
From: Clampitt, Christopher (DEQ)
Sent: Monday, November 30, 2015 11:48 AM
To: warrenm@spicergroup.com
Cc: jkenyon@wadetrim.com; losborn@wadetrim.com; Hansen, Ron B.; Okeefe, Colleen (DEQ); burdick.melanie@epa.gov; Cervelli, Donna (DEQ); Fish, Kim (DEQ); Russell, Jon (DEQ); Vanderlaan, Mary (DEQ); Prysby, Mike (DEQ); Barbara Hosler; 'Matt Raysin'
Subject: FW: Proposed Water Line Relocation (Genesee Co. Drain Commissioner/Karegnondi Water Authority)
Attachments: Location Map.pdf; 20151125-S.5004_Plan and Profiles.pdf; Delineation Report.pdf; WT_Standard Details.pdf; 20151124_S5004 Restoration Table.pdf; Wetland Disturbance Comparison.pdf

Warren,

As I previously advised Ron Hansen, re-routing a permitted pipeline so that it crosses streams, lakes, or wetlands at new or expanded locations requires a new permit from our office. Based on the materials that you provided (attached), I anticipate that the US EPA (and the US Fish and Wildlife Service) will review the application; they have 90 days to complete their review once they receive the complete application (typically when they receive our Public Notice). Depending on the nature and quality of the affected resources and the extent and nature of the impacts (temporary and permanent), compensatory mitigation may be required. Obviously, the sooner we receive an application, the sooner the various agencies can complete their reviews.

We encourage you to submit a permit application, including materials that you provided last week, as soon as you can so that we can complete our review to meet your deadlines. Please make sure that the application package is complete and thorough. It should include the completed application form, location map(s), and detailed drawings showing the wetland/stream crossings. Wetland delineation forms, photographs, culvert dimensions and calculations, conceptual mitigation plans, and other information should be included as needed.

Feel free to contact me if you have further questions regarding this matter.

Thank you,

Chris

Christopher Clampitt
 Lansing District
 Water Resources Division
 Michigan Department of Environmental Quality
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From: Miller, Warren T. [mailto:warrenm@spicergroup.com]
Sent: Wednesday, November 25, 2015 2:57 PM
To: Clampitt, Christopher (DEQ) <CLAMPITTC@michigan.gov>
Cc: Jason Kenyon (jkenyon@wadetrim.com) <jkenyon@wadetrim.com>; PE Larry A. Osborn (losborn@wadetrim.com)

<losborn@wadetrim.com>; Hansen, Ron B. <ronh@spicergroup.com>

Subject: Proposed Water Line Relocation

Chris,

The GCDC-WWS is planning to realign the portion of the 36-inch City of Flint raw water line and 48-inch GCDC treated water line that were originally permitted for wetland and stream impacts along Stanley Road between Marathon Road and German Road in Oregon Township, Lapeer County. The previously permitted impacts for this section of water line include wetland Impacts 59 and 60 as included in MDEQ Permit No. 13-25-0060-P and stream Impact 58 as included in MDEQ Permit No 15-44-0016-P. The previous permit allowed for temporary wetland impacts and replacement of the Stanley Road crossing over the Henry Drain including cofferdams, rip rap and SESC BMP's.

At this point, GCDC-WWS is planning to change the alignment for this reach of pipe as show by the red line on the attached location map, and as shown in more detail on the attached construction drawing. The need for GCDC-WWS to revise the alignment is due to (1) poor soils conditions found along the originally proposed route within the Stanley Road right-of-way, (2) the costs associated with providing piles and saddles to support the water main through the areas of poor soils and (3) to reduce the potential of unexpected impacts associated with working in poor soils. Somat Engineering, the geotechnical consulting firm hired by GCDC-WWS, performed a number of soil borings along the originally proposed route and found that poor soils, including but not limited to loose silty sand, fibrous peat, and organic clay, were encountered on both sides of the road and extended about 19 to 29 feet below the proposed pipe invert elevations. Based on these findings, the water line was originally designed to be supported on an extensive and deep foundation system. However, when GCDC-WWS received several bids from Contractor's to perform the work, the costs were found to be approximately 3 times higher than in other areas of the project.

As a result, the GCDC-WWS developed this alternative to move the water lines away from the area of poor soils and eliminate the need for a considerable support system. The GCDC-WWS has obtained easements for this proposed realignment. The proposed realignment would now extend from the intersection of Marathon and Stanley Roads west approximately 1300 feet, where it would then turn south in a private easement and extend approximately 1400 feet, before turning west, again in private easements, and extending approximately 3250 feet. The 36" water main would then turn north and proceed another 1250 feet to the right-of-way at Stanley Road, where it will then turn west and extend another 200 feet where it will then be connected to the existing 36" water main that was installed as part of the S-4007 project that was previously constructed by the Karegnondi Water Authority. The 48" water main would continue west, approximately 3250 feet, where it would connect to the S-5005 project to be constructed by the GCDC-WWS.

The route of the proposed realignment was reviewed by Mike Nurse of Streamside Ecological Services for regulated streams and wetlands. It was identified that additional wetland complexes or streams significantly beyond those addressed in prior permit application will be not impacted with the proposed realignment.

The re-alignment will result in significantly less wetland impact overall.

The originally permitted route along Stanley Road crossed through Wetland Impacts 59 and 60, which were classified as emergent/ scrub shrub wetlands. The total temporary wetland disturbance associated with these wetland Impacts was 0.45 Acres. With the proposed realignment, the GCDC is requesting temporary impacts of 0.15 acres for the renamed Impact 59-REV1 and Impact 59-REV2. Attached is a comparison table that illustrates the proposed realignment that reduces the amount of disturbed wetland area by 0.30 Acres.

Wetlands Impacts 59-REV1 and 59-REV2, as shown on the attached plan and profile sheets, are classified as emergent/forested (EM/FO) wetlands. Areas of forested wetlands are located within County Drain right-of-way. The GCDC is proposing wetland plantings as shown on the attached wetland restoration table, which outlines the type and quantity of trees/shrubs that are specified for restoration.