

SECTION 01010

PROJECT SUMMARY

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Summary of the Work
- B. Project Time
- C. General Requirements

1.02 SUMMARY OF THE WORK

- A. The project consists of the following components:
 - 1. Installation of ten 10HP aerators in Lagoon 1 and eight 20 HP aerators in Lagoon 2 and all related electrical and site work at the Adamsville WWTP.
 - 3. Furnishing Wastewater Treatment Plant Lagoon Biosolids Removal and Disposal Service, including license, disposal site selection and permitting, labor, equipment, parts, materials, testing or other incidental work for one time removal of accumulated wastewater biosolids from an existing wastewater treatment lagoon (#1) at the City of Adamsville Wastewater Treatment Plant. The services shall include removal and disposal of biosolids to a permitted disposal site according to the Tennessee Department of Environment and Conservation.
 - 4. Install and maintain temporary bypass pumping of sewage around Lagoon 1 from influent lines to Lagoon 2. Bypass pumping will be required during sludge removal operations.
 - 5. Develop and maintain a work zone construction area in the designated space provided by the City. Contractor shall be responsible for protection of all utilities within the work zone and maintaining positive site drainage.
- B. Provide all labor, materials, equipment, tools, services and incidentals necessary to complete all work required and specified herein.
- C. Furnish and install all materials, equipment and incidentals, which are reasonably and properly inferable and necessary for the proper completion of the work, whether specifically indicated herein or not.
- D. The existing Lagoon #1 has approximately 12 acres in surface area and has an approximate 4-foot sidewall depth. A general average of approximately 10-inches of sludge is to be removed across the entire body of the lagoon. The Contractor shall leave approximately 2-inches of sludge across the entire lagoon.

1.03 PROJECT TIME

- A. Substantial completion shall be 210 calendar days after the Notice to Proceed and final completion shall be set at 240 calendar days after the date the Contract Time commences.

1.04 PROJECT REQUIREMENTS

- A. The City of Adamsville shall be notified at least 48 hours prior to starting the project.
- B. The Contractor shall furnish all labor, materials, equipment and services necessary for, and reasonably incidental to, preventing pollution of land, air and water for controlling run-off and erosion of soil.
- C. The Contractor shall obtain all permits or agreements required for any part of the work. The Contractor shall pay all fees for permits, easements, agreements, etc. that he obtains and all costs should be included in the Bid Price.
- D. Equipment will be allowed in the lagoon as needed to complete the project in accordance with the specifications and drawings.
- E. The Contractor shall provide a complete and detailed description of the proposed work schedule and methodology to the Owner at the pre-construction conference, including but not limited to the following:
 - 1. Biosolids removal method
 - 2. Biosolids dewatering method (if necessary)
 - 3. Biosolids transportation methods off site
 - 4. Description of watertight containers used in hauling operations
 - 5. Disposal method, including location(s)
 - 6. Haul routes
 - 7. Accidental spill containment and clean up plan
 - 8. Operations area and dewatering area location plan
 - 9. Equipment requirements for sludge removal and disposal
 - 10. Template of the document that will accompany each truckload from the WWTP to final disposal/ reuse site. At a minimum, the form shall provide the following information.
 - i. Date and time of pickup and delivery
 - ii. Volume of tonnage of residuals
 - iii. Signature of Recipient
 - iv. Truck Identification
 - v. Driver's Name
 - 11. If the Contractor plans to dispose of residuals in a municipal or private landfill, the Contractor must submit documentation that the landfill meets the requirements of the applicable state regulations.

- F. Under normal conditions supernatant from the dewatering process can be returned to the lagoon for treatment. The Contractor shall contain all wastewater without spillage or runoff.
- G. The Contractor shall appropriately prepare the surface to accommodate their worksite as approved by the Owner.
- H. No digging or trenching will be permitted without the consent of the Owner.
- I. The Contractor shall be responsible for the removal of biosolids and shall be licensed for sludge hauling, land application, composting, or solid waste disposal according to the methods utilized.
- J. Any rock found to be present in the lagoon shall be left undisturbed as much as practicable. The Owner is not responsible for damage caused to the Contractor's equipment due to rock or other debris.
- K. The Contractor shall dispose of the biosolids in a permitted WWTP, permitted land application site, permitted compost facility or permitted landfill according to the applicable permit conditions and shall be responsible for all permit modifications, permit fees, disposal fees or tipping fees as required by the selected disposal method.
- L. The Contractor shall hold the appropriate environmental liability insurance for the method of transport and disposal. The Contractor shall provide evidence of the license and letters of acceptance of the wastes from the permitted facilities prior to removal of the wastes and the chain of custody documentation for final disposal. The Contractor shall be responsible for all environmental permitting for the project.
- M. Access and work space at the site is limited. The Contractor shall schedule and coordinate work as needed to minimize interference with the Owner's operation of the WWTP and to allow the Owner to maintain continuous operation of the WWTP.
- N. Smoking and Fire Precautions: No smoking, fire, or use of any fire or explosion producing tools or equipment shall be permitted on the premises or at any locations where such may endanger said premises or the current operations thereon.
- O. Manufacturers Qualifications: The manufacturers of all materials and equipment used must be reputable and regularly engaged in the manufacture of the particular material or equipment for the use and service to which it will be subjected.
- P. Contractor Shall Pay for All Laboratory Inspection Service: All materials and equipment used in the construction of the project shall be subject to adequate inspection and testing in accordance with accepted standards. The laboratory or inspection agency shall be selected by the Contractor and approved by the

Engineer and/or Owner. Contractor to pay for all laboratory inspection services as a part of the Contract. Submit all material test reports to the Owner in triplicate.

- Q. Compliance With State and Local Laws: Comply with all applicable requirements of state and local laws and ordinances to the extent that such requirements do not conflict with federal laws or regulations.
- R. Protection of Public and Private Property: Take special care in working areas to protect public and private property. The contractor shall replace or repair at his own expense any damaged pipes, power and communication lines, or other public utilities, roads, curbs, gutters, sidewalks, drain pipes, ponds or pond structures, sewer drainage ditches, all properties and fixtures (both permanent and temporary) fences, and all plantings, including grass or sod on the site of the work. Leave the site in original or better condition after all cleanup work has been done.

Reasonable care shall be taken during construction to avoid damage to vegetation. Trees which receive damage to branches shall be trimmed of those branches to improve the appearance of the tree. Tree trunks receiving damage from equipment shall be treated with a tree dressing.

- S. Markers: Preserve all USGS, TVA, and State property markers and private markers. Do not remove or disturb any such markers without prior approval from the Owner. Any removal and replacement of such markers shall be at the expense of the Contractor.
- T. Non-discrimination: The Contractor agrees to hire qualified persons without regard to race, creed, color, sex, or national origin for the performance of the work specified in this contract.
- U. Pavement Repair and/or Replacement: Whenever pipe trenches are cut across or along existing pavement or shoulders, backfill same and restore traffic over the cuts as quickly as possible by constructing a temporary surface with twelve (12) inches of Class A, grade D crushed stone. Add material and otherwise maintain such surface until the permanent pavement is restored by the Contractor or until the entire project is accepted.
- V. Approved Chemicals: All chemicals used during project construction or furnished for project operation, whether herbicide, pesticide, disinfectant, polymer, reactant, or of other classification, must show approval of either EPA or USDA. The use of all such chemicals and the disposal of residues shall be in strict conformance with instructions.
- W. Catalogue Data for Owners: Provide duplicate, complete, bound sets of a compilation of catalog data of each manufactured item of mechanical and electrical equipment used in the work, and present this compilation to the Engineer for transmittal to the Owner before payment of more than ninety percent

(90%) is made. Include descriptive data and printed installation, operating, and maintenance instruction (including a parts list for each item of equipment) Provide a complete double index as follows:

1. Listing the products alphabetically by name.
2. Listing alphabetically the names of manufacturers whose products have been incorporated in the work, together with their addresses and the names and addresses of the local sales representative.

- X. Operation and Maintenance Instruction to Owner: Where the specifications for specific equipment require that a factory service representative provide operation and maintenance instruction to the Owner for that equipment, this service is to be performed by prior arrangement with the Owner after and in addition to the manufacturer's instructions to the Contractor for installation and start-up. The individual performing the instruction to the Owner shall be trained and/or certified by the manufacturer as its authorized operation, maintenance, and service specialist. If the said specialist is not a regular full-time employee of the manufacturer, the specialist's qualifications shall be submitted to the Owner for review and approval prior to scheduling the site visit for instructions to the Owner.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

Not Used

END OF SECTION