



March 25, 2024

Mr. Bill Nash  
Assistant Director of Public Works  
Hall County, Georgia  
2875 Browns Bridge Road #3  
Gainesville, Georgia 30504

Re: Proposal Construction Support and CQA – Candler Road Cell 3

Dear Mr. Nash:

Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell) recently completed the design and bid administration services for Hall County (County) Candler Road Landfill (Landfill) Cell 3, and it is anticipated the County will award the project to the apparent low bidder in January 2024. This letter is being provided as an amendment for additional services for construction administration and construction quality assurance for the above-referenced project.

### **SCOPE OF SERVICES**

#### **Task 1: Submittal/RFI Review and Construction Administration**

As part of the Cell 3 Construction Project (Project) Burns & McDonnell shall review and process contractor submittals and requests for information (RFIs). Burns & McDonnell shall maintain communication with the County's contractors and subcontractors to assess whether material and equipment conform with the project specifications and issue submittal responses in a timely manner. This task also includes review of contractor pay applications and general construction contract administration.

A total of 220 professional hours have been assumed for Task 1.

#### **Task 2: Construction Coordination and Meetings**

As part of the Project, Burns & McDonnell shall coordinate and conduct a pre-construction meeting with the County, its contractors, and subcontractors. The pre-construction meeting will include a review of contractor's construction procedures and schedules, define points of contact, define the responsibilities of each party, and conduct a pre-construction site walk. Burns & McDonnell will coordinate and attend one geosynthetics pre-installation meeting, monthly construction progress meetings and site visits and a substantial completion site walk.

Burns & McDonnell representatives will attend the geosynthetics pre-installation meeting, monthly construction progress meetings, and substantial completion site walk in person.

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A total of 216 professional hours have been assumed for Task 2.

### **Task 3: Construction Quality Assurance**

Burns & McDonnell, and subcontractor GeoHydro Engineering, Inc., (GeoHydro) will provide Construction Quality Assurance (CQA) for the construction of Cell 3 base cell. As part of that work, Burns & McDonnell and GeoHydro shall provide on-site support during construction activities to observe and document the work completed including, but not limited to:

- Clearing and Grubbing
- Soil excavation, segregation and stockpiling
- Subgrade preparation
- Underdrain construction
- Recompacted soil layer
- Geosynthetics installation (high density polyethylene geomembrane liner and geosynthetic clay liner)
- Leachate collection layer
- Leachate pipework installation
- Forcemain and manhole installation
- Stormwater management works
- Seeding and mulching

GeoHydro will provide day-to-day onsite construction support. They will report to a Burns & McDonnell project manager that will coordinate their time onsite, congregate and review field notes and documentation prepared by the onsite GeoHydro staff, and answer questions during construction activities. During certain times of construction, Burns & McDonnell will support GeoHydro with staff onsite.

It is assumed Burns & McDonnell will provide one additional full-time on-site representative to provide CQA services during geosynthetics installation. As part of the geosynthetic installation CQA monitoring, Burns & McDonnell shall provide logs of the following items:

- Panel Layout
- Trial Welds – Fusion and Extrusion Welds
- Panel Seaming and Air Pressure Testing
- Repairs and Vacuum Box Testing
- Destructive Samples Testing

Effort for preparing a site-specific health and safety plan, coordinating Burns & McDonnell employee safety, and general project manager services for coordination with field staff and subcontractors, daily logs and project administration has also been included in the cost for Task 3.

For purposes of this proposal the following hours are assumed during construction:

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- Burns & McDonnell Project Manager: 52 hours
- Burns & McDonnell Engineer: 116 hours
- Burns & McDonnell Geosynthetic Technician CQA: 200 hours
- GeoHydro Onsite Staff: 2,040 hours
- GeoHydro Project Manager: 175 hours

#### **Task 4: Construction Documentation Report**

After completion of the construction activities, Burns & McDonnell will prepare a CQA report to document construction activities and provide the necessary information to the Georgia Environmental Protection Division (Georgia EPD) for certification. The contractor shall be responsible for material conformance testing of the geosynthetics. Burns & McDonnell shall be responsible for conformance testing of concrete and earthworks. Burns & McDonnell shall organize the pertinent construction data and submittals into report format, submit a draft CQA report electronically to the County for review, and submit the final CQA report to the Georgia EPD including hard copies, if required. The report will include:

- Project introduction and background
- List of organizations and responsibilities
- Summary of construction activities
- Testing and laboratory results
- Observation and test data sheets
- Description of construction problems/resolutions
- Earthwork (as constructed)
- Underdrain pipework (as constructed)
- Leachate pipework (as constructed)
- Geosynthetics installation and panel layout
- List of deviations from construction documents

A total of 184 professional hours have been assumed for Task 4.

#### **Task 5: Construction Earthworks and Concrete Testing**

Burns & McDonnell will retain and coordinate with a construction material testing subcontractor and laboratory to provide quality control testing of soil density and moisture of general fill and recompacted soil liner material. A field technician shall mobilize to the Landfill to take nuclear density gauge readings of each lift of compacted soil during cell construction as per the CQA Plan frequencies.

In addition to soil density testing, Burns & McDonnell shall also provide concrete testing for the various concrete pours required during construction. A technician shall take cylinders of the

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concrete and test for strength at 7- and 28-day intervals. Concrete shall also be tested the day of the pour for slump.

Lastly, during construction, bulk samples of borrow fill, general fill and various aggregates shall be taken and tested for proctor, sieve analysis, Atterberg limits, hydraulic conductivity, and calcium carbonate as per the CQA Plan test frequencies.

Burns & McDonnell's full-time on-site representative will coordinate the timing and collection of samples with County's selected contractor. Coordination of the testing will primarily take place during construction progress meetings.

### **ASSUMPTIONS**

As part of this proposal, Burns & McDonnell has made the following assumptions:

- Budget for construction quality assurance assumes the contractor works six-days per work week at 10-hour workday. Part time construction quality assurance work is anticipated during mass excavation, clearing and grubbing, and haul-road improvement activities.
- Construction schedule is assumed to be 34 weeks and is dependent on the contractor. If the contractor takes longer than the assumed construction schedule, Burns & McDonnell will manage onsite time to the extent practical to stay within the assumed budgeted hours. Burns & McDonnell will communicate onsite hours to the County on a monthly basis. If hours beyond the assumed budget are needed, a Change Order will be warranted.
- Budget assumes 20 days at 10 hours per days of on-site support for geosynthetics installation in addition to the full time regular support for non-geosynthetics tasks.
- Contractor shall be responsible for construction surveying and geosynthetics conformance testing.
- Soil and Concrete testing scope included is for on-site conformance testing. Contractor shall be responsible for submission of source approval testing results for approval prior to delivery to Landfill.
- Burns & McDonnell is responsible for on-site soil and concrete construction testing as per the CQA plan requirements.
- A total of \$77,000 in subcontractor fees for CQA soil and concrete testing have been included within this budget. This includes seven mobilizations for concrete cylinder and slump testing. Actual number of mobilizations will be dependent on Contractor's performance and work schedule.
- Budget includes reimbursable travel expenses and technology charges.
- Due to construction timing and bidding schedules this proposal includes Burns & McDonnell time for work completed prior to this proposal being executed.

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Additional hours and expenses beyond those identified within the tasks above are considered outside the scope of services.

### **TIME OF SERVICE**

Burns & McDonnell will proceed with providing the services set forth herein upon acceptance of this proposal by the County. The timing of Tasks 1 through Task 5 is dependent upon the schedule of the Cell 3 construction project. Tasks will be completed as required in accordance with the contractor's construction project schedule. The Construction Documentation Report (Task 4) will be completed within 30 days of construction final completion.

### **COMPENSATION**

For the Scope of Services in Task 1 through Task 5 described herein, Hall County shall compensate Burns & McDonnell on a time and materials basis as per the attached rate sheet (BMR24-5) not to exceed a total of \$645,000 as outlined in the cost breakdown presented below. This estimated cost will not be exceeded without Hall County's authorization.

Task 1: Submittal/RFI Review and Construction Administration	\$65,300
Task 2: Construction Management and Meetings	\$86,200
Task 3: Construction Quality Assurance	\$362,700
Task 4: Construction Documentation Report	\$53,800
<u>Task 5: Construction Earthworks and Concrete Testing</u>	<u>\$77,000</u>
<b>Total</b>	<b>\$645,000</b>

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Should you have any questions or require additional information, please do not hesitate to contact me at (612) 458-7512 or [bweldon@burnsmcd.com](mailto:bweldon@burnsmcd.com).

Sincerely,

Burns & McDonnell Engineering Company, Inc.



Bryan Weldon P.E.  
Project Manager



Spencer Cronin  
Regional Manager



Matt Evans P.E.  
Client Manager

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Enclosures: Schedule of Hourly Professional Services Billing Rates

**ACCEPTED:** Propsoal – Construction Support and CQA – Candler Road Cell 3

HALL COUNTY, GEORGIA

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

## Schedule of Hourly Professional Service Billing Rates

Position Classification	Classification Level	Hourly Billing Rate
General Office *	5	\$72.00
Technician *	6	\$92.00
Assistant *	7	\$111.00
	8	\$152.00
	9	\$181.00
Staff *	10	\$204.00
	11	\$223.00
Senior	12	\$252.00
	13	\$273.00
Associate	14	\$281.00
	15	\$283.00
	16	\$285.00
	17	\$289.00

**NOTES:**

1. Position classifications listed above refer to the firm's internal classification system for employee compensation. For example, "Associate", "Senior", etc., refer to such positions as "Associate Engineer", "Senior Architect", etc.
2. For any nonexempt personnel in positions marked with an asterisk (\*), overtime will be billed at 1.5 times the hourly labor billing rates shown.
3. For outside expenses incurred by Burns & McDonnell, such as authorized travel and subsistence, and for services rendered by others such as subcontractors, the client shall pay the cost to Burns & McDonnell plus 10%.
4. A charge will be applied at a rate of \$9.95 per labor hour for technology usage, software, hardware, printing & reprographics, shipping and telecommunications. Specialty items are not included in the technology charge.
5. Monthly invoices will be submitted for payment covering services and expenses during the preceding month. Invoices are due upon receipt. A late payment charge of 1.5% per month will be added to all amounts not paid within 30 days of the invoice date.
6. The services of contract/agency and/or any personnel of a Burns & McDonnell parent, subsidiary or affiliate shall be billed to Owner according to the rate sheet as if such personnel is a direct employee of Burns & McDonnell.
7. The rates shown above are effective for services through December 31, 2024, and are subject to revision thereafter.