



Groundwater & Environmental Services, Inc.

6010 North Bailey Ave, Suite 1
Amherst, NY 14223

T. 800.287.7857

May 16, 2024

Ms. Megan Kuczka
Environmental Program Specialist 1
New York State Department of Environmental Conservation – Region 9
700 Delaware Avenue
Buffalo, New York 14209

**Re: Completion Report for Sump 1-3 Conveyance Line Excavation and Replacement –
Revision 1
Niagara Mohawk - Cherry Farm Site (NYSDEC Site No. 9-15-063)
River Road Site (NYSDEC Site No. 9-15-031)
4100 River Road, Tonawanda, New York 14150
File No. 442205**

Dear Ms. Kuczka:

Groundwater & Environmental Services, Inc. (GES), on behalf of the Potentially Responsible Parties Group (PRP Group) of Honeywell International Inc. and Niagara Mohawk Power Corp. d/b/a National Grid, is submitting this Completion of Work Report to detail the excavation and repair of the existing Ground Water Treatment System (GTWS) conveyance lines associated with Sumps 1 through 3 at the above referenced Niagara Mohawk - Cherry Farm Site (Site).

The work was completed in accordance with the Excavation Work Plan that is included in the *2017 Post-Remedial Operations, Maintenance, and Monitoring Manual* (OM&M Manual) and a Site-Specific Health and Safety Plan (HASP). The *Work Plan for Sump 1-3 Conveyance Line Excavation and Replacement* dated April 7, 2022 was approved by the New York State Department of Conservation (NYSDEC) on April 8, 2022.

General Site features and system component locations are presented in **Figure 1**. The subgrade conveyance lines traverse the Site between Sumps 1 through 3 and the onsite GWTS treatment facility (**Figure 1**). The excavation and repair phase of this work was completed in December 2022, and included the excavation, inspection, jetting, and replacement of blocked conveyance line. Decreased flow was detected in October 2021, at which time acid treatment of the conveyance line was attempted to clear the blockage. As acid treatment did not reestablish sufficient flow in the conveyance piping, the decision was made to excavate and repair/replace the line as was done with the separate Sump 4 conveyance line in 2019.

Excavation started November 10, 2022 by Russo Development, Inc., with excavation starting adjacent to Sump 4 on the River Road Side of the Site. Excavation continued north towards the Niagara Mohawk – Cherry Farm portion of the Site. The line was jetted following visual inspection

and any pipe that could not be jetted clear was replaced with new pipe. All lines were pressure tested prior to back fill of the excavated areas. During the installation of the new conveyance lines, twelve (12) subgrade cleanouts were installed to allow future cleaning of the conveyance line [eight (8) double-sweep cleanouts and four (4) single-direction cleanouts]. Excavation activities are further discussed below in the *Conveyance Line Replacement – December 2022* section of this report.

Due to wet conditions during the completion of the line replacement activities, the final restoration phase of this work was completed in December 2023 and included surface backfilling and grading disturbed areas associated with the conveyance line construction work with imported soil. All excavation and restoration efforts were completed by Russo Development, Inc.

Conveyance Line Replacement – December 2022

Excavation to find the existing system trench and uncover the conveyance line began in the utility trench east of Sump 4 and its associated piping and moved north towards Sump 3 as shown on **Figure 1**. Following excavation, the pipe was inspected and was jetted if any scale was visible. Fully occluded sections of the header pipe were removed and replaced. Additional partially restricted line was also removed and replaced if jetting the line was unable to remove the material buildup that was located in the line. No contaminated material was encountered during excavation of the utility trench or when uncovering conveyance line based on visual inspection and field screening with a photoionization detector (PID), and all excavated fill soil and sod was staged on separate poly sheeting until the material was backfilled into the excavated area. Coordination for waste pick up of the removed pipe is ongoing: excavated pipe is currently staged on the Site covered in poly. A manifest will be submitted by letter addendum following disposal of the pipe.

The blocked sections of original piping were removed and replaced with 2-inch diameter DR-11 high density polyethylene (HDPE) pipe due to the original specification DR-13.5 HDPE pipe being unavailable at the time. The DR-11 has a thicker wall and higher-pressure rating than the original DR-13.5. Specifications of the HDPE piping used during this repair are contained in **Appendix A**. No metallic fittings were encountered during excavation activities, and pipe/fittings installed were of the same material and of equal or greater strength than original materials.

To allow future cleaning, a series of cleanouts were installed along the Sump 1-3 conveyance line to the GWTS facility, with a total of 12 cleanouts installed on the Sump 1-3 conveyance line as shown on **Figure 1**. Pipe and fitting connections were made by electrofusion following the pipe manufacturer's specifications. All pipe connections were completed prior to installing in the trench and connecting to the original line, as specified in the *Work Plan for Sump 1-3 Conveyance Line Excavation and Replacement*.

During all excavation activities, two (2) Community Air Monitoring Program (CAMP) setups were used to monitor particulate levels and volatile organic compounds (VOCs) as specified in section 14 of the Excavation Work Plan in the OM&M Manual. VOCs levels were 0.0 parts per million (ppm) or equal to upwind levels throughout the site activities, however, due to a technical issue the logged data from the PID units were lost during download. No particulate exceedances or visible dust beyond the work area were identified during the completion of work. CAMP data tables are provided in **Appendix B**.



Certification

I, Genevieve F. Bock, certify that I am currently a New York State (NYS) registered professional engineer, I had primary direct responsibility for the implementation of the subject construction program, and I certify that the Remedial Work Plan was implemented and that all construction activities were completed in substantial conformance with the DER-approved Remedial Work Plan.



Genevieve F. Bock, P.E.

Name


Signature

Stamp

5/16/24
Date

It is a violation of Article 130 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 130, New York State Education Law.

If you have any questions, please contact Thomas Palmer at (800) 287-7857 (ext. 4346).

Sincerely,

Groundwater & Environmental Services, Inc.


Thomas Palmer
Sr. Project Manager


Genevieve F. Bock, P.E.
NE Region Engineering Manager



CC:

Brian Stearns
Niagara Mohawk Power
Corp. d/b/a
National Grid
300 Erie Boulevard West
Syracuse, NY 13202-4250

Sasa Jazic
Honeywell International, Inc.
14 Columbia Circle
Suite 103
Albany, NY 12203-5196

Chris Burns
CHA Consulting Inc.
9020 Stony Point Parkway,
Suite 160
Richmond, VA 23235



Figures

M:\



Appendix A - HDPE Pipe Specifications Sheet
