To: All Plan Holders of Record

From: Verdantas LLC
For the Owner

Re: ***Addendum No. 2***
Procurement of Dewatering Equipment
City of Wheeling, WV

Date: May 22, 2026

This Addendum forms a part of the contract documents and modifies the original bidding documents dated May 2026 and all previous addenda, if any. Acknowledge receipt of this addendum in the space provided in the bid forms. Failure to do so may subject the bidder to disqualification.

Pre-Bid Meeting:

Pre-bid meeting agenda and meeting minutes are attached.

INSTRUCTIONS TO BIDDERS

PART 5 BID SECURITY

DELETE Paragraph 5.1 and **REPLACE** it with the following:

5.1 Each bid must be accompanied by bid security in the form of a certified or cashier's check or a bid bond in the amount of 10% of the amount bid including all alternates, if any. The certified or cashier's check shall be from a financial institution authorized to transact business in the State of West Virginia and acceptable to the Owner. The bond shall be underwritten by a Surety Company authorized to transact business in the State of West Virginia have an agent licensed to do business in West Virginia. The Surety Company shall be listed on the most current Department of the Treasury Circular 570, "Surety Companies Acceptable on Federal Bonds."

DELETE Paragraph 5.4 and **REPLACE** it with the following:

5.4 Checks for bid security of all bidders will be returned within seven days of the Effective Date of the Agreement.

SPECIFICATIONS AND DRAWINGS

SPEC SECTION 011100 SUMMARY OF WORK

REPLACE 1.5.B.1: The Multi-Disc Screw Press (aka Screw Press) system has been designed based on the Esmil Group Multi-Disc Screw Press, **Model MDQ-506CS**, which serves as the Basis of Design.

CLARIFICATION: All specs are based on the six-barrel multi-disc Screw Press model stated above. Any subsequent specs that refer to a five-barrel Model MDQ-506(5) CS, shall be replaced with the six-barrel.

SPEC SECTION 461211 – SCREW SHAFTLESS CONVEYOR

CLARIFICATION: Spare parts for screw shaftless conveyor are noted in Spec Section 467331 1.10 Spare Parts

SPEC SECTION 467331 – DEWATERING MULTI-DISK SCREW PRESS:

REPLACE SECTION 1.2.E.4 WITH:

Performance and Future Capacity: Equipment requiring external aging tanks, oversized vessels, or supplemental process units to meet capacity or performance requirements shall not be accepted.

ADD LANGUAGE:

Approved Equal Requirements: Alternative equipment arrangements maybe be considered. However, acceptance is not automatic and remains contingent upon the Vendor's complete and satisfactory demonstration of compliance with all requirements of all relevant specification. In accordance with §1.2.E.10, the burden of proof rests entirely with the Vendor, and the Vendor shall be solely responsible for demonstrating that the proposed equipment meets or exceeds all site constraints, design requirements, and operational criteria, subject to final approval/disapproval by the Engineer.

Any impacts associated with the alternate arrangement—including but not limited to structural, mechanical, electrical, controls, or installation considerations—shall be the sole responsibility of the Vendor, including any required redesign and associated costs, with no additional compensation or time adjustment to the Contract.

QUESTIONS AND ANSWERS:

Q1. Approved equal

Can the Engineer confirm that approved equal screw press systems are acceptable, provided they meet the specified performance requirements and do not require structural modifications to the existing facility?

A1. Approved Equals may be accepted. Burden of proof shall be on the vendor/Manufacturer (See SPEC 437331 1.2.E.) provided the system meets all other specifications.

Q2. Alternative layout

For an approved equal system, will the Engineer accept an alternative equipment arrangement if all connection points, access limitations, maintenance requirements, and performance guarantees are maintained?

A2. Approved equal may be accepted. See SPEC 467331 1.2.E.10.

Q3. Deviations / exceptions

Can the Engineer clarify whether deviations must be submitted with the bid as a formal exception table, or whether they can be addressed during shop drawing review?

A3. Refer to SPEC 013323 – SHOP DRAWEINGS, PRODUCT DATA, AND SUBMITTALS: 1.5 SUBMITTAL PROCEDURE FOR THE EQUIPMENT PROCUREMENT CONTRACT

Q4. Polymer system configuration

Are two separate polymer blending skids mandatory, or would a single fully redundant polymer preparation system be acceptable if it provides equivalent reliability and operating flexibility?

A4. Two polymer blending skids are mandatory. See SPEC 463333.

Q5. Polymer type

Should the polymer system be designed for liquid emulsion polymer only, or would dry polymer capability be acceptable as an approved equal?

A5. Polymer shall be liquid emulsion. See SPEC 463333 1.3.A

Q6. Existing pump controls

Can the Engineer confirm that new progressing cavity sludge feed pumps are required, while the existing ABB 15 HP VFD local control panels are to be reused and integrated into the new screw press control system?

A6. This is correct.

Q7. Dry solids production and operating hours

Can the Owner confirm the annual sludge production in dry solids, the average weekly dry solids production, the maximum weekly dry solids production, and the desired operating hours during both average and peak sludge production weeks?

Purpose: to properly size the dewatering system and prepare the most accurate expected operating cost assessment.

A7. Solids Loading rate shall be 2,400 dry pounds per hour. See SPEC 467331 1.1.A. Operating hours are 5 days per week 7 hours per day.

Q8. Pilot / mobile BFP data

Can the Owner provide available pilot test results and/or current mobile belt filter press operating data, including sludge feed concentration, cake solids, polymer dosage, throughput and operating hours?

A8. Pilot testing was performed. However, testing is not representative of design conditions and will not be available. See SPEC 467331 1.3.A for design criteria. Operating hours are 5 days per week 7 hours per day.

Q9. Volatile solids / sludge quality

Can the Owner provide the volatile solids content or recent sludge analysis to support confirmation of the 20–21% cake solids performance requirement?

A9. 20% Minimum cake solids performance is a permit requirement.

Q10. Can they extend the bid date?

A10. Bid Date will not be extended.

EF/LS:mep

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MEETING SIGN-IN: 38009 – *Wheeling Wastewater Treatment Plant Sludge Dewatering Improvements Screw Press Procurement*

DATE: May 20, 2026

NAME	COMPANY (REPRESENTING)	ADDRESS	CITY	ZIP	EMAIL ADDRESS
Lucas Skelly	Verdantas	2001 Main Street Suite 600	Wheeling, WV	26003	Lskelly@Verdantas.com
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Sean Casey	Andritz				
Alex Maryneko	Esmil	3939 Mogadore Industrial Parkway	Mogadore, OH	44260	martynenko@esmil.us
George Hanson	Daman Superior				

Meeting Minutes

To: **Attendees**

Subject: ***Wheeling Wastewater Treatment Plant Sludge Dewatering Improvements Screw Press Procurement***

Date: **May 21, 2026**

The agenda for the Pre-bid Conference scheduled for **May 20, 2026 at 10:00 a.m**. at the City of Wheeling WPCD Conference Room is as follows:

- Sign-In Sheet
- Introductions
- Introduction of the Project
- Question and Answers – Note all answers to question are only made final when documented by addendum.

Project Overview: The project includes the procurement of a complete, fully integrated sludge dewatering packaged system for the City of Wheeling Water Pollution Control Division (WPCD), Wheeling, West Virginia. The scope of this Contract is limited solely to furnishing the complete sludge dewatering equipment system. All installation, construction, demolition, structural, mechanical, electrical, piping, and system integration work will be performed under a separate Construction Contract.

Addenda 1 has been issued.

Sealed bids will be received by the City of Wheeling, WV at the office of the City Manager, 1500 Chapline Street, Wheeling, WV 26003 until **2:30 p.m. on May 28, 2026** and will be opened and read immediately thereafter.

Project includes but is not limited to:

verdantas

Gate #1 Sludge Dewatering Improvement - Major Equipment List

Date: 4/14/2026

Note:

Item	Qty	Description	Status	Engineering By	Provided By	Installed By	Cable /Conduit & Terminations By	All Mounting Material, Hardware and Supports By	Notes
1	1	Screw Press Complete Skid including all drums, motors, mixers, conveyor, and instrumentation	New	Vendor	Vendor	Site Contractor	Site Contractor	Site Contractor	Screw Press (On skid) instrumentation wiring to (On skid) Local Control Panel by Vendor
2	1	Screw Press Local Control Panel (On skid)	New	Vendor	Vendor	Vendor	Vendor	Vendor	
3	1	Screw Press Main Control Panel (Off Skid)	New	Vendor	Vendor	Site Contractor	Site Contractor	Site Contractor	Panel shall be installed in 2nd floor electrical room Screw Press (Off Skid) Main Control Panel Power, Control and Network wiring to (On skid Local Control panel) by Site contractor
4	1	Sludge Inlet Flow Meter (In Field)	New	Vendor	Vendor	Site Contractor	Site Contractor	Site Contractor	Wired to Screw Press Main control panel by Site contractor
5	2	Polymer Blending Skid (Each with local control panel)	New	Vendor	Vendor	Site Contractor	Site Contractor	Site Contractor	Wired to Screw Press Main control panel by Site contractor
6	2	Sludge Pump ABB 15HP VFD Local Control Panel	Existing Reuse	N/A	Existing	Existing	Site Contractor	Site Contractor	Existing Sludge Pumps P11 & P12 Local Control Panels shall be reused for new sludge pumps
7	2	Sludge Pump Smart Box (Pressure interlock for VFD)	Existing Replace	N/A	Existing	Site Contractor	Site Contractor	Site Contractor	The Existing Smart Boxes shall be replace with a new pressure monitor system to prevent the pumps from running dry or over pressure
8	2	Sludge Pump Pressure Monitor System (Pressure Interlock for VFD)	New	Vendor	Vendor	Site Contractor	Site Contractor	Site Contractor	New pressure monitor system to prevent the pumps from running dry or over pressure
9	2	Sludge Pumps P11 & P12	New	Vendor	Vendor	Site Contractor	Site Contractor	Site Contractor	Replacement for existing Sludge pumps
10	2	Sludge Pumps P11 & P12 Field Disconnects	New	Site Contractor	Site Contractor	Site Contractor	Site Contractor	Site Contractor	Furnish and install new field disconnects per NEC. Wire feedback for disconnect AUX to VFD as a interlock

REF SPEC: 011100 APPENDIX 1 SLUDGE DEWATERING IMPROVEMENTS MAJOR EQUIPMENT LIST

Discussion

Meeting was recorded and transcribed by AI.

- **Project Overview and Scope Clarification:** Lucas provided an overview of the procurement project for a fully integrated sludge dewatering package system for the City of Wheeling Water Pollution Control Division, clarifying that the scope is limited to equipment supply, with installation and integration to be handled under a separate contract.
    - **Procurement Scope:** Lucas explained that the contract covers only the furnishing of a complete sludge dewatering equipment package, including a multi-barrel, multi-disc screw press, drums, motors, mixers, conveyor, instrumentation, local control panels, sludge inlet flow meter, polymer blending skid, sludge pumps with VFDs, smart box, pressure interlock system, and pressure monitor system. All installation, construction, demolition, and system integration will be managed under a separate construction contract.
    - **Addendum and Bid Date:** Lucas noted that Addendum 1 was issued to schedule the pre-bid meeting and changed the bid submission deadline to 2:30 PM on Thursday, May 28, 2026, with bids to be received at the City of Wheeling Office of the City Manager.
    - **Responsibilities and Equipment List:** Lucas referenced specification 011100 and appendix one, which detail the major equipment list and clarify responsibilities for each component, emphasizing the need for a local control panel and redundancy in critical systems such as the conveyor and screw press.
- **Bid Submission Process and Timeline Extension Discussion:** Casey requested a possible extension to the bid submission timeline due to late receipt of the bid package, and Lucas explained the process for considering such an extension, including the need for city manager approval and a potential double council reading.
    - **Request for Extension:** Casey stated that Andrews received the full bid package only on Monday and asked if the bid submission deadline could be extended to allow for a comprehensive proposal. Lucas responded that any extension would require approval from the city manager.
    - **Action Items for Extension:** Lucas requested that Casey submit the extension request in writing, specifying the desired two-week extension. Lucas and Mike will coordinate with the city manager, and any decision will be communicated to all bidders.
    - **Council Approval Process:** Lucas clarified that the current schedule is set to align with the first council meeting on June 2nd.
- **Technical Requirements and Specification Clarifications:** Lucas, Casey, and Randy discussed technical requirements for the equipment, including evidence for 'approved equal' status, redundancy expectations, polymer system configuration, and clarification on the required screw press configuration.

- **Approved Equal Evidence:** Casey asked what evidence is required to be listed as an approved equal if the proposed equipment deviates from the specifications. Lucas responded that a general arrangement drawing and a structural analysis for weight distribution must be submitted with the bid to demonstrate compliance with site constraints.
- **Redundancy Requirements:** Casey inquired about redundancy for the screw press and polymer system. Lucas confirmed that redundancy is required for both, with the multi-barrel screw press providing redundancy and the polymer system needing to avoid single points of failure.
- **Screw Press Configuration:** Randy requested clarification on the required screw press configuration. Lucas confirmed that the specification calls for a six-barrel, multi-barrel screw press, correcting earlier documentation that referenced a five-barrel with future expansion.
- **Polymer Type and System:** Casey asked about the specified polymer type. Lucas confirmed that the specification calls for a liquid emulsion polymer, with blending requirements and solids concentration ranges detailed in the specs.

- **Site Walkthrough and Facility Layout:** Lucas led a virtual walkthrough of the facility for participants that were online, highlighting key areas relevant to the procurement, including access points, equipment locations, and areas to be replaced or modified.
  - **Access and Equipment Locations:** Lucas showed the methane room, centrifuge room, access doors, and hatches, noting that dimensions are available in the drawings. The walkthrough included the location of the discharge chute, SCADA controls, and existing centrifuges.
  - **Polymer Room and Pump Panels:** The walkthrough covered the polymer room, where the 950-gallon tote and current polymer mixing skids are to be replaced, as well as the pump panels for pumps 11 and 12, which are also being replaced in kind.
  - **Pipe Gallery and Aging Tanks:** Lucas described the pipe gallery beneath the centrifuge room, where polymer and sludge feed pipes run, and noted that all polymer aging tanks in this area will be removed and replaced with a single skid system upstairs.
  - **Site Visit Arrangements:** Lucas invited participants to schedule in-person site visits if needed, requesting advance notice so a Verdantas representative can be present.
- **Questions and Answers on Drawings and Specifications:** Participants raised questions regarding drawings, definitions, and operational parameters, with Lucas providing clarifications and requesting that certain questions be submitted in writing for formal responses.
  - Questions and Answers are listed in the Q&A section in Addendum 02.
- **Future Bid Packages and Installation Scope:** Lucas emphasized that installation, integration, and related work will be addressed in a separate bid package to be released in

three to four weeks, and that the current procurement is focused solely on equipment supply.