To: Interested Vendors

From: Cindy Clack

Date: 6/28/2018

Re: RFB2019-1 – Tanners Bridge WWTF Solids Removal (Project # SS021) – Addendum No 1 (17 Pages including cover)

To date, the following questions have been submitted for RFB2019-1, please see the attached 16 page addendum from Engineered Management, Inc.: 
RE: TANNER’S BRIDGE WWTF SOLIDS REMOVAL
BARROW COUNTY PROJECT No. SS021

FROM: ENGINEERING MANAGEMENT, INC.
303 SWANSON DRIVE
LAWRENCEVILLE, GA 30043
Greg Bennett, P.E.
770-962-1387

TO: PROSPECTIVE BIDDERS

This Addendum forms a part of the Contract Documents and Drawings, and modifies the original bidding documents dated June 6, 2018.

The following items of the Contract Documents are modified as part of this Addendum:

General Questions and Clarifications
The following is a list of questions and answers received during the bid advertisement period as well as at the voluntary pre-bid meeting held on June 21, 2018 at the Barrow County Water and Sewerage Department Building. A copy of the Pre-bid Conference Sign in Sheet and Pre-Bid Conference Agenda are attached.

Contract Document Questions:

- The Advertisement for Bids states the contractor’s utility license number is required for the project. Is this requirement going to be changed?
  Yes. A utility contractor’s license will not be required for this project. The utility contractor’s license requirement has been removed from the Advertisement for Bids.

- Will a bid bond be required if we are also required to sign the Services Agreement as part of the proposal submittal?
  A bid bond will not be required for submittal with the bid package. The requirement to include a Bid Bond has been removed from the Advertisement for Bids and the Instructions to Bidders. The Bid Bond form (Section IV) has been removed as well.

- The Services Agreement specifies a “Not to Exceed” price rather than price based on 350 dry tons. Will the contract be amended to reflect unit cost? If Not to Exceed price is based upon the removal of 350 dry tons of solids, should Contractor stop work if/when this threshold is reached, regardless of the any additional quantities of sludge remaining that may require removal?
  The Services Agreement will not be amended prior to the bid opening and should be executed as written. If the not to exceed price based on 350 dry tons is approached, the
County will then decide whether or not to issue a change order for additional quantities and allocate additional funds to the project at that time. The County expects that as the Contractor removes the sludge and the quantities are confirmed, the Contractor will work with the Engineer to project the overall removal quantity.

- **In Section X - Supplementary General Conditions, 16. Operating Instruction Manuals - Are the 6 copies of operating instructions for overall project, equipment and systems referenced in this section required with the bid or contract submittals for this project?**
  Neither operating instruction manuals (No. 16 on page 4 of Section X) nor maintenance instruction manuals (No. 17 on page 4 of Section X) will be required for this project. Both requirements have been removed from Section X of the Contract Documents.

Technical Specification Questions:

- **Is a power hookup available for use at the plant? If not, will the County allow use of one of the County’s generators?**
  The County will not supply power via any means during the project. The contractor will be responsible for supplying their own power via their own generators during the entire project. A statement requiring power to be supplied by the contractor has been added to Section 13250 of the technical specifications.

- **Are any other methods of dewatered solids disposal, such as disposal at a land application site, allowed for this project?**
  No. Contactor shall have all dewatered solids sent to a landfill that has approved of the solids samples prior to hauling.

- **Will the Owner move the baffle curtain in the aeration pond to allow floating of dredge from one cell to another in aeration pond No. 2?**
  No. The baffle curtain in the aeration pond shall remain in place throughout the project. The contractor shall move the solids removal equipment from one cell of the pond to the other by complete removal from the pond. This requirement has been added to section 13250 of the technical specifications.

- **Section 01025 Article 3.03 references temporary disconnection of the existing aerators for purposes of working around them during dredging procedures and Section 13250 1.01E states the Contractor shall ensure the disconnection, moving and re-connection of the floating aerators in the treatment pond. However, Section 13250 Article 3.02 D and E eludes to simply turning off the aerators for settling purposes, keeping them off throughout the duration of solids removal, but not having them off for more than 48 hours. Please clarify.**
  The assumption is the aerators will need to be moved during dredging operations in order to reach all areas of the pond and navigate the dredge around the pond. The aerators shall be turned off and moved. As discussed at the pre-bid conference, the County’s personnel will move the aerators as needed at the request of the contractor. The requirement that the aerators should not be off for more than 48 hours before being placed back online by County personnel has been removed from Section 13250. Sections 01025 and 13250 have also been revised to communicate that the County will move the aerators and place them back in service.
Where is the nearest landfill that will accept dewatered solids?
The County currently hauls dewatered sludge to the Oak Grove MSW landfill located at 967 Carl Bethlehem Rd., Winder, Georgia 30680. If for any reason the Oak Grove MSW landfill will not accept dewatered solids from this project, the contractor is responsible for finding another landfill that will accept the solids.

Is the written description of the proposed methods to be used for solids removal and dewatering required with bid submittals or upon contract award and prior to commencement of work?
The written description of the methods to be used shall be submitted prior to commencement of work, but after award. The methods to be used are not required to be submitted with the bid package.

During the pre-bid conference it was mentioned that dredging will occur to 12 inches from the bottom in order to preserve the liner. Please confirm the 12 inch requirement as is not stated in the specifications.
Article 3.02A in section 13250 does indeed state “The accumulated solids shall be removed to within 12” of the pond bottom without causing any damage to the HDPE liner.”

Technical Specifications

Section 01025 MEASUREMENT AND PAYMENT
Article 3.03 shall be revised as follows (revisions shown in bold and italics). See attached revised Section 01025.
The price shall include operation of dredging equipment, transfer pumps, dewatering equipment, loading and hauling of the sludge to the landfill and all associated fees required by the landfill. Also included is the temporary disconnection of the existing aerators for the purpose of working around them during dredging procedures.

Article 3.04 shall be revised as follows (revisions shown in bold and italics). See attached revised Section 01025.
Also included is the restoration of the site with regards to re-connecting the existing aerators to the state and location in which they were found, grassing any disturbed areas, and restoring any driveways damaged during the project. It is the intent for this item to include the restoration of the area surrounding the pond to be restored to the condition in which it was found or better.

Section 13250, WASTEWATER POND SOLIDS REMOVAL
Part 2.01A shall be revised as follows (revisions shown in bold and italics). See attached revised Section 13250.
CONTRACTOR shall furnish all necessary equipment, means, methods, and materials needed to mobilize, set up, and remove the solids from the existing aeration pond no. 2 and holding pond including dredges or other solids removal equipment approved by the ENGINEER and OWNER, piping, transfer pumps, dewatering equipment, generators and other materials and equipment necessary to perform first class work as specified herein, and in accordance with all State and Local requirements.

Part 3.01.G has been added to Section 13250 (revisions shown in bold and italics). See attached revised Section 13250.
The CONTRACTOR is responsible for obtaining samples of the existing sludge prior to starting the removal work. Samples shall be analyzed for all parameters required by the landfill where the solids will be disposed, and landfill shall provide approval. The OWNER is responsible for any non-conforming materials not accepted at landfills.

Part 3.01.H has been added to Section 13250 (revisions shown in bold and italics). See attached revised Section 13250.
The OWNER will not supply power via any means during the project. The CONTRACTOR will be responsible for supplying their own power via their own generators during the entire project.

Part 3.01.I has been added to Section 13250 (revisions shown in bold and italics). See attached revised Section 13250.
The baffle in aeration pond no. 2 shall be kept in place during the project. The CONTRACTOR will not be allowed to move the baffle for any reason. CONTRACTOR is required to move the solids removal equipment from one cell of the pond to the other by complete removal from the pond.

Part 3.02.E shall be revised as follows (revisions shown in bold and italics). See attached revised Section 13250.
The aerators shall remain off throughout the duration of the solids removal. The CONTRACTOR shall work continuously to remove the solids as quickly as possible to help ensure the plant effluent remains within the OWNER’s discharge permit. Under no circumstances should the aerators remain off for more than 48 hours.

END OF ADDENDUM NO. 1
# PREBID CONFERENCE SIGN IN SHEET

**June 21, 2018**

**Owner:**
![Barrow County Commissioners Logo]

**Engineer:**
![EMI Engineering Management Logo]

**Project:** Tanner's Bridge WWTF Solids Removal

<table>
<thead>
<tr>
<th>Firm Name</th>
<th>Individual(s)</th>
<th>Phone Number</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio-Nomic Env.</td>
<td>Josu Whitten</td>
<td>704-904-9779</td>
<td><a href="mailto:jwhitten@bio-nomic.com">jwhitten@bio-nomic.com</a></td>
</tr>
<tr>
<td>Frank Peacock</td>
<td>Frank Peacock</td>
<td>770-565-0295</td>
<td><a href="mailto:fpeacock@emial.net">fpeacock@emial.net</a></td>
</tr>
<tr>
<td>Synagro Corp.</td>
<td>Lorie Russin</td>
<td>904-460-5843</td>
<td><a href="mailto:lrussinr@synagro.com">lrussinr@synagro.com</a></td>
</tr>
<tr>
<td>Synagro Corp.</td>
<td>Dave McPheeter</td>
<td>423-827-6917</td>
<td><a href="mailto:dmcpheeter@synagro.com">dmcpheeter@synagro.com</a></td>
</tr>
<tr>
<td>Merrell Bros. Inc.</td>
<td>Tim Stewart</td>
<td>765-438-5810</td>
<td><a href="mailto:tim@merrellbros.com">tim@merrellbros.com</a></td>
</tr>
<tr>
<td>Barrow County</td>
<td>Mark Whiddon</td>
<td>678-925-5980</td>
<td><a href="mailto:mwhiddon@barrowga.org">mwhiddon@barrowga.org</a></td>
</tr>
<tr>
<td>Michael Wells</td>
<td>Godwin</td>
<td>770-287-0392</td>
<td><a href="mailto:richard.wellbylaude@emial.net">richard.wellbylaude@emial.net</a></td>
</tr>
<tr>
<td>Greg Bennett</td>
<td>EMI</td>
<td>706-255-5441</td>
<td><a href="mailto:gbennett@emial.com">gbennett@emial.com</a></td>
</tr>
<tr>
<td>Barrow County</td>
<td>Sam Mark</td>
<td>770-307-3014</td>
<td><a href="mailto:smark@barrowga.org">smark@barrowga.org</a></td>
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Z:\PROJECTS\17\17040-Barrow-Tanner's Bridge WTF Solids Removal\Bid Phase\DPI-Correspondence\PREBID CONFERENCE SIGN IN SHEET 05-20-18.doc

1 of 2
PREBID CONFERENCE AGENDA  
June 21, 2018

Owner: Barrow County Board of Commissioners  
Engineer: Engineering Management, Inc.

Project: Tanner's Bridge WWTF Solids Removal

1. Project Personnel:
   a. Owner: Barrow County Board of Commissioners
   b. Owner’s Representative: Mark Whiddon, Wastewater Manager
   d. Engineering Representative: Greg Bennett, P.E.
   e. Engineer’s Telephone: 770.962.1387

2. Project Scope and Review:
   a. Major Bid Items: mobilization and setup of solids removal and dewatering equipment; removal, dewatering and disposal of ±350 Dry Tons of solids; demobilization, cleanup, and site restoration
   b. Ponds to be cleaned: Aeration Pond No. 2, Holding Pond as shown on site drawings

3. Confirmation of bid location, date, and time:
   a. Bid Location: Barrow County Board of Commissioners, Clerks Office, 30 North Broad Street, Winder, Georgia 30680
   b. Bid Date: July 5, 2018
   c. Bid Due Time: 12:00 p.m.
   d. Bid Opening Time: 2:00 p.m.

4. Completion Dates (approximate):
   a. Notice of Award: If awarded will be within 60 days of bid
   b. Notice to Proceed (NTP): To be determined
   c. Construction Period Ends: 90 days from Owner’s NTP

5. Special Concerns:
   a. Contractor shall submit a written description of the methods to be used for solids removal and dewatering.

   b. Contractor to maintain working hours as allowed by the Owner.

   c. Contractor shall take samples of the sludge to send to the landfill that will be used and receive approval from the landfill prior to beginning removal operations.
d. The existing plant components shall remain in operation while the project is under construction. Contractor shall coordinate with owner prior taking any components out of service, including aerators, etc.

e. The baffle in aeration pond no. 2 shall be kept in place. Contractor will be required to move the solids removal equipment from one cell to the other by complete removal from the pond.

f. Water from the ponds shall be used to operate the dewatering equipment. Coordinate the suction location with Owner.

g. Engineer will be on site twice a week minimum to take samples of the dewatered solids to analyze for moisture content.

h. Dewatering discharge water shall be discharged in the holding pond. The area of discharge shall be dredged last to account for any accumulated solids from discharge.

i. Contractor shall repair all damaged pipes, structures, electrical, irrigation lines, culverts, sewer lines, etc. without change order.

j. Contractor shall maintain continuous cleanup of the site at all times and restore the site to preconstruction conditions or better.

k. A topographic survey of ponds shall be completed using a sludge judge by the contractor after dredging is complete but prior to demobilization to assure all solids have been removed. The Engineer will be on site during the survey.

6. Project Addenda:
   a. A Pre-Bid agenda, with discussion items will be supplied to all bidders as part of an Addendum along with any other revised items.

7. Equipment Setup/Storage Area:
   a. Site limitations: Existing WWTF site.
   b. Dewatering setup: access road between aeration pond no.2 and holding pond. Exact location to be coordinated with Owner.
   c. Storage: Storage of any other items to be coordinated with Owner. Contractor responsible for the security of the storage area.
   d. Transport route on site: Contractor shall coordinate most efficient hauling route with Owner to minimize disruption of Owner’s access to the WWTF.

8. Protection of adjacent areas, (trees) and facilities:
   a. Protect all existing facilities, including structures, slabs, electrical, fencing, pipelines, etc. at all times.

9. Bid Coordination:
   a. Questions regarding bidding shall be directed to the County at the email address provided in the bid advertisement.
10. Contractors Questions:

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11. Addenda / Items to be clarified

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12. Site Visit
SECTION 01025
MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 SCOPE OF WORK
A. This Section describes the methods by which measurement will be made of the quantities for which payment will be made for the PROJECT.
B. The project is to be bid as one contract:

1.02 MEASUREMENT OF WORK
A. WORK shall be measured by the ENGINEER or his representative, with assistance from the CONTRACTOR prior to preparation of a payment request by the CONTRACTOR.
B. Unit quantities that are measured in place shall be measured monthly. The CONTRACTOR shall give the ENGINEER a minimum of two days notice for making all required measurements.
C. Materials that must be measured as delivered shall be measured at the time of delivery by the ENGINEER or his representative; the CONTRACTOR shall provide sufficient advance notice so that such measurements can be made.
D. WORK completed shall be measured for completion against the schedule of values provided by the CONTRACTOR in accordance with the General Conditions. Related work necessary for a complete and operational job, such as relocation of mail boxes, relocation of utilities, field engineering, clearing and grubbing, traffic control, etc., not specifically identified as a pay item shall be included in the unit price bid. No additional payments will be made for such activities.

1.03 PROGRESS PAYMENTS
A. Progress payments shall be based on the quantity of units removed.
B. All items of WORK not specifically listed in the Bid Schedule shall be considered incidental to the services related to the project, and the cost of all such work and material shall be included in the prices bid for various items listed.
C. All items listed for measurement and payment shall include all machinery, plant, materials and labor, etc., to successfully and satisfactorily complete WORK specified.
D. Payment: The CONTRACTOR will receive payment only for the items listed in the Bid Schedule of his contract, and no separate payments will be made for the work under any section of the CONTRACT DOCUMENTS except as provided for in the Bid Form. Where measurements are required to be made by the ENGINEER, for the payment of a pay item, the failure of the CONTRACTOR to give the adequate notification or failure of
the CONTRACTOR to give the ENGINEER assistance for the measurement shall result in the forfeiture of payment for the work or item which was not measured.

E. WORK to be paid for as a "Lump Sum" shall be measured for completion against the "Schedule of Values" provided by the CONTRACTOR. The "Schedule of Values" shall be submitted at the preconstruction conference and shall include quantities and prices of items aggregating the total "Lump Sum" and will subdivide the work into component parts in sufficient detail to serve as the basis for progress payments during the contract period.

PART 2 PRODUCTS

2.01 STORED MATERIALS

Partial payment shall be made for approved materials stored at the project site, provided invoices for said materials are furnished in accordance with payment request submittal.

PART 3 EXECUTION

3.01 SITE PREPARATION (Section 02100)

No separate measurement or payment will be made for site preparation of dewatering and sludge removal equipment, etc. Payment for all work shall be included in the unit prices bid per the various bid items as provided for in the contract bid Schedule.

3.02 MOBILIZATION AND SET-UP

Payment for this item shall be lump sum and shall include all labor, equipment and materials required to mobilize and set-up or install any and all necessary equipment to the site for the purpose of the project.

This item shall include the delivery and set up of dredging equipment, mechanical dewatering equipment, hauling equipment, tools and materials associated with the operations, piping, temporary water and power establishment and connections, etc. for a complete set-up ready for solids removal, dewatering and hauling operations.

3.03 SOLIDS REMOVAL, DEWATERING AND DISPOSAL

Quantities for this item will be measured in dry tons of solids removed. Payment will be based on a per dry ton removed basis. The wet weight of each load delivered to the selected approved landfill equipped to accept municipal sludge and the moisture of the sludge being delivered will be used to calculate the dry weight of each load. Scale tickets and landfill manifest sheets shall be submitted to the ENGINEER to be used to calculate dry tons.
The price shall include operation of dredging equipment, transfer pumps, dewatering equipment, loading and hauling of the sludge to the landfill and all associated fees required by the landfill. Also included is the temporary disconnection of the existing aerators for the purpose of working around them during dredging procedures.

3.04 DE-MOBILIZATION, CLEAN-UP AND SITE RESTORATION

Payment for this item shall be lump sum and shall include all labor, equipment and materials required to disassemble as necessary, all equipment for the purpose of removing all equipment from the site and clean-up of any trash or materials used.

Also included is the restoration of the site with regards to reconnecting the existing aerators to the state and location in which they were found, grassing any disturbed areas, and restoring any driveways damaged during the project. It is the intent for this item to include the restoration of the area surrounding the pond to be restored to the condition in which it was found or better.

END OF SECTION
SECTION 13250

AERATION POND SOLIDS REMOVAL

PART 1  GENERAL

1.01  SCOPE OF WORK

A.  Project location: The Barrow County Tanner’s Bridge WWTF is located approximately 50 miles west northwest of Atlanta, Georgia via I-85. Take exit 106 off I-85 north onto SR 316 east. Travel 20 miles on SR 316 east to SR 81 south. Turn right onto SR 81 south and travel 1.9 miles to Tanner’s Bridge Road. Turn left onto Tanner’s Bridge Road and travel 2.2 miles to Briscoe Mill Road. Turn left onto Briscoe Mill Road. The entrance to the Tanner’s Bridge WWTF is approximately 0.3 miles on the left. Prospective bidders may contact Mark Whidden, Wastewater Manager, at (770) 307-3014 to arrange for a site visit.

B.  The Tanner’s Bridge WWTF consists of one complete mix aeration pond (aeration pond no. 1), one partial mix two cell aeration pond (aeration pond no. 2) and one holding pond. Solids removal operations are to occur at aeration pond no. 2 and the holding pond as shown on Exhibit B. Aeration pond no.2 has a water surface area of approximately 1.06 acres and the holding pond as a water surface area of approximately 2.30 acres. Both ponds have high density polyethylene (HDPE) liners. A baffle curtain separates the two cells in aeration pond no.2. One cell contains three aerators and one contains two aerators. See Exhibit B for a layout of the existing pond.

C.  A topographic survey of the pond bottoms was conducted using a “Sludge Judge”. See the table below for detailed pond information. See Exhibit C for calculations used to determine the estimated volume of solids in the pond.

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<th>Aeration Pond #2</th>
<th>Holding Pond</th>
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<tr>
<td>Area (acres)</td>
<td>1.06</td>
<td>2.30</td>
</tr>
<tr>
<td>Number of sludge measurements</td>
<td>27</td>
<td>18</td>
</tr>
<tr>
<td>Depth of solids range (feet)</td>
<td>2.0 - 7.0</td>
<td>0.5 - 4.0</td>
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<tr>
<td>Storage Capacity (C.Y.)</td>
<td>10,837</td>
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<td>Sludge Volume (C.Y.)</td>
<td>5,012</td>
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<tr>
<td>Percent of pond volume lost to sludge</td>
<td>46%</td>
<td>14%</td>
</tr>
<tr>
<td>Estimated Dry Ton Removal</td>
<td>207 ton</td>
<td>126 ton</td>
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D.  WORK covered by this section consists of furnishing all material and equipment and performing all labor necessary for the removal of accumulated solids from the existing aeration pond no. 2 and the holding pond as shown on Exhibit B.

E.  The CONTRACTOR shall provide and utilize floating dredge equipment, transfer pumps, portable sludge dewatering equipment, and trucking to haul the dewatered material to a landfill approved to receive municipal sludge. The contractor shall ensure the disconnection, moving and re-connection of floating aerators in the treatment pond.

F.  As solids are removed, they shall be delivered to the belt press. After the dewatering process, solids shall be deposited in a contained area for loading onto trucks for hauling. Solids shall be hauled to an approved landfill, equipped for accepting municipal sludge. Water removed
from the sludge shall be returned to the pond. Under no circumstances shall the sludge or water be allowed to enter nearby streams, ditches or any storm water conveyance structure that doesn’t lead to the existing pond.

1.02 QUALITY ASSURANCE

A. Company performing the solids removal shall be a company specializing in the removal of solids from pond systems by dredge or other approved mechanical equipment with a minimum of ten (10) years of experience.

PART 2 PRODUCTS

2.01 MATERIALS AND EQUIPMENT

A. CONTRACTOR shall furnish all necessary equipment, means, methods, and materials needed to mobilize, set up, and remove the solids from the existing aeration pond no. 2 and holding pond including dredges or other solids removal equipment approved by the ENGINEER and OWNER, piping, transfer pumps, dewatering equipment, generators and other materials and equipment necessary to perform first class work as specified herein, and in accordance with all State and Local requirements.

PART 3 EXECUTION

3.01 GENERAL

A. The removal of solids from the aeration pond shall not begin until the containment area and dewatering equipment has been set-up and in proper working order. All sequences for removal, dewatering, loading and hauling shall have been planned and are ready for execution.

B. The CONTRACTOR shall establish the means and methods of carrying out the specified work.

C. The CONTRACTOR shall submit a written description of the proposed method of solids removal to the ENGINEER for review and approval prior to initiating removal.

D. The CONTRACTOR shall schedule a meeting with the ENGINEER, OWNER and any Sub-CONTRACTOR involved with the solids removal at least two (2) days prior to initiating the solids removal. The method of removal shall be reviewed in detail at the meeting to ensure all parties are aware of the process.

E. Existing Aeration Pond No. 2

1. The existing aeration pond no. 2 water surface area covers approximately 1.06 acres with 3:1 side slopes, and is approximately 10’ deep. It consists of two cells separated by a baffle curtain. The southwestern cell contains three floating aerators and the northeastern cell contains two.

2. The existing aeration pond no. 2 is lined with an HDPE liner.
F. Existing Holding Pond

1. The existing holding pond water surface area covers approximately 2.3 acres with 3:1 side slopes, and is approximately 12’ deep. It consists of a single cell with no aerators. The irrigation pump intakes are located on the eastern corner of the pond.

2. The existing holding pond is lined with an HDPE liner.

G. *The CONTRACTOR is responsible for obtaining samples of the existing sludge prior to starting the removal work. Samples shall be analyzed for all parameters required by the landfill where the solids will be disposed, and landfill shall provide approval. The OWNER is responsible for any non-conforming materials not accepted at landfills.*

H. *The OWNER will not supply power via any means during the project. The CONTRACTOR will be responsible for supplying their own power via their own generators during the entire project.*

I. *The baffle in aeration pond no. 2 shall be kept in place during the project. The CONTRACTOR will not be allowed to move the baffle for any reason. CONTRACTOR is required to move the solids removal equipment from one cell of the pond to the other by complete removal from the pond.*

3.02 SOLIDS REMOVAL

A. The accumulated solids shall be removed to within 12” of the pond bottom without causing any damage to the HDPE liner.

B. The WWTF shall remain on line throughout the solids removal process. Wastewater will continue to flow into the aeration pond and holding pond during the removal process.

C. It is imperative that the solids removal process is executed as quickly and thoroughly as possible.

D. One (1) hour prior to initiating solids removal the CONTRACTOR shall notify the Plant Operator to turn off the aerators in the aeration pond no. 2. Since the main intent is to remove accumulated solids, the CONTRACTOR shall wait approximately 1 hour for solids to settle prior to beginning removal. *The CONTRACTOR shall coordinate moving the aerators with the OWNER. OWNER has agreed to move the aerators as needed for the project.*

E. The aerators shall remain off throughout the duration of the solids removal. The CONTRACTOR shall work continuously to remove the solids as quickly as possible to help ensure the plant effluent remains within the OWNER’s discharge permit. *Under no circumstances should the aerators remain off for more than 48 hours.*

3.03 DEWATERING SOLIDS

A. The CONTRACTOR shall utilize a portable mechanical dewatering device to dewater the solids removed from the aeration pond. Water from the ponds shall be used for dewatering. Contractor is responsible for connecting to, piping, pumping to the dewatering device.

B. The CONTRACTOR shall ensure that all solids are contained within an established area to be
used for placing the dewatered solids and loading them onto trucks for hauling with no spills occurring throughout the solids removal or hauling process.

C. Dewatering of the solids shall be conducted concurrently with removal from the pond. Solids shall be sent to the mechanical dewatering device from the floating dredge via transfer pumps. The mechanical dewatering equipment shall remove the excess water from the sludge to achieve a more solid-like or cake-like material. It shall be placed in the nearby established containment area for loading onto trucks for hauling.

D. Moisture tests shall be conducted by the ENGINEER to determine the percent (%) dry solids of the material after dewatering through the belt press in order to calculate the “dry tons” being hauled to the landfill.

E. The CONTRACTOR shall forward copies of all landfill manifest sheets and scale tickets to the ENGINEER. These tickets, along with the results of the moisture tests, will be used to determine the “dry tons” removed; which, is the basis of payment. **Payment will not be made on loads without a weight ticket.**

END OF SECTION