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February 27, 2024

Director, Division of Enforcement
Department for Environmental Protection
300 Sower Blvd.
Frankfort, KY 40601

Chief, Water Enforcement Branch Enforcement and Compliance Assurance Division U.S. Environmental Protection Agency, Region 4 61 Forsyth Street SW Atlanta, GA 30303

Chief, Environmental Enforcement Section Environmental and Natural Resources Division U.S. Department of Justice Post Office Box 7611 Washington DC 20044-7611

Subject: Kavanaugh Road PS Elimination

Project Modification

IOAP Project No. S_HC_HC_MSD1085_S_03_A

DOJ Case No. 3:05-cv-00236-CRS

Attention Chiefs and Director:

MSD is requesting approval of a proposed minor project modification to the Kavanaugh Road PS Improvements project (IOAP Project No. S_HC_HC_MSD1085_S_03_A). This request is part of the ongoing adaptive management review of the approved Integrated Overflow Abatement Plan (IOAP) dated April 2021.

2009 IOAP Project Description

The original Kavanagh Lane PS Improvements Project consisted of upgrading the existing pump station to 0.84 MGD and upsizing approximately 2,500 LF of force main to 8". The project completion date was December 31, 2024.

2012 IOAP Modification Project Description

No changes were proposed in the 2012 IOAP Modification (approved in 2014). The project details remained the same as the 2009 project.

2021 IOAP Modification Project Description

No technical changes were proposed in the 2021 IOAP Modification. The project details remained the same as the 2009 and 2012 projects. The project completion date was changed to December 31, 2025.

2022 Project Modification

In November 2022 a minor modification letter was sent requesting to change the project from pump station improvements to a pump station elimination project. The project name was changed to *Kavanaugh Road Pump Station Elimination*. The modification request was approved in June 2023.

2023 Project Modification Request

The project modification request changes the completion data from December 31, 2025, to December 31, 2027. The project details remain the same as the 2022 project modification request.

Technical Justification

After submittal of the minor modification request, MSD began the detailed design of the interceptor to eliminate the Kavanaugh Road Pump Station. The alignment presented several technical challenges to minimize creek crossings and limit disturbance to sensitive areas (steep slopes, wooded areas, pond). Additionally, the alignment resulted in the need to acquire 23 easements from private property owners. Initial conversations with property

Kavanaugh Road PS Improvements Minor Modification Request February 27, 2024 Page 2

owners indicate that some of the easements will be difficult to acquire. Discussion and negotiations will continue, but it is likely that some of the easements will need to be acquired through legal proceedings. The project was initially scheduled to begin construction in the spring of 2024, with an estimated construction duration of approximately 1 year. This schedule would have allowed for a 6 month 'float' prior to December 31, 2025. However, it appears easement negotiations and acquisition will delay the construction start date by 6 months to 1 year. Although MSD will continue efforts to expedite the project as much as possible, the delay will likely push the completion schedule beyond December 31, 2025.

Previous work has been performed to minimize overflows at the site. MSD installed a backup power generator at the station in December 2018. Since that date, no overflows have occurred at the pump station site. Furthermore, MSD will attempt to haul from the station if a high wet well is detected. While modeling still indicates the project is necessary to meet the required Level of Control, the installation of the backup power generator and regular maintenance activities have minimized the overflows at the station.

For your reference, a copy of the original project fact sheet from the 2021 IOAP Modification can be found in Attachment "A". The approved 2022 fact sheet is included as Attachment "B".

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have questions or need additional information, please contact me at (502) 540-6136.

Sincerely,

Angle Lakidge
Angle Factor ARPHOGE, PE

Chief Strategy Officer

for Business Transformation and Regulatory Compliance

cc: T. Parrot D. Johnson, PE J. Quarles

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Attachment A: 2021 IOAP Modification Fact Sheet Attachment B: 2022 Project Modification Fact Sheet

Attachment A



SSO Project Fact Sheet

2012 IOAP Project Modification



Project Name Kavanaugh Rd. PS Improvements

Project Number S_HC_HC_MSD1085_S_03_A

Modeled Area Hite Creek

Branch or SSO ID MSD1085

Project Type PS Upgrades

Receiving Stream Hite Creek

Project Description This alternative includes upgrading the Kavanaugh Road pump station to handle peak flows of 0.84

MGD and upsize 2,458 LF of force main to 8".

Reason for Overflow Pump station capacity

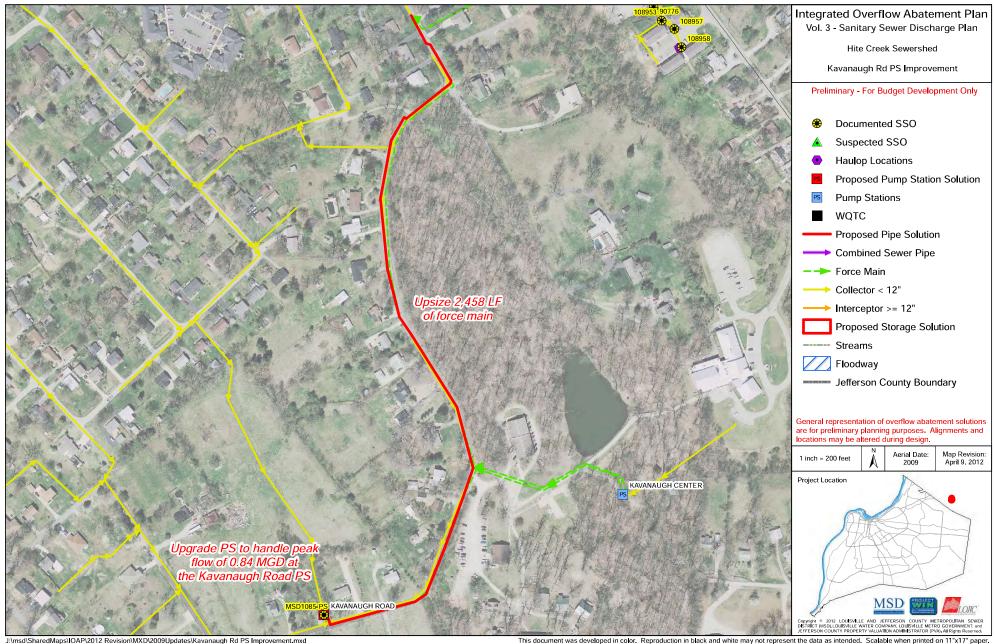
Design Parameters This solution is based on a 2.60 inch cloudburst rain event.

Project Constraints Project will occur in MSD easements or land

Estimated Capital Cost \$1,110,000 Weighted Benefit/Cost Ratio 21.09

Asset ID		SSO Start Date	Volume (Gal)
MSD1085-PS	4/4/2008		176000
MSD1085-PS	5/11/2003		800

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Attachment B



SSO Project Fact Sheet 2022 IOAP Project Modification



Project Name Kavanaugh Rd. PS Elimination

Project Number S_HC_HC_MSD1085_S_03_A

Modeled Area Floyds Fork

Branch or SSO ID MSD1085

Project Type Pump Station Elimination

Receiving Stream Floyds Fork

Project Description This project will eliminate the existing pump station by constructing approximately 1,700 LF of 8"

sewer and 7,100 LF of 18"-21" sewer from the pump station site to a future interceptor at the former Ash Avenue Wastewater Treatment Plant Site. The interceptor would be sized for the potential future elimination of the Cherry Lane and Kavanaugh Center pump stations. The

elimination of these stations is not included in the project cost.

Reason for Overflow Pump station capacity

Design Parameters This solution is based on a 2.60 inch cloudburst rain event.

Project Constraints Project will occur in MSD easements or land

Estimated Capital Cost \$3,655,900 Weighted Benefit/Cost Ratio 21.09

 Asset ID
 SSO Start Date
 Volume (Gal)

 MSD1085-PS
 4/4/2008
 176000

 MSD1085-PS
 5/11/2003
 800

