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95-02	4,23,10	10428

305 South Main Street
Monroe, NC 28112
704-283-9765
704-283-9755 fax

January 25, 2010

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SOLID WASTE SECTION
ASHEVILLE REGIONAL OFFICE

Mr. Rocky Nelson
County Manager
Watauga County
842 West King Street
Boone, NC 28607

Subject: Proposal to construct a 6-inch HPDE Landfill Gas Transmission Pipeline at the Watauga County Landfill-Boone, NC

Dear Rocky:

As per your request, Carlson Environmental Consultants, PC (CEC) has prepared this proposal to install a below grade landfill gas (LFG) transmission pipeline from the blower/flare station (BFS) location to the maintenance facility. A condensate trap (CT) will be required due to the topography of the proposed route. CEC has also included pricing for a field fabricated 12-inch CT and secondary isolation vessel to facilitate condensate removal. Our Work Scope, Assumptions and Conditions, and Project Fee sections are presented below.

WORK SCOPE

CEC will provide the equipment, materials, and services that are required to install the LFG transmission line and condensate trap #3 (CT-3). The following materials are included:

- 1205 feet of 6-inch HDPE SDR17 pipe
- 10 feet of 12-inch HDPE SDR17 pipe and required HDPE fittings for CT-3
- 10 feet of 6-inch HDPE SDR17 pipe and required HDPE fittings for isolation tank
- 60 feet of 10-inch Corrugated Metal Pipe for two road crossings

The 6-inch HDPE transmission line will be installed with a minimum cover of 12-inches along the gravel road passing the old maintenance facility and the animal shelter. Excavated material will be used to backfill and grade the pipe using backhoe compaction. Sand bedding will be used as-needed in the event that rocks or other unsuitable material make up the majority of the backfill material. The pipeline will be terminated near the proposed electricity generation equipment location with a 4-inch flange connection and blind flange or connected to the engine system inlet.

During construction activities, survey information will be collected with a mapping grade Global Positioning System (GPS) unit at various locations such as tees, road crossings, turns, straight runs, and CT-3. This information will be used to provide State Plane coordinates for inclusion into the Watauga County Landfill As-built drawing. The horizontal accuracy of the survey information will be 2.5 feet or better.

ASSUMPTIONS AND CONDITIONS

The Work Scope and Compensation are based on the following assumptions and conditions:

1. Unrestricted site access for personnel, equipment and materials to enable completion of the work.
2. Work will be performed in OSHA Level D protection and in accordance with the SWANA Landfill Gas Division Health and Safety Task Force, "A Compilation of Landfill Gas Laboratory and Field Practices and Procedures", dated March, 1992. Additional health and safety requirements can be provided with an adjustment in our price.
3. This proposal does not include provisions for the disposal of excavated waste. It is CEC's understanding that the proposed route of the transmission line lies outside of the waste footprint. Should any waste be discovered during excavation, CEC will provide and load a waste container at cost plus 10-percent. Sand bedding will be provided at cost plus 10-percent for any pipe installed in waste.
4. Cover material displaced from pipeline backfill will be spread out on the surface in the area of each excavation. Grassy areas will be seeded, fertilized, and covered with straw.
5. Pipeline trenching will be backfilled with excavated cover material and compacted with the backhoe and soil compactor. At no time will the responsibility of certifying the backfill material or process pass to CEC.
6. This proposal and Assumptions and Conditions shall become part of a mutually satisfactory contract agreement or purchase order.
7. CEC reserves the right to reschedule the field work in the event of poor weather conditions.
8. Permits (construction, solid waste, air, any other state/federal) provided by others.
9. CEC does not take responsibility for any gases or constituents (regulated or not) that emit from the flare. At no time will the responsibility for any state or federally regulated substance pass to CEC or its subcontractors.
10. The Project Fee for this proposal is valid for 30 days and is based on HDPE pricing provided in June 2008. An increase in HDPE pricing would necessitate an adjustment of the Project Fee.
11. Payment terms are net 30 days.

12. This proposal does not include provisions for rock blasting.

13. This proposal does not include professional engineering services.

PROJET FEE

The services detailed under the Work Scope will be provided for a lump sum fee of \$29,850.

Thank you for the opportunity to prepare this proposal. Please feel free to contact me at (704) 283-9755 if you have any questions or require more information.

Very truly yours,



Kristofer L. Carlson, P.E.
President
Carlson Environmental Consultants, PC

CC: Lisa Doty

If you are in agreement with the terms of this proposal please select an option, sign, date, and return this document to CEC.

Name: _____ Date: _____

PO/Reference # _____

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January 25, 2010

Ms. Lisa Doty
Watauga County Recycling Director
336 Landfill Road
Boone, NC 28607

Subject: **Proposal for Pressure Control Valve Installation at the Watauga County
Landfill – Boone, NC**

Dear Lisa:

Per your request, Carlson Environmental Consultants, PC (CEC) is pleased to present this proposal to Watauga County (County) to install a 3-inch stainless steel pressure control valve for use with the KSD engine/generator sets.

WORK SCOPE

CEC will provide and install a 3-inch stainless steel butterfly valve and fabricated stainless steel pipe section at the Blower/Flare station. The new valve will be suitable for controlling pressure for the purpose of delivering Landfill Gas fuel to the proposed KSD engine/generator sets. The valve will be operated manually to provide the appropriate pressure required by the engine/generator sets.

ASSUMPTIONS AND CONDITIONS

1. Unrestricted site access will be provided to CEC.
2. The collection and disposal of condensate will be the responsibility of the County.
3. Tasks outside of the Work Scope presented in this proposal and identified during the monthly monitoring event will be performed on a time and materials basis.
4. The responsibility for hazardous waste, flare gas, petroleum products, or any other regulated substance, either federal or state, will at no time pass to CEC.
5. All permits will be provided by others.
6. This proposal does not include grease, LP gas, or any other consumable materials associated with BFS and Engine/GEN Set maintenance. The respective owner(s) of the equipment will provide all consumable materials.
7. This work will be performed in accordance with the Work Scope described herein and these assumptions and conditions. The length of the contract will be one year.
8. Work will be performed in OSHA Level D protection and in accordance with the SWANA Landfill Gas Division Health and Safety Task Force, "A Compilation of Landfill Gas Laboratory and Field Practices and Procedures", dated March, 1992. Additional health and safety requirements can be provided with an adjustment in our price.
9. CEC does not represent the functionality of the Landfill Gas Generator Package.

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10. CEC will not be providing the following services as part of this proposal: Engineering (electrical or other), electrical connections at the Power Plant, and negotiations with BREMCO to generate power for the grid.

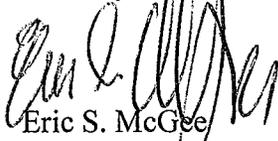
PROJECT FEE

The Project Fee for services detailed under the Work Scope will be performed for a lump sum fee of \$1,600.

From time to time, the County may request CEC to perform additional services at the Landfill in conjunction with (or separate from) the services described in this proposal. Unless otherwise agreed, any additional services will be performed on a time and materials basis.

CEC appreciates the opportunity to provide this proposal to you. If you have any questions, please do not hesitate to call me at (828) 337-5065.

Sincerely,



Eric S. McGee
Vice President - Gas Operations
Carlson Environmental Consultants, PC

Attachments

CC: Kris Carlson, CEC

If you are in agreement with the terms of this proposal please select an option, sign, date, and return this document to CEC.

Name: _____ Date: _____

PO/Reference # _____