ADDENDUM #3

DATE: November 14, 2023
PROJECT TITLE: City of Carmel, Indiana Renewable Natural Gas Conversion
PROJECT No.: 2022.02259
OWNER: City of Carmel
ENGINEER: American Structurepoint, Inc.
TO: Prospective Proposers

This Addendum forms a part of the Contract Documents and modifies the RFP Documents dated October 2023, with amendments and additions noted below.

Acknowledge receipt of this Addendum in the space provided in the Exhibit A. Failure to do so may disqualify the Proposer.

This Addendum consists of 2 pages and no Attachments:

Questions Received:

Question: Is an attendee list available of the virtual attendees at the pre-bid meeting?
Answer: There were no virtual attendees at the pre-proposal meeting.

Question: Can the digester feed flow data be shared? How much primary and WAS is being sent to the digesters?
Answer: Below is an excerpt from a 2019 study of the Carmel Wastewater Treatment Plant with regards to the hydraulic capacity of the digesters.

2.2.1 Hydraulic Capacity

The hydraulic loading rate (HLR) is estimated based on maximum month daily flow (MMDF) feed to the digester with a minimum hydraulic retention time (HRT) of 15 to 20 days (per WEF MOP 8 and Ten States Standards) at a minimum temperature of 95°F in the primary digesters. Based on a typical design hydraulic detention time of 15 to 20 days and a digester volume of 1,268,000 gallons, the primary digesters at the WWTP would have a hydraulic capacity between 84,533 gallons per day (gpd) and 63,400 gpd, respectively (see table 2-1). Currently the WWTP is feeding 53,645 gpd at 4 percent solids contents of thickened mixture of primary sludge and WAS to the primary digesters at MMDF with the resulting HRT of 23.6 days. At future build out of 14 MGD, it is projected the sludge feed rate at MMDF to be 70,586 gpd resulting in an HRT of 18 days at the same solids concentration of 4 percent (see Table 2-2). For a typical design, an HRT of 20 days is used. At an HRT of 20 days, the estimated digester available hydraulic capacity is approximately 16,000 gpd and 1,000 gpd under current and future build out AADF conditions (see Table 2- 3). At MMDF there is approximately 9,800 gpd under current flow conditions and no hydraulic capacity available at future build out conditons since the HRT is already below 20 days (see Table 2-3).

Table 2-1 – Hydraulic Capacity of Primary Digesters

Hydraulic Retention Time (days)	Hydraulic Capacity (gpd) at MMDF
15	84,533
20	63,400

Table 2-2 – Current HRT of Primary Digesters

	Current		Future[1]	
	Sludge Feed (gpd)	HRT (days)	Sludge Feed (gpd)	HRT (days)
AADF	47,380	26.8	62,342	20.3
MMDF	53,645	23.6	70,586	18.0

Notes:
1. Future assumes maintaining the same solids concentration in the future as the current condition (approximately four percent)

Question: What is the process for scheduling the one-on-one call? Are there time slots or do we just propose a time?

Answer: Contact Mike Hendricks at the City of Carmel mhendricks@carmel.in.gov to coordinate a time that works for both parties. Meetings can be scheduled anytime between the pre-proposal meeting and the proposal submittal on December 6, 2023.

END OF DOCUMENT