

TASK ORDER No. 10021-01

This Task Order pertains to an Agreement by and between UNION COUNTY, NC ("OWNER"), and BLACK & VEATCH INTERNATIONAL COMPANY ("ENGINEER"), dated JANUARY 16, 2026, ("the Agreement"). ENGINEER shall perform services on the project described below as provided herein and in the Agreement. This Task Order shall not be binding until it has been properly signed by both parties. Upon execution, this Task Order shall supplement the Agreement as it pertains to the project described below. Unless otherwise defined herein, all capitalized terms shall have the meaning set forth in the Agreement.

MPA: 10021

TASK ORDER NUMBER: 10021-01

RELATED RFQ NUMBER: 2026-002

PROJECT NAME: BIOSOLIDS MASTER PLAN

PART 1.0 PROJECT DESCRIPTION

Union County (OWNER) owns and operates five (5) water reclamation facilities (WRFs), with treatment capacities ranging from 0.5 MGD to 7.5 MGD. Its largest facility, the Twelve Mile WRF, is currently being expanded from 7.5 MGD to 9 MGD, with construction expected to be completed in 2027. In addition, the Grassy Branch WRF is being expanded to 0.12 MGD, with construction scheduled for completion in 2026. The following are the WRFs owned and operated by OWNER with their permitted capacity.

Water Reclamation Facility	Permitted Capacity (MGD)	Biosolids Processes
Twelve Mile Creek WRF	7.5 (Expanding to 9.0)	Aerobic digestion, dewatering with BFPs and hauling Class B solids to McGill for composting (Currently dewatering raw solids and hauling to McGill)
Crooked Creek WRF	1.9	Treatment with lime slurry and liquid Class B land application
Olde Sycamore WRF	0.15	Hauled to Crooked Creek
Tallwood WRF	0.05	Hauled to Crooked Creek
Grassy Branch WRF	0.05 (Expanding to 0.12)	Hauled to Crooked Creek

To meet increasing wastewater treatment needs, OWNER has engaged ENGINEER to develop a long-term, sustainable biosolids management strategy for all five (5) WRFs. In general, the scope will accomplish the following:

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- Develop a planning framework that evaluates existing conditions, forecasts future biosolids quantities, and assesses end-use options.
- Conduct solution development and evaluation, including screening potential technologies and develop and evaluate alternatives.
- Prepare an implementation strategy that includes long-term recommendations, a capital improvement plan (CIP), project prioritization and sequencing, and validation of the recommended path forward with OWNER.

PART 2.0 SCOPE OF BASIC SERVICES TO BE PERFORMED BY ENGINEER ON THE PROJECT

The detailed scope of services is for Basic Services is as follows:

Task 100. Framework Definition

ENGINEER will provide the following services under this task.

Subtask 101 Kickoff Meeting: ENGINEER will conduct a project Kickoff Meeting with OWNER to set overall objectives for the project and discuss roles, responsibilities, scope, schedule, deliverables, budget, safety, quality plan, assumptions, data request, and communication plan. ENGINEER will lead the Biosolids Master Plan project Kickoff Meeting including development and distribution of agenda and meeting minutes. The Kickoff Meeting will be conducted as a hybrid in-person / virtual meeting and attended by up to seven (7) of ENGINEER’s professionals.

Subtask 102 Data Collection and Review: Prior to the Kickoff Meeting, ENGINEER will submit a preliminary data request which will be discussed at the Kickoff Meeting. This request will be refined and resubmitted based on discussion at the Kickoff Meeting and as the project progresses. The status of data transmittals will be tracked by ENGINEER throughout the project. ENGINEER will list the data provided by OWNER in a project “Data Catalog” spreadsheet. Data may include, but are not limited to, the following to which OWNER reasonably has access:

- Process flow diagrams
- Facility operations logs
- Annual biosolids reports
- Influent and/or effluent flows for each biosolids unit processes such as thickening, stabilization, dewatering for the last five (5) years
- Laboratory biosolids data including total solids (TS), volatile solids (VS), nutrients, pathogens, metals, etc. for the last three (3) to five (5) years
- Biosolids hauling and disposal records for the last five (5) years
- Previous master plans and studies on biosolids treatment processes
- Descriptions and status of related current, and upcoming projects
- As-builts
- Any applicable permits and proposed permit changes
- Operating costs including electricity, chemicals such as polymer, natural gas, and labor for use in preparing opinions of cost.

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ENGINEER will review the information to glean a general understanding of current program conditions. ENGINEER will identify any significant data gaps. In the absence of data, ENGINEER will apply generally acceptable parameters based on typical equipment performance and standard conversion factors, based on experience, for any evaluations.

Subtask 103 Operations Evaluation: ENGINEER will conduct an up to 3-day site visit consisting of plant staff interviews and basic visual inspection to observe shift operations and understand daily operations and future needs, including:

- Operational and maintenance needs and requirements
- Infrastructure capacity and condition (using information gathered by the team in Subtask 102).
- Gap assessment – identify any gaps in existing operations and opportunities for future improvements in alignment with OWNER’s strategic goals.
- Data gap analysis - evaluate whether existing biosolids data is sufficient to support future regulatory compliance, operational optimization, and long-term biosolids management.

Subtask 104 Regulatory and Policy Review: ENGINEER will review existing local (if applicable), state and federal regulations related to biosolids management, as well as regulatory trends. The primary objective of this review is to identify the near-term and long-term factors that may impact the management of biosolids, and to identify potential operational or process changes that may be required to comply with these regulations. The emphasis will be on the emerging issues and trends in the state and around the country that could affect future solids management.

Subtask 105 Biosolids Production Forecast

In consultation with Union County Water Planning and Resource Management staff, ENGINEER will review already developed population projections for OWNER’s service area. If any flow projections were performed, ENGINEER will review that information. The population projection data will be utilized to extrapolate flow for the 5-, 10-, 15- and 20- year planning horizons based on the influent flow to population ratio estimated from the historical data collected under Subtask 102.

Based on the review of historical data in Subtask 102, ENGINEER will determine current solids production rates in pounds of solids per million gallon of influent flow. Biosolids production will be forecasted based on the historical production rates and flow projections. A solids mass balance and a flow balance will be developed to evaluate capacity of the existing equipment under existing and projected future conditions.

Assumptions:

- OWNER will provide the population projections for the planning horizons. ENGINEER is not expected to develop land use or similar analysis to develop population projections.

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- ENGINEER will not develop or update a process model such as BioWin, Sumo, GPS-X, etc. for this task.

Existing data provided by the OWNER will be the basis for calculations. Should additional sampling needs be identified, the ENGINEER has included an allowance to support supplemental data collection under Task 500.

Subtask 106 Existing System Assessment: ENGINEER will document OWNER's current biosolids management approach and the biosolids processing systems at the facility. This evaluation will include characterization of the biosolids, and management program based on available data and an assessment of the historical operations of the existing biosolids treatment systems. Historical biosolids data will be requested by ENGINEER to support this task as part of Subtask 102. This task includes the following processes and related equipment:

- Thickening
- Stabilization
- Dewatering
- Storage
- Hauling and end-use/disposal
- Sidestream Handling
- Chemical Storage (related to biosolids processes such as thickening and dewatering)

Projections for solids quantities and characteristics that will serve as the basis for development and evaluation of alternatives will be estimated using the future flows and loads that are developed under Subtask 105.

Subtask 107 End Use Options/Market Assessment: ENGINEER will review current and potential future biosolids end use options in the region. This will include current markets for traditional biosolids products (Class A, and Class B liquid, cake, compost, dried products, etc.) and the potential future of these markets. The assessment will identify: target markets; approximate total market size; and market opportunities/constraints, including PFAS limitations (based upon limited interviews with users, influencers and/or distributors). The objective of this effort is to identify resilient markets for OWNER's biosolids as a foundation for future solids processing needs. End-use options will be kept within an approximate 3-hour driving radius of OWNER's facilities.

Subtask 108 Framework Definition Workshop: ENGINEER will prepare for and attend one 3-hour workshop with OWNER to review and discuss the results and recommendations from Task 100. This will be a hybrid in-person / virtual meeting and attended by up to five (5) of ENGINEER's professionals. ENGINEER will prepare an agenda for this workshop and will prepare meeting minutes summarizing the key discussion points from the workshop.

Subtask 109 Technical Memorandum No.1: ENGINEER will develop a technical memorandum (TM) presenting the findings from Task 100 (Subtask 102 through Subtask

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107). The TM will be submitted in draft for review by and discussion with OWNER. OWNER's comments will be addressed in the Biosolids Master Plan.

Subtask 1010 Assess Regionalization Opportunities: ENGINEER, with input from OWNER, will identify potential neighboring agencies that could be interested in regional processing opportunities. ENGINEER will prepare a preliminary list of agencies and their current solids management practice. Identified agencies will be contacted to confirm solids management practices, identify approximate solids production or available excess solids processing capacities, and determine potential interest in regionalization.

For budgeting purposes, up to six (6) meetings are anticipated to engage nearby agencies. High-level findings related to potential partnerships will be incorporated into Task 200, Solution Development and Evaluation.

Deliverables:

- Meeting Agenda
- Draft/Final Meeting Minutes including presentation slides
- Draft Framework Definition Technical Memorandum

Task 200. Solution Development and Evaluation
ENGINEER will provide the following services under this task.

Subtask 201 Development of Screening and Evaluation Criteria: ENGINEER will prepare a summary of recommended screening and evaluation criteria and an approach for applying the criteria to be used in the screening of biosolids management practices and in the evaluation of alternatives. Prior to developing the summary, ENGINEER will meet with OWNER staff to obtain input into the criteria that are most important to OWNER and the approach for applying the criteria. It is expected that some high-level criteria may be used in the screening of practices and technologies. Examples of "pass/fail" criteria for screening include proven systems, compatibility of process with existing liquid treatment train or product quality. Draft criteria will be submitted for OWNER consideration and finalized with OWNER's input.

A larger set of criteria will be developed to enable a quadruple bottom line (QBL) analysis of alternatives. QBL criteria will be developed for the following categories: financial, social, environmental, and functional. ENGINEER will prepare a preliminary list of potential criteria that will be submitted to OWNER for review, and ENGINEER will meet with OWNER to discuss and modify the criteria list. This will be virtual meeting and attended by up to three (3) of ENGINEER's professionals.

Once the evaluation criteria are defined, ENGINEER will prepare an online questionnaire that will be used by OWNER to provide input on the weighting of the criteria. A link will be sent to all participants for a survey form that will guide participants through a series of questions. Responses from the questions will be used by ENGINEER in an algorithm to develop composite weighting factors for review by OWNER.

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The criteria summary will include definitions for each of the proposed criteria and the approach for using them. This summary will be submitted as a TM to OWNER for review prior to the review of biosolids management practices and technologies and subsequent workshops. The TM will be submitted in draft for review by and discussion with OWNER. OWNER's comments will be addressed in the Biosolids Master Plan.

Deliverables:

- Draft Screening and Evaluation Criteria Technical Memorandum

Subtask 202 Technology Overview and Screening: ENGINEER will compile information regarding available technologies informed by findings under Task 100 including regulatory overview and market study. ENGINEER will consider a broad range of treatment technologies including but not limited to thermal hydrolysis, drying and thermal oxidation (such as incineration, pyrolysis and gasification) , for PFAS destruction. A summary table identifying potentially suitable technologies will be developed and provided to the OWNER to document the broad range of approaches that will be considered where “technologies” refer to the major treatment technologies needed to render the biosolids suitable for final use. ENGINEER will provide OWNER with information regarding available technologies, including the state of the technology with respect to practice and suitability based on capacity, costs, complexity, and other factors. Information will be summarized in a presentation file to provide OWNER staff with an overview of key information to support the subsequent screening process.

Information developed for this task will be presented and discussed with the OWNER in a workshop format. The objective will be to screen technologies to eliminate those that are not considered suitable using the criteria developed under Subtask 201. ENGINEER will prepare for and participate in a 3-hr workshop with OWNER that will include the following topics. This will be a hybrid in-person / virtual meeting and attended by up to five (5) of ENGINEER's professionals.

- Overview of technologies, including state of the practice, applicable capacity, complexity, flexibility, consistency with OWNER's goals/vision, and other relevant factors.
- Facilitation of an initial screening exercise based on the criteria and approach identified in the prior tasks to rule out any technology options that are not considered viable or do not align with OWNER's goals or needs.

Following the screening workshop, ENGINEER will submit meeting minutes to OWNER to document the discussions, decisions and action items discussed during the workshop. The minutes prepared for this workshop will be of sufficient detail to capture how and why decisions are made and thoroughly document the decision-making process.

Deliverables:

- Meeting Agendas

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- Draft/Final Meeting Minutes including presentation slides

Subtask 203 Alternatives Identification Workshop: ENGINEER will conduct an Alternatives Identification Workshop with the OWNER to review the shortlisted technologies and to determine which alternatives should be developed further for evaluation. This will be a maximum 1.5-hr, hybrid in-person / virtual meeting and attended by up to five (5) of ENGINEER's professionals. During the workshop, a list of all potential alternatives, considering shortlisted technologies, will be reviewed to develop up to four (4) viable system-wide alternatives for further development and analysis. The goal is to reach a consensus on the basis for each process train before proceeding with alternatives development. The alternatives considered may include, but are not limited to:

- Maintaining current approach including potential intensification of existing processes
- Stabilization for Class A or Class B liquid land application
- Stabilization for Class A or Class B cake land application
- Composting
- Drying
- Other processes as identified through Task 202

Deliverables:

- Meeting Agenda
- Draft/Final Meeting Minutes including presentation slides

Subtask 204 Alternatives Development and Evaluation: ENGINEER will build on the information from Subtask 202 and Subtask 203 collaboratively with the OWNER, to refine and assess up to four shortlisted biosolids treatment alternatives including status quo. ENGINEER will submit a draft description consisting of basic process flow diagrams showing the major elements of the proposed shortlisted options for OWNER review, comments, and agreement on proceeding with development and evaluations of the proposed shortlisted options.

ENGINEER will develop conceptual design criteria and calculate lifecycle costs, including capital, operations, maintenance, and present worth, to support the evaluation of each alternative. The following are major subtasks:

- Design criteria including process flow diagrams (PFDs) with mass and energy balances, as appropriate;
- Solids handling and processing equipment requirements for each alternative;
- Projected chemical consumption and utility requirements;
- Developing site layouts; and
- Alternatives cost development including operational and maintenance costs (chemical usage, transportation, gas production, etc.), and capital improvements to develop a life cycle cost.

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Further, alternatives evaluated may consider centralized biosolids treatment, partnership with other organizations or neighboring utilities, nutrient recovery strategies (including planning-level/baseline side stream loading modeling), and energy recovery options as part of the analysis as necessary.

Following the alternatives development, ENGINEER will preliminarily score each alternative based on the feedback received from OWNER and with respect to QBL criteria (see Subtask 201 for evaluation criteria development) and appropriate weighting factors from prior tasks. This effort will provide a preliminary alternative ranking for OWNER's consideration. For the two top scoring alternatives, ENGINEER will examine how those alternatives are sensitive to key evaluation criteria such as changes to regulatory requirements, increase in life cycle cost, etc. The results of this sensitivity analysis will be used to identify trigger points for phasing approach during the implementation of the solutions.

Subtask 205 Alternatives Evaluation Workshop: ENGINEER will then conduct an Alternatives Evaluation Workshop with OWNER to review the results from the final development and evaluation of alternatives. This will be a maximum 3-hr, hybrid in-person / virtual meeting and attended by up to five (5) of the ENGINEER's professionals. Results of QBL analyses will be presented and discussed. Information will be summarized in a PowerPoint presentation for use in the workshop. Feedback from the OWNER will be used to adjust the evaluation accordingly.

Deliverables:

- Meeting Agendas
- Draft/Final Meeting Minutes including presentation slides

Subtask 206 Solution Development and Evaluation Technical Memorandum: The work completed as part of Subtask 202 through Subtask 205 will be documented in a TM. TM will summarize Subtask 202 and Subtask 203 efforts, including the technologies considered, the basis for the screening and development of alternatives, and the results of the alternatives evaluation under Subtask 204 and Subtask 205. The TM will be submitted in draft for review by and discussion with OWNER. OWNER's comments will be addressed in the Biosolids Master Plan.

Deliverables:

- Draft Solution Development and Evaluation TM

Subtask 207 Technology Witness Trips: ENGINEER shall attend up to two (2) technology witness trips (up to two (2) days each) to facilities utilizing alternative technologies identified during the evaluation, for the purpose of gathering general information related to operations and maintenance. It is assumed that up to two (2) ENGINEER's representatives will attend each trip along with OWNER's representatives. It is further

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assumed that the trips will be within driving distance of OWNER's facilities. If a facility is located beyond a four (4)-hour driving radius, the ENGINEER will utilize personnel from the nearest local office; therefore, airfare expenses are not anticipated.

Task 300. Implementation

Implementation task will define the schedule for key decisions, tasks and identify CIP projects and develop costs.

Subtask 301 Strategy Development: Once a preferred biosolids management strategy is established under Task 200, ENGINEER will conduct additional analysis to better define the program elements and how they will develop over time and changing conditions. These strategy components will be presented for OWNER consideration in a workshop to present the following.

- Operational Strategies – an analysis of staffing requirements and operational costs
- Define funding options – Evaluate potential funding sources and evaluate funding program eligibility based on funding program requirements and elements of the biosolids program.
- Develop performance monitoring framework

This will be a hybrid in-person / virtual meeting and attended by up to five (5) of ENGINEER's professionals.

Subtask 302 Capital Improvements Plan Development: ENGINEER will develop preliminary recommendations for biosolids management, identifying key implementation needs. Based upon both reviews of existing facilities and considering long-term recommended improvements, ENGINEER will develop a phased, operationally focused strategy to incrementally provide 1-5 year, 5-10 year, 10-15 year and 15-20 year improvements to solids management operations.

Detailed projects will be identified based on the findings and discussions from the prior tasks and a preliminary implementation schedule for the projects will be developed to address capacity, regulations, condition, and optimization of the facilities. Preliminary recommendations will be presented in a virtual meeting for OWNER's feedback before further refining implementation plans.

Subtask 303 CIP Cost Estimates: ENGINEER will develop planning level, AACE Class 5, capital cost opinions (in 2027 dollars) and will identify assumptions for the variety of types of improvements that will be recommended as part of the Biosolids Master Plan. Tables will be prepared to summarize cost information for the proposed improvement projects.

ENGINEER will review recent bid tabulations for similar improvement projects constructed by OWNER, other local utilities, and ENGINEER's cost library to develop unit costs for the recommended improvements identified in previous tasks. Encumbrance strategies will be customized to meet OWNER's needs and standards, and broken up between planning / design / construction phases. Additionally, escalation rate will be

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included to adjust cost estimates for long-term projects. Typical escalation rate will be 4.5% annually and will be confirmed with OWNER.

Subtask 304 CIP Project Prioritization and Scheduling: ENGINEER will prioritize the recommended CIP projects, existing CIP projects and assessment recommendations provided by OWNER based on:

- Project Triggers (i.e., capacity, regulatory)
- Asset Condition (Risk/End of Useful Life)
- Cash Flow
- Alternatives Optimization

Subtask 305 CIP Schedule Validation Workshop: A workshop will be conducted with the OWNER's staff to review the projects list. This will be a hybrid in-person / virtual meeting and attended by up to five (5) of ENGINEER's professionals. The justification for each project will be reviewed and discussed. Opinions of probable project cost, the proposed implementation schedule and the project triggers will also be reviewed. During the workshop ENGINEER will also work with OWNER to balance the cash flow.

Subtask 306 Biosolids Master Plan Report: ENGINEER will document the project in a draft Biosolids Master Plan report. The report will summarize the final versions of the various technical memoranda prepared and the outcomes of the various workshops during previous phases of work. The report will describe the evaluations performed and the resulting recommendations. The report will provide recommendations for facility improvements year by year over the 20-year planning horizon. System maps and figures to support the recommendations and summarize the proposed improvements will be provided. One electronic copy of the draft Biosolids Master Plan report will be provided.

A workshop will be held to review the Biosolids Master Plan report and to discuss OWNER comments. This will be a hybrid in-person / virtual meeting and attended by up to five (5) of ENGINEER's professionals. The ENGINEER will prepare agenda and minutes. The minutes prepared for this workshop will be of sufficient detail to capture how and why decisions are made and thoroughly document the decision-making process.

ENGINEER will incorporate comments from the draft report review workshop and update the Biosolids Master Plan report to address these comments. Three hard copies and one electronic copy of the final report will be provided to OWNER.

Deliverables:

- Strategy Development Workshop (agenda and meeting minutes)
- CIP Schedule Validation Workshop (agenda and meeting minutes)
- Biosolids Master Plan Report (Draft and Final)
- Biosolids Master Plan Report Review Workshop (agenda and meeting minutes)

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Task 400. Project Management

Subtask 401 General Project Management and Administration: ENGINEER will provide administration and management of the Project for a period of sixteen (16) months, anticipated to begin in May 2026 through September 2027, including monitoring budget and schedule and developing and overseeing quality assurance and quality control (QA/QC) plan.

Review progress with OWNER. Discuss issues with OWNER as they are noted.

Provide project management to coordinate activities of the project team and to provide overall Project direction to meet OWNER's objectives.

Prepare monthly invoices for ENGINEER's services in a format acceptable to OWNER.

Subtask 402 Progress Meetings: ENGINEER will conduct periodic Project progress meetings (assuming sixteen (16) meetings) with OWNER. It is assumed the progress meetings will be virtual. The purpose of the meetings will be to update OWNER's Project Manager and key team members on completed progress, budget, schedule, and to exchange ideas and information.

Project Deliverables:

- Monthly Invoice and Progress Reports

Task 500. Supplemental Data Collection and Testing Allowance:

During Task 100, or as needed to support OWNER's goals, supplemental testing may be performed, including Specific Oxygen Uptake Rate (SOUR) testing and other related parameters. Services may include development of a testing plan and protocols, on-site support to assist OWNER with testing activities, and analytical support through periodic virtual meetings to review results and data.

A \$100,000 allowance is included to support these efforts. Upon authorization by OWNER and within the limits of the allowance, ENGINEER and OWNER shall mutually define the detailed scope, fee, and schedule for the requested services.

PART 3.0 ADDITIONAL SERVICES

ENGINEER will perform additional services as requested by OWNER. If the need for such services is identified, ENGINEER will prepare an amendment to this Task Order or prepare a new Task Order for OWNER's approval. Additional Services will be performed upon execution of the amendment or new Task Order.

- Additional services shall include, but are not limited to:

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- Changes in the general scope, extent, or character of the project, including, but not limited to:
 - Changes in size or complexity.
 - Changes in project scope.
 - Changes in OWNER’s schedule.
- Permitting assistance.

PART 4.0 OWNER’S RESPONSIBILITIES

OWNER will be responsible for the following activities:

- Provide available data.
- Timely review of deliverables including meeting minutes, TMs, and report. For schedule estimating purposes, it is assumed OWNER review time will be approximately two (2) weeks.
- Participation in meetings.

PART 5.0 PERIODS OF SERVICE

ENGINEER will commence work upon execution of this Task Order. The schedule for completion of the services included in this Task Order will be agreed upon by the OWNER and ENGINEER at the time that the OWNER is ready to proceed with the work. The anticipated schedule is as follows:

Task 100:	4 months
Task 200:	Months 4-10
Task 300:	Months 10-16
Task 400:	Months 0-16

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PART 6.0 PAYMENTS TO ENGINEER

ENGINEER will be compensated for actual work performed on a Per Diem (time and expense) basis, in an amount not to exceed \$1,229,500.00. Payment for fees will be paid monthly based on actual labor time and the hourly billing rates plus project related reimbursable expenses. Funds may be transferred from one task to another without amendment, as long as the total cost is not exceeded.

Task 100:	FRAMEWORK	\$ 395,285.00
Task 200:	SOLUTION DEVELOPMENT AND EVALUATION	\$ 338,854.00
Task 300:	IMPLEMENTATION	\$313,546.00
Task 400:	PROJECT MANAGEMENT	\$81,815.00
Task 500:	SUPPLEMENTAL DATA COLLECTION AND TESTING (ALLOWANCE)	\$100,000.00
	TOTAL	\$1,229,500.00

All Per Diem (hourly fee) work will be charged based upon the personnel classifications performing the work and corresponding hourly rate set forth in the attached hourly and fee breakdown incorporated herein as Attachment A. The Hourly Fee Summary is attached as Attachment B and incorporated herein by reference. Hourly rates are subject to review and adjustment annually. Any adjusted hourly rates shall be subject to mutual agreement by ENGINEER and OWNER.

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This Task Order is executed on _____.

OWNER:

UNION COUNTY, NC

ENGINEER:

BLACK & VEATCH INTERNATIONAL
COMPANY

By: _____

Name: _____

Title: _____

Address: _____

By: _____

Name: _____

Title: _____

Address: _____

Approved as to Legal Form: BTI

This instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act.

Deputy Finance Officer

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Attachment A: Billing Rate Schedule

For the Scope of Services, OWNER will compensate ENGINEER in accordance with the Bill Rate Schedule below, plus Reimbursable Expenses in accordance with Section 6.1.5 of the Agreement. Standard hourly rates are subject to review and adjustment annually. Any adjusted hourly rates shall be subject to mutual agreement by ENGINEER and OWNER. Hourly rates effective on the date of this Agreement are as follows:

HOURLY RATE SCHEDULE	
Effective through December 31, 2026	
Principal/Sr. Project Director	\$360
Discipline Director/Consulting Director	\$350
Principal Engineering Manager	\$350
Principal Discipline Engineer	\$330
Sr. Project Manager	\$310
Sr. Engineering Manager	\$300
Sr Construction Manager	\$295
Sr. Discipline Engineer	\$295
Sr. Env Scientist/Sr Consultant	\$295
Sr Estimator	\$285
Sr. Architect	\$280
Project Manager	\$270
CAD/BIM Tech Director	\$250
Engineering Manager	\$250
Lead Env Scientist/Lead Consultant	\$245
Lead Engineer	\$225
CAD/BIM Tech Coordinator	\$225
Sr Contracts Manager	\$220
Lead Estimator	\$215
Lead Architect	\$210
Field Engineer/Construction Manager	\$205
Sr Associate Engineer - Civil	\$200
CAD/BIM Sr Technician	\$195
Sr Project Controls	\$195
Associate Consultant	\$190
Associate Engineer - Disciplines	\$190
Contract Support	\$190
Lead Resident Inspector	\$190
Associate Engineer - Civil	\$185

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Sr Project Admin	\$180
CAD/BIM Lead Technician	\$170
Graduate Engineer - Disciplines	\$170
Graduate Engineer - Civil	\$165
Lead Finance/Accountant/Biller	\$160
Resident Inspector	\$160
Project Controls	\$150
CAD/BIM Associate Technician	\$145
Sr Clerical	\$145
Jr Graduate Engineer - Civil	\$145
Project Admin	\$140
Associate Finance/Accountant/Biller	\$130
Engineering Intern	\$130
Clerical	\$120

Attachment B: Hourly Fee Summary

		Staffing Summary											Hours	Labor	Expenses & Allowances	Project Total
Client Position		Director	Project Manager	Lead Finance/Accounting/Billing	Project Admin	Project Controls	Sr. Engineering Manager/QC	Associate Engineer - Civil/Mechanical	Principal Process Engineer	Sr. Process Engineer/QC	Associate Engineer - Process	Lead Estimator				
HOURS\COST TOTALS IN USD \$:		68	276	20	56	20	603	553	687	354	1,604	111	4,352			
CONTRACT TOTALS IN USD \$:														\$ 1,111,000	\$ 118,500	\$ 1,229,500
Task	Description															
Task 1	Framework															
1/01	Kickoff Meeting	4	4				4	6	18	2		18	56	\$ 15,509		\$ 15,509
1/02	Data Collection and Review						22	33	36	4		89	184	\$ 44,982		\$ 44,982
1/03	Operations Evaluations		9				64	64	20			40	197	\$ 50,390		\$ 50,390
1/04	Regulatory and Policy Review	1	2				4		18	22		22	69	\$ 19,635		\$ 19,635
1/05	Biosolids Production Forecast						4		9	4		18	35	\$ 9,209		\$ 9,209
1/06	Existing System Assessment		13				18		27			89	147	\$ 36,467		\$ 36,467
1/07	End Use Options/Market Assessment	2	2				6		31	89		178	308	\$ 77,012		\$ 77,012
1/08	Framework Definition Workshop		6				9		36	18		44	113	\$ 31,364		\$ 31,364
1/09	Framework Definition TM		9				33	44	36	49		89	260	\$ 67,132		\$ 67,132
1/10	Assess Regional Opportunities	22	29				4		22	22		33	132	\$ 38,588		\$ 38,588
1/11	Framework Misc. Expenses														\$ 5,000	\$ 5,000
	Task 1 Subtotals	29	74				168	147	253	210		620	1,501	\$ 390,285	\$ 5,000	\$ 395,285
Task 2	Solution Development and Evaluation															
2/01	Development of Screening and Evaluation Criteria		2						7	4		27	40	\$ 9,618		\$ 9,618
2/02	Screening and Evaluation Criteria TM		2				2		7	2		33	46	\$ 10,826		\$ 10,826
2/03	Technology Overview & Screening		2				9		56	27		111	205	\$ 53,314		\$ 53,314
2/04	Technology Screening Workshop		6				9		18	9		18	60	\$ 17,152		\$ 17,152
2/05	Alternatives Identification Workshop		9				9		18			44	80	\$ 20,402		\$ 20,402
2/06	Alternatives Development and Evaluation	4	4				44	111	67	31		222	483	\$ 115,715		\$ 115,715
2/07	Alternatives Evaluation Workshop		6				9		18	9		18	60	\$ 17,152		\$ 17,152
2/08	Solution Development and Evaluation TM		13				33	56	44	31		89	266	\$ 67,856		\$ 67,856
2/09	Solution Dev and Evaluation Misc. Expenses														\$ 6,000	\$ 6,000
2/10	Technology Witness Trips						36	40					76	\$ 19,320	\$ 1,500	\$ 20,820
	Task 2 Subtotals	4	44				151	207	235	113		562	1,316	\$ 331,354	\$ 7,500	\$ 338,854
Task 3	Implementation															
3/01	Strategy Development		13				33		44			67	157	\$ 42,693		\$ 42,693
3/02	Strategy Development Workshop	3	6				9		9	2			29	\$ 9,377		\$ 9,377
3/03	CIP Development	2	22				67	111	27			67	296	\$ 72,944		\$ 72,944
3/04	CIP Cost Estimate		2				11		18			44	186	\$ 44,105		\$ 44,105
3/05	CIP Project Prioritization & Scheduling	2	13				56	44	27			44	186	\$ 48,972		\$ 48,972
3/06	CIP Schedule Validation Workshop	3	6				6		9	2			26	\$ 8,432		\$ 8,432
3/07	Biosolids Master Plan Report		13				33	44	18	27		133	268	\$ 63,992		\$ 63,992
3/08	Biosolids Master Plan Report Review Workshop	4	7				9		27			27	74	\$ 21,032		\$ 21,032
3/09	Implementation Misc. Expenses														\$ 2,000	\$ 2,000
	Task 3 Subtotals	14	82				224	199	179	31		382	1,222	\$ 311,546	\$ 2,000	\$ 313,546
Task 4	PM&A															
4/01	General PM&A	10	56	20	56	20	20						182	\$ 40,593		\$ 40,593
4/02	Progress Meetings	11	20				40		20			40	131	\$ 37,223		\$ 37,223
4/03	PM&A Misc. Expenses														\$ 4,000	\$ 4,000
	Task 4 Subtotals	21	76	20	56	20	60		20			40	313	\$ 77,816	\$ 4,000	\$ 81,816
Task 5	Supplemental Data Collection and Testing (Allowance)															
5/01	Supplemental Data Collection and Testing Allowance														\$ 100,000	\$ 100,000
	Task 5 Subtotals														\$ 100,000	\$ 100,000