



NEW HANOVER COUNTY FINANCE DEPARTMENT

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ADDENDUM #1

From: Lena L. Butler, Purchasing Supervisor
To: All Prospective Bidders
Project: RFB # 17-0153-IN VESSEL COMPOSTING EQUIPMENT
Date: September 19, 2016

This addendum is issued to respond to questions received in response to the County's "RFB # 17-0153- IN VESSEL COMPOSTING EQUIPMENT" and is hereby made a part of said Request for Bids to the same extent as though it were originally therein.

1. Please provide more detail on the composition and quantity/volume of vegetative debris. Does vegetative debris include leaves, brush, and grass? If brush is included, what is the size of the brush? Will the County chip the brush before introduction to the compost process? What is the seasonal variation in quantity?

ANSWER: Vegetative debris is received from a variety of sources, which include residential and commercial sources but excludes land-clearing debris. The composition includes lawn, tree, and hedge trimmings, tree branches, palm fronds, pine straw, leaves, vines/ivy, etc. Brush is typically less than 6" in diameter. All of the vegetative debris is ground by a third party contracted by the Department; only ground material will be introduced into the composting process. Quantities received during fiscal year 2015/2016 (July 1, 2015 through June 30, 2016) range from 336 tons (November) to 1,914 tons (June). The site averaged 961 tons/month during FY15/16.

2. Please provide the estimated quantity of ground lumber and food waste. Are there any seasonal variations?

ANSWER: Food waste for the purpose of this pilot program is strictly limited to the pre-consumer food waste originating from UNCW's Wagoner Dining Hall. This waste has been ground and de-watered prior to being sent to a 34 yd³ self-contained compactor. This compactor will be delivered to the composting area on average 3 times per month, with monthly tonnages averaging 20-21 tons (6.6 – 7.0 tons per load).

Ground lumber originates from the County landfill's Construction and Demolition Debris recycling operation. This material includes clean (untreated, unpainted) dimensional lumber and pallets which have been ground by a third party contracted

by the Department. In the first two months of operation of this system, the Department has been averaging 279 tons/month of recovered lumber and pallets. Typically, construction and demolition debris received tends to decline from November through February.

3. Will the County clear and rough grade the site parcel to within 6 inches of final grade? If no, please provide current site topography.

ANSWER: The County is bidding the concrete pad and roof separately from this composting equipment bid. The successful composting equipment vendor (for this current bid, #17-0153) shall supply the Department with a proposed equipment site layout design, including equipment dimensions. These documents will be incorporated into a separate bid for site work, utility work, and installation of a concrete pad and roof/cover. The successful equipment vendor will work closely with the concrete pad contractor and County staff to complete the final site layout and design.

4. The compost system may produce small amounts of contact water/leachate. Please confirm that the County will manage this water after collection by the Bidder.

ANSWER: While the County prefers and fully enclosed system that is self-contained, the County owns and operates an adjacent advanced leachate treatment system including ultrafiltration and reverse osmosis systems. The bidder's proposal shall include any equipment required to store and/or transfer leachate to the existing system (i.e. storage tanks, pumps, etc.).

5. We are formally requesting an extension on the bid opening by 1 week to October 6, 2016.

ANSWER: The County will approve this extension to October 6, 2016 at 3:00 PM; however, no further extensions will be granted beyond that date.

6. How much space is available for the compost pad? **ANSWER: The operational footprint of the pilot composting area is 200' x 150'. Of this, we would expect approximately 15,000 square feet (1/2 the area) to be available for a partially or fully covered concrete pad to encompass active composting equipment, feedstock mixing/loading, and any other activities that may generate leachate. The County is bidding the concrete pad and roof separately from this composting equipment bid.**

7. Should the compost pad area include a paved surface for the food/yard waste reception and grinder?

ANSWER: The County is bidding the concrete pad and roof separately from this composting equipment bid. We anticipate that the final design of the facility pad will include a concrete pad area for material dumping, mixing, grinding, and loading into the proposed system.

8. Should the compost pad area include a paved surface for the screen and storage of screened material?

ANSWER: The County is bidding the concrete pad and roof separately from this composting equipment bid. The County intends to incorporate the screening and storage areas as part of the concrete pad design for that bid.

9. Where should the surface water from the compost pad be directed to?

ANSWER: The County is bidding the concrete pad and roof separately from this composting equipment bid. An existing percolation basin is located adjacent to the permitted composting demonstration area.

10. What power is available, 480v 3 phase, or other? Please describe.

ANSWER: A utility pole (Duke Energy Progress) is located in the immediate vicinity of the pilot composting area. The County will work closely with the successful bidder to ensure that sufficient power is made available to the site, with sufficient capacity available for possible future expansion.

11. Is the 75 tons/month just the amount of food waste to be composted or does that figure include the bulking agent as well?

ANSWER: Food waste will comprise 20-21 tons/month of the total desired capacity of the system to be proposed (75 tons/month). The balance of the capacity is available for either additional food waste, yard waste, or ground wood waste as based on the successful bidder's proposed recipe. At the very minimum, the proposed system must be able to successfully process the 20-21 tons of food waste per month (excluding any bulking agents).

12. What permits will be required?

ANSWER: A composting demonstration permit has been approved and issued to the County by the North Carolina Department of Environmental Quality (DEQ). This demonstration permit has an effective date of August 15, 2016 and is valid for one (1) year, with a 6-month extension available upon request and demonstrated need. The successful bidder must secure all required construction and trades permits as required. The County will work closely with the successful bidder to assist with permit applications, inspections, etc. During the project kickoff meeting (after bid award), the successful bidder will be put in contact with a project manager who can supply all necessary contacts and procedures based on what is required by the proposed system. Bi-weekly construction update meetings will assist in keeping project schedules (including any necessary building/trades inspections) on track and resolve any outstanding issues.

End of Addendum 1