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November 17, 2020

Mr. Himanshu Mehta, P.E.
Managing Director
Indian River County
Solid Waste Disposal District
1325 74th Avenue SW
Vero Beach, FL 32968

Subject: Indian River County
Segment 3 Cell 1 Landfill Gas System Expansion
100 Percent Design Opinion of Probable Construction Cost

Dear Mr. Mehta:

This letter provides the 100 Percent Opinion of Probable Cost of Construction (OPCC) for the Segment 3 Cell 1 Landfill Gas System Expansion project as prepared by CDM Smith Inc. (CDM Smith). The OPCC is based on the following:

PROJECT DESCRIPTION

The work of this Contract is located at the Indian River County Landfill at 1325 74th Avenue SW in Vero Beach, Florida. The work includes the construction of the landfill gas collection system in Cell 1. The landfill gas system will include vertical collection wells, new headers, new air and force main piping, and new well dewatering pumps. The landfill gas expansion will also include sideslope collectors on the east side of Segment 3 Cell 1.

DERIVATION OF OPINION OF THE PROBABLE COST OF CONSTRUCTION

The prices for each item in this OPCC were prepared by CDM Smith. The material prices were obtained from recognized suppliers, wherever possible, and/or review of recent bids, and such prices reflect delivery to the project site.

As of November 2020, the OPCCs for the elements listed above are:

Segment 3 Cell 1 Landfill Gas System Expansion	\$1,784,000
Public Construction Bond	\$ 54,000
Mobilization and Demobilization	\$ 50,000
<u>Contingency (10%)</u>	<u>\$ 189,000</u>
Total	\$2,077,000

Included in **Attachment 1** is the bid form completed with the OPCC unit prices. It should be noted that the total value in the bid form was rounded up to the nearest thousand dollars.

We trust the above meets with your approval. If you have any questions or comments, please contact me in the Vero Beach office.





Mr. Himanshu Mehta, P.E.
November 17, 2020
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Sincerely,

A handwritten signature in blue ink, appearing to read "Martin J. Lewis".

Martin J. Lewis, P.E., BCEE, PMP
Project Manager
CDM Smith Inc.

MJL/AMH/jj
Attachment
File: PW_PL1_6706-250111.02.06

cc: Eric J. Grotke, CDM Smith
Amy Hightower, CDM Smith
Joseph Curro, CDM Smith
Kurt Westerlund, CDM Smith
Ron Jones, IRC SWDD



Attachment 1 - Bid Form with OPCC Unit Costs

Item (Note 1)	Unit	Estimated Quantity (Notes 6, 7)	Unit Price	Total
BID ITEMS:				
1. SEGMENT 3 CELL 1 LANDFILL GAS SYSTEM EXPANSION				
1A. Site Work				
a. Site Preparation	L.S.	1	\$106,000	\$106,000
b. Landfill Gas Collection Piping Installation (Note 3)				
b.1. 24-inch SDR 17 HDPE Solid Pipe and Fittings	L.F.	170	\$212	\$36,040
b.2. 18-inch SDR 17 HDPE Solid Pipe and Fittings	L.F.	930	\$140	\$130,200
b.3. 12-inch SDR 17 HDPE Solid Pipe and Fittings	L.F.	520	\$91	\$47,320
b.4. 8-inch SDR 17 HDPE Solid Pipe and Fittings	L.F.	170	\$74	\$12,580
b.5. 6-inch SDR 17 HDPE Solid Pipe and Fittings	L.F.	1,900	\$45	\$85,500
b.6. 4-inch SDR 17 HDPE Solid Pipe and Fittings	L.F.	320	\$40	\$12,800
c. Vertical Extraction Well (Note 4)	V.F.	1,050	\$290	\$304,500
d. Sideslope Collector				
d.1. Sideslope collector 40 mil textured HDPE geomembrane	S.F.	12,000	\$1.19	\$14,280
d.2. Sideslope collector 6-inch SDR 11 HDPE solid pipe and fittings in rock (Note 5)	L.F.	200	\$95	\$19,000
d.3. Sideslope collector 6-inch SDR 11 HDPE solid pipe and fittings in common fill (Note 5)	L.F.	3,000	\$52	\$156,000
d.4. Sideslope collector 6-inch SDR 11 HDPE perforated pipe and fittings in rock (Note 5)	L.F.	3,000	\$91	\$273,000
e. Landfill Gas Appurtenances and Fittings				
e.1. Well Head	Ea.	38	\$3,700	\$140,600
e.2. Miscellaneous Valves and Fittings	L.S.	1	\$35,000	\$35,000
e.3. Access Riser with Fernco Cap	Ea.	12	\$2,050	\$24,600
e.4. Zone Valve	Ea.	6	\$3,900	\$23,400
f. Compressed Air and Force Main Piping, Fittings, Valves, and Ancillary Components				
f.1. 2-inch SDR 11 HDPE Compressed Air & Condensate Force Main Pipe (same trench as LFG pipe) (Note 3)	L.F.	3,400	\$45	\$153,000
f.2. 2-inch Compressed Air and Force Main Valves Assembly	Ea.	6	\$1,500	\$9,000
f.3. Well Dewatering Pump Assembly	Ea.	14	\$5,900	\$82,600
f.4. Well Dewatering Pump Installation	Ea.	14	\$1,500	\$21,000
g. Miscellaneous	L.S.	1	\$60,000	\$60,000
1B. Survey (Note 8)	L.S.	1	\$37,000	\$37,000
TOTAL BID ITEM 1 (Rounded up to nearest \$1,000)				\$1,784,000
2. PUBLIC CONSTRUCTION BOND AND INSURANCE (TOTAL)				
	L.S.	1		\$54,000
3. MOBILIZATION AND DEMOBILIZATION (TOTAL) (Note 2)				
	L.S.	1		\$50,000
4. CONTINGENCY ALLOWANCE (10% of sum of Bid Items 1, 2, and 3)				
	L.S.	1		\$189,000
GRAND TOTAL BID				\$2,077,000