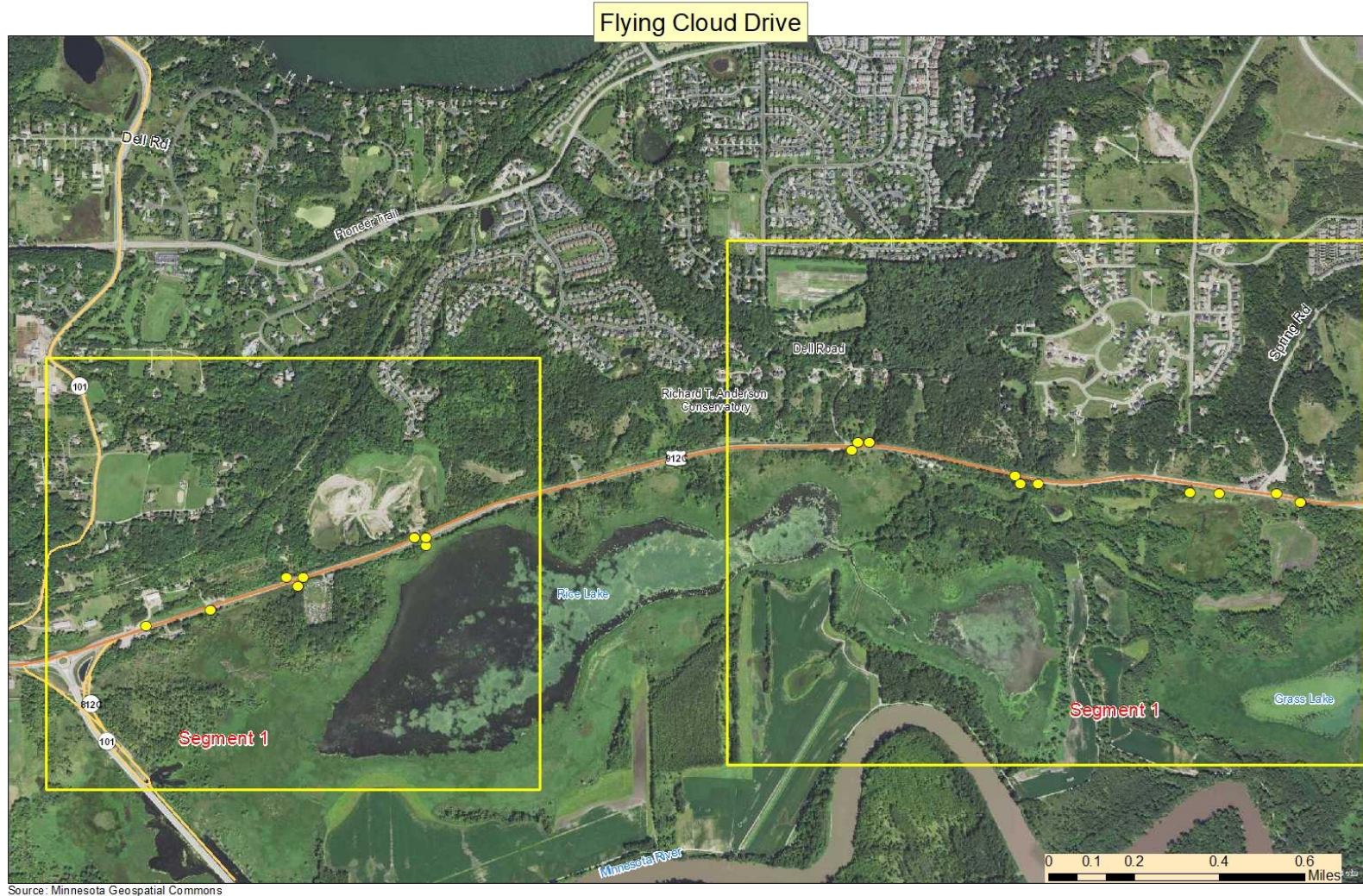
### RECOMMENDATIONS

- Continue to monitor the sediment levels at the outlets of the culverts listed above throughout the site. Maintain as necessary to ensure the hydraulic features and BMPs function as designed.
- Contact Nathan Bren to clarify the path forward, as agreed upon with Hennepin and Carver Counties, for the sediment delta near Rice Lake (photos 17, 19).
- Remove sediment from the box culvert adjacent to Erie Lane (photos 8–11).
- Continue site visits every other week. The next scheduled inspection is May 15, 2020.

# Memorandum



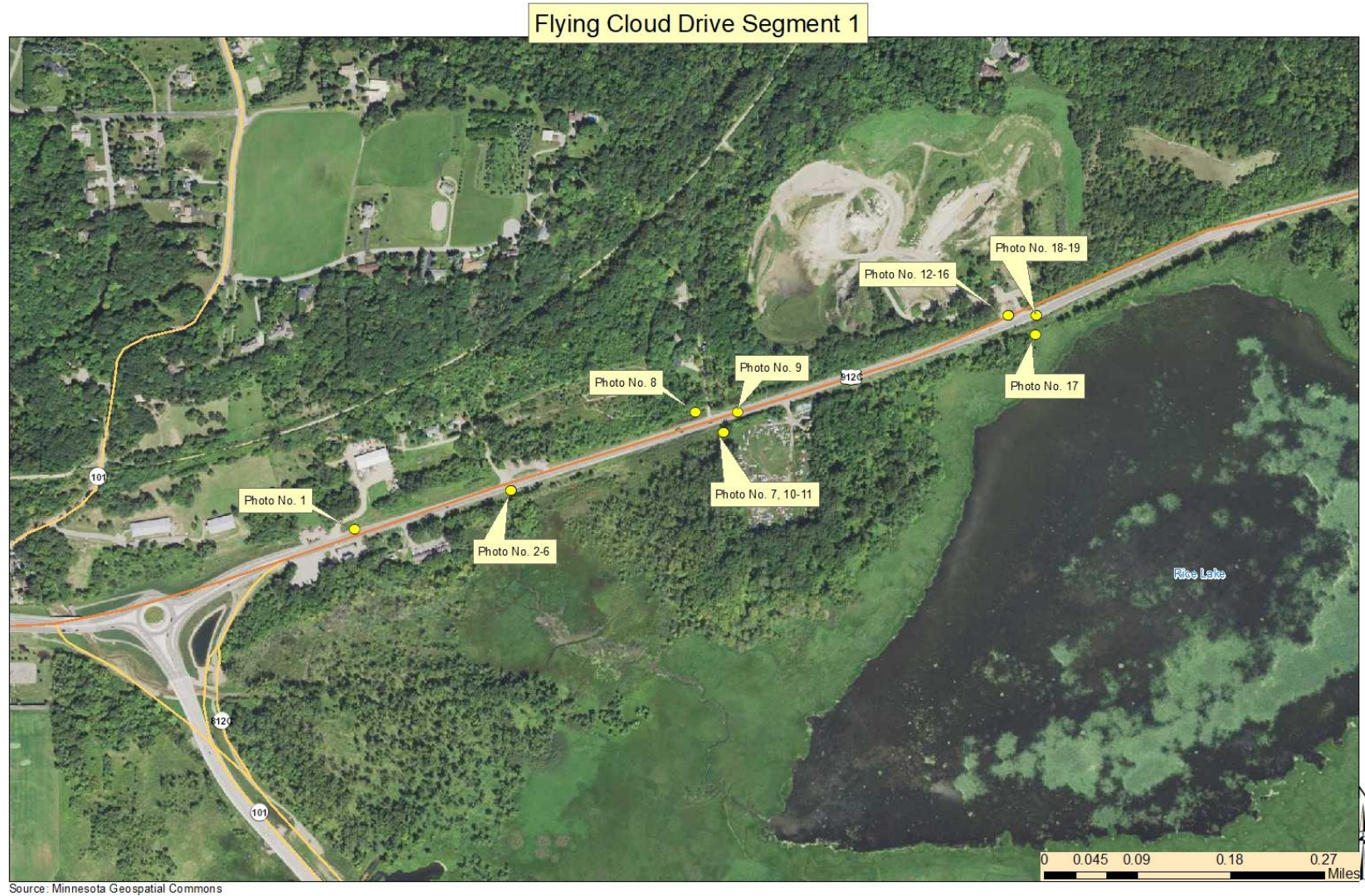
Below is a map indicating where photos were taken. Photos include observations, coordinates, a white arrow indicating north, and a yellow arrow indicating flow direction.





## Memorandum (cont'd)

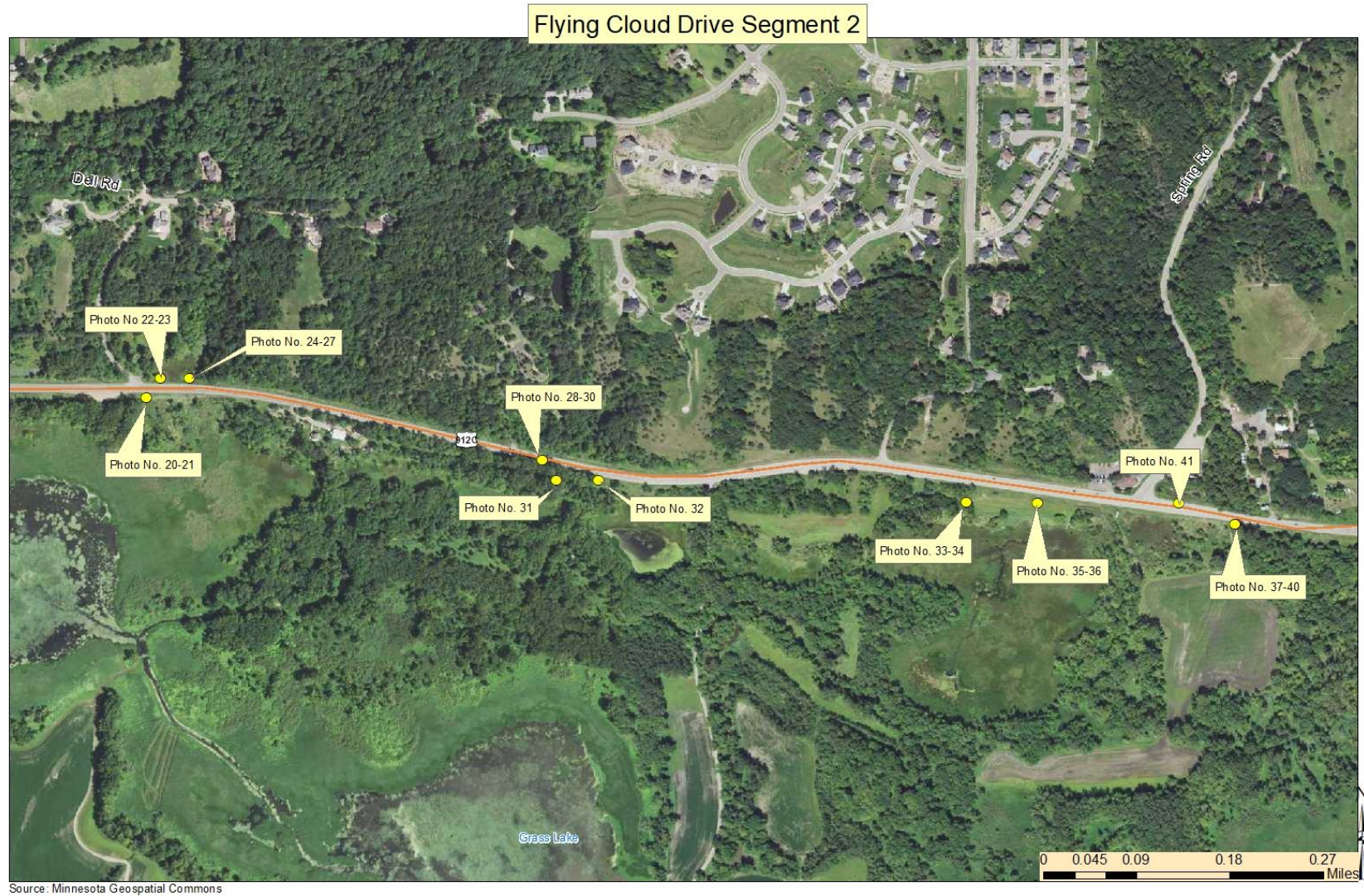
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# Memorandum (cont'd)

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16



17



18



Inlet of culvert near Moon Valley gravel pit.  
Sediment delta formed at the outlet



19



20



21



22

Inlet of culvert near Dell Road. BMPs applied to  
address erosion issues



23

Inlet of culvert near Dell Road. BMPs applied to  
address erosion issues



24



Outlet of culvert near Dell Road. BMPs applied to address erosion issues



25

Outlet of culvert near Dell Road. BMPs applied to address erosion issues



26

Inlet of culvert near Dell Road



27



28



29



30

Outlet of culvert between Dell Road and Eden Prairie Road



44°49'06.6"N 93°29'36.1"W

31

Vegetation taking hold in infiltration area



44°49'06.6"N 93°29'33.0"W

32



44°49'05.6"N 93°29'07.9"W

33



44°49'05.6"N 93°29'07.9"W

34

Erosion control blanket applied in various locations throughout site



44°49'05.6"N 93°29'02.9"W

35

Erosion control blanket applied in various locations throughout site



44°49'05.6"N 93°29'02.9"W

36





37



38



39



40



41