FIFTH ADDENDUM TO INVITATION TO BID
FOR THE DURHAM WRRF PHASE 6B DIGESTER PROJECT NO. 7203

CLEAN WATER SERVICES

ISSUED: OCTOBER 22, 2025

Clean Water Services' Invitation to Bid for the Durham WRRF Phase 6B Digester Project No. 7203 dated September 17, 2025 (ITB) is hereby amended as follows:

1. **There are no changes to the ITB in this Addendum.**

Except as modified in this Addendum, the ITB will remain in effect as originally written.

Clarifications, which do not modify the ITB, are as follows:

1. Question 1: Can you confirm that hollow quill/independent bearing support gearboxes will be the only gearboxes accepted, as described in 2.03 B items 4 & 7 of section 11385?

   Answer 1: Gearboxes shall conform to the requirements in Section 11385, 2.03.B.4 and 2.03.B.7

2. Question 2: In Paragraph 2.08 B 2., can you clarify if the complete mixer (gearbox and impeller shafts) is to be fully assembled in the manufacturer's shop to check runout prior to shipment?

   Answer 2: In order to meet the requirement to test shaft runout at the factory per Section 11385, 2.08.B.2 the impeller shaft would have to be fully assembled. If the motor/gearbox drive assembly is tested separate from the fully assembled shaft and impellers, the gearbox output shaft shall be connected to a dynamometer or mixing element that will provide a resistive load to the motor/gearbox.

3. Question 3: I understand it was noted during the site visit that the temporary secant shoring wall around the digester cannot be 100% circular as shown on the bid set drawings?

   Answer 3: Digester 3 and the secant pile wall shall be shifted west as described in Addendum 3 to keep the secant pile wall circular to the maximum extent possible.

4. Question 4: If I understand correctly the secant shoring wall will need to avoid the existing utility duct bank on the east edge of the secant wall which will require a section

of "flat wall" along the duct bank? This is of concern as I understand there are to many utilities in the duct bank to allow tie backs?

Answer 4: Yes, the secant pile wall will need to avoid the existing electrical ductbank on the east side of Digester 3. Digester 3 and the secant pile wall shall be shifted west as described in Addendum 3 to avoid conflict.

5. Question 5: The digester shoring system is identified as a contractor design-build component of the work. We acknowledge that vibratory hammers or similar installation methods are not permitted. With this understanding, would alternative shoring methods, other than the specified secant pile system, be acceptable (since it is design-build), provided they meet project intent?

   Answer 5: The Bid shall be based on the secant pile excavation support system shown and specified and included in the Unit Price Bid Schedule per Section 2 of the Bid Schedule. An alternative shoring system may be proposed as a substitute or "or-equal" per Article 13 of Section 00100 Instructions to Bidders.

6. Question 6: AGRU is the largest supplier of concrete protection liner for these applications. Will AGRU Suregrip be accepted on this project? See attached the installation guide/brochure.

   Answer 6: The Bid shall be based on the system shown and specified. An alternative system may be proposed as a substitute or "or-equal" per Article 13 of Section 00100 Instructions to Bidders.

7. Question 7: In these applications, usually the entire roof and above the fluctuating water liner are covered with liner. The plans are only showing the liner on the very top part of the digester. The concrete on the walls above the fluctuating water line is exposed to the gases, leaving it susceptible to the attack of H2S and corrosion. Should the entire roof and walls above the fluctuating water line have concrete protective liner? If so, how far should the liner come down below the fluctuating water line to protect the concrete?

   Answer 7: The Bid shall be based on the liner coverage shown on the Drawings. In this application, the fluctuating water line is within the very top part of the digester, with the low-slope portion of the roof submerged.

8. Question 8: Can you the rim elevations please be provided as well for the points shown on page 41 and 42 for the yard piping pages? These are needed to accurately calculate the depth of pipe for excavation, bedding and backfill.

   Answer 8: For page 41 (Drawing 005-CY-101), a profile is shown on 005-CY-301 for the catch basin and manhole rims. For page 42 (Drawing 005-CY-102), as stated in General Sheet Note 3, exact location of pipes is unknown. For estimation purposes, minimum piping cover is 3', as noted on Drawing 001-G-010, and the DG line must maintain a constant slope, per Keynote 2 on Drawing 005-CY-102.

9. Question 9: Would like to request the engineer's consideration for the ArmorLok PVC Protective Lining System as an equal alternative to the two listed in 13217. Please see the necessary information and history listed below:

   We would like to submit for approval ArmorLok PVC Protective Linings. There is a link below to the Sonco website where you can find information about Sonco and a video of a similar structure in Oregon and a link to the ArmorLok where you can find all submittal documentation for the product lines "Engineering Resources and Downloads" tab. I can make myself available at any time to answer any questions.

   Answer 9: The Bid shall be based on the system shown and specified. An alternative system may be proposed as a substitute or "or-equal" per Article 13 of Section 00100 Instructions to Bidders.

END OF ADDENDUM