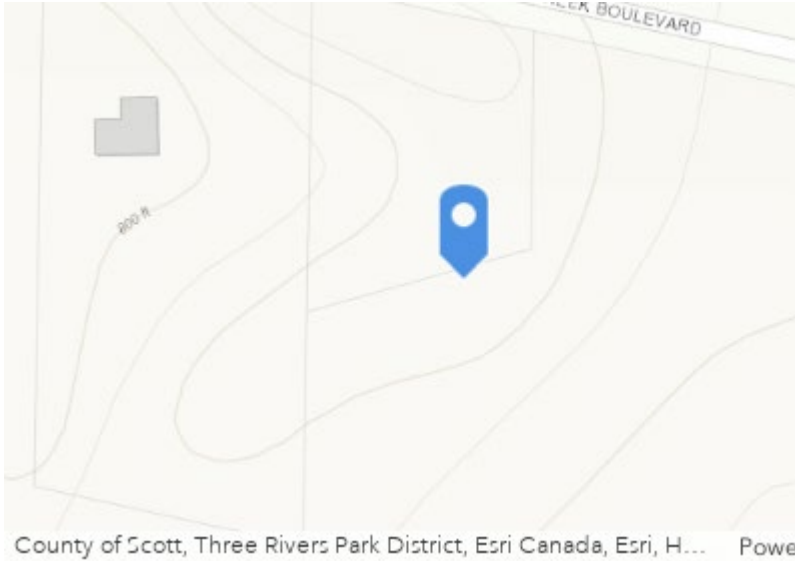


<p>Gully ID: 07:07-11:46</p>	<p style="text-align: center;">MAP</p> 
<p>Date & Time: July 7, 2021 11:46 AM</p>	
<p>Location: Shakopee</p>	
<p>Weather: Cloudy</p> <p>Storm/Rainfall Event in the Past 24 Hours? Yes-Low Intensity</p>	
GULLY INFORMATION	
<p>Calculated Erosion Potential:</p>	<p>Moderate</p>
<p>Approximate Depth:</p>	<p>1-Shallow (<3')</p>
<p>Approximate Bottom Width:</p>	<p>3-Medium (1'-5')</p>
<p>Approximate Gully Length:</p>	<p>5-Long (>100')</p>
<p>Condition of Gully Bottom:</p>	<p>5-Bare Soil</p>
<p>Condition of Gully Banks:</p>	<p>1-Heavy Vegetation</p>
<p>Gully Bank Angles:</p>	<p>3-Mid-Range (45 to 90 degrees)</p>
<p>Gully Shape:</p>	<p>3-U-Shaped</p>
<p>Gully Material:</p>	<p>Gravel/Cobble/Boulders</p>

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:	1-Low	
Aggradation:	1-Low	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Trickle/Slow Moving</p> <p>Notes/Comments: This gully is a stream that runs through a grassy fie,d and under the road connecting to another gully. Upstream there are large trees leaning over the channel. couldnt reach area where stream drains into pipe under road due to heavy vegetation.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view of large leaning trees.

Photo 2 Image



Photo 2 View Direction

Upstream

Photo 2 Caption

Upstream view of gully.

Photo 3 Image

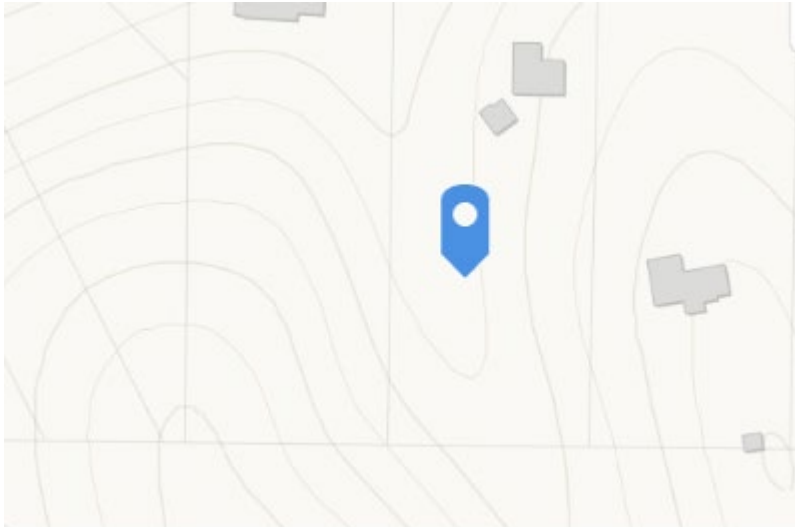


Photo 3 View Direction

Downstream

Photo 3 Caption

Downstream view of gully.

Gully ID: 07:07-11:23	<p style="text-align: center;">MAP</p>  <p style="font-size: small; text-align: center;">County of Scott, Three Rivers Park District, Esri Canada, Esri, H... Power</p>
Date & Time: July 7, 2021 11:23 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? Yes-Low Intensity	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	1-Obtuse (>90 degrees or flat)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:	3-Moderate	
Aggradation:	1-Low	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Gully in woods behind houses. Very wide and deep. Has small deeper area in the center that looks like maybe a ravine when there is water in the gully.</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Upstream view of right bank.

Photo 2 Image



Photo 2 View Direction

Upstream

Photo 2 Caption

Upstream view of left bank.

Photo 3 Image



Photo 3 View Direction

Downstream

Photo 3 Caption

Downstream view of end of gully which feed directly into private property.

Photo 4 Image

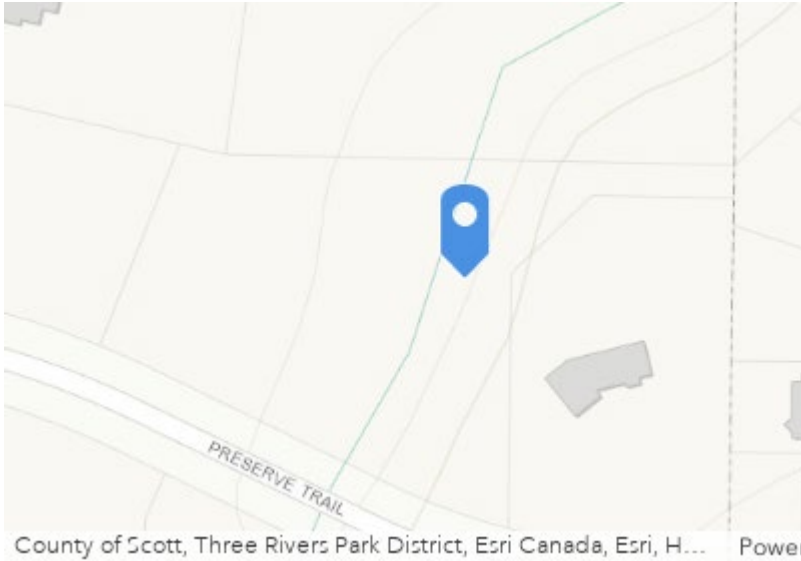


Photo 4 View Direction

Upstream

Photo 4 Caption

Upstream view of area where a stream potentially runs through the gully.

Gully ID: 06:21-12:02	<p style="text-align: center;">MAP</p> 
Date & Time: June 21, 2021 12:02 PM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? Yes-High Intensity	
GULLY INFORMATION	
Calculated Erosion Potential:	Low
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	3-Medium (50'-100')
Condition of Gully Bottom:	1-Heavy Vegetation
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:		3-Moderate
Aggradation:		0-None
Slumping:		1-Yes
Additional Notes:	<p>Classification? Low</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Gully in neighborhood next to eagle creek. Heavy vegetation and slumping with leaning trees.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view from right bank.

Photo 2 Image

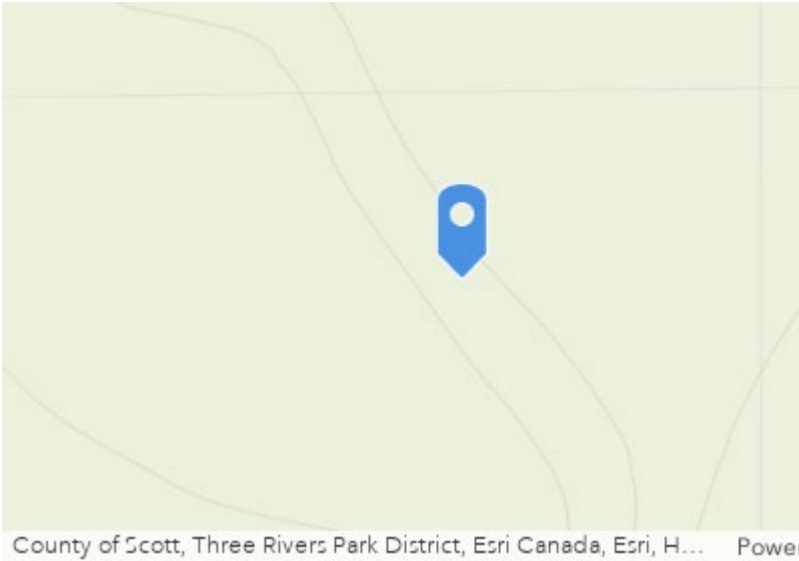


Photo 2 View Direction

Upstream

Photo 2 Caption

Upstream view from bottom of gully. Tree on right bank is leaning and slumping.

Gully ID: 07:13-09:30	<p style="text-align: center;">MAP</p> 
Date & Time: July 13, 2021 9:30 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	3-Medium (50'-100')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	0-No	
Degradation:		1-Low
Aggradation:		1-Low
Slumping:		1-Yes
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Some slumping and pistol shaped trees, meets with next gully at end, more vegetation on left bank than right</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Left bank

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Right bank

Photo 3 Image




Photo 3 View Direction

Downstream

Photo 3 Caption

Bottom

<p>Gully ID: 07:12-12:32</p>	<p style="text-align: center;">MAP</p> 
<p>Date & Time: July 12, 2021 12:32 PM</p>	
<p>Location: Shakopee</p>	
<p>Weather: Sunny</p> <p>Storm/Rainfall Event in the Past 24 Hours? No</p>	
GULLY INFORMATION	
<p>Calculated Erosion Potential:</p>	<p>Moderate</p>
<p>Approximate Depth:</p>	<p>3-Medium (3'-15')</p>
<p>Approximate Bottom Width:</p>	<p>3-Medium (1'-5')</p>
<p>Approximate Gully Length:</p>	<p>5-Long (>100')</p>
<p>Condition of Gully Bottom:</p>	<p>3-Some Vegetation</p>
<p>Condition of Gully Banks:</p>	<p>1-Heavy Vegetation</p>
<p>Gully Bank Angles:</p>	<p>3-Mid-Range (45 to 90 degrees)</p>
<p>Gully Shape:</p>	<p>5-V-Shaped</p>
<p>Gully Material:</p>	<p>Silt/Clay</p>

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	0-None	
Fallen Trees:	0-No	
Degradation:		1-Low
Aggradation:		1-Low
Slumping:		0-No
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Continued from other side of road, goes pretty far down, two piles lead out to it, not much visible degradation</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Left bank

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Right bank

Photo 3 Image




Photo 3 View Direction

Upstream

Photo 3 Caption

Pipes

Gully ID: 07:08-10:03	<p style="text-align: center;">MAP</p> 
Date & Time: July 8, 2021 10:03 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	High
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	1-Short (<50')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	5-High Flow	
Fallen Trees:	1-Yes	
Degradation:	3-Moderate	
Aggradation:	1-Low	
Slumping:	0-No	
Additional Notes:	<p>Classification? High</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Torrent/Fast Moving</p> <p>Notes/Comments: Second part of gully connected through pipes leading into the river. The right bank is worse than the left bank for degradation.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view of gully, inflow and outflow pipes are visible.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of right bank which has worse degradation.

Photo 3 Image



Photo 3 View Direction

Downstream

Photo 3 Caption

Downstream view of inflow pipe and left bank.

Photo 4 Image




Photo 4 View Direction

Downstream

Photo 4 Caption

Downstream view of outflow pipe.

Gully ID: 07:08-10:10	MAP 
Date & Time: July 8, 2021 10:10 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	1-Short (<50')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	1-Obtuse (>90 degrees or flat)
Gully Shape:	3-U-Shaped
Gully Material:	Gravel/Cobble/Boulders

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	5-High Flow	
Fallen Trees:	0-No	
Degradation:		3-Moderate
Aggradation:		1-Low
Slumping:		0-No
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Torrent/Fast Moving</p> <p>Notes/Comments: Other side of pipe from previous gully, boulders armoring the gully, leads directly into river</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Full gully

Photo 2 Image




Photo 2 View Direction

Downstream

Photo 2 Caption

Pipe

Gully ID: 07:08-09:35	<p style="text-align: center;">MAP</p> 
Date & Time: July 8, 2021 9:35 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	High
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	1-Short (<50')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	5-Acute (<45 degrees or undercut)
Gully Shape:	5-V-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	0-No	
Degradation:	5-Severe	
Aggradation:	3-Moderate	
Slumping:	0-No	
Additional Notes:	<p>Classification? High</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Trickle/Slow Moving</p> <p>Notes/Comments: Multiple very similar gullies all kind of connected, leads directly into river, high erosion, can see sediment deposit directly into river</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

View of gully

Photo 2 Image

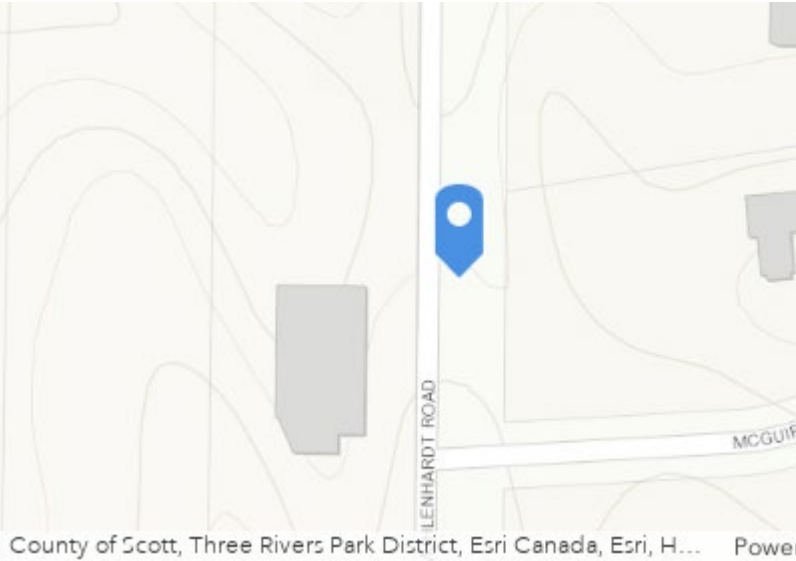


Photo 2 View Direction

Downstream

Photo 2 Caption

Left side

<p>Gully ID: 07:07-09:13</p>	<p style="text-align: center;">MAP</p> 
<p>Date & Time: July 7, 2021 9:13 AM</p>	
<p>Location: Shakopee</p>	
<p>Weather: Cloudy</p> <p>Storm/Rainfall Event in the Past 24 Hours? Yes-High Intensity</p>	
GULLY INFORMATION	
<p>Calculated Erosion Potential:</p>	<p>Moderate</p>
<p>Approximate Depth:</p>	<p>1-Shallow (<3')</p>
<p>Approximate Bottom Width:</p>	<p>3-Medium (1'-5')</p>
<p>Approximate Gully Length:</p>	<p>3-Medium (50'-100')</p>
<p>Condition of Gully Bottom:</p>	<p>3-Some Vegetation</p>
<p>Condition of Gully Banks:</p>	<p>3-Some Vegetation</p>
<p>Gully Bank Angles:</p>	<p>1-Obtuse (>90 degrees or flat)</p>
<p>Gully Shape:</p>	<p>3-U-Shaped</p>
<p>Gully Material:</p>	<p>Silt/Clay</p>

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:		1-Low
Aggradation:		1-Low
Slumping:		1-Yes
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Shallow gully with a dam thing half way through. Lots of fallen trees and branches at the end of gully downstream, but not much visible degradation</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

End of gully

Photo 2 Image



Photo 2 View Direction

Upstream

Photo 2 Caption

Dam in middle

Photo 3 Image



Photo 3 View Direction

Upstream

Photo 3 Caption

Left bank

Photo 4 Image




Photo 4 View Direction

Upstream

Photo 4 Caption

Right bank

Gully ID: 07:07-08:43	MAP 
Date & Time: July 7, 2021 8:43 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? Yes-Low Intensity	
GULLY INFORMATION	
Calculated Erosion Potential:	High
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	1-Short (<50')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	5-V-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	0-None	
Fallen Trees:	0-No	
Degradation:	5-Severe	
Aggradation:	3-Moderate	
Slumping:	0-No	
Additional Notes:	<p>Classification? High</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Gully likely formed from somebody's gutter, looks to run underground then cause erosion in hard. Kind of leads into previous site.</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Gutter and start

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Full gully

Photo 3 Image




Photo 3 View Direction

Upstream

Photo 3 Caption

Continuation

Gully ID: 07:07-08:50	MAP 
Date & Time: July 7, 2021 8:50 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? Yes-Low Intensity	
GULLY INFORMATION	
Calculated Erosion Potential:	High
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	5-V-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:		3-Moderate
Aggradation:		1-Low
Slumping:		1-Yes
Additional Notes:	<p>Classification? High</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Gully running behind house in the woods. Begins with an obtuse u shape then cutes down and forms a narrow v shape. There are some fallen trees downstream.</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Upstream view of flatter beginning of gully.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of gully, downstream there are fallen trees and a board walk running across the banks.

Photo 3 Image



Photo 3 View Direction

Upstream

Photo 3 Caption

Upstream view of area where slope drops off and gully becomes more severe.

Photo 4 Image

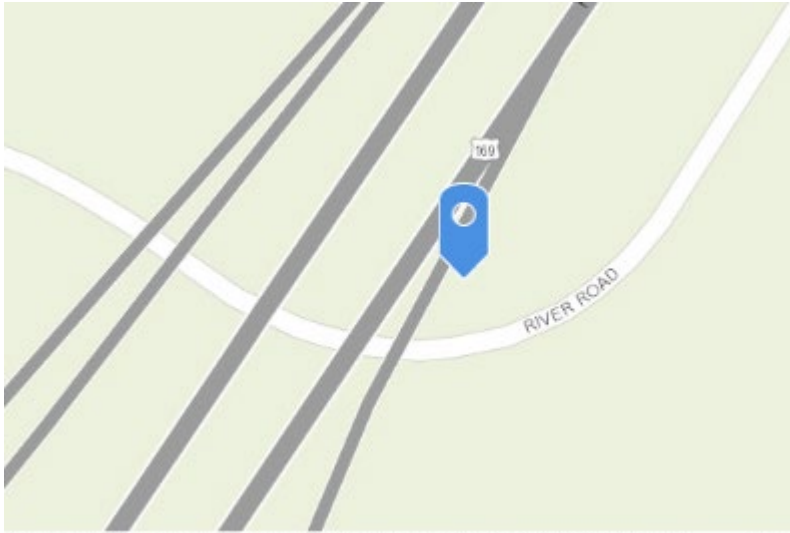


Photo 4 View Direction

Downstream

Photo 4 Caption

Downstream view of fallen tree.

Gully ID: 07:19-11:35	<p style="text-align: center;">MAP</p> 
Date & Time: July 19, 2021 11:35 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	1-Obtuse (>90 degrees or flat)
Gully Shape:	1-Trapezoid
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	0-None	
Fallen Trees:	1-Yes	
Degradation:	3-Moderate	
Aggradation:	3-Moderate	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Puddles/Stagnant</p> <p>Notes/Comments: Under 169, goes from wide to narrow as you move downstream, heavier erosion downstream, pipe midway through, water runoff from highway leads into it</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Gully

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Gully

Photo 3 Image



Photo 3 View Direction

Upstream

Photo 3 Caption

Pipe

Photo 4 Image

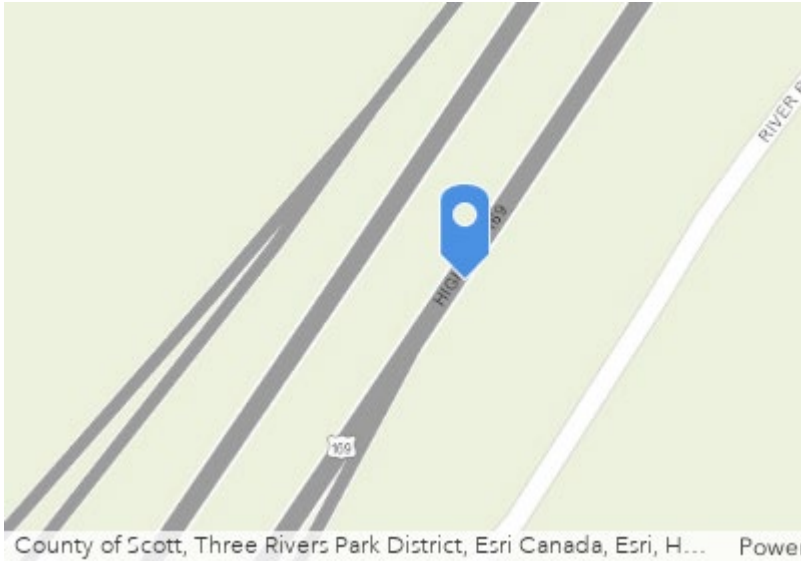


Photo 4 View Direction

Upstream

Photo 4 Caption

Pipes from highway

Gully ID: 07:19-12:11	MAP 
Date & Time: July 19, 2021 12:11 PM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Low
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	1-Obtuse (>90 degrees or flat)
Gully Shape:	1-Trapezoid
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	0-No	
Degradation:	0-None	
Aggradation:	1-Low	
Slumping:	0-No	
Additional Notes:	<p>Classification? Low</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Puddles/Stagnant</p> <p>Notes/Comments: Gully with stagnant water flowing into dam system which connects downstream to a large gully into the mn a river. Water is very murky. there is another stream on the other side of the dam system which is similar to this but less gully-like.</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Upstream view from right bank.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of dam.

Photo 3 Image

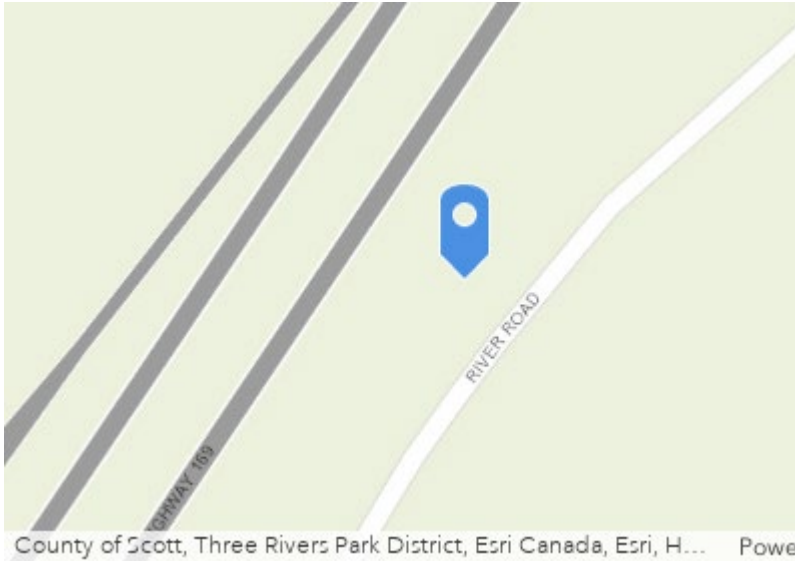


Photo 3 View Direction

Upstream

Photo 3 Caption

Upstream view of gully bottom.

Gully ID: 07:19-11:43	<p style="text-align: center;">MAP</p> 
Date & Time: July 19, 2021 11:43 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	5-Acute (<45 degrees or undercut)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	0-None	
Fallen Trees:	1-Yes	
Degradation:	5-Severe	
Aggradation:	0-None	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Puddles/Stagnant</p> <p>Notes/Comments: Gully downstream of dam system that connects three streams into this one heading towards the MN river. Very little stagnant water, upstream the water is covered in green algae suggesting it hasn't had much flow recently.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view of gully.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of severe degradation on left bank.

Photo 3 Image



Photo 3 View Direction

Downstream

Photo 3 Caption

Downstream view of severe degradation on right bank.

Photo 4 Image




Photo 4 View Direction

Upstream

Photo 4 Caption

Upstream view of dam and green algae covered water.

Gully ID: 07:15-09:58	<p style="text-align: center;">MAP</p> 
Date & Time: July 15, 2021 9:58 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? Yes-High Intensity	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	1-Heavy Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:	3-Moderate	
Aggradation:	1-Low	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Left bank much more degraded than right bank, heavy vegetation on right, none on left, heavier slumling on left bank, left bank is worse overall, pics are hard to make out</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Left bank

Photo 2 Image



Photo 2 View Direction

Upstream

Photo 2 Caption

Right bank

Photo 3 Image




Photo 3 View Direction

Upstream

Photo 3 Caption

Middle

Gully ID: 07:15-09:49	<p style="text-align: center;">MAP</p> 
Date & Time: July 15, 2021 9:49 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? Yes-High Intensity	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	1-Heavy Vegetation
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:		3-Moderate
Aggradation:		0-None
Slumping:		0-No
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Gully in the woods running along the side of the road. The base opens up to a large building on private property so it could only be accessed from the side so pictures were not the best. on the left bank there were some trees with exposed roots.</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Upstream view of right bank. Very vegetated area so it is hard to capture the gully in pictures.

Photo 2 Image



Photo 2 View Direction

Upstream

Photo 2 Caption

Upstream view of left bank.

Photo 3 Image



Photo 3 View Direction

Downstream

Photo 3 Caption

Downstream view of right bank showing leaning trees and the private property in the background.

Photo 4 Image

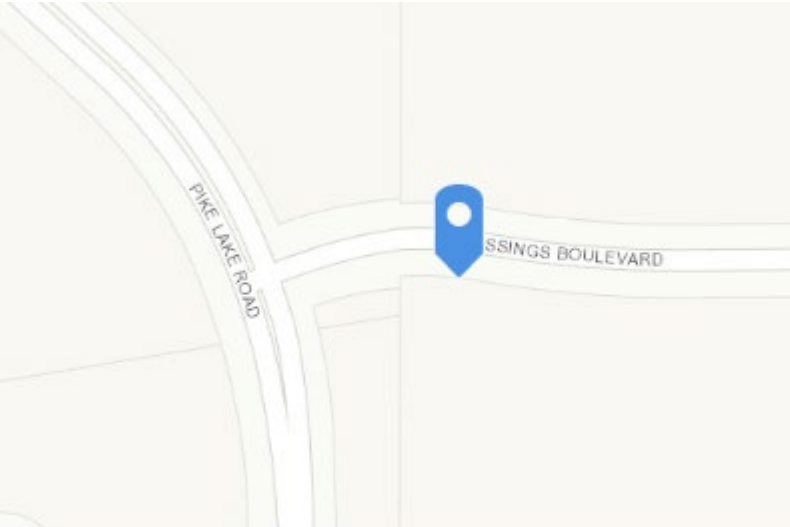


Photo 4 View Direction

Downstream

Photo 4 Caption

Downstream view of left bank. This area is hard to see through all the trees, but some of these trees have some significant degradation around the roots.

Gully ID: 07:14-09:58	MAP 
Date & Time: July 14, 2021 9:58 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Gravel/Cobble/Boulders

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	0-No	
Degradation:	3-Moderate	
Aggradation:	1-Low	
Slumping:	0-No	
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Puddles/Stagnant</p> <p>Notes/Comments: Gully leading into left bank of stream that drains from two large pipes into another two large pipes and into a pond on the other side of the road. This gully has rock and boulders in it, but also is made of silt. there was construction occurring</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Upstream view of gully from road. This is where the gully connects to the stream.

Photo 2 Image



Photo 2 View Direction

Upstream

Photo 2 Caption

Upstream view zoomed in showing small rock dams created.

Photo 3 Image

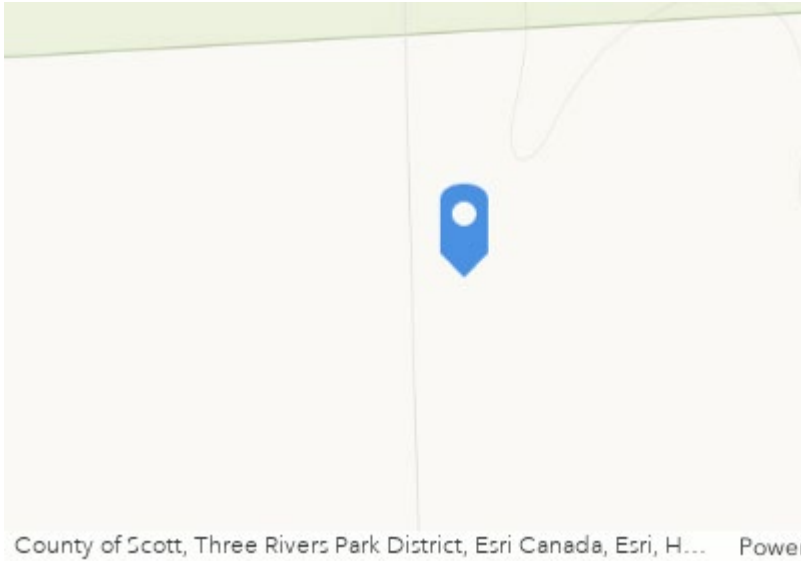


Photo 3 View Direction

Downstream

Photo 3 Caption

Downstream view of where the stream the gully connects to drains under the road

Gully ID: 07:14-09:00	<p style="text-align: center;">MAP</p> 
Date & Time: July 14, 2021 9:00 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Low
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	3-Medium (50'-100')
Condition of Gully Bottom:	1-Heavy Vegetation
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	1-Obtuse (>90 degrees or flat)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:	0-None	
Aggradation:	0-None	
Slumping:	0-No	
Additional Notes:	<p>Classification? Low</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Gully comp,geeky covered in vegetation which leads into the Minnesota a river. Can see a small winding stream that runs through the bottom of the grassy area. There are some leaning trees as well.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view of gully. Hard to see channel due to high vegetation levels.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of headcut of gully right next to trail.

Photo 3 Image




Photo 3 View Direction

Downstream

Photo 3 Caption

Downstream view of trees leaning into channel

Gully ID: 07:14-09:46	<p style="text-align: center;">MAP</p> 
Date & Time: July 14, 2021 9:46 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	1-Short (<50')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Gravel/Cobble/Boulders

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	0-No	
Degradation:	3-Moderate	
Aggradation:	1-Low	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Puddles/Stagnant</p> <p>Notes/Comments: Pipe under yard that leads to pond marshy area. Boulders at bottom and banks with vegetation growing around</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Pipe

Photo 2 Image



Photo 2 View Direction

Upstream

Photo 2 Caption

Pipe again

Photo 3 Image

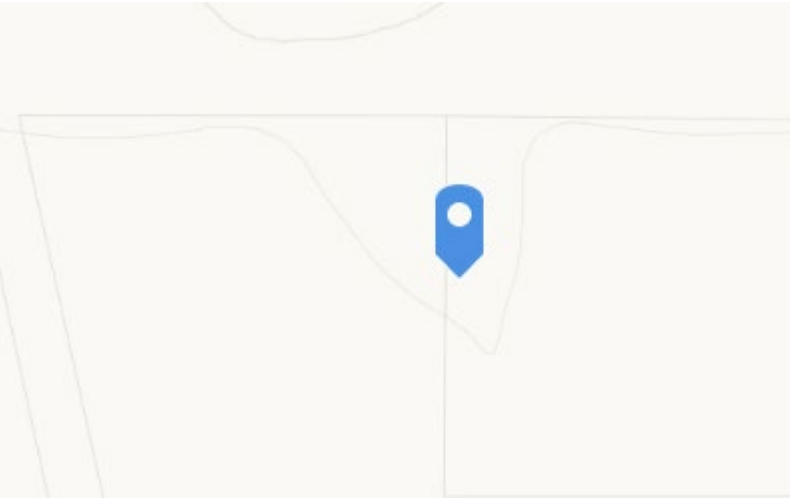


Photo 3 View Direction

Downstream

Photo 3 Caption

Gully

Gully ID: 07:14-08:51	<p style="text-align: center;">MAP</p> 
Date & Time: July 14, 2021 8:51 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	High
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	5-Acute (<45 degrees or undercut)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	0-None	
Fallen Trees:	1-Yes	
Degradation:		3-Moderate
Aggradation:		1-Low
Slumping:		1-Yes
Additional Notes:	<p>Classification? High</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Trickle/Slow Moving</p> <p>Notes/Comments: Pipe goes under trail, another pipe leads into gully with no water coming in, Boulders on banks downstream, not upstream, water constantly going out of pipe under trail</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Right bank

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Left bank

Photo 3 Image



Photo 3 View Direction

Upstream

Photo 3 Caption

Right bank and pipe

Photo 4 Image

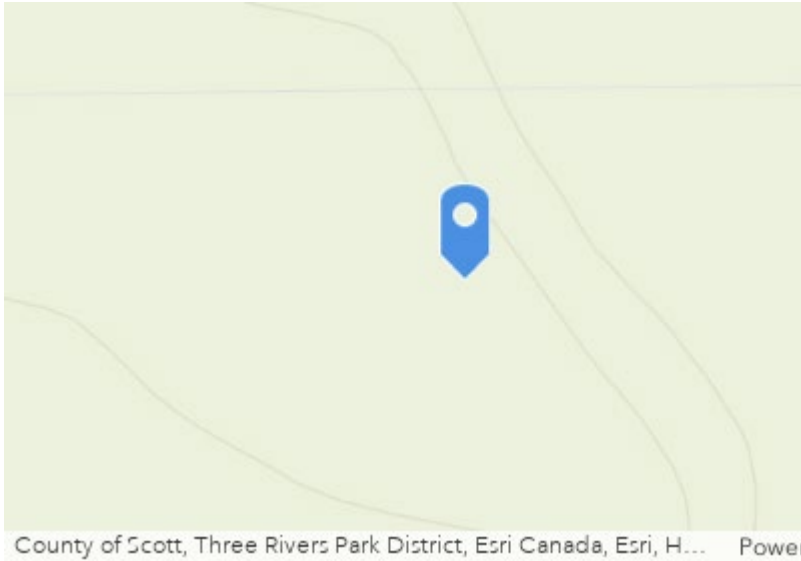


Photo 4 View Direction

Upstream

Photo 4 Caption

Left bank

Gully ID: 07:13-09:31	<p style="text-align: center;">MAP</p> 
Date & Time: July 13, 2021 9:31 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	High
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	5-Acute (<45 degrees or undercut)
Gully Shape:	1-Trapezoid
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	3-Low Flow	
Fallen Trees:	1-Yes	
Degradation:	5-Severe	
Aggradation:	1-Low	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? High</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Trickle/Slow Moving</p> <p>Notes/Comments: Gully located downstream of a dam that looks fairly new. This gully has very steep banks with severe degradation. There is armoring upstream around the area by the dam, but once the armoring ends the banks get very steep.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view from right bank of fallen trees and make shift wooden and rock dams downstream of the man made large dam.

Photo 2 Image



Photo 2 View Direction

Left Bank

Photo 2 Caption

View of left bank where severe degradation is occurring. This area is vey bare, but the bank downstream is heavily vegetated.

Photo 3 Image



Photo 3 View Direction

Upstream

Photo 3 Caption

Upstream view of dam.

Photo 4 Image




Photo 4 View Direction

Left Bank

Photo 4 Caption

Left bank view of where armoring transitions into severe degradation and a steep bank slope.

Gully ID: 07:08-09:59	<p style="text-align: center;">MAP</p> 
Date & Time: July 8, 2021 9:59 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	1-Obtuse (>90 degrees or flat)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:		3-Moderate
Aggradation:		1-Low
Slumping:		0-No
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Trickle/Slow Moving</p> <p>Notes/Comments: Stream in bottom of gully which runs through a series of pipes and into the river, this is the first section of the gully. There are lots of fallen and dead branches in the gully bottom</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Upstream view of gully from right bank.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of gully, pipe drain is at the end.

Photo 3 Image

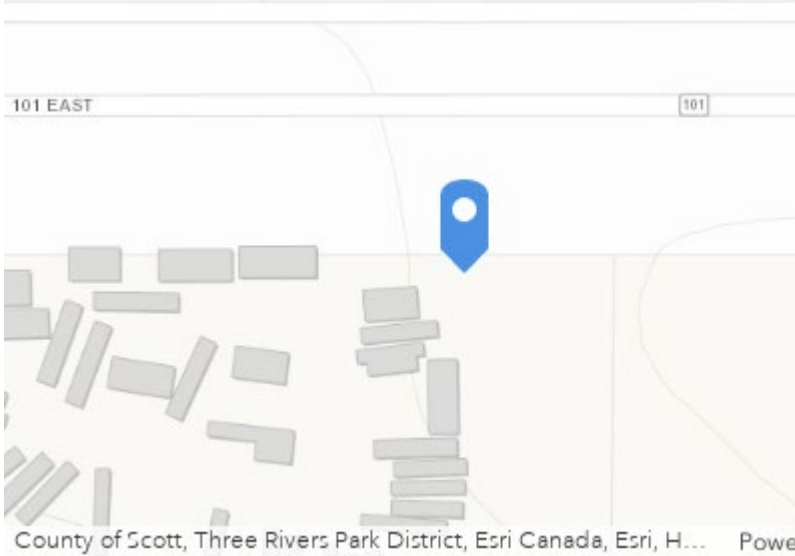


Photo 3 View Direction

Downstream

Photo 3 Caption

Downstream view of pipe.

Gully ID: 06:21-11:26	<p style="text-align: center;">MAP</p> 
Date & Time: June 21, 2021 11:26 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? Yes-High Intensity	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	5-V-Shaped
Gully Material:	Gravel/Cobble/Boulders

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:		3-Moderate
Aggradation:		1-Low
Slumping:		1-Yes
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Trickle/Slow Moving</p> <p>Notes/Comments: Gully leading stream into pipes underneath highway 101. One of the large pipe drains downstream is blocked off</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Upstream view from left bank.

Photo 2 Image



Photo 2 View Direction

Upstream

Photo 2 Caption

Upstream view from left bank.

Photo 3 Image




Photo 3 View Direction

Upstream

Photo 3 Caption

Upstream view of pipes running under highway 101.

Gully ID: 06:21-10:30	<p style="text-align: center;">MAP</p> 
Date & Time: June 21, 2021 10:30 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? Yes-High Intensity	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	1-Trapezoid
Gully Material:	Armored/Riprap

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:	0-None	
Aggradation:	5-Severe	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: This gully is armored by caged rocks and large rocks on its bottom and the banks are heavily vegetated. There is severe aggradation though as near the pipe leading under the road the rocks are covered in sand. This made the erosion potential moderate.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view from next to pipes running under road on left bank side.

Photo 2 Image




Photo 2 View Direction

Upstream

Photo 2 Caption

Upstream view from left bank of pipes running under the road.

Gully ID: 06:21-09:36	MAP 
Date & Time: June 21, 2021 9:36 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? Yes-High Intensity	

GULLY INFORMATION	
Calculated Erosion Potential:	Low
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	1-Short (<50')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	1-Obtuse (>90 degrees or flat)
Gully Shape:	3-U-Shaped
Gully Material:	Armored/Riprap

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:		1-Low
Aggradation:		0-None
Slumping:		1-Yes
Additional Notes:	Classification? Low Presence of Water? No Quantity of Water? Notes/Comments: Small gully downstream of three other larger gullies.	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view from top of gully.

Photo 2 Image




Photo 2 View Direction

Upstream

Photo 2 Caption

Upstream view of gully showing some of the smaller trees leaning.

<p>Gully ID: 06:21-09:29</p>	<p>MAP</p> 
<p>Date & Time: June 21, 2021 9:29 AM</p>	
<p>Location: Shakopee</p>	
<p>Weather: Cloudy</p> <p>Storm/Rainfall Event in the Past 24 Hours? Yes-High Intensity</p>	
<p>GULLY INFORMATION</p>	
<p>Calculated Erosion Potential:</p>	<p>Moderate</p>
<p>Approximate Depth:</p>	<p>5-Deep (>15')</p>
<p>Approximate Bottom Width:</p>	<p>1-Wide (>5')</p>
<p>Approximate Gully Length:</p>	<p>3-Medium (50'-100')</p>
<p>Condition of Gully Bottom:</p>	<p>3-Some Vegetation</p>
<p>Condition of Gully Banks:</p>	<p>3-Some Vegetation</p>
<p>Gully Bank Angles:</p>	<p>1-Obtuse (>90 degrees or flat)</p>
<p>Gully Shape:</p>	<p>3-U-Shaped</p>
<p>Gully Material:</p>	<p>Silt/Clay</p>

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	0-None	
Fallen Trees:	1-Yes	
Degradation:	3-Moderate	
Aggradation:	0-None	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Gully behind neighborhood. Connects downstream to two other gully's. Very little vegetation. Trees in the middle are growing straight up, but trees on the banks are pistol shaped and appear to be leaning.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view of left bank

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of right bank. Residential run off pipe visible in the middle, runs down left bank.

Photo 3 Image




Photo 3 View Direction

Upstream

Photo 3 Caption

Upstream view from bottom of gully.

Gully ID: 07:13-11:40	MAP 
Date & Time: July 13, 2021 11:40 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	1-Short (<50')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:	3-Moderate	
Aggradation:	0-None	
Slumping:	0-No	
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Small gully which drains into a pipe Some pistol shaped trees are visible along with patches of bare soil that is degrading</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view of gully. Lots of vegetation in the center, so pictures will not represent the site well

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

View of the headcut of gully downstream.

Photo 3 Image



Photo 3 View Direction

Downstream

Photo 3 Caption

Downstream view of pipe which doesn't have much degradation around it.

Photo 4 Image




Photo 4 View Direction

Downstream

Photo 4 Caption

Downstream view of pistol shaped tree on right bank.

Gully ID: 07:13-09:15	<p style="text-align: center;">MAP</p> 
Date & Time: July 13, 2021 9:15 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	1-Heavy Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	5-V-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:	5-Severe	
Aggradation:	0-None	
Slumping:	0-No	
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Large gully running into the MN river. There are a ton of large trees in the gully, along with a huge dam type tree for,action. It looks like some were dumped here, but there are a lot still that appear to have fallen. Not much vegetation on banks.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view of right bank. Severe degradation is visible through the exposed roots around these trees.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of left bank. Picture shows heavy vegetation on bottom, and very little on banks.

Photo 3 Image



Photo 3 View Direction

Upstream

Photo 3 Caption

Upstream view of tree dam from right bank. There is also a tire thrown in the middle of the stack.

Photo 4 Image




Photo 4 View Direction

Downstream

Photo 4 Caption

Downstream view from beginning of gully there area is shallow and very grassy. The tree dam is visible in the background.

Gully ID: 07:12-12:30	MAP 
Date & Time: July 12, 2021 12:30 PM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Low
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	3-Medium (50'-100')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	1-Trapezoid
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	0-No	
Degradation:		3-Moderate
Aggradation:		0-None
Slumping:		0-No
Additional Notes:	<p>Classification? Low</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: This gully runs from a pond, through pipes under the road and to the other side. At the time of observation the gully was completely dry. The degradation is low expect by the smaller pipe outfall at the top of the right bank.</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Downstream view of gully from above large pipes.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of pipes that run under the road.

Photo 3 Image



Photo 3 View Direction

Downstream

Photo 3 Caption

Downstream view of smaller pipe

Photo 4 Image




Photo 4 View Direction

Right Bank

Photo 4 Caption

View of right past bank area where moderate to severe erosion is happening near the smaller pipe.

Gully ID: 07:08-09:44	<p style="text-align: center;">MAP</p> 
Date & Time: July 8, 2021 9:44 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	High
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	1-Short (<50')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	5-Acute (<45 degrees or undercut)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	1-Yes	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	0-No	
Degradation:	5-Severe	
Aggradation:	3-Moderate	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? High</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Trickle/Slow Moving</p> <p>Notes/Comments: Two seeps which created small gullies along the south bank of the mn river. These should be of concern as they are directly depositing sediment into the river and seem to be degrading quickly.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view of small seep gully on the left.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of small seep gully on the right.

Photo 3 Image




Photo 3 View Direction

Right Bank

Photo 3 Caption

Sidestream view of the right bank of both gullies. The left side gully is the closer of the two, and the right side gully is the farther one.

Gully ID: 07:08-09:29	<p style="text-align: center;">MAP</p> 
Date & Time: July 8, 2021 9:29 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	High
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	1-Short (<50')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	5-Acute (<45 degrees or undercut)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	1-Yes	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	0-None	
Fallen Trees:	0-No	
Degradation:	5-Severe	
Aggradation:	3-Moderate	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? High</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Small gully's running through clay/silt on bank of MN river. There is a broken pipe that appears to have drained straight into the river before it was broken but down drains ,UCB earlier and could be the cause of so,r of these mini gullies.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view of mini gullies and broken pipe.

Photo 2 Image




Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of where pipe outfall broke and now drains.

Gully ID: 07:07-09:25	MAP 
Date & Time: July 7, 2021 9:25 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? Yes-Low Intensity	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	5-V-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:		3-Moderate
Aggradation:		1-Low
Slumping:		1-Yes
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Gully running between two dirt trails behind houses. The headcut looks to have some armoring from rocks and stumps.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view from trail.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of fallen tree.

Photo 3 Image



Photo 3 View Direction

Upstream

Photo 3 Caption

Upstream view of slight armoring at headcut.

Photo 4 Image




Photo 4 View Direction

Downstream

Photo 4 Caption

Downstream view of bank angle.

Gully ID: 07:07-08:37	MAP 
Date & Time: July 7, 2021 8:37 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? Yes-High Intensity	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	3-Medium (50'-100')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	5-V-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:		1-Low
Aggradation:		1-Low
Slumping:		1-Yes
Additional Notes:	Classification? Moderate Presence of Water? No Quantity of Water? Notes/Comments: Gully running in woods between houses. Lots of vegetation and some trees slumping over the channel.	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream left bank.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream right bank view.

Photo 3 Image

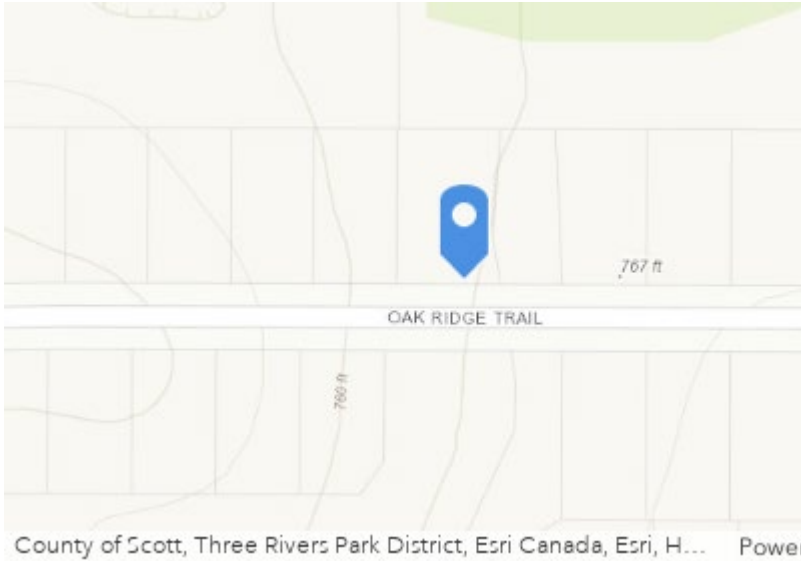


Photo 3 View Direction

Upstream

Photo 3 Caption

Upstream view where gully begins and is less deep.

Gully ID: 07:07-11:38	<p style="text-align: center;">MAP</p> 
Date & Time: July 7, 2021 11:38 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? Yes-High Intensity	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	3-Low Flow	
Fallen Trees:	0-No	
Degradation:		3-Moderate
Aggradation:		1-Low
Slumping:		1-Yes
Additional Notes:	Classification? Moderate Presence of Water? Yes Quantity of Water? Trickle/Slow Moving Notes/Comments: Pipe goes under road with flow of water. Hanging roots along the side, another pipe further downstream	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Full gully

Photo 2 Image



Photo 2 View Direction

Upstream

Photo 2 Caption

Full gully

Photo 3 Image

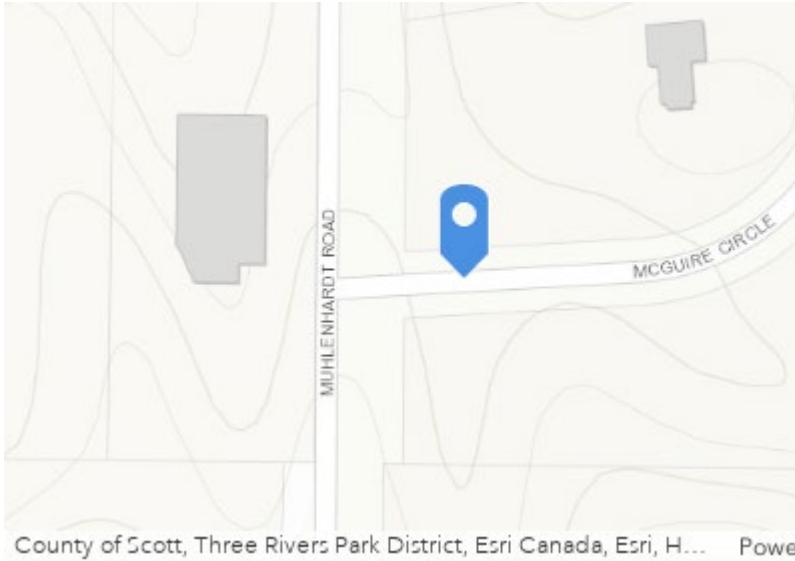


Photo 3 View Direction

Upstream

Photo 3 Caption

Pipe under road

Gully ID: 07:07-09:34	MAP 
Date & Time: July 7, 2021 9:34 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? Yes-High Intensity	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	3-Medium (50'-100')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	0-None	
Fallen Trees:	1-Yes	
Degradation:	3-Moderate	
Aggradation:	1-Low	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Gully off side of road that goes along road, pipe that goes under road leads into gully, nothing coming out of it</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Pipe on right bank

Photo 2 Image



Photo 2 View Direction

Upstream

Photo 2 Caption

Right bank

Photo 3 Image




Photo 3 View Direction

Upstream

Photo 3 Caption

Left bank

Gully ID: 07:08-09:17	<p style="text-align: center;">MAP</p> 
Date & Time: July 8, 2021 9:17 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	High
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	3-Medium (50'-100')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	5-Acute (<45 degrees or undercut)
Gully Shape:	5-V-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	0-No	
Degradation:	5-Severe	
Aggradation:	1-Low	
Slumping:	0-No	
Additional Notes:	<p>Classification? High</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Puddles/Stagnant</p> <p>Notes/Comments: Feeds directly into river, some hanging roots, lots of erosion and undercutting</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Top of gully

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Left bank

Photo 3 Image

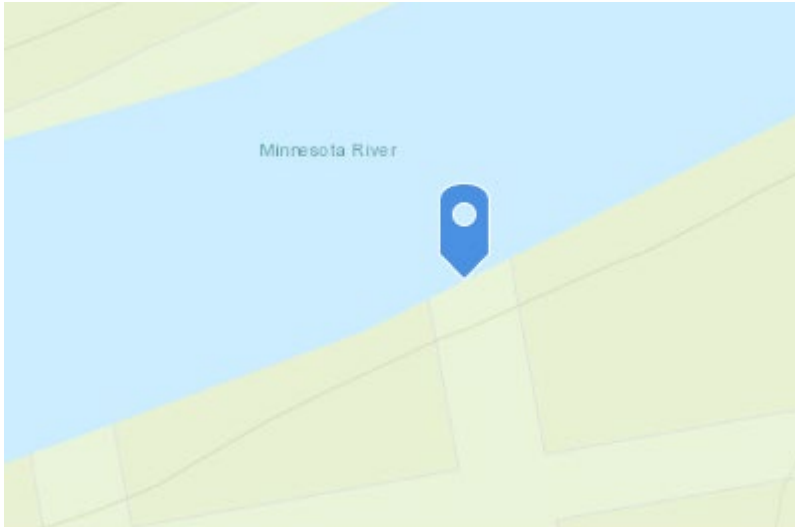


Photo 3 View Direction

Downstream

Photo 3 Caption

Empties into river

Gully ID: 07:08-09:45	<p style="text-align: center;">MAP</p>  <p style="font-size: small;">County of Scott, Three Rivers Park District, Esri Canada, Esri, H... Power</p>
Date & Time: July 8, 2021 9:45 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Low
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	1-Short (<50')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	1-Obtuse (>90 degrees or flat)
Gully Shape:	3-U-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	1-Dripping	
Fallen Trees:	0-No	
Degradation:		1-Low
Aggradation:		1-Low
Slumping:		0-No
Additional Notes:	<p>Classification? Low</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Trickle/Slow Moving</p> <p>Notes/Comments: Pipe that leads out to a bunch of boulders armoring the gully. Weeds growing along the bottom, not much degradation</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Full gully

Photo 2 Image




Photo 2 View Direction

Downstream

Photo 2 Caption

Pipe with water trickling out

Gully ID: 07:08-09:58	<p style="text-align: center;">MAP</p> 
Date & Time: July 8, 2021 9:58 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	High
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	1-Short (<50')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	5-Acute (<45 degrees or undercut)
Gully Shape:	5-V-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	1-Yes	
Stormwater Inputs:	5-High Flow	
Fallen Trees:	0-No	
Degradation:	5-Severe	
Aggradation:	1-Low	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? High</p> <p>Presence of Water? Yes</p> <p>Quantity of Water? Torrent/Fast Moving</p> <p>Notes/Comments: Pipe hose thing spraying water from above, heavy degradation and hanging roots, slumling trees, leads into pond</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Pipe exiting heavy flow of water

Photo 2 Image



Photo 2 View Direction

Upstream

Photo 2 Caption

Left bank

Photo 3 Image



Photo 3 View Direction

Upstream

Photo 3 Caption

Right bank

Photo 4 Image




Photo 4 View Direction

Downstream

Photo 4 Caption

Pond where water flows

Gully ID: 07:08-11:17	<p style="text-align: center;">MAP</p> 
Date & Time: July 8, 2021 11:17 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	High
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-Range (45 to 90 degrees)
Gully Shape:	5-V-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:	5-Severe	
Aggradation:	1-Low	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? High</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Large gully which has a smaller gully connecting to it on other left bank. Starts very narrow then becomes a little wider after about 20 feet.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view of left bank.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of right bank.

Photo 3 Image



Photo 3 View Direction

Upstream

Photo 3 Caption

Upstream view of area where the gully is narrower, the tree on the left edge of the photo is where the small gully connects to this larger one.

Photo 4 Image




Photo 4 View Direction

Left Bank

Photo 4 Caption

Left bank view of degradation, slumping and pistol shaped trees.

Gully ID: 07:08-11:12	MAP  A topographic map showing a road labeled 'KELLY CIRCLE'. A blue location pin is placed on the road. The map includes contour lines and a road shield for '18'. At the bottom, it says 'County of Scott, Three Rivers Park District, Esri Canada, Esri, H... Power'.
Date & Time: July 8, 2021 11:12 AM	
Location: Shakopee	
Weather: Cloudy Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	1-Short (<50')
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	5-Acute (<45 degrees or undercut)
Gully Shape:	5-V-Shaped
Gully Material:	Silt/Clay

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	1-Yes	
Degradation:		3-Moderate
Aggradation:		1-Low
Slumping:		0-No
Additional Notes:	<p>Classification? Moderate</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Small gully which leads into the right bank of a larger gully. This area was hard to photograph with the vegetation present.</p>	

Photo 1 Image



Photo 1 View Direction

Downstream

Photo 1 Caption

Downstream view of right gully bank.

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Downstream view of left gully bank

Photo 3 Image



Photo 3 View Direction

Downstream

Photo 3 Caption

Downstream view of center

Photo 4 Image




Photo 4 View Direction

Upstream

Photo 4 Caption

Upstream view of small gully from bottom of large gully.

Gully ID: 07:13-11:25	<p style="text-align: center;">MAP</p> 
Date & Time: July 13, 2021 11:25 AM	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	High
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	5-Long (>100')
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	5-Acute (<45 degrees or undercut)
Gully Shape:	5-V-Shaped
Gully Material:	Sand

Seep:	0-No	
Stormwater Runoff:	0-No	
Stormwater Inputs:		
Fallen Trees:	0-No	
Degradation:	5-Severe	
Aggradation:	1-Low	
Slumping:	1-Yes	
Additional Notes:	<p>Classification? High</p> <p>Presence of Water? No</p> <p>Quantity of Water?</p> <p>Notes/Comments: Long narrow gully, hanging roots and slumping vegetation, some small rocks along the banks but mostly soil, lots of wood and branches in the bottom</p>	

Photo 1 Image



Photo 1 View Direction

Upstream

Photo 1 Caption

Gully

Photo 2 Image



Photo 2 View Direction

Downstream

Photo 2 Caption

Gully

Photo 3 Image




Photo 3 View Direction

Downstream

Photo 3 Caption

Further downstream

Gully ID: 06:03-01:42	MAP 
Date & Time: June 3, 2021 13:42	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	5-Acute (< 90 degrees or undercut)
Gully Shape:	5-V-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	0-No degradation	
Aggradation:	0-No aggradation	
Slumping:	0-No slumping	
Additional Notes:	Classification? Moderate (x - x) Notes/Comments: Small gully next to sewer hole.	


Photo1



Photo1 View Direction: View Upstream

Photo1 Caption

View of small gully in front of sewer hole. Gully begins where rip rap is and is only a couple feet long.

Gully ID: 06:03-01:38	<p>MAP</p> 
Date & Time: June 3, 2021 13:38	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Low (4 - x)
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	0-Armored/Riprap
Condition of Gully Banks:	0-Armored/Riprap
Gully Bank Angles:	5-Acute (< 90 degrees or undercut)
Gully Shape:	5-V-Shaped
Gully Material:	Gravel/Cobble/Boulders

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	1-Low	
Aggradation:	0-No aggradation	
Slumping:	0-No slumping	
Additional Notes:	Classification? Low (4 - x) Notes/Comments: Comes out from concrete pipe, goes to boulders into the MN river.	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

Downstream view of right bank.

Photo2



Photo2 View Direction: View Downstream

Photo2 Caption

Downstream view of left bank.


Photo3



Photo3 View Direction: View Upstream

Photo3 Caption

Pipe and concrete area where the water flows from upstream.

Gully ID: 06:03-01:18	MAP 
Date & Time: June 3, 2021 13:18	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-range (45 to 90 degrees)
Gully Shape:	5-V-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	3-Moderate	
Aggradation:	0-No aggradation	
Slumping:	0-No slumping	
Additional Notes:	Classification? Moderate (x - x) Notes/Comments: Very close to river, with some obvious erosion. Vegetation on banks, but little to none on bottom.	

Photo1



Photo1 View Direction: View Upstream

Photo1 Caption

Upstream view of left bank.

Photo2



Photo2 View Direction: View Upstream

Photo2 Caption

Upstream view of right bank.


Photo3



Photo3 View Direction: View Downstream

Photo3 Caption

View of downstream.

Gully ID: 06:03-12:04	<p>MAP</p> 
Date & Time: June 3, 2021 12:04	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	Medium: 50'-100'
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	5-Acute (< 90 degrees or undercut)
Gully Shape:	5-V-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	Yes	
Degradation:	3-Moderate	
Aggradation:	0-No aggradation	
Slumping:	1-Low	
Additional Notes:	Classification? Moderate (x - x) Notes/Comments: Other side of another gully across the trail, pipes downstream, steep slopes and bare soil on sides	

Photo1



Photo1 View Direction: View Upstream

Photo1 Caption

Upstream view of left bank.

Photo2



Photo2 View Direction: View Upstream

Photo2 Caption

Upstream view of right bank.


Photo3



Photo3 View Direction: View Upstream

Photo3 Caption

Upstream view of pipes.

Gully ID: 06:03-11:53	<p>MAP</p> 
Date & Time: June 3, 2021 11:53	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	Medium: 50'-100'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	1-Obtuse (>90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	0-No degradation	
Aggradation:	0-No aggradation	
Slumping:	1-Low	
Additional Notes:	Classification? Moderate (x - x) Notes/Comments: Very wide with no signs of water, but pipe at top. Minor slumping of trees, and close to other gullies found	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

Downstream view of right bank.

Photo2



Photo2 View Direction: View Downstream

Photo2 Caption

Downstream view of left bank.

Photo3



Photo3 View Direction: View Upstream

Photo3 Caption

Pipe goes under trail, can see through to the other side

Gully ID: 06:03-11:42	<p style="text-align: center;">MAP</p> 
Date & Time: June 3, 2021 11:42	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	Medium: 50'-100'
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	5-Acute (< 90 degrees or undercut)
Gully Shape:	3-U-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:		5-Severe
Aggradation:		0-No aggradation
Slumping:		0-No slumping, 5-Severe
Additional Notes:	Classification? Moderate (x - x) Notes/Comments: Gully that is actively eroding, no traces of water or any pipe outfalls and some vegetation on banks and bottom.	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

View front on top of head cut, can see active erosion on banks.

Photo2



Photo2 View Direction: View Upstream

Photo2 Caption

View of eroding head cut from downstream in bottom of gully.

Gully ID: 06:03-11:27	<p style="text-align: center;">MAP</p> 
Date & Time: June 3, 2021 11:27	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Low (4 - x)
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	Medium: 50'-100'
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	1-Obtuse (>90 degrees)
Gully Shape:	1-Trapezoid
Gully Material:	Silt and/or Clay

Seep:	No
Stormwater Inputs:	0-Not present
Fallen Trees:	No
Degradation:	0-No degradation
Aggradation:	0-No aggradation
Slumping:	0-No slumping
Additional Notes:	<p>Classification? Low (4 - x)</p> <p>Notes/Comments: Two sewer pipes from right off trail, connects to gully downstream from pipe outfall with high water flow. No water flow, vegetation growing right in front of pipes and area seems very dry.</p>

Photo1



Photo1 View Direction: View Upstream

Photo1 Caption

Outfall pipes right under trail, heavy vegetation in front of outfall.


Photo2



Photo2 View Direction: View Downstream

Photo2 Caption

View showing wide shallow banks with little vegetation.

Gully ID: 06:08-08:55	MAP 
Date & Time: June 8, 2021 08:55	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	3-Mid-range (45 to 90 degrees)
Gully Shape:	5-V-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	2-Low flow	
Fallen Trees:	No	
Degradation:		5-Severe
Aggradation:		1-Low
Slumping:		3-Moderate
Additional Notes:	<p>Classification? Moderate (x - x)</p> <p>Notes/Comments: Pipe outfall underneath hwy 101. Constant flow of water, and heavy degradation with grass roots hanging down. Moderate tree slumping. Downstream, another pipe goes under road and connects to other side, but was difficult to access</p>	

Photo1



Photo1 View Direction: View Upstream

Photo1 Caption

Upstream view of right bank.


Photo2



Photo2 View Direction: View Upstream

Photo2 Caption

Upstream view of left bank.

Gully ID: 06:07-11:15	<p style="text-align: center;">MAP</p> 
Date & Time: June 7, 2021 11:15	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-range (45 to 90 degrees)
Gully Shape:	5-V-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	2-Low flow	
Fallen Trees:	Yes	
Degradation:	3-Moderate	
Aggradation:	1-Low	
Slumping:	1-Low	
Additional Notes:	Classification? Moderate (x - x) Notes/Comments: Pipe exits water, trees fallen into gully with constant stream leading directly into MN river. Not much vegetation on the banks	

Photo1



Photo1 View Direction: View Upstream

Photo1 Caption

Upstream view of pipe outfall at top of gully.

Photo2



Photo2 View Direction: View Downstream

Photo2 Caption

Downstream view of left bank.


Photo3



Photo3 View Direction: View Downstream

Photo3 Caption

Downstream view of right bank.

Gully ID: 06:07-09:46	<p style="text-align: center;">MAP</p> 
Date & Time: June 7, 2021 09:46	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	5-Acute (< 90 degrees or undercut)
Gully Shape:	3-U-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	1-Low	
Aggradation:	0-No aggradation	
Slumping:	0-No slumping	
Additional Notes:	Classification? Moderate (x - x) Notes/Comments: Hanging pipe, exits directly into the river, no vegetation on banks	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

Downstream view of right bank.


Photo2



Photo2 View Direction: View Downstream

Photo2 Caption

Downstream view of left bank.

<p>Gully ID: 06:07-09:21</p>	<p style="text-align: center;">MAP</p> 
<p>Date & Time: June 7, 2021 09:21</p>	
<p>Location: Shakopee</p>	
<p>Weather: Sunny</p> <p>Storm/Rainfall Event in the Past 24 Hours? No</p>	

<p style="text-align: center;">GULLY INFORMATION</p>	
<p>Calculated Erosion Potential:</p>	<p>Moderate (x - x)</p>
<p>Approximate Depth:</p>	<p>5-Deep (>15')</p>
<p>Approximate Bottom Width:</p>	<p>1-Wide (>5')</p>
<p>Approximate Gully Length:</p>	<p>Long: >100'</p>
<p>Condition of Gully Bottom:</p>	<p>5-Bare Soil</p>
<p>Condition of Gully Banks:</p>	<p>3-Some Vegetation</p>
<p>Gully Bank Angles:</p>	<p>3-Mid-range (45 to 90 degrees)</p>
<p>Gully Shape:</p>	<p>3-U-Shaped</p>
<p>Gully Material:</p>	<p>Silt and/or Clay</p>

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	0-No degradation	
Aggradation:	0-No aggradation	
Slumping:	1-Low	
Additional Notes:	Classification? Moderate (x - x) Notes/Comments: Further down area of gully with pipe outfall, big pipe at end connecting to other side. Water moving at decent pace.	


Photo1



Photo1 Caption

Downstream view of entire gully and pipe connecting.

Photo1 View Direction: View Downstream

<p>Gully ID: 06:07-10:04</p>	<p style="text-align: center;">MAP</p> 
<p>Date & Time: June 7, 2021 10:04</p>	
<p>Location: Shakopee</p>	
<p>Weather: Sunny</p> <p>Storm/Rainfall Event in the Past 24 Hours? No</p>	

<p style="text-align: center;">GULLY INFORMATION</p>	
<p>Calculated Erosion Potential:</p>	<p>Moderate (x - x)</p>
<p>Approximate Depth:</p>	<p>1-Shallow (<3')</p>
<p>Approximate Bottom Width:</p>	<p>5-Narrow/V-Ditch</p>
<p>Approximate Gully Length:</p>	<p>Long: >100'</p>
<p>Condition of Gully Bottom:</p>	<p>5-Bare Soil</p>
<p>Condition of Gully Banks:</p>	<p>3-Some Vegetation</p>
<p>Gully Bank Angles:</p>	<p>1-Obtuse (>90 degrees)</p>
<p>Gully Shape:</p>	<p>3-U-Shaped</p>

Gully Material:	Silt and/or Clay	
Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	0-No degradation	
Aggradation:	0-No aggradation	
Slumping:	0-No slumping	
Additional Notes:	<p>Classification? Moderate (x - x)</p> <p>Notes/Comments: Stream off of pond, we believe this stream connects to the gully downstream. Lots of vegetation upstream on the banks.</p>	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

View downstream from pond, can see lots of vegetation on the left bank and little on the right.

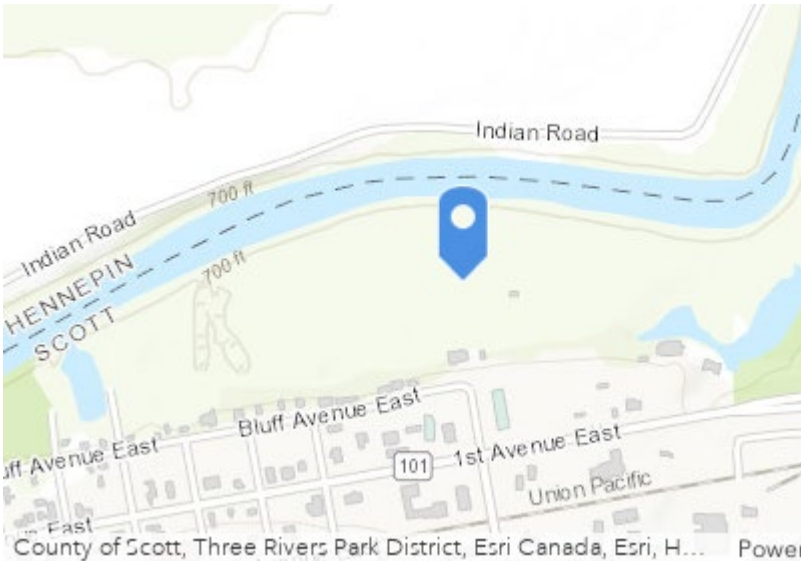
Photo2



Photo2 View Direction: View Upstream

Photo2 Caption

Upstream view where stream connects to its source pond.

Gully ID: 06:07-08:51	<p>MAP</p> 
Date & Time: June 7, 2021 08:51	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	5-Acute (< 90 degrees or undercut)
Gully Shape:	5-V-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	5-Severe	
Aggradation:	0-No aggradation	
Slumping:	0-No slumping	
Additional Notes:	Classification? Moderate (x - x) Notes/Comments: Severely hanging pipe with know current water flow which drains into larger creek. Lots of exposed roots in gully.	


Photo1



Photo1 View Direction: View Upstream

View of hanging pipe from across the creek. Lots of visible erosion as a large amount of the pipe is exposed.

Photo1 Caption

Gully ID: 06:10-11:25	MAP 
Date & Time: June 10, 2021 11:25	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	Long: >100'
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	1-Heavy Vegetation
Gully Bank Angles:	1-Obtuse (>90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	Yes	
Degradation:	1-Low	
Aggradation:	1-Low	
Slumping:	3-Moderate	
Additional Notes:	Classification? Moderate (x - x) Notes/Comments: Large gully with lots of fallen trees. Heavy vegetation on banks, light on bottom. Decent amount of slumping	

Photo1



Photo1 View Direction: View Upstream

Photo1 Caption

Upstream view of left bank.

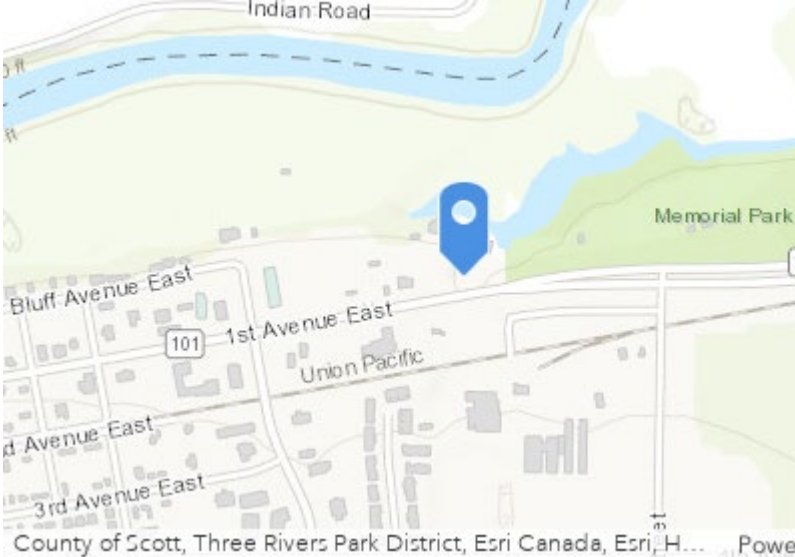
Photo2



Photo2 View Direction: View Upstream

Photo2 Caption

Upstream view of right bank

Gully ID: 06:07-12:07	<p style="text-align: center;">MAP</p> 
Date & Time: June 7, 2021 12:07	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Low (4 - x)
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	Long: >100'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	0-Armored/Riprap
Gully Bank Angles:	1-Obtuse (>90 degrees)
Gully Shape:	1-Trapezoid
Gully Material:	Gravel/Cobble/Boulders

Seep:	No
Stormwater Inputs:	2-Low flow
Fallen Trees:	No
Degradation:	0-No degradation
Aggradation:	0-No aggradation
Slumping:	0-No slumping
Additional Notes:	Classification? Low (4 - x) Notes/Comments: Armored gully under bridge. Very little vegetation.

Photo1



Photo1 View Direction: View Upstream

Photo1 Caption

Upstream view of gully, armored banks are visible.


Photo2



Photo2 View Direction: View Side stream

Photo2 Caption

Sewer drainage pipe leading into gully just downstream of the bridge on the left bank.

Gully ID: 06:07-11:25	<p style="text-align: center;">MAP</p> 
Date & Time: June 7, 2021 11:25	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Low (4 - x)
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	0-Armored/Riprap
Condition of Gully Banks:	0-Armored/Riprap
Gully Bank Angles:	3-Mid-range (45 to 90 degrees)
Gully Shape:	1-Trapezoid
Gully Material:	Gravel/Cobble/Boulders

Seep:	No	
Stormwater Inputs:	1-Dripping	
Fallen Trees:	No	
Degradation:	1-Low	
Aggradation:	3-Moderate	
Slumping:	0-No slumping	
Additional Notes:	<p>Classification? Low (4 - x)</p> <p>Notes/Comments: Sewer drainage pipe with very low flow and low degradation. Has some aggradation as the rocks in front of it are covered in dried dirt or clay that must've been carried through the sewer into the river on high flow days.</p>	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

View of sewer pipe from above pipe. Can see lots of armoring around pipe.


Photo2



Photo2 View Direction: View Downstream

Photo2 Caption

Pipe to the left of other drainage pipe, with no erosion present and no noticeable flow.

Gully ID: 06:07-10:31	<p style="text-align: center;">MAP</p> 
Date & Time: June 7, 2021 10:31	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	High (x - 49)
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	Medium: 50'-100'
Condition of Gully Bottom:	3-Some Vegetation
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	5-Acute (< 90 degrees or undercut)
Gully Shape:	5-V-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	Yes	
Degradation:		5-Severe
Aggradation:		0-No aggradation, 5-Severe
Slumping:		5-Severe
Additional Notes:	<p>Classification? High (x - 49)</p> <p>Notes/Comments: Gully formed on land side of trail next to MN river, gully is eroding into a campsite/trailer park. Slabs of concrete and a tent were present on the gully</p>	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

View downstream of large gully it's lots of erosion and concrete slabs and rock.

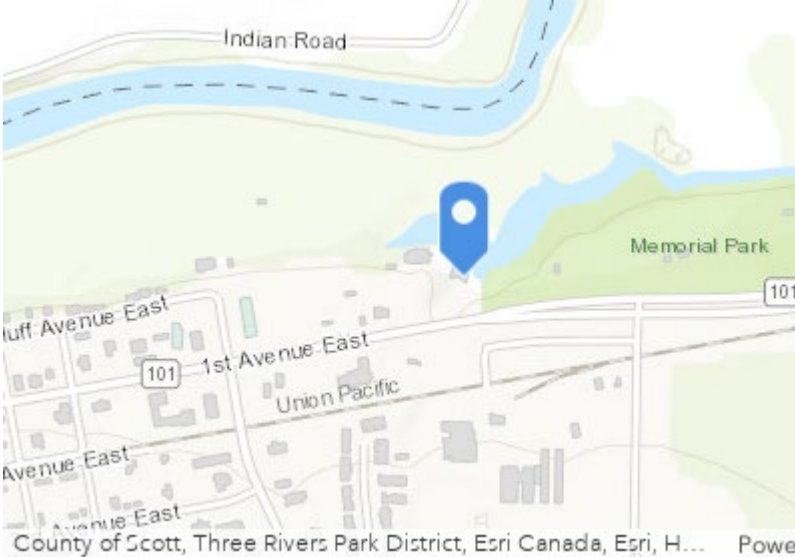
Photo2



Photo2 View Direction: View Upstream

Photo2 Caption

View from trail looking up at the gully, moderate vegetation at the bottom, but the further up the gully the less vegetation there is and the more severe the erosion is

<p>Gully ID: 06:07-12:02</p>	<p style="text-align: center;">MAP</p> 
<p>Date & Time: June 7, 2021 12:02</p>	
<p>Location: Shakopee</p>	
<p>Weather: Sunny</p> <p>Storm/Rainfall Event in the Past 24 Hours? No</p>	

GULLY INFORMATION	
<p>Calculated Erosion Potential:</p>	<p>Low (4 - x)</p>
<p>Approximate Depth:</p>	<p>1-Shallow (<3')</p>
<p>Approximate Bottom Width:</p>	<p>1-Wide (>5')</p>
<p>Approximate Gully Length:</p>	<p>Short: <50'</p>
<p>Condition of Gully Bottom:</p>	<p>0-Armored/Riprap</p>
<p>Condition of Gully Banks:</p>	<p>0-Armored/Riprap</p>
<p>Gully Bank Angles:</p>	<p>1-Obtuse (>90 degrees)</p>
<p>Gully Shape:</p>	<p>1-Trapezoid</p>
<p>Gully Material:</p>	<p>Gravel/Cobble/Boulders</p>

Seep:	No	
Stormwater Inputs:	3-Constant high flow	
Fallen Trees:	No	
Degradation:	0-No degradation	
Aggradation:	0-No aggradation	
Slumping:	0-No slumping	
Additional Notes:	Classification? Low (4 - x) Notes/Comments: Armored all the way through, constant stream from one pond to another, some vegetation comes through the concrete armoring	


Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

Downstream view of gully covered in armoring.

Gully ID: 06:07-10:54	<p style="text-align: center;">MAP</p> 
Date & Time: June 7, 2021 10:54	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Low (4 - x)
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	1-Obtuse (>90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:		1-Low
Aggradation:		0-No aggradation
Slumping:		1-Low
Additional Notes:	Classification? Low (4 - x) Notes/Comments: Pipe outfall, heavy vegetation on right bank, low on left bank, feeds into another creek/stream, smaller trees slumping	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

Both sides of gully downstream


Photo2



Photo2 View Direction: View Upstream

Photo2 Caption

Pipe at top of gully, likely feeds from nearby building

Gully ID: 06:07-10:42	<p style="text-align: center;">MAP</p> 
Date & Time: June 7, 2021 10:42	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	High (x - 49)
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	5-Acute (< 90 degrees or undercut)
Gully Shape:	5-V-Shaped
Gully Material:	Gravel/Cobble/Boulders

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	5-Severe	
Aggradation:	0-No aggradation	
Slumping:	0-No slumping	
Additional Notes:	Classification? High (x - 49) Notes/Comments: Looks like part of the trail got heavily eroded, roots hanging off the side and very steep bank	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

Downstream view of right bank.

Photo2

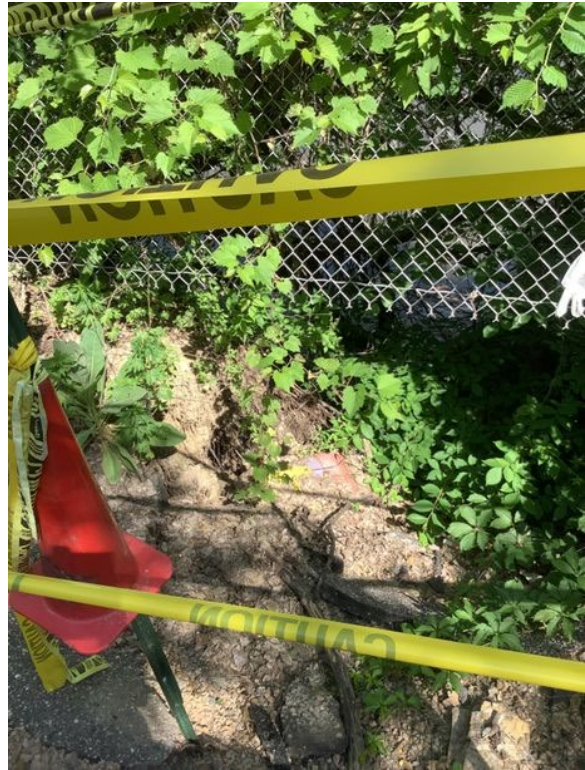



Photo2 View Direction: View Downstream

Photo2 Caption

Downstream view of left bank.

Gully ID: 06:07-09:40	<p>MAP</p> 
Date & Time: June 7, 2021 09:40	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	5-Narrow/V-Ditch
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-range (45 to 90 degrees)
Gully Shape:	5-V-Shaped
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	3-Moderate	
Aggradation:	0-No aggradation	
Slumping:	0-No slumping	
Additional Notes:	<p>Classification? Moderate (x - x)</p> <p>Notes/Comments: Small gully leading into the Minnesota river, pipe outfall near gully but shows no sign of erosion, channel is pretty steep</p>	


Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

Gully in middle with decent erosion clearing path, pipe hanging to the right, but no indications of water exiting it

Gully ID: 06:07-08:43	<p>MAP</p> 
Date & Time: June 7, 2021 08:43	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	Long: >100'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	5-Bare Soil
Gully Bank Angles:	5-Acute (< 90 degrees or undercut)
Gully Shape:	1-Trapezoid
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	0-No degradation	
Aggradation:	0-No aggradation	
Slumping:	3-Moderate	
Additional Notes:	Classification? Moderate (x - x) Notes/Comments: Fast moving water that meets the end of another gully found. Tree roots exposed on banks, and little vegetation	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

Downstream view of right bank.

Photo2



Photo2 View Direction: View Downstream

Photo2 Caption

Downstream view of left bank.


Photo3



Photo3 View Direction: View Upstream

Photo3 Caption

View upstream with lots of fallen branches.

Gully ID: 06:07-09:28	<p style="text-align: center;">MAP</p> 
Date & Time: June 7, 2021 09:28	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	High (x - 49)
Approximate Depth:	5-Deep (>15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	Long: >100'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	3-Mid-range (45 to 90 degrees)
Gully Shape:	1-Trapezoid
Gully Material:	Silt and/or Clay

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	Yes	
Degradation:	3-Moderate, 5-Severe	
Aggradation:	0-No aggradation	
Slumping:	5-Severe	
Additional Notes:	Classification? High (x - 49) Notes/Comments: Lots of trees fallen further downstream, lots of exposed roots, has pipe connection on other side	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

View from on top of trail over pipe, showing lots of degradation through exposed roots on right bank, and lots of fallen trees further downstream

Photo2



Photo2 View Direction: View Downstream

Photo2 Caption

Pile of fallen trees downstream.

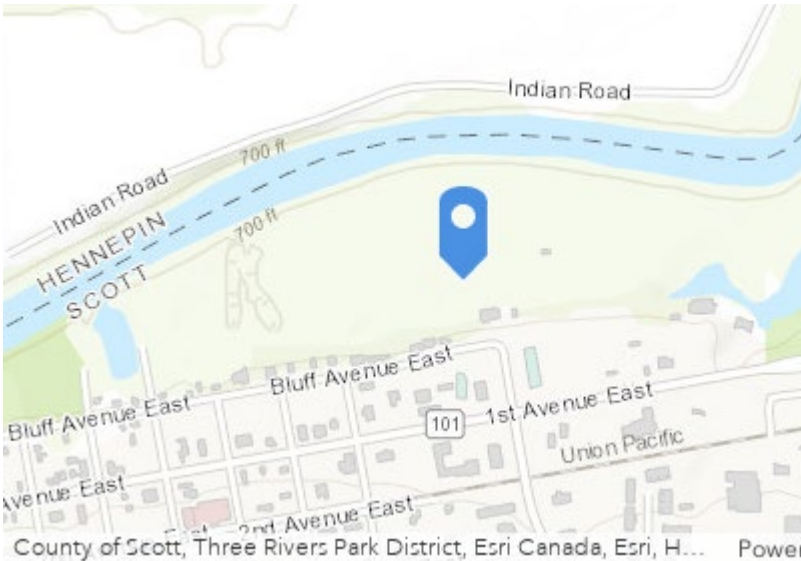
Photo3



Photo3 View Direction: View Upstream

Photo3 Caption

Upstream view of pipe which is armored and doesn't show signs of erosion.

Gully ID: 06:07-08:34	<p>MAP</p> 
Date & Time: June 7, 2021 08:34	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Moderate (x - x)
Approximate Depth:	3-Medium (3'-15')
Approximate Bottom Width:	1-Wide (>5')
Approximate Gully Length:	Medium: 50'-100'
Condition of Gully Bottom:	5-Bare Soil
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	1-Obtuse (>90 degrees)
Gully Shape:	1-Trapezoid
Gully Material:	Gravel/Cobble/Boulders

Seep:	No
Stormwater Inputs:	0-Not present
Fallen Trees:	Yes
Degradation:	0-No degradation, 1-Low
Aggradation:	0-No aggradation
Slumping:	5-Severe
Additional Notes:	<p>Classification? Moderate (x - x)</p> <p>Notes/Comments: Pipe outfall armored with large rocks, there are some smaller rocks along part of the gully bank and bottom, but would not consider it armored. This gully leads into a creek. plarge pipe so area must get a lot of water</p>

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

View from above pipe outfall showing the armoring around the pipe. There is a fallen tree on the right bank and trees slumping on both banks.

Photo2



Photo2 View Direction: View Upstream

Photo2 Caption

View upstream from bridge over the gully, just downstream of the bridge this gully connects to the other gully/creek. Can see two ,ore fallen trees on the right bank.


Photo3



Photo3 View Direction: View Downstream

Photo3 Caption

Connection between gully from pipe and gully from creek. Gully from pipe is on the right side.

Gully ID: 06:03-02:01	<p style="text-align: center;">MAP</p> 
Date & Time: June 3, 2021 14:01	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	
GULLY INFORMATION	
Calculated Erosion Potential:	Low (4 - x)
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	0-Armored/Riprap
Condition of Gully Banks:	0-Armored/Riprap
Gully Bank Angles:	3-Mid-range (45 to 90 degrees)
Gully Shape:	1-Trapezoid
Gully Material:	Gravel/Cobble/Boulders

Seep:	No
Stormwater Inputs:	0-Not present
Fallen Trees:	No
Degradation:	0-No degradation
Aggradation:	0-No aggradation
Slumping:	0-No slumping
Additional Notes:	<p>Classification? Low (4 - x)</p> <p>Notes/Comments: Drainage pipe right off trail. Surrounded by lots of riprap and some vegetation growing within.</p>


Photo1



Photo1 View Direction: View Upstream

Photo1 Caption

View from trail of drainage pipe, showing lots of rip rap and lack of vegetation.

<p>Gully ID: 06:03-11:58</p>	<p>MAP</p> 	
<p>Date & Time: June 3, 2021 11:58</p>		
<p>Location: Shakopee</p>		
<p>Weather: Sunny</p> <p>Storm/Rainfall Event in the Past 24 Hours? No</p>		
<p>GULLY INFORMATION</p>		
<p>Calculated Erosion Potential:</p>	<p>Low (4 - x)</p>	
<p>Approximate Depth:</p>	<p>1-Shallow (<3')</p>	
<p>Approximate Bottom Width:</p>	<p>3-Medium (1'-5')</p>	
<p>Approximate Gully Length:</p>	<p>Short: <50'</p>	
<p>Condition of Gully Bottom:</p>	<p>1-Heavy Vegetation</p>	
<p>Condition of Gully Banks:</p>	<p>3-Some Vegetation</p>	
<p>Gully Bank Angles:</p>	<p>3-Mid-range (45 to 90 degrees)</p>	
<p>Gully Shape:</p>	<p>3-U-Shaped</p>	
<p>Gully Material:</p>	<p>Silt and/or Clay</p>	

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	0-No degradation, 1-Low	
Aggradation:	0-No aggradation	
Slumping:	0-No slumping	
Additional Notes:	Classification? Low (4 - x) Notes/Comments: Other side of drainage pipe under paved trail. Lots of vegetation and some logs and tree trunks, but doesn't look like the fell into the gully, may have been placed.	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

View of pipe from trail. Can see vegetation and dead branches. Rip rap around pipe opening.


Photo2



Photo2 View Direction: View Upstream

Photo2 Caption

View down from above pipe opening showing heavy vegetation.

Gully ID: 06:03-01:47	MAP 
Date & Time: June 3, 2021 13:47	
Location: Shakopee	
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No	

GULLY INFORMATION	
Calculated Erosion Potential:	Low (4 - x)
Approximate Depth:	1-Shallow (<3')
Approximate Bottom Width:	3-Medium (1'-5')
Approximate Gully Length:	Short: <50'
Condition of Gully Bottom:	0-Armored/Riprap
Condition of Gully Banks:	3-Some Vegetation
Gully Bank Angles:	1-Obtuse (>90 degrees)
Gully Shape:	3-U-Shaped
Gully Material:	Gravel/Cobble/Boulders

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	0-No degradation	
Aggradation:	0-No aggradation	
Slumping:	0-No slumping	
Additional Notes:	Classification? Low (4 - x) Notes/Comments: Pipe comes out onto boulders, causing minor erosion on sides	


Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

Downstream view of armored banks of gully around pipe outfall

<p>Gully ID: 06:03-11:34</p>	<p style="text-align: center;">MAP</p> 
<p>Date & Time: June 3, 2021 11:34</p>	
<p>Location: Shakopee</p>	
<p>Weather: Sunny</p> <p>Storm/Rainfall Event in the Past 24 Hours? No</p>	
GULLY INFORMATION	
<p>Calculated Erosion Potential:</p>	<p>High (x - 49)</p>
<p>Approximate Depth:</p>	<p>5-Deep (>15')</p>
<p>Approximate Bottom Width:</p>	<p>1-Wide (>5')</p>
<p>Approximate Gully Length:</p>	<p>Medium: 50'-100'</p>
<p>Condition of Gully Bottom:</p>	<p>5-Bare Soil</p>
<p>Condition of Gully Banks:</p>	<p>5-Bare Soil</p>
<p>Gully Bank Angles:</p>	<p>5-Acute (< 90 degrees or undercut)</p>
<p>Gully Shape:</p>	<p>3-U-Shaped</p>

Gully Material:	Silt and/or Clay	
Seep:	No	
Stormwater Inputs:	3-Constant high flow	
Fallen Trees:	Yes	
Degradation:		3-Moderate
Aggradation:		0-No aggradation
Slumping:		3-Moderate
Additional Notes:	Classification? High (x - 49) Notes/Comments: Pipe bringing lots of constant water flow into gully, trees fallen on side, low vegetation throughout	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

Downstream view of right bank of gully.

Photo2



Photo2 View Direction: View Downstream

Photo2 Caption

Downstream view of left bank of gully.

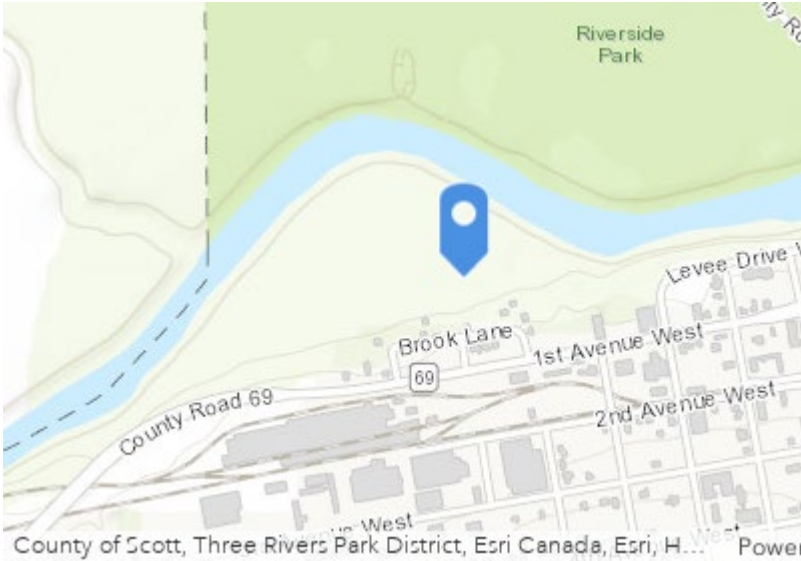
Photo3



Photo3 View Direction: View Upstream

Photo3 Caption

Pipe with high flow of water coming out.

Gully ID: 06:03-14:09	MAP 	
Date & Time: June 3, 2021 14:09		
Location: Shakopee		
Weather: Sunny Storm/Rainfall Event in the Past 24 Hours? No		
GULLY INFORMATION		
Calculated Erosion Potential:	Low (4 - x)	
Approximate Depth:	1-Shallow (<3')	
Approximate Bottom Width:	3-Medium (1'-5')	
Approximate Gully Length:	Short: <50'	
Condition of Gully Bottom:	5-Bare Soil	
Condition of Gully Banks:	0-Armored/Riprap	
Gully Bank Angles:	1-Obtuse (>90 degrees)	
Gully Shape:	3-U-Shaped	
Gully Material:	Silt and/or Clay	

Seep:	No	
Stormwater Inputs:	0-Not present	
Fallen Trees:	No	
Degradation:	0-No degradation	
Aggradation:	0-No aggradation	
Slumping:	0-No slumping	
Additional Notes:	Classification? Low (4 - x) Notes/Comments: Pipe going under trail causing minor erosion, but boulders on side negate the effects pretty well	

Photo1



Photo1 View Direction: View Downstream

Photo1 Caption

Downstream view of entire gully and pipe.

Photo2



Photo2 View Direction: View Upstream

Photo2 Caption

View of other side of trail where pipe leads to.

