

Design Partial and Temporary Closure of Cell 2 and Evaluate the Gas Collection and Control  
System (GCCS)

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This Indian River County (IRC) Landfill Work Order Number \_\_\_\_ is entered into as of this \_\_\_\_ day of \_\_\_\_\_, 202\_\_, in accordance with FS 287.055, Consultant's Competitive Negotiation Act per the Request for Qualification #2023031 for Engineering Consulting Services for Landfill Closure, Landfill Gas System Expansion, and Cell Construction, dated April 4, 2023 (referred to as the "Agreement"), by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida ("COUNTY") and Geosyntec Consultants, Inc. ("Consultant").

The COUNTY has selected the Consultant to perform the professional services set forth on Exhibit A (Scope of Work), attached to this Work Order and made part hereof by this reference. The professional services will be performed by the Consultant for the fee schedule set forth in Exhibit B (Fee Schedule), attached to this Work Order and made a part hereof by this reference. The Consultant will perform the professional services within the timeframe more particularly set forth in Exhibit C (Time Schedule), attached to this Work Order and made a part hereof by this reference all in accordance with the terms and provisions set forth in the Agreement. Pursuant to Section 1 of the Agreement, nothing contained in any Work Order shall conflict with the terms of the Agreement and the terms of the Agreement shall be deemed to be incorporated in each individual Work Order as if fully set forth herein.

IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the date first written above.

**CONSULTANT:****Geosyntec Consultants, Inc.****BOARD OF COUNTY COMMISSIONERS  
OF INDIAN RIVER COUNTY****By:** \_\_\_\_\_**Print Name:** Todd Kafaka**Title:** Vice President**By:** \_\_\_\_\_**Deryl Loar, Chairman****BCC Approved Date:** \_\_\_\_\_**Attest: Ryan L. Butler, Clerk of Court and Comptroller****By:** \_\_\_\_\_**Deputy Clerk****Approved:** \_\_\_\_\_**John A. Titkanich, Jr., County Administrator****Approved as to form and legal sufficiency:** \_\_\_\_\_**Christopher Hicks, Assistant, County Attorney**

EXHIBIT A

PROFESSIONAL SERVICES

21 November 2025

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

**Subject: Proposal to Design Partial and Temporary Closure of Cell 2 and  
Evaluate the Gas Collection and Control System (GCCS)  
Indian River County (IRC) Class I Landfill and C&D Disposal Facility  
Vero Beach, Indian River County, Florida**

Dear Mr. Mehta:

Geosyntec Consultants, Inc. (Geosyntec) is submitting this proposal to the Indian River County (IRC) Solid Waste Disposal District (SWDD) to provide professional services pertaining to the partial (north face) and temporary (south face) closure of Cell 2 and the evaluation and optimization of the gas collection and control system (GCCS) for the Class I Landfill at the IRC Landfill (IRCL) facility located in Vero Beach, Indian River County, Florida. The proposal presents the scope of work, schedule, and budget estimate for the task. The proposal was prepared in response to a meeting on October 28, 2025 between Geosyntec and IRC Solid Waste Disposal District (SWDD).

The remainder of this proposal presents: (i) project background; (ii) proposed scope of work; (iii) anticipated schedule; and (iv) budget estimate.

**PROPOSED SCOPE OF WORK**

For budgeting purposes, the proposed scope of work has been divided into the following phases:

- Phase 1 – General Consulting/Meeting Support/Project Management;
- Phase 2 – Closure Alternative Evaluation, Costing, and Selection;
- Phase 3 – Closure of Cell 2;
- Phase 4 – FDEP Engagement and Permit Modification;
- Phase 5 – Assessment of Existing GCCS;
- Phase 6 – Wellfield Evaluation;
- Phase 7 – Future Wellfield Expansion Evaluation; and
- Phase 8 – Miscellaneous Engineering Support Services.

## **Phase 1: General Consulting/Meeting Support/Project Management**

Phase 1 consists of three components: general consulting, meeting support, updating the site health and safety plan, and project management. Geosyntec will provide SWDD with consulting services necessary to initiate the project. Geosyntec will prepare presentation graphics, engineering drawings, and other documents required to support the Project's meetings and coordination activities.

A kickoff meeting with SWDD is proposed before the start of project activities so that the specific project requirements can be discussed. If required by SWDD, Geosyntec will prepare for and attend a meeting with the SWDD Board to explain the project scope and budget requirements. In addition, review meetings will be held with SWDD during the various phases of the project implementation schedule. Following each meeting, Geosyntec will prepare meeting minutes that document decisions reached in the meetings.

Project management activities will include: budget and schedule tracking, invoice review, and project communications, including the preparation of a monthly progress report. The project report will include a description of the activities completed during the month and planned activities for the following month. In addition, the progress report will identify any technical or administrative issues that require SWDD's attention and the current status of the budget and schedule.

For the purpose of this budget estimate, Geosyntec has included three meetings under Phase 1: (i) one kickoff meeting with SWDD; (ii) one meeting with the SWDD Board, if requested by SWDD; and (iii) one meeting with SWDD at the completion of Phase 7 of the Project. Additional meetings are addressed in the remaining phases of this proposal.

## **Phase 2: Closure Alternative Evaluation, Costing, and Selection**

This phase will include a comparative evaluation of up to three closure alternatives, assumed to include a conventional cap (geomembrane plus two feet of vegetated cover soil), ClosureTurf® final cover system, and an alternative cap that utilizes geosynthetic clay liner (GCL) material instead of geomembrane.

The closure alternative evaluation will consider, at a minimum, the following criteria: environmental protection and impacts, regulatory consistency, cost, schedule, and constructability. Geosyntec will summarize the evaluation criteria above in a brief memorandum and meet with IRC SWDD to review and develop a final ranking of the options presented. Geosyntec anticipates the preferred closure method will be identified following the meeting with IRC SWDD.

### **Phase 3: Closure of Cell 2**

Phase 2 of this Project includes activities necessary to design a closure system for Cell 2, consisting of an approximately 8.5-acre partial final closure area along the northern-facing slope and an approximately 11.1-acre temporary closure along the southern/southwestern facing slope. Geosyntec will subcontract Peavey Surveying to complete the existing conditions survey of the identified closure locations.

The initial step in the closure design, Geosyntec will perform a preliminary stormwater evaluation to compare pre- versus post-capping stormwater runoff and function of the existing facility stormwater management system. A brief memorandum will be prepared and submitted to IRC SWDD documenting the preliminary stormwater evaluation approach, assumptions, and results. While the stormwater evaluation will also serve to guide design of the stormwater management system design for the proposed final cover system, we do not anticipate generating a formal set of calculations that would be required for an Environmental Resource Permit (ERP) application. No ERP modification application is anticipated or assumed as part of the proposed scope of work. We assume that a brief teleconference will be held with IRC SWDD to discuss the stormwater evaluation summary memo.

Geosyntec will prepare a draft set of closure design plan drawings. The drawings will depict preliminary grading to prepare for placement of cover system materials, proposed gas management features, proposed stormwater features (e.g., final cover drainage berms, down chutes) and modifications to existing stormwater features (e.g., stormwater detention ponds and perimeter drainage channels), if necessary. Details required to prepare subgrade, install cover system components, and construct stormwater management features will also be developed as a part of the draft design. The draft closure design drawings are assumed to include the following sheets:

1. Title Sheet;
2. General Notes;
3. Existing Site Conditions;
4. Subgrade Grading Plan;
5. Gas Management Plan;
6. Top of Final Cover Grading Plan;
7. Stormwater Management Plan;
8. Final Cover Details;
9. Gas Management Details; and
10. Stormwater Management Details.

Geosyntec will provide the draft closure design drawings to IRC SWDD for review and schedule a meeting to discuss comments. Geosyntec will incorporate feedback from IRC SWDD to develop permit level design drawings for submittal to FDEP with the closure permit application.

#### **Phase 4: FDEP Engagement and Permit Modification**

A virtual pre-closure meeting will be scheduled with FDEP Central District to discuss the preliminary and temporary closure design and requirements and potential permit modifications. Two Geosyntec staff will attend the meeting. If necessary, we assume a permit modification application will include the following components;

- Cover letter and Engineering Report;
- FDEP permit modification application Form 62-701.900(1), F.A.C (If required);
- Design Calculations;
  - If ClosureTurf<sup>®</sup> is selected the following technical documentation will need to be prepared to complete a permit modification (For budgeting purposes these design calculations were included in this budget):
    - Cover veneer slope stability analysis to demonstrate that the product provides an adequate factor of safety against sliding (veneer) failure along the plane of the geosynthetics.
      - As part of this analysis, Geosyntec has assumed that one series of interface friction tests (i.e., three tests, each run at different applied stresses) will be performed using site-specific soils and a 12"x12" sample of the ClosureTurf<sup>™</sup> product to develop an interface shear strength for use in design.
    - Landfill gas uplift evaluation to demonstrate that slope stability can be maintained in the presence of potential gas pressure buildup beneath the ClosureTurf<sup>™</sup>.
      - As part of this evaluation, Geosyntec has assumed effort to collect three rounds of gas pressure measurements at each of the gas stub-out locations within the partial closure area along the west and southern sideslopes of Cells 1 and 2.
    - Wind uplift analysis.
    - Transmissivity evaluation to demonstrate equivalence with the currently permitted geocomposite drainage layer.

- HELP model analysis to demonstrate that the design leachate head over the liner is equal or less than the permitted (prescribed) final cover system.
  - Soil erosion analysis to evaluate the rate of loss of the sand ballast layer used in the ClosureTurf™ product.
  - Weathering resistance evaluation to demonstrate that the exposed artificial turf component of ClosureTurf will retain sufficient strength over the course of the SCMM facility closure period.
- Permit level drawings;
  - Technical Specifications and Construction Quality Assurance (CQA) Plan. For the purpose of defining scope, the technical specifications and corresponding CQA Plan are assumed to include the following components:
    - Surveying;
    - Clearing and Grubbing;
    - Earthwork;
    - Trenching and Backfilling;
    - Riprap;
    - Sediment and Erosion Control;
    - Storm Water Conveyances;
    - Geotextiles;
    - Geocomposite;
    - Geomembrane;
    - Synthetic Turf System (if ClosureTurf® option is selected);
    - Geosynthetic Clay Liner (if a GCL is used in the final cover system);
    - Interface Friction Conformance Testing;
    - Vegetative Layer; and
    - Vegetation.
  - We assume the closure operation plan requirements will be discussed in the Engineering Report;
  - Based on input from IRC SWDD, we understand that Financial Assurance Cost Estimate Calculations are not required for this permit application submittal if the traditional closure design is chosen. If Closure Turf is determined to be used an update to the FACE will be required and is not considered a part of this proposal; and
  - Regarding a Long-Term Care Plan, we understand that the permit application will be for closure only and that long-term care requirements currently in place for the facility will be modified subsequently, under a separate scope of work, if necessary.

Geosyntec will provide one electronic copy of the draft permit application package to IRC SWDD for review. Following receipt of comments from IRC SWDD on the draft documents, Geosyntec will produce an electronic copy of the final permit application for submittal to FDEP and IRC SWDD. Geosyntec has assumed IRC SWDD will pay any fees associated with a permit modification in accordance with paragraph 62-701.315(3)(a), F.A.C. for Class I landfills.

No effort is assumed for responses to Request for Additional Information (RAIs) at this time. The level of effort required for RAI responses will be evaluated upon receipt of RAIs and a separate budget addendum will be developed based on the anticipated responses.

### **Phase 5: Assessment of Existing GCCS**

A thorough understanding of the functionality of the existing GCCS is crucial to SWDD's satisfaction of gas quantity and quality targets for the overall GCCS and RNG facility operational objectives. Geosyntec recommends that a GCCS assessment be performed to benchmark the current operational status of the GCCS. The information gleaned from this assessment will be critical to identifying underperforming areas of the GCCS and optimizing performance of the existing system. As such, Geosyntec's scope of services for this task will include a combination of in-field data collection and office-based data interpretation and modeling.

Members of Geosyntec's team will visit the site and perform a review of the existing GCCS. This will include the following in-field services:

- Kickoff meeting to discuss the objectives and logistics associated with the field work. It is assumed that Nopetro and SWDD staff will attend the meeting to provide information regarding operation of the GCCS wellfield and flare;
- visual inspection of each vertical well for damage, subsidence, leakage, compromised operation, and other observable conditions;
- water level measurements in each accessible vertical gas collection well, including a sounding of the total well depth;
- vertical well proofing to assess verticality and accessibility of the well casing;
- identification of the solid casing/screen transition in each accessible well; and
- a site-wide Sniffer DRONE flyover to capture methane emissions data at the surface of the landfill. Sniffer Robotics, Inc. will perform the flyover and provide the following deliverables:
  - Leak source location report that provides locations where methane emissions would exceed minimum thresholds for remediation if inspected in accordance with USEPA Method 21 methods.



- Map depicting ground-level methane emission concentrations.
- Estimated fugitive gas emissions for the landfill. Corresponding methane emissions estimates will be provided in terms of gas flow (e.g., standard cubic feet per minute).
- Wellfield Action Plan and Emissions Mitigation Report

In addition to the data collected, we will request that SWDD provide the following information at least two weeks prior to the start of our field activities:

- historic well construction logs for each landfill gas (LFG) well;
- topographic site-wide survey, in AutoCAD, with the location of each GCCS well, leachate riser, or other LFG extraction device as well as piping schematics;
- copies of the past six months of data from GCCS monitoring and tuning events (in Excel-compatible format, if possible);
- liquid level measurements within the landfill for the past six months, if available;
- gas generation or other GCCS performance reports (e.g., flare operating records); and
- operation and maintenance reports for routine repairs and maintenance and repairs to the GCCS.

In addition to these services, Geosyntec's field personnel will meet with SWDD staff to obtain a better understanding of the current GCCS operational goals and challenges. This meeting may be a part of the kickoff meeting and/or as anecdotal conversations during the wellfield inspection and data collection.

Based on the assumption that the in-field assessment will need to start by the end of June, Geosyntec is proposing to utilize subcontractors, B&M Excavating LLC and Sniffer, to perform the field work.

## **Phase 6: Wellfield Evaluation**

Geosyntec will provide an evaluation of the current well conditions in Segment 1, Segment 2 and Cell 1 of Segment 3 based on the site investigation of Phase 5. This evaluation is intended to identify potential issues with wells that are either damaged or non-functional and propose their rehabilitation, replacement or removal for optimization purposes. Replacement or enhancement of pumping system components will also be proposed as applicable. In addition, installation of newer wells might also be proposed to optimize performance. The evaluation would also include the analysis of well influence areas to identify if the GCCS wellfield may benefit from a denser configuration.

Following the collection of the in-field data, Geosyntec will perform data interpretation and modeling including:

- summarizing field data into spreadsheets and tables;
- develop a 3D data visualization figure that provides an illustrative depiction of methane and oxygen content at each wellhead and interpreted distribution across the landfill, methane distribution, in-landfill liquid levels, and well locations with screen intervals (as possible); and
- submission of a brief memo summarizing the data, presenting the 3D visualization model, data tables, and preliminary recommendations regarding current GCCS operation and short to mid-term enhancements to improve gas quality and quantity.

Following submission of the memo, Geosyntec will schedule a meeting, via Teams, to review the memo with Nopetro and SWDD. The purpose of the meeting will be to discuss the results of the field assessment; project objectives; development of a prioritized list of repairs, upgrades, or other recommendations; and development of forward-looking goals pertaining to the GCCS design.

### **Phase 7: Future Wellfield Expansion Evaluation**

Geosyntec will provide an evaluation of the permitted Segment 3 expansion GCCS system that has not yet been installed for Cells 2 thru Cell 8. This would include analyzing the individual influence areas and checking if further densification of the well network is needed for the proposed system for Segment 3.

### **Phase 8: Miscellaneous Engineering Support Services**

This phase is intended to cover the general engineering/consulting services surrounding supplementary tasks involving the various SWDD projects and needs not covered under a specific Phase above. These activities may include, but are not limited to, effort involved with collaboration on behalf of IRC SWDD with Nopetro or SCS, consulting services involving the new infrastructure at the landfill, and analysis/redesign of existing systems..

## BUDGET ESTIMATE

The following assumptions were used by Geosyntec in developing the budget estimate presented below:

- The total project duration will be approximately 6 months from NTP.
- No laboratory expenses are anticipated within this scope of work.
- No construction-phase services are included in this proposed Scope of Work.
- No field programming is included in this proposed Scope of Work.
- Issued For Bid (IFB) Drawings provided to Geosyntec by SWDD (prepared by CDM Smith, dated January 2018) are considered to be current and represent accurate as-built information.
- IRC SWDD review of each Phase's deliverables will be completed within two (2) weeks from submittal, with comments returned to Geosyntec completing the review process.
- All hours worked on the Project will be invoiced at the rates indicated in the detailed budget estimate with no premium charged for overtime.
- Geosyntec will minimize courier fees by exchanging information between IRC SWDD and Geosyntec via e-mail and follow-up by regular mail. However, some express shipments may be unavoidable. Although not included in this budget estimate, shipping or other similar communication fees incurred will be invoiced at cost plus markup in accordance with the rate schedule.
- Geosyntec proposes to provide a rental/company vehicle for use by Geosyntec personnel on site at a daily unit rate of \$150. Due to recent volatility in fuels costs, the daily unit rate for this vehicle does not include the costs of fuel and tolls.

A budget estimate for the scope of work outlined in Phases 1 through 8 of this proposal is summarized below:

Phase 1 – General Consulting/Meeting Support/Project Management	\$ 36,567.24
Phase 2 – Closure Alternative Evaluation, Costing, and Selection	\$ 32,741.70
Phase 3 – Closure of Cell 2	\$122,166.02
Phase 4 – FDEP Engagement and Permit Modification	\$ 59,484.34
Phase 5 – Assessment of Existing GCCS	\$ 85,071.79
Phase 6 – Wellfield Evaluation	\$ 43,888.84
Phase 7 – Future Wellfield Expansion Evaluation	\$ 24,253.30
Phase 8 – Miscellaneous Engineering Support Services	\$ 11,866.25
<b>TOTAL</b>	<b>\$416,039.48</b>

Geosyntec will not exceed the budget estimate without prior approval and written authorization from SWDD.

Mr. Himanshu Mehta, P. E.  
21 November 2025  
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## CLOSURE

Geosyntec appreciates this opportunity to offer our services to IRC. If this proposal is acceptable, please indicate your agreement by signing the attached work authorization, which references this proposal. Please return one signed work authorization to Dr. Timothy Copeland's attention. Please call the undersigned with questions you may have as you review this proposal.

Sincerely,



Craig R. Browne, P.E.<sub>(FL)</sub>  
Principal



Timothy R. Copeland, Ph.D., P.E.<sub>(FL)</sub>  
Project Engineer

**ATTACHMENT 1**

**BUDGET ESTIMATE**

Table 1

**BUDGET ESTIMATE**  
**PARTIAL AND TEMPORARY CLOSURE OF CELL 2**  
**& GAS COLLECTION AND CONTROL SYSTEM (GCCS) EVALUATION**  
**INDIAN RIVER COUNTY LANDFILL**  
**INDIAN RIVER COUNTY, FLORIDA**

**Phase 1: General Consulting/Meeting Support/PM**

ITEM	BASIS	RATE	QUANTITY	ESTIMATED COST
<b>A. Professional Services</b>				
a. Senior Principal	Hr	\$345.00	0	\$0.00
b. Principal	Hr	\$325.00	12	\$3,900.00
c. Senior Professional	Hr	\$300.00	86	\$25,800.00
d. Project Professional	Hr	\$268.00	0	\$0.00
e. Professional	Hr	\$239.00	0	\$0.00
f. Senior Staff Professional	Hr	\$210.00	16	\$3,360.00
g. Staff Professional	Hr	\$185.00	0	\$0.00
<b>Subtotal Professional Services</b>				<b>\$33,060.00</b>
<b>B. Technical/Administrative Services</b>				
a. Site Manager/Construction Manager	Hr	\$174.00	0	\$0.00
b. Senior Engineering Technician	Hr	\$120.00	0	\$0.00
c. Engineering Technician	Hr	\$100.00	0	\$0.00
d. Senior Designer	Hr	\$225.00	0	\$0.00
e. Designer	Hr	\$190.00	0	\$0.00
f. Senior Drafter/Senior CADD Operator	Hr	\$175.00	0	\$0.00
g. Project Administrator	Hr	\$104.00	12	\$1,248.00
h. Clerical	Hr	\$84.00	0	\$0.00
<b>Subtotal Technical/Administrative Services</b>				<b>\$1,248.00</b>
<b>C. Indirect Expenses</b>				
a. Subcontractor Services	Each	\$0.00	1.12	\$0.00
<b>Subcontractor Services</b>				<b>\$0.00</b>
<b>D. Direct Expenses</b>				
a. Lodging	Day	\$150.00	0	\$0.00
b. Per Diem	Day	\$55.00	6	\$330.00
c. Communications Fee	3% Labor	3%	\$34,308	\$1,029.24
d. CADD Computer System	Hr	\$15.00	0	\$0.00
e. Vehicle Rental & Fuel	Day	\$150.00	6	\$900.00
f. 8"x11" Photocopies	Each	\$0.09	0	\$0.00
g. CADD Drawings	Each	\$3.00	0	\$0.00
<b>Subtotal Reimbursables</b>				<b>\$2,259.24</b>
<b>TOTAL ESTIMATED BUDGET : PHASE 1</b>				<b>\$36,567.24</b>

Table 2

**BUDGET ESTIMATE**  
**PARTIAL AND TEMPORARY CLOSURE OF CELL 2**  
**& GAS COLLECTION AND CONTROL SYSTEM (GCCS) EVALUATION**  
**INDIAN RIVER COUNTY LANDFILL**  
**INDIAN RIVER COUNTY, FLORIDA**

**Phase 2: Closure Alternative Evaluation, Costing, and Selection**

ITEM	BASIS	RATE	QUANTITY	ESTIMATED COST
<b>A. Professional Services</b>				
a. Senior Principal	Hr	\$345.00	6	\$2,070.00
b. Principal	Hr	\$325.00	24	\$7,800.00
c. Senior Professional	Hr	\$300.00	36	\$10,800.00
d. Project Professional	Hr	\$268.00	40	\$10,720.00
e. Professional	Hr	\$239.00	0	\$0.00
f. Senior Staff Professional	Hr	\$210.00	0	\$0.00
g. Staff Professional	Hr	\$185.00	0	\$0.00
<b>Subtotal Professional Services</b>				<b>\$31,390.00</b>
<b>B. Technical/Administrative Services</b>				
a. Site Manager/Construction Manager	Hr	\$174.00	0	\$0.00
b. Senior Engineering Technician	Hr	\$120.00	0	\$0.00
c. Engineering Technician	Hr	\$100.00	0	\$0.00
d. Senior Designer	Hr	\$225.00	0	\$0.00
e. Designer	Hr	\$190.00	0	\$0.00
f. Senior Drafter/Senior CADD Operator	Hr	\$175.00	0	\$0.00
g. Project Administrator	Hr	\$104.00	0	\$0.00
h. Clerical	Hr	\$84.00	0	\$0.00
<b>Subtotal Technical/Administrative Services</b>				<b>\$0.00</b>
<b>C. Indirect Expenses</b>				
a. Subcontractor Services	Each	\$0.00	1.12	\$0.00
<b>Subcontractor Services</b>				<b>\$0.00</b>
<b>D. Direct Expenses</b>				
a. Lodging	Day	\$150.00	0	\$0.00
b. Per Diem	Day	\$55.00	2	\$110.00
c. Communications Fee	3% Labor	3%	\$31,390	\$941.70
d. CADD Computer System	Hr	\$15.00	0	\$0.00
e. Vehicle Rental & Fuel	Day	\$150.00	2	\$300.00
f. 8"x11" Photocopies	Each	\$0.09	0	\$0.00
g. CADD Drawings	Each	\$3.00	0	\$0.00
<b>Subtotal Reimbursables</b>				<b>\$1,351.70</b>
<b>TOTAL ESTIMATED BUDGET : PHASE 2</b>				<b>\$32,741.70</b>

Table 3

**BUDGET ESTIMATE**  
**PARTIAL AND TEMPORARY CLOSURE OF CELL 2**  
**& GAS COLLECTION AND CONTROL SYSTEM (GCCS) EVALUATION**  
**INDIAN RIVER COUNTY LANDFILL**  
**INDIAN RIVER COUNTY, FLORIDA**

**Phase 3: Closure of Cell 2**

ITEM	BASIS	RATE	QUANTITY	ESTIMATED COST
<b>A. Professional Services</b>				
a. Senior Principal	Hr	\$345.00	12	\$4,140.00
b. Principal	Hr	\$325.00	30	\$9,750.00
c. Senior Professional	Hr	\$300.00	68	\$20,400.00
d. Project Professional	Hr	\$268.00	44	\$11,792.00
e. Professional	Hr	\$239.00	108	\$25,812.00
f. Senior Staff Professional	Hr	\$210.00	44	\$9,240.00
g. Staff Professional	Hr	\$185.00	0	\$0.00
<b>Subtotal Professional Services</b>				<b>\$81,134.00</b>
<b>B. Technical/Administrative Services</b>				
a. Site Manager/Construction Manager	Hr	\$174.00	0	\$0.00
b. Senior Engineering Technician	Hr	\$120.00	0	\$0.00
c. Engineering Technician	Hr	\$100.00	0	\$0.00
d. Senior Designer	Hr	\$225.00	136	\$30,600.00
e. Designer	Hr	\$190.00	0	\$0.00
f. Senior Drafter/Senior CADD Operator	Hr	\$175.00	0	\$0.00
g. Project Administrator	Hr	\$104.00	0	\$0.00
h. Clerical	Hr	\$84.00	0	\$0.00
<b>Subtotal Technical/Administrative Services</b>				<b>\$30,600.00</b>
<b>C. Indirect Expenses</b>				
a. Subcontractor Services (Peavey)	Each	\$4,500.00	1.12	\$5,040.00
<b>Subcontractor Services</b>				<b>\$5,040.00</b>
<b>D. Direct Expenses</b>				
a. Lodging	Day	\$150.00	0	\$0.00
b. Per Diem	Day	\$55.00	0	\$0.00
c. Communications Fee	3% Labor	3%	\$111,734	\$3,352.02
d. CADD Computer System	Hr	\$15.00	136	\$2,040.00
e. Vehicle Rental & Fuel	Day	\$150.00	0	\$0.00
f. 8"x11" Photocopies	Each	\$0.09	0	\$0.00
g. CADD Drawings	Each	\$3.00	0	\$0.00
<b>Subtotal Reimbursables</b>				<b>\$5,392.02</b>
<b>TOTAL ESTIMATED BUDGET : PHASE 3</b>				<b>\$122,166.02</b>



Table 4

**BUDGET ESTIMATE**  
**PARTIAL AND TEMPORARY CLOSURE OF CELL 2**  
**& GAS COLLECTION AND CONTROL SYSTEM (GCCS) EVALUATION**  
**INDIAN RIVER COUNTY LANDFILL**  
**INDIAN RIVER COUNTY, FLORIDA**

**Phase 4: FDEP Engagement and Permit Modification**

ITEM	BASIS	RATE	QUANTITY	ESTIMATED COST
<b>A. Professional Services</b>				
a. Senior Principal	Hr	\$345.00	8	\$2,760.00
b. Principal	Hr	\$325.00	34	\$11,050.00
c. Senior Professional	Hr	\$300.00	16	\$4,800.00
d. Project Professional	Hr	\$268.00	36	\$9,648.00
e. Professional	Hr	\$239.00	0	\$0.00
f. Senior Staff Professional	Hr	\$210.00	72	\$15,120.00
g. Staff Professional	Hr	\$185.00	0	\$0.00
<b>Subtotal Professional Services</b>				<b>\$43,378.00</b>
<b>B. Technical/Administrative Services</b>				
a. Site Manager/Construction Manager	Hr	\$174.00	0	\$0.00
b. Senior Engineering Technician	Hr	\$120.00	0	\$0.00
c. Engineering Technician	Hr	\$100.00	0	\$0.00
d. Senior Designer	Hr	\$225.00	60	\$13,500.00
e. Designer	Hr	\$190.00	0	\$0.00
f. Senior Drafter/Senior CADD Operator	Hr	\$175.00	0	\$0.00
g. Project Administrator	Hr	\$104.00	0	\$0.00
h. Clerical	Hr	\$84.00	0	\$0.00
<b>Subtotal Technical/Administrative Services</b>				<b>\$13,500.00</b>
<b>C. Indirect Expenses</b>				
a. Subcontractor Services	Each	\$0.00	1.12	\$0.00
<b>Subcontractor Services</b>				<b>\$0.00</b>
<b>D. Direct Expenses</b>				
a. Lodging	Day	\$150.00	0	\$0.00
b. Per Diem	Day	\$55.00	0	\$0.00
c. Communications Fee	3% Labor	3%	\$56,878	\$1,706.34
d. CADD Computer System	Hr	\$15.00	60	\$900.00
e. Vehicle Rental & Fuel	Day	\$150.00	0	\$0.00
f. 8"x11" Photocopies	Each	\$0.09	0	\$0.00
g. CADD Drawings	Each	\$3.00	0	\$0.00
<b>Subtotal Reimbursables</b>				<b>\$2,606.34</b>
<b>TOTAL ESTIMATED BUDGET : PHASE 4</b>				<b>\$59,484.34</b>

Table 5

**BUDGET ESTIMATE**  
**PARTIAL AND TEMPORARY CLOSURE OF CELL 2**  
**& GAS COLLECTION AND CONTROL SYSTEM (GCCS) EVALUATION**  
**INDIAN RIVER COUNTY LANDFILL**  
**INDIAN RIVER COUNTY, FLORIDA**

**Phase 5: Assessment of Existing GCCS**

ITEM	BASIS	RATE	QUANTITY	ESTIMATED COST
<b>A. Professional Services</b>				
a. Senior Principal	Hr	\$345.00	0	\$0.00
b. Principal	Hr	\$325.00	34	\$11,050.00
c. Senior Professional	Hr	\$300.00	8	\$2,400.00
d. Project Professional	Hr	\$268.00	0	\$0.00
e. Professional	Hr	\$239.00	5	\$1,195.00
f. Senior Staff Professional	Hr	\$210.00	16	\$3,360.00
g. Staff Professional	Hr	\$185.00	0	\$0.00
<b>Subtotal Professional Services</b>				<b>\$18,005.00</b>
<b>B. Technical/Administrative Services</b>				
a. Site Manager/Construction Manager	Hr	\$174.00	0	\$0.00
b. Senior Engineering Technician	Hr	\$120.00	0	\$0.00
c. Engineering Technician	Hr	\$100.00	0	\$0.00
d. Senior Designer	Hr	\$225.00	0	\$0.00
e. Designer	Hr	\$190.00	0	\$0.00
f. Senior Drafter/Senior CADD Operator	Hr	\$175.00	0	\$0.00
g. Project Administrator	Hr	\$104.00	2	\$208.00
h. Clerical	Hr	\$84.00	0	\$0.00
<b>Subtotal Technical/Administrative Services</b>				<b>\$208.00</b>
<b>C. Indirect Expenses</b>				
a. Subcontractor Services (B&M)	Each	\$41,882.50	1.12	\$46,908.40
a. Subcontractor Services (Sniffer)	Each	\$17,325.00	1.12	\$19,404.00
<b>Subcontractor Services</b>				<b>\$66,312.40</b>
<b>D. Direct Expenses</b>				
a. Lodging	Day	\$150.00	0	\$0.00
b. Per Diem	Day	\$55.00	0	\$0.00
c. Communications Fee	3% Labor	3%	\$18,213	\$546.39
d. CADD Computer System	Hr	\$15.00	0	\$0.00
e. Vehicle Rental & Fuel	Day	\$150.00	0	\$0.00
f. 8"x11" Photocopies	Each	\$0.09	0	\$0.00
g. CADD Drawings	Each	\$3.00	0	\$0.00
<b>Subtotal Reimbursables</b>				<b>\$546.39</b>
<b>TOTAL ESTIMATED BUDGET : PHASE 5</b>				<b>\$85,071.79</b>

Table 6

**BUDGET ESTIMATE**  
**PARTIAL AND TEMPORARY CLOSURE OF CELL 2**  
**& GAS COLLECTION AND CONTROL SYSTEM (GCCS) EVALUATION**  
**INDIAN RIVER COUNTY LANDFILL**  
**INDIAN RIVER COUNTY, FLORIDA**

**Phase 6: Wellfield Evaluation**

ITEM	BASIS	RATE	QUANTITY	ESTIMATED COST
<b>A. Professional Services</b>				
a. Senior Principal	Hr	\$345.00	0	\$0.00
b. Principal	Hr	\$325.00	24	\$7,800.00
c. Senior Professional	Hr	\$300.00	4	\$1,200.00
d. Project Professional	Hr	\$268.00	72	\$19,296.00
e. Professional	Hr	\$239.00	4	\$956.00
f. Senior Staff Professional	Hr	\$210.00	16	\$3,360.00
g. Staff Professional	Hr	\$185.00	0	\$0.00
<b>Subtotal Professional Services</b>				<b>\$32,612.00</b>
<b>B. Technical/Administrative Services</b>				
a. Site Manager/Construction Manager	Hr	\$174.00	0	\$0.00
b. Senior Engineering Technician	Hr	\$120.00	0	\$0.00
c. Engineering Technician	Hr	\$100.00	0	\$0.00
d. Senior Designer	Hr	\$225.00	40	\$9,000.00
e. Designer	Hr	\$190.00	0	\$0.00
f. Senior Drafter/Senior CADD Operator	Hr	\$175.00	0	\$0.00
g. Project Administrator	Hr	\$104.00	4	\$416.00
h. Clerical	Hr	\$84.00	0	\$0.00
<b>Subtotal Technical/Administrative Services</b>				<b>\$9,416.00</b>
<b>C. Indirect Expenses</b>				
a. Subcontractor Services	Each	\$0.00	1.12	\$0.00
<b>Subcontractor Services</b>				<b>\$0.00</b>
<b>D. Direct Expenses</b>				
a. Lodging	Day	\$150.00	0	\$0.00
b. Per Diem	Day	\$55.00	0	\$0.00
c. Communications Fee	3% Labor	3%	\$42,028	\$1,260.84
d. CADD Computer System	Hr	\$15.00	40	\$600.00
e. Vehicle Rental & Fuel	Day	\$150.00	0	\$0.00
f. 8"x11" Photocopies	Each	\$0.09	0	\$0.00
g. CADD Drawings	Each	\$3.00	0	\$0.00
<b>Subtotal Reimbursables</b>				<b>\$1,860.84</b>
<b>TOTAL ESTIMATED BUDGET : PHASE 6</b>				<b>\$43,888.84</b>

Table 7

**BUDGET ESTIMATE**  
**PARTIAL AND TEMPORARY CLOSURE OF CELL 2**  
**& GAS COLLECTION AND CONTROL SYSTEM (GCCS) EVALUATION**  
**INDIAN RIVER COUNTY LANDFILL**  
**INDIAN RIVER COUNTY, FLORIDA**

**Phase 7: Future Wellfield Expansion Evaluation**

ITEM	BASIS	RATE	QUANTITY	ESTIMATED COST
<b>A. Professional Services</b>				
a. Senior Principal	Hr	\$345.00	0	\$0.00
b. Principal	Hr	\$325.00	8	\$2,600.00
c. Senior Professional	Hr	\$300.00	0	\$0.00
d. Project Professional	Hr	\$268.00	20	\$5,360.00
e. Professional	Hr	\$239.00	0	\$0.00
f. Senior Staff Professional	Hr	\$210.00	40	\$8,400.00
g. Staff Professional	Hr	\$185.00	0	\$0.00
<b>Subtotal Professional Services</b>				<b>\$16,360.00</b>
<b>B. Technical/Administrative Services</b>				
a. Site Manager/Construction Manager	Hr	\$174.00	0	\$0.00
b. Senior Engineering Technician	Hr	\$120.00	0	\$0.00
c. Engineering Technician	Hr	\$100.00	0	\$0.00
d. Senior Designer	Hr	\$225.00	30	\$6,750.00
e. Designer	Hr	\$190.00	0	\$0.00
f. Senior Drafter/Senior CADD Operator	Hr	\$175.00	0	\$0.00
g. Project Administrator	Hr	\$104.00	0	\$0.00
h. Clerical	Hr	\$84.00	0	\$0.00
<b>Subtotal Technical/Administrative Services</b>				<b>\$6,750.00</b>
<b>C. Indirect Expenses</b>				
a. Subcontractor Services	Each	\$0.00	1.12	\$0.00
<b>Subcontractor Services</b>				<b>\$0.00</b>
<b>D. Direct Expenses</b>				
a. Lodging	Day	\$150.00	0	\$0.00
b. Per Diem	Day	\$55.00	0	\$0.00
c. Communications Fee	3% Labor	3%	\$23,110	\$693.30
d. CADD Computer System	Hr	\$15.00	30	\$450.00
e. Vehicle Rental & Fuel	Day	\$150.00	0	\$0.00
f. 8"x11" Photocopies	Each	\$0.09	0	\$0.00
g. CADD Drawings	Each	\$3.00	0	\$0.00
<b>Subtotal Reimbursables</b>				<b>\$1,143.30</b>
<b>TOTAL ESTIMATED BUDGET : PHASE 7</b>				<b>\$24,253.30</b>

Table 8

**BUDGET ESTIMATE**  
**PARTIAL AND TEMPORARY CLOSURE OF CELL 2**  
**& GAS COLLECTION AND CONTROL SYSTEM (GCCS) EVALUATION**  
**INDIAN RIVER COUNTY LANDFILL**  
**INDIAN RIVER COUNTY, FLORIDA**

**Phase 8: Miscellaneous Engineering Support Services**

ITEM	BASIS	RATE	QUANTITY	ESTIMATED COST
<b>A. Professional Services</b>				
a. Senior Principal	Hr	\$345.00	0	\$0.00
b. Principal	Hr	\$325.00	5	\$1,625.00
c. Senior Professional	Hr	\$300.00	25	\$7,500.00
d. Project Professional	Hr	\$268.00	0	\$0.00
e. Professional	Hr	\$239.00	0	\$0.00
f. Senior Staff Professional	Hr	\$210.00	0	\$0.00
g. Staff Professional	Hr	\$185.00	0	\$0.00
<b>Subtotal Professional Services</b>				<b>\$9,125.00</b>
<b>B. Technical/Administrative Services</b>				
a. Site Manager/Construction Manager	Hr	\$174.00	0	\$0.00
b. Senior Engineering Technician	Hr	\$120.00	0	\$0.00
c. Engineering Technician	Hr	\$100.00	0	\$0.00
d. Senior Designer	Hr	\$225.00	10	\$2,250.00
e. Designer	Hr	\$190.00	0	\$0.00
f. Senior Drafter/Senior CADD Operator	Hr	\$175.00	0	\$0.00
g. Project Administrator	Hr	\$104.00	0	\$0.00
h. Clerical	Hr	\$84.00	0	\$0.00
<b>Subtotal Technical/Administrative Services</b>				<b>\$2,250.00</b>
<b>C. Indirect Expenses</b>				
a. Subcontractor Services	Each	\$0.00	1.12	\$0.00
<b>Subcontractor Services</b>				<b>\$0.00</b>
<b>D. Direct Expenses</b>				
a. Lodging	Day	\$150.00	0	\$0.00
b. Per Diem	Day	\$55.00	0	\$0.00
c. Communications Fee	3% Labor	3%	\$11,375	\$341.25
d. CADD Computer System	Hr	\$15.00	10	\$150.00
e. Vehicle Rental & Fuel	Day	\$150.00	0	\$0.00
f. 8"x11" Photocopies	Each	\$0.09	0	\$0.00
g. CADD Drawings	Each	\$3.00	0	\$0.00
<b>Subtotal Reimbursables</b>				<b>\$491.25</b>
<b>TOTAL ESTIMATED BUDGET : PHASE 8</b>				<b>\$11,866.25</b>