



January 6, 2023

Via Email

W. Craig Powers, PE, Director of Engineering and Environmental Services
Rowan County Solid Waste and Recycling Division
P.O. Box 430
East Spencer, NC 28039
craig.powers@rowancountync.gov

RE: Rowan County Landfill
Project Bid Information
Phase V – Rowan County Landfill
Rowan County Bid No. 10335518

Dear Mr. Powers:

HDR Engineering, Inc. of the Carolinas (HDR) has reviewed the bids received by Rowan County on January 4, 2023 at 2:00 pm for Phase V Construction at the Rowan County Landfill. The project is for approximately 19 acres of liner construction and the associated infrastructure for the landfill cell, including installation of a perimeter drainage channel and leachate sump enclosure with ancillary erosion control measures. The following information is provided regarding HDR's evaluation of bids received.

Four (4) bids for the above-referenced project were received by the Rowan County Purchasing Department and forwarded to HDR for review. Bids were received from the following contractors and are listed in order based on lowest to highest base bid:

1. NJR Group Inc.: \$10,882,888.81
2. Morgan Corp.: \$11,599,636.80
3. Thalle Construction Co., Inc.: \$12,435,000.00
4. Polivka International.: \$13,895,063.50

Alternative bid items were included for replacing the 1×10^{-5} cm/sec clay liner with a geosynthetic clay liner to 2 feet of 1×10^{-7} cm/sec clay liner and the option to replace the perimeter channel riprap lining with Flexamat or Hydroturf products. Based on the pricing received, HDR recommends keeping the base bid items as they are the more cost effective.

The bids were examined for accuracy and compliance with the bid requirements. Any errors identified on the attached bid tabulation form. NJR's bid was found to have several mathematical errors. Their cost for Bonds, Insurance and Mobilization exceeded 4% of the sum of Base Bid items 2 through 28. HDR contacted NJR to see if they were willing to accept a change in cost to the 4% value and they responded that they were not. Additionally, the Structural Fill line item total

did not match the unit rate times the quantity. The Unclassified Excavation line item had a similar situation where the total cost did not match the unit rate time the quantity. In both cases the errors appeared to be due to rounding on the unit rates. NJR did agree to adjustments in the total costs for both line items. Lastly, the total base bid price for the contract as written on the bid form did not equal the sum of all the bid line items. The actual total based on the items is \$10,882, 884.80. The total base bid price based on the changes agreed to by NJR is \$10,882,498.40.

HDR checked the references provided by NJR and received positive feedback, however only two landfill projects were submitted as experience for NJR staff within the past 10 years. Of those two projects Davidson County was pleased with their work and the staff completed the last Phase IV construction at the Rowan County landfill successfully.

Recommendations

Based on the low apparent bidder and qualifications, HDR recommends that the County enter into a contract with NJR Group Inc. for this project.

HDR appreciates the opportunity to provide continued service to Rowan County. Please feel free to contact me if you have questions regarding this information.

Respectfully submitted,
HDR Engineering, Inc. of the Carolinas



Michael D. Plummer, PE
Project Manager

Enclosure: Attachments

cc: Jody Farrow-Bennett, Rowan County

Jeff Boyd, Rowan County



Bid Tabulation Sheet Summary
Rowan County Landfill Phase V Expansion Construction - 10335518
Bids Received January 4, 2023 at 2:00PM

CONTRACTOR:	NJR Group Inc.	Morgan Corp.	Thalle Construction Co., Inc	Polivka International Company, Inc.
ADDRESS:	PO Box 924 Albemarle, NC 28002	PO Box 3555 Spartanburg, SC 29304	900 NC Highway 86 North Hillsborough, NC 27278	PO Box 2570 Burlington, NC 27216
PHONE:	980.581.8102	864.433.8800	919.245.1490	336.584.1745
FAX:				
LICENSE #:	77426	12289	35203	62492
TYPE:	General Contracting	General Contracting	General Contracting	General Contracting
STATUS:	Valid	Invalid	Valid	Valid
EXPIRATION:	12/31/2023	12/31/2022	12/31/2023	12/31/2023
CLASSIFICATION:	Building, Highway, PU (Water Lines & Sewer Lines)	PU(Water Lines & Sewer Lines), Building, Highway, H(Grading & Excavating)	Unclassified	Highway

Item No.	Description	Estimated Quantity	Unit	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
Base Bid Price for Contract											
	Bonds, Insurance and	1	LS		\$ 436,000.00		\$ 291,038.00		\$ 460,000.00		\$ 513,233.00
1	Mobilization (4% Max of Base Bid Items 2-28)										
2	Construction Quality Control	1	LS		\$ 352,100.00		\$ 532,009.00		\$ 225,000.00		\$ 325,000.00
3	Surveying and Control	1	LS		\$ 251,521.00		\$ 220,142.00		\$ 200,000.00		\$ 185,000.00
4	Stormwater Structures and Erosion Control	1	LS		\$ 408,000.00		\$ 129,712.00		\$ 270,000.00		\$ 127,550.00
5	Rip Rap Lined Channels	2,850	LF		\$ 300,247.50		\$ 198,645.00		\$ 300,000.00		\$ 470,250.00
6	Clearing and Grubbing	4	AC		\$ 48,000.00		\$ 104,872.00		\$ 120,000.00		\$ 66,000.00
7	Structural Fill	80,000	CY	\$ 6.73	\$ 538,400.00	\$ 4.95	\$ 396,000.00	\$ 6.00	\$ 480,000.00	\$ 6.50	\$ 520,000.00
8	Unclassified Excavation	190,000	CY	\$ 3.85	\$ 731,880.00	\$ 3.85	\$ 693,500.00	\$ 4.50	\$ 855,000.00	\$ 9.00	\$ 1,710,000.00
9	Difficult Excavation	2,000	CY	\$ 25.00	\$ 50,000.00	\$ 70.40	\$ 140,800.00	\$ 10.00	\$ 20,000.00	\$ 75.00	\$ 150,000.00
10	Compacted Soil Liner (18" 1x10-5 cm/sec)	46,464	CY		\$ 763,963.20		\$ 980,390.40		\$ 400,000.00		\$ 1,206,700.00
11	Geosynthetic Clay Liner (GCL)	19.3	AC		\$ 501,491.20		\$ 632,461.00		\$ 600,000.00		\$ 569,350.00
12	60 mil HDPE Geomembrane	19.3	AC		\$ 555,531.20		\$ 735,735.30		\$ 700,000.00		\$ 630,820.50
13	Geocomposite Drainage Liner	19.3	AC		\$ 188,059.20		\$ 245,129.30		\$ 200,000.00		\$ 458,375.00
14	HDPE Leachate Collection Piping and Collection Stone	1	LS		\$ 1,511,750.00		\$ 970,324.00		\$ 1,700,000.00		\$ 2,096,250.00
15	Separator Geotextile	1	LS		\$ 196,807.36		\$ 488,344.00		\$ 450,000.00		\$ 303,589.00
16	Operational Layer Soil and Subcell Divider Berm	32,312	CY		\$ 200,334.40		\$ 416,824.80		\$ 400,000.00		\$ 258,496.00
17	Operational Layer Gravel	25,800	CY		\$ 1,857,600.00		\$ 2,113,020.00		\$ 2,825,000.00		\$ 2,244,600.00
18	Geosynthetic Rain Cover	14	AC		\$ 257,152.00		\$ 330,904.00		\$ 350,000.00		\$ 281,750.00
19	Leachate Enclosure	1	EA		\$ 222,368.00		\$ 84,748.00		\$ 130,000.00		\$ 75,500.00
20	Leachate Pumps	2	LS		\$ 108,732.00		\$ 91,114.00		\$ 150,000.00		\$ 65,100.00
21	Leachate Force-main and Manhole Removal	1,020	LF		\$ 98,307.60		\$ 172,380.00		\$ 75,000.00		\$ 127,500.00
22	Electrical, Instrumentation and Controls	1	LS		\$ 164,555.00		\$ 224,672.00		\$ 120,000.00		\$ 215,500.00
23	Air Compressor	1	LS		\$ 96,224.00		\$ 199,470.00		\$ 75,000.00		\$ 98,550.00
24	Seeding	30	AC	\$ 5,000.00	\$ 150,000.00	\$ 2,517.00	\$ 75,510.00	\$ 2,000.00	\$ 60,000.00	\$ 4,955.00	\$ 148,650.00
25	Perimeter Road - Stone	5,950	SY		\$ 48,314.00		\$ 211,225.00		\$ 300,000.00		\$ 208,250.00
26	Perimeter Road - Asphalt Paving	3,500	SY		\$ 230,172.74		\$ 347,900.00		\$ 350,000.00		\$ 192,500.00
27	Road widening and Culvert replacement along access road	1	LS		\$ 96,368.00		\$ 52,767.00		\$ 100,000.00		\$ 126,550.00
28	Water Supply Well	1	LS		\$ 20,000.00		\$ 20,000.00		\$ 20,000.00		\$ 20,000.00
29	Contingency	1	LS		\$ 500,000.00		\$ 500,000.00		\$ 500,000.00		\$ 500,000.00
Total Base Bid Price For Contract					\$10,882,884.80		\$11,599,636.80		\$12,435,000.00		\$13,895,063.50

Base Bid Price for Contract											
1	Compacted Soil Liner (24" 1x10-7 cm/sec)	61,952	CY		\$ 2,478,080.00		\$ 2,688,716.80		\$ 970,000.00		\$ 1,609,300.00
2	Flexamat @ Standard Channel Lining	2,850	LF		\$ 576,697.50		\$ 354,420.00		\$ 370,000.00		\$ 1,068,750.00
3	Hydroturf® CS Type I	2,850	LF		\$ 778,641.75		\$ 853.60		\$ 455,000.00		\$ 997,500.00
All Addenda Acknowledged				Yes		Yes		Yes		Yes	
Non-Collusion Affidavit of Prime Bidder				No		No		No		No	
MWDBE				No		No		No		No	
Evidence of Qualification to conduct business				Yes		Yes		Yes		Yes	
Project Experience (completed & current)				Yes		Yes		Yes		Yes	
Financial Data				No		No		Yes		Yes	
Subcontractors List				No		Yes		Yes		No	
Bid Bond (5%)				Yes		Yes		Yes		Yes	

Irregularities (see highlighted areas on form)

Item 1 is greater than 4%	General Contracting License provided was expired but online research confirmed it is current.
The unit cost multiplied by the quantity does not match the total cost (see	Hydroturf Alternative appeared to be missing a digit
The total base price does not match the number written in the bid form	



CERTIFICATION: This is certified to be an accurate tabulation of bids received for the project.