REQUEST FOR BIDS

Project Name: Purrysburg Alum Pond Annual Excavation
Project Location: BJWSA Purrysburg Water Treatment Plant in Jasper County, SC
Date of Request: January 31, 2020

The Beaufort Jasper Water and Sewer Authority hereby requests your consideration in submitting a bid to perform the following scope of work in accordance with the conditions set forth below. This bid form should be filled out in its entirety to include tabulated cost, contractor assumptions and exceptions, and signed by an officer (or signatory power) of the company.

Questions: All questions regarding this project should be sent in writing to the attention of: Tammy Holman, via e-mail: tammy.holman@bjwsa.org. The deadline for questions is February 7, 2020.

Sealed bids are due to BJWSA on February 17, 2020 by 2:00 pm

Bids must be delivered to:
BJWSA
Attn: Tammy Holman, CPPB
6 Snake Rd
Okatie, SC 29909
Ref: Purrysburg Alum Pond Annual Excavation

Introduction:
The Beaufort-Jasper Water & Sewer Authority (BJWSA) is pursuing professional services to remove, dewater, and haul approximately 450 dry tons of material from the Purrysburg Water Treatment Plant alum ponds in Jasper County, SC in accordance with the attached specifications, terms and conditions to be completed and invoiced by June 30, 2020 with no exceptions.

Project Description:
BJWSA operates the Purrysburg Water Treatment Plant on Purrysburg Road in Jasper County, SC. Filter backwash and sedimentation basin sludge from the treatment process is directed to a pond where solids settle, and the supernatant overflows in the BJWSA canal (Figure 3). The accumulated solids need to be removed, dewatered, and hauled to Waste Management’s Hickory Hill Landfill, also in Jasper County, about 21 miles away (Figure 2).

It shall be understood that this Request for Bid is a request for information only, and is not to be construed as an instruction or agreement to execute the work. If, after review of your bid, that BJWSA elects to proceed with this bid, a Master Service Agreement and Purchase Order will be issued.
A record drawing of the alum pond is attached. The pond is 14 feet deep with 3:1 slope slides. The pond was last dredged in 2015. The pond will remain in service during dredging.

To facilitate dredging and dewatering, improvements are currently under construction and scheduled to be completed in January 2020. These improvements include electrical service (3 Phase, 240V), water supply, a dredge header pipe along the pond’s long edge, a paved surface for equipment and containers, fencing, drainage, pump station, and an access road. GMC Construction drawings are included for reference. Figure 1 shows construction progress. BJWSA anticipates this to be the first annual alum pond excavation project, which will alternate between Purrysburg and Chelsea Water Treatment Plants.

The contractor to furnish all materials including chemicals, equipment, and labor necessary to dredge, dewater, and haul alum sludge from the Purrysburg WTP. The owner will supply electrical power, permits, manifest for landfill, and landfill disposal cost.

Final quantity of sludge may be adjusted depending on available budget using unit cost from bid form.

**Project Scope and Summary of Work:**

1. Dredge/removal of residuals by any acceptable proven means. The pond liner and distribution piping may not be disturbed during dredging or pumping operation.
2. Thickening or dewatering by any acceptable proven means.
3. Haul to WM Hickory Hill landfill at contractor’s option, i.e., trucks, roll off containers. Vehicles must meet legal weight and length limits. Hauling limited to Hickory Hill’s operating hours.
4. Clean up and restore dewatering area to original condition.
5. Do not interfere with plant operations.

**Safety and Procedures:**

Safety is of utmost importance to BJWSA and all safety measures shall be executed to the satisfaction of BJWSA.

**Payment / Measurement:**

The price will be paid on a dry ton basis using daily percent solids or moisture measurement and scale weight at the landfill. Contractor shall log percent solids or moisture measurement for each day or batch and submit log with the invoice.

**Qualifications:**

Contractor must have five (5) year of experience in alum pond residual removal and dewatering alum sludge. Contractor must have five (5) years of experience in operation of dredge and dewatering equipment. Contractor must have experience completing projects on time. Contractor shall supply project list and references with bid.

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BID FORM

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>ITEM DESCRIPTION</th>
<th>UNIT PRICE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LS</td>
<td>Mobilization</td>
<td></td>
<td></td>
</tr>
<tr>
<td>450</td>
<td>ODT</td>
<td>Dredge, dewater, haul (oven dry ton)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>LS</td>
<td>Demobilization</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

 BJWSA reserves the right to accept/reject any or all bids as well as adjust line item totals with the low bidder to remain within project budget restrictions.

Site Visits and Samples:

Interested contractors may schedule a site visit and collect a sample from the alum ponds.

Figure 1 - Purrysburg dewatering area construction progress, January 3, 2020.

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This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

A Red X denotes the asset is abandoned.

This map was automatically generated using Geocortex Essentials.

© Latitude Geographics Group Ltd.

NAD_1983_StatePlane_South_Carolina_FIPS_3100_FeetIntl
This map is not to be used for navigation.

Legend
Streets

Notes
1:4,000
**GENERAL NOTES:**

1. **AREA INSIDE FENCE SHALL BE COVERED WITH STONE PAVEMENT.** SEE DETAIL 8 ON SHEET C-902.

2. CONCRETE SHALL CONFORM TO THE BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE (ACI 318).

3. CONCRETE SHALL HAVE A COMpressive STRENGTH AT 28 DAYS OF $f'c = 4000$ PSI (MIN).

4. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60.

5. DEWATERING PAD SLAB SHALL BE REINFORCED WITH #6 REBAR @ 10" O.C. 3" CLEAR BOTTOM. PRE-FABRICATED BUILD SLAB SHALL BE REINFORCED WITH 6x6-8/8 WELDED WIRE FABRIC LOCATED AT 1 3 SLAB DEPTH FROM TOP.


7. **MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE:**
   - 3 IN. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
   - 2 IN. EXPOSED TO EARTH OR WEATHER

8. PREPARE STRUCTURE SUBGRADE PER THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT.

**EQUIPMENT LEGEND:**

- 10" BLIND FLANGE
- 4" BLIND FLANGE
- 8" SCH 40 STEEL GUARDPOST, PAINTED
- 6" CONE PAD
- 6" HEAVY DUTY CAST-IRON FRAME AND GRATE, NEENAH-R490 OR EQUAL
- 4" RPZ BACKFLOW PREVENTER
- HERSEY MVR650 TURBINE METER W/ VISUAL REGISTER

**PREPARED BY:**

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PRE-ENGINEERED METAL BUILDING W/ WALL & ROOF INSULATION, METAL SIDING & STANDING SEAM METAL ROOF

6" CONC ENCASEMENT

10" SL

10" DR17 HDPE HEADER DREDGE

10" MJ 90° BEND (RESTRAINED)

10" MJ X MJ ADAPTER

10" BLIND FLANGE

10" FL X FL 90° BEND

10" MJ X 90° BEND

GUTTER & SINGLE 4X4 ALUMINUM DOWNSPOUT

CONC FILLED 4" @ 24" O.C. (TYP.)

6" WWM - TYP

6" WWM - TYP

PVC SLAB

" PRO-FORM SPAN" 3" SLAB

CRUSHED STONE FILL

" COMPACTED CRUSHED STONE FILL

SLOPE SEE CIVIL

#6 @ 10" O.C. EA. WAY (TYP.)

1-#6 CONT. (TYP.)

7"

4" (MIN.)

COMPACTED CRUSHED STONE

4" (MIN.)

COMPACTED CRUSHED STONE

#4 "U" BARS @ 24" O.C. (TYP.)

1-#6 CONT. (TYP.)
KEY PLAN
ISSUE DATE
Suite 200
T 864.527.0460
GMC NETWORK.COM
Greenville, SC 29601
101 East Washington Street

DESIGNER:
DRAWN BY:
ENGINEER:
PROJECT MANAGER:

30% SUBMITTAL
75% SUBMITTAL
90% SUBMITTAL
06.21.19
FINAL
05.20.19

PURRYSBURG WTP
EXPANSION TO 30 MGD - PHASE 1
BEAUFORT-JASPER WATER & SEWER AUTHORITY
GMC Project #CGRE180057
BJWSA Project CIP #1366

E122.dwg
DRAWING FILE: V:\+Projects\2018 Projects\+GRE\VGRE180003 - Purrysburg WTP\+Drawings\+Electrical\E-122.dwg
PLOTTED: June 20, 2019 - 11:26am

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MATCH LINE - SEE DRAWING NO E-121

KEYED NOTES:
1. 400A, 480V, 3ɸ PANEL 'A'.
2. 400A, 480V, 3ɸ, N3R, NF DISCONNECT.
3. 10 kVA, 480V TO 120/240V 1ɸ TRANSFORMER.
4. 90A, 120/240V, 1ɸ PANEL 'B'.
5. NEW 480V, 400A 3ɸ, N3R ENCLOSED CIRCUIT BREAKER.

SCALE:
0’
5’-0”
10’-0”
20’-0”
1” = 10’-0”

CONTRACT DREDGING AND DEWATERING ELECTRICAL PLAN