

October 5, 2024

Jeff Jiang, P.E.
CITY OF HOLLYWOOD
Assistant Director
Department of Public Utilities
Engineering and Construction Services Division
Post Office Box 229045
Hollywood, Florida 33022

City of Hollywood SRWWTP
Consent Order Corrective Actions

Dear Mr. Jiang:

As requested, Hazen and Sawyer, D.P.C. (Hazen) is pleased to offer services for the management of a Consent Order for the Southern Regional Wastewater Treatment Plant which is being administered by the Florida Department of Environmental Protection.

BACKGROUND

Due to noted violations, the City has been issued draft Consent Order (CO) Number 21-0392 with the Florida Department of Environmental Protection (FDEP) Office of the General Council (OGC) on September 6, 2024. The CO identified various areas where corrective actions are needed along with completion deadlines required to improve sanitary sewer service, treatment and disposal within the Southern Region. The City has acknowledged that corrective actions are needed and it is envisioned that the City will execute the CO after negotiations with FDEP regarding the violations noted and the proposed schedule for correction.

The draft CO requires the City to undertake a series of studies, planning tasks, and potential design and construction projects to improve the wastewater infrastructure within the Southern Region. The City has already commenced some design and construction tasks required by Paragraphs 6(a) through 6(c) of the CO. Completing all CO requirements within the deadlines necessitates the implementation of certain program controls, including a master schedule.

In addition, the CO contains a calculated penalty which must be paid or offset through an acceptable In-Kind project. Such a project must be reviewed and approved by FDEP. As a result, the City has requested Hazen to provide this scope of work for evaluation of causes of permit violations and specific operations and maintenance practices at the Southern Regional Wastewater Treatment Plant.

SCOPE OF SERVICES

Task 1 – Corrective Actions to Address Effluent Exceedances

Paragraph 5 of the draft CO noted that the SRWWTP Permit limits for effluent, reuse, and underground injection control (UIC) water quality were exceeded some 43 times for fecal coliform, total suspended solids, total residual chlorine, and carbonaceous biological oxygen demand between

October 1, 2021 and October 31 2023. Hazen shall conduct an evaluation of the SRWWTP to determine the cause or causes of the violations identified in subparagraph 4a of the CO and provide a report to FDEP, signed and sealed by a professional engineer registered in the state of Florida, to remedy the cause or causes identified. The evaluation will provide a summary of the current wastewater capacity of the individual components of the SRWWTP, capacity of the overall SRWWTP, and compare the current capacity with historic flowrate data. Capacity evaluation will be based on existing equipment and tankage and assume best operations and maintenance is practiced. Recommendations for correction of deficiencies noted will be provided.

It is understood that submittals to FDEP for review and approval are subject to approval with conditions or modifications as a contingency of approval or disapproval requiring the revision and resubmittal. As such, it is recognized that the level of effort for these services has been estimated in good faith and should additional services be needed, the City and Hazen will mutually agree on additional efforts, if needed.

Task 2 – Corrective Actions to Address Facility Operation and Maintenance

Paragraph 6 of the draft CO noted that the SRWWTP failed to maintain and operate its equipment so as to function as intended. In particular, several pieces of equipment or processes were out of service or inoperable at the time of inspection. Hazen shall develop a plan and schedule that outlines all repairs made or to be made to the SRWWTP's treatment plant equipment or units, including the effluent disposal systems, that are either in poor condition, in disrepair, out of service, or inoperable. In addition, Both of the 48" discharge pipes identified in the CO have been replaced. Hazen shall evaluate the 48" effluent discharge pipes and provide a report to FDEP, signed and sealed by a professional engineer registered in the state of Florida, detailing the findings. Recommendations for correction of deficiencies noted will be provided. It is noted the evaluation does not include excavation and testing of any pipe, destructive or otherwise, however third-party testing may be recommended.

It is understood that submittals to FDEP for review and approval are subject to approval with conditions or modifications as a contingency of approval or disapproval requiring the revision and resubmittal. As such, it is recognized that the level of effort for these services has been estimated in good faith and should additional services be needed, the City and Hazen will mutually agree on additional efforts, if needed.

Task 3 – City-Directed Services

This task is intended to provide for additional services, not otherwise defined herein, that may be requested and authorized by the City during the project. Use of the associated budget is subject to specific authorization by the City.

KEY ASSUMPTIONS

Key assumptions concerning this scope are:

- Costs and expenses incurred by FDEP as outlined in draft Consent Order (CO) Number 21-0392, paragraph 11 are not included
- Evaluation of specific conditions affecting the VSC collection/transmission systems is not included and a need for VSC participation is not expected

- I&I Plan implementation and associated reporting will be addressed under future authorizations
- The AM and CMOM Program implementation and associated reporting will be addressed under future authorizations
- City shall provide access to plans and data (electronic format), both public and private, that City has record of and provide copies of requested information/documents at no charge.
- City will provide access to all necessary facilities for execution of the work
- Surveying services and underground utility locates are not envisioned
- The extent of design, permitting and management of modifications necessary to correct identified deficiencies are not known at this time and are not included
- This scope does not include any permitting services or negotiations with other agencies, jurisdictions, or parties relative to specific projects. Meetings with these parties may occur relative to general matters and/or conceptual solutions
- As the CO is currently in draft form and as the extent of communications with FDEP cannot be determined in advance, it is assumed that the budget for each task described may be more or less than estimated such that unused funds in one task may supplement another task

PURSUANT TO SECTION 558.0035, FLORIDA STATUTES, A DESIGN PROFESSIONAL WHO IS AN INDIVIDUAL EMPLOYEE OR AGENT OF CONSULTANT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE OCCURRING WITHIN THE COURSE AND SCOPE OF THIS TASK ORDER.

COMPENSATION

Engineering services performed under Tasks 1 through 3 of this Authorization will be performed for a Not-to-Exceed fee of \$203,455 including other direct costs. A fee breakdown is attached.

SCHEDULE

Projects of this type are heavily dependent upon data gathering from the City, communication with FDEP and, if construction efforts are found to be necessary, from various vendors and manufacturers. Engineering services are estimated to be completed in accordance with the schedule outlined by the CO and presented in the attached schedule. It is noted that, apart from construction projects requiring a permit, and I&I, AM and CMOM related projects, management and reporting for all corrective actions should be completed within 2 years of the effective date of the CO.

Engineering services for the project will be performed as part of our Professional Services Agreement for General Engineering Consultant Services (Agreement) dated October 2023. Services provided by Hazen and Sawyer, D.P.C. shall be limited to those services specifically identified in this work order.



We look forward to your reply. In the meantime, should you have any questions, please contact us.

Very truly yours,

HAZEN AND SAWYER, D.P.C.

A handwritten signature in blue ink, appearing to read "J. Philip Cooke".

J. Philip Cooke, P.E.
Vice President

c: File No. 4321-016/1.0

Attachment

CITY OF HOLLYWOOD
SOUTHERN REGIONAL WASTEWATER TREATMENT PLANT
CONSENT ORDER CORRECTIVE ACTIONS
Fee Breakdown

<u>Tasks</u>	Labor Hours										<u>Subtotal</u>	<u>Fee</u>
	<u>Senior Officer</u>	<u>Senior Associate</u>	<u>Sr Principal Engineer</u>	<u>Principal Engineer</u>	<u>Assistant Engineer III</u>	<u>Engineer</u>	<u>Principal Designer</u>	<u>Senior Designer</u>	<u>Senior Drafter</u>	<u>Admin Assistant</u>		
LABOR												
Task 1 - Corrective Actions - Effluent Exceedances	20	0	48	64	0	0	0	24	64	20	240	\$ 42,135
Task 2 - Corrective Actions - Facility O & M	24	0	72	112	0	0	0	24	88	24	344	\$ 60,820
Task 3 - City Directed Services												\$ 100,000
Subtotal	44	0	120	176	0	0	0	48	152	44	584	\$ 202,955
DIRECT EXPENSES												
Out-of-pocket												\$ 500
Subtotal												\$ 500
Total												\$ 203,455
Maximum Hourly Labor Rate	367.20	332.07	207.55	194.77	150.07	130.91	185.19	159.65	105.37	89.40		