



**US Army Corps
of Engineers**
St. Louis District®

Regulatory Branch
1222 Spruce Street
St Louis MO 63103-2833
314-331-8575

ORM Number	MVS-2021-175
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Project Manger	D. Meyer
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Site Visit Report

Date of Visit: Mar 24, 2021

Time of Visit: 0900

Directions to Site or Site Location: St. Charles, Missouri - Subdivision located 0.2 miles south of St. Peters Pkwy.

Site Visit Notes:

The U.S. Army Corps of Engineers (Corps) received a submittal from the Home Owner's Association for various bank stabilization issues throughout the community. A site visit was requested for the Corps to tour the property With Mr. T. Dubis and Mr. J.Rutherford, to offer insight and suggestions, as well as permitting options. There was multiple sites that were observed and they are described below with the associated discussion.

- 221 Victory Lane : A perennial stream flows along a backyard residence. Erosion is being experienced along the left descending bank and is undercutting along the toe. The homeowners expressed interest in stabilizing 75-100' of the bank with stone. The Corps recommended using material that is suitable size that would not wash away from high flows. By matching the existing material that is in place, it appears that 18" stone would be required. This material would be placed along the toe and then native vegetation planted along the buffer. This project would qualify for a Nationwide 13 Bank Stabilization permit, this document has been provided within the enclosures.
- 2726 Cumberland Landing: A perennial stream flows along a backyard of a residence. There is a stormwater culvert that discharges adjacent to her property. The storm culvert is perched way above stream bed grade and is causing severe scour/erosion. The homeowner is in threat of losing infrastructure on the property. The culvert would need to be lowered to bed elevations and/or would require the installation of scour stone revetment to be placed along the stream bed and bends of the channel banks. There is no exposed bedrock in this section of stream, so there is a threat that the bed will continue to degrade and get deeper, which will cause further bank instability. Any stabilization work would qualify under a Nationwide 3 Maintenance or 13 Bank Stabilization permit.
- Heritage Landing Across From Horseshoe Ridge: This occurred within common ground and it was observed that a storm drain was perched and discharging without erosion control measures. This was not located within an area of jurisdiction with the Corps, therefore would not require a permit to perform maintenance. However, it was recommended that erosion control measures (large stone) be placed within the drainage to prevent further scour and cutting. This un-maintained drainage could lead to further instability to the creek downstream.
- 1389 Hampton: Located behind the Patio Homes, a perched storm water drain was observed discharging into a common ground sloped hillside. The lack of erosion control measures resulted in a 15-20' deep washout. This area was out of the jurisdiction of the Corps, therefore would not require a permit for maintenance work. However, it was recommended that erosion control measures (large stone) be placed within the drainage to prevent further scour and cutting. This un-maintained drainage could lead to further instability to the creek downstream.
- 5 Summit Station: An observed stormwater outlet was locate behind the house that has slope failure. This storm outlet is perched and shortened due to separation. An erosional cut had formed due to lack of stability measures. This area was out of the jurisdiction of the Corps, therefore would not require a permit for maintenance work. However, it was recommended that erosion control measures (large stone) be placed within the drainage to prevent further scour and cutting. This un-maintained drainage could lead to further instability to the creek downstream.





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- Stonewall Ct. : Followed a drain from main hole cover to beginning of creek with sinking ground and a separated discharge shooting upward. The separated pipe structures could cause land sinks within this area, leading to instability. Also, the discharge end of the pipe is perched and may increase scour and erosion. It is recommended to repair the drain structure and apply stabilization measures on the the downstream end. Any work on the discharge end within the creek channel would require a permit from our office. This project would qualify under a Nationwide 3 Maintenance permit.

It would be recommended for the HOA to talk with the storm sewer district or the County to determine who is liable for maintenance of these structures. The lack of repairs is most likely to lead to further issues, at a much higher expense.

Discussions took place in regards to the riparian corridor and how homeowners could plant native vegetation to increase bank stability. Please click on the web link that gives a good description of the importance of buffers and what vegetation is best to plant: https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs144p2_043594.pdf

It was noted that the HOA and homeowners can clear invasive bush honeysuckle amongst the landscape and along the streams. Also, any dead/woody debris that is blocking the stream channel can removed from the channel without a permit from the Corps' office.

The Corps shall send the HOA of the subdivision this field report, Nationwide Permit conditions, and a list of qualified consultants if ever they need technical analysis.