

Meeting Date
02/17/2015



AGENDA	
Section	Consent
Item No.	II-A.5

AGENDA REPORT
BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS

SUBJECT:	Request Approval of JEA Task Order 12-03 Re: Central Disposal Facility (CDF) South Landfill Cell 1 Construction Engineering Services.
DEPT/OFFICE:	Solid Waste Management Department

Requested Action:

It is requested that the Board of County Commissioners approve Jones Edmunds & Associates, Inc. (JEA) Task Order 12-03 in the amount of \$1,440,675.00 to: (1) provide professional engineering assistance during bidding, contractor selection and Cell 1 landfill construction, as well as perform construction quality assurance for liner installation and (2) authorize the Board Chairman to execute the same.

Summary Explanation & Background:

In 1970, the County's Class I waste operations began at the Central Disposal Facility (CDF) site in Cocoa in the CDF Slurry Wall Landfill. This landfill is expected to reach capacity in 2017. JEA was competitively selected in 2007, as well as 2012 (competitive selection of engineering firms cannot factor in cost) and has been the engineer of record with the Florida Department of Environmental Protection from the beginning of this project. From 2008 through 2014, JEA assisted the County with the design of a new 220 acre South Landfill Class I Expansion landfill to the south of the slurry wall landfill on the CDF property. In 2015 the FDEP issued a modification to the construction and operation permit for an updated design of a 40 acre cell (Cell 1) within the expansion area. This cell will last at least five years before an additional cell must be constructed.

In order to have Cell 1 ready to accept waste by the time the CDF Slurry Wall reaches capacity and sufficient lead time for placement of selected materials it is necessary to begin construction this year for a 40 acre cell in the Southern Expansion Landfill (Cell 1). JEA has prepared the construction drawings for Cell 1 and therefore, is the engineering firm most qualified to oversee the construction of the project.

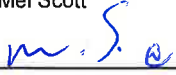

Approval of this agenda item will lead to the construction of the first cell for the County's new CDF Landfill (which will have a projected life of about 25 years). The construction will provide environmental control over the landfill's leachate, stormwater and landfill gas generation. These controls will have a direct impact on the community by preventing the degradation of the ground water, surface water and air quality in the surrounding area; and provide assurance that the landfill will not negatively impact the local environment. In addition, this action could have a positive economic impact by providing additional landfill gas that can be sold to a developer for conversion to a usable energy source, thereby generating future revenues that can offset the costs to local taxpayers of operating the County's Central Disposal Facility.

Fiscal Impact:

Funds for this project have been budgeted under the Board approved Department's five-year CIP and are available in Fund 4013, Cost Center 352150.

Clerk to the Board Instructions: Please sign and attest three (3) copies of JEA's Task Order 12-03 and return two (2) originals to the Department.

Exhibits Attached: Task Order 12-03 (3-copies)

Contract /Agreement (If attached): Reviewed by County Attorney		Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	PR	<input type="checkbox"/>
County Manager	Assistant County Manager, Mel Scott					Department Director: Euripides Rodriguez	
Stockton Whitten							



Tammy Etheridge, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001
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February 18, 2015

M E M O R A N D U M

TO: Euripides Rodriguez, Solid Waste Management Director

RE: Item II.A.5., Task Order No. 12-03 with Jones Edmunds & Associates, Inc. for Central Disposal Facility (CDF) South Landfill Cell 1 Construction Engineering Services

The Board of County Commissioners, in regular session on February 17, 2015, approved Task Order No. 12-03 with Jones Edmunds & Associates, Inc., in the amount of \$1,440,675.00, to:

- 1.) Provide professional engineering assistance during bidding, contractor selection and Cell 1 landfill construction, as well as perform construction quality assurance for liner installation; and
- 2.) Authorized the Chairman to execute the same. Enclosed are two fully-executed Task Orders for your action.

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
SCOTT ELLIS, CLERK

Tammy Etheridge, Deputy Clerk

/ds

Encls. (2)

cc: Contracts Administration
Budget
Finance

**TASK ORDER NUMBER 12-03
FOR THE
PROFESSIONAL ENGINEERING SERVICES AGREEMENT
BREVARD COUNTY SOLID WASTE MANAGEMENT SYSTEM**

CDF SOUTH LANDFILL CELL 1 CONSTRUCTION ENGINEERING SERVICES

**Board of County Commissioners
Solid Waste Management Department**

Jones Edmunds & Associates, Inc.

This TASK ORDER NO. 12-03, dated the 17 day of February, 2015 by and between the BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY, FLORIDA, a political subdivision of the State of Florida, hereinafter referred to as "County," and Jones Edmunds & Associates, Inc., a Florida Corporation, whose local address is 730 NE Waldo Road, Gainesville, Florida 32641, hereinafter referred to as "Consultant," amending that certain Agreement between the parties dated August 16, 2012.

WITNESSETH:

WHEREAS, the County is authorized to construct, acquire, improve, maintain, and operate its Solid Waste Management Facilities in the County; and

WHEREAS, the Solid Waste Management Department is charged with meeting the existing and future solid waste disposal needs of Brevard County; and

WHEREAS, the County desires to operate its Solid Waste Facilities in accordance with State, Federal, and local requirements; and

WHEREAS, the Consultant has experience in the planning, procuring, and preparing of permit applications and in the design, financing, construction administration, and operation of similar systems, facilities, and tasks required; and

WHEREAS, the County has retained the services of the Consultant to provide consulting and engineering services; and

WHEREAS, the County desires the Consultant to help the County with construction engineering services during the construction of the CDF South Landfill Cell 1; and

WHEREAS, the County desires to amend that certain "Agreement" between the parties dated August 16, 2012.

NOW, THEREFORE, in consideration of the premises and mutual promises and conditions contained herein, it is mutually agreed between the parties as follows:

SECTION 1. Scope of Services: The Scope of Services agreed to be performed by the Consultant under the continuing agreement between the parties, dated August 16, 2012, is hereby amended to include the services shown on Attachment 1, attached to this Task Order.

Attachment A-1

Task Order No. 12-03

CDF SOUTH LANDFILL CELL 1 CONSTRUCTION ENGINEERING SERVICES

**Board of County Commissioners
Solid Waste Management Department
Brevard County, Florida**

SCOPE OF SERVICES

January 2015

BACKGROUND

The Brevard County Solid Waste Management Department (SWMD) owns and operates the Central Disposal Facility (CDF) near Cocoa, Florida. The disposal capacity of the existing 192-acre Slurry Wall Landfill is nearly exhausted, and it is projected to reach capacity in September 2017. Landfill operations will move to the CDF South Landfill Expansion before the Slurry Wall Landfill reaches capacity to allow time for transition of operations and select waste filling of the new cell. Jones Edmunds assisted the County with designing, permitting, and preparing bid documents for Cell 1 of the South Landfill Expansion under Task Order 07-05 from 2008 to 2010. However, the project was put on hold for several years due to decreases in waste acceptance rates and the prolonged lifespan of the Slurry Wall Landfill. In 2013 and 2014, Jones Edmunds assisted the County with a value-engineering assessment for the Cell 1 design that identified areas to reduce the capital cost. Jones Edmunds revised the design, submitted a permit modification application to the Florida Department of Environmental Protection (FDEP), and prepared bid documents for the modified South Landfill Cell 1 design as part of Task Order 12-02. FDEP permits SC05-0075133-020-SC-01 and SO05-0075133-021-SO-MM for the construction of the design modification are expected to be issued in January 2015.

The construction of the CDF South Landfill Cell 1 is scheduled to be bid in mid-2015. The construction contract duration is expected to be 18 months. Rule 62-701, FAC and the FDEP permit require the South Landfill Cell 1 to be constructed in accordance with the approved design, drawings, and site-specific Construction Quality Assurance (CQA) Plan. The CQA Plan provides testing requirements for the installation of the subgrade and the liner system and related components to ensure that the South Landfill is constructed in accordance with the FDEP-approved design. The CQA Plan also requires that the CQA engineer or the engineer's designee be on site at all times during construction of the liner system including the preparation of the subgrade, placement of the geosynthetic clay liner (GCL), installation of the primary and secondary geomembranes and geocomposites, installation of the leachate collection system, and

placement of the drainage and protective layer over the primary liner to ensure that the underlying geosynthetics are not damaged during construction.

SCOPE OF SERVICES

The County has requested Jones Edmunds provide professional services during bidding and construction of the CDF South Landfill Cell 1. Jones Edmunds will provide assistance during dewatering contractor prequalification and bidding for the construction contract by attending the pre-bid meeting, providing clarifications of the bid documents, and assisting the County in evaluating bids. Once the construction begins, Jones Edmunds will provide contract administration services on behalf of the County. Jones Edmunds will interact with the construction contractor on a day-to-day basis to ensure that the construction is progressing in accordance with the contract requirements, plans, and technical specifications. During construction, Jones Edmunds will also monitor the dewatering activities to verify that the system is performing adequately and minimizing impacts to the adjacent Slurry Wall Landfill.

Jones Edmunds is the design engineer and will serve as the CQA consultant for the South Landfill Cell 1 construction. As the CQA consultant, Jones Edmunds will ensure that the project is constructed in accordance with the FDEP-approved project plans, specifications, and CQA Plan as well as FDEP permit SC05-0075133-020-SC-01 and the regulatory requirements of Rule 62-701, FAC. Jones Edmunds will monitor and document the construction of the South Landfill Cell 1. CQA responsibilities include performing independent testing of soil and geosynthetics to verify construction is in accordance with the project specifications. Upon completion, Jones Edmunds will prepare a Certification of Construction Completion and Construction Summary report and submit it to FDEP.

The professional services are described in further detail in the following tasks.

TASK 1 – BIDDING SERVICES

Jones Edmunds will provide bidding services to support the County SWMD and Purchasing Services in the solicitation of bids for the CDF South Landfill Cell 1 construction. We will coordinate with the County to advertise the request for bids, attend a pre-bid meeting, prepare responses or clarifications to bidders' written technical questions during bidding period, prepare addenda, and help the County verify that the bids are complete and responsive. Jones Edmunds will compile and provide PDFs of all documents necessary for bid packages, including addenda. The County will be responsible for distributing the bid package, receiving and logging questions from bidders, and issuing addenda to prospective bidders through the County's online plan room, DemandStar. Also, the County will keep the plan holders list and prepare and publish the bid tabulation. Jones Edmunds will be represented at the pre-bid meeting and will be prepared to discuss the technical aspects of the project, but we assume that the County's Purchasing staff will conduct the prebid meeting and bid opening. Jones Edmunds will receive copies of the bids,

contact the references for the three lowest responsive bidders, and work with County staff to evaluate and verify that the bids are responsive. The bid evaluation will include evaluating the qualifications of the Bidder's dewatering subcontractor. After the bids have been evaluated, Jones Edmunds will issue a written recommendation of most responsible and responsive bidder to the County.

Task 1 Deliverables

1. *Bid Documents (Word & PDF on a CD)*
2. *Addenda (PDF)*
3. *Recommendation of Award (PDF)*
4. *Complete Contract Documents including Addenda (three original hard copies)*

TASK 2 – CONTRACT ADMINISTRATION

Jones Edmunds will provide contract administration services throughout the duration of the construction contract. Contract administration includes preparation of conformed construction documents including contract requirements, plans, specifications, addenda, agreement, insurance certificates, and bonds. Jones Edmunds contract administration will also notify FDEP and other regulatory agencies of construction and dewatering commencement, conduct the preconstruction conference, conduct weekly progress meetings, communicate regularly with the Contractor, and issue various construction correspondences to the Contractor.

Once the Contractor has submitted all required contract documents, Jones Edmunds will schedule and conduct a Preconstruction Conference at the project site. We will prepare a detailed agenda and meeting minutes for the conference and distribute them to all attendees and the County. The Notice to Proceed will be given to the Contractor at the Preconstruction Conference.

During construction Jones Edmunds' Contract Administrator will communicate daily with our Resident Observer(s), the Contractor, and the County and conduct weekly construction progress meetings. We will evaluate and make recommendations regarding the Contractor's Schedule of Values and monthly Applications for Payment. We will evaluate and make recommendations regarding the Contractor's critical path method Progress Schedule and monthly updates to the schedule. Jones Edmunds will provide technical assistance to resolve unforeseen conditions, unsatisfactory work, and written clarifications and interpretations of the Contract Documents; maintain a master list and respond to the Contractor's Requests for Information (RFIs); evaluate and respond to the Contractor's and Owner's request for minor modifications to the Contract Documents; and prepare and execute Work Change Directives and Change Orders in accordance with the Contract Documents. We will maintain a log of work change directives, proposed contract modifications, field orders, RFIs, change orders, and pay applications to track the status of each of these documents. Jones Edmunds' contract administrator will be on site a minimum of 1 day per week during construction. Jones Edmunds will review and comment on the redlined as-built drawings of panel layouts prepared by the Resident Observer and the Contractor. All

comments on these documents will appear as a weekly summary of progress in the minutes of the weekly meetings.

Jones Edmunds will prepare agendas and conduct weekly progress meetings on site. We will prepare meeting minutes for the progress meeting and distribute it to all attendees.

At the time of Substantial Completion, Jones Edmunds will conduct a walk-through, generate a certificate of Substantial Completion, and draft a punch list of work to be completed and documentation to be submitted to reach Final Completion. Between the time of Substantial Completion and Final completion, Jones Edmunds will review punch list items as each is completed.

Task 2 Deliverables

1. *Preconstruction Conference agenda and minutes*
2. *Progress Meeting agendas and summaries*
3. *Work Change Directives*
4. *Proposed Contract Modifications*
5. *Field Orders*
6. *Request for Information Responses*
7. *Pay Estimate (Recommendation for Payment)*
8. *Clarifications and Interpretations of Contract Documents*
9. *Schedule Review Comments*
10. *Substantial Completion checklist, certificate of Substantial Completion, punch list*

TASK 3 – SUBMITTAL REVIEW

Jones Edmunds will review administrative submittals, product submittals, product samples, shop drawings, minor requests for substitution, and operation and maintenance manuals. We will review laboratory, shop, manufacturer's quality control data, and mill test reports of materials and equipment. Jones Edmunds will receive, record, and distribute the Contractor's administrative and technical submittals; review the submittals; and return the submittals with comments to the Contractor and the Owner within the timeframe specified in the Contract Documents. Jones Edmunds will maintain a submittal log. Jones Edmunds will also maintain an FTP site with PDF copies of submittals and submittal returns for the Contractor's and County's use. Jones Edmunds will provide up to two reviews of each submittals. The cost for additional review of deficient submittals will be the responsibility of the Contractor in accordance with the Contract documents. Each additional submittal review will be charged to the construction contract at hourly rates specified in the construction contract.

Task 3 Deliverables

1. *Copy of Submittals*
2. *Submittal Log*
3. *Submittal Returns*

TASK 4 – DEWATERING MONITORING

Jones Edmunds will monitor dewatering operations and the impact on water level around the South Landfill Cell 1 and the Slurry Wall Landfill. Jones Edmunds will provide the Construction Contractor's dewatering plan to FDEP as required by Permit Specific Condition 2.B.4. We will assess the influence of the construction dewatering system on groundwater dynamics in the vicinity of the existing Slurry Wall Landfill as required in the FDEP Permit Specific Condition 2.B.4.b. The County will provide water level data throughout the construction period to be used in the assessment. Additionally, \$20,000 has been allotted for a third-party consultant with expertise in construction dewatering if additional assistance is necessary.

Task 4 Deliverable

1. *Dewatering assessment report for submittal to FDEP*

TASK 5 – CONSTRUCTION QUALITY ASSURANCE

Jones Edmunds will provide full-time CQA observation during construction of the CDF South Landfill Cell 1. The FDEP-approved site-specific CQA Plan requires full-time observation by the CQA engineer or the engineer's designee all times during construction of the liner system including the preparation of the subgrade, placement of the GCL, installation of the primary and secondary geomembranes and geocomposites, installation of the leachate collection system, and placement of the drainage and protective layer over the primary liner to ensure that the underlying geosynthetics are not damaged during construction. Jones Edmunds' Resident Observer(s) will perform the CQA Monitor duties described in the CQA Plan. Because of the size of the project, more than one CQA monitor will be required to observe all phases of construction.

One Resident Observer will be on site during dewatering, earthwork, and stormwater system modification activities. During construction, Jones Edmunds assumes that the working times are up to 40 hours per week. During geosynthetic installation and protective cover placement, an additional Resident Observer will be present to observe and document these critical construction activities. During critical construction activities such as the geosynthetic installation, Jones Edmunds assumes that two Resident Observers will be onsite up to 6 days per week, 10 hours per day. The Resident Observer(s) will coordinate with the Contractor and Contract Administrator regarding weekly activities and adjust effort accordingly. The Resident Observer(s) will coordinate testing schedules, attend progress meetings, and review preliminary draft pay requests.

Task 5 Deliverables

1. *Daily observation reports including photo documentation of activities.*
2. *Comments on redlined as-built drawings provided by the Contractor.*

TASK 6 – SOIL TESTING

Soil testing is required to be performed by an independent third-party soil testing laboratory. Therefore, soil testing will be subcontracted to a geotechnical testing firm. Soil CQA testing will include soil classification, compaction characteristics, permeability testing, and in-place density and moisture content. Soil testing costs are based on the testing required by the CQA Plan (including testing coordination and review and interpretation of testing results.)

Task 6 Deliverable

1. *Copies of signed and sealed test results.*

TASK 7 – GEOSYNTHETIC TESTING

Geosynthetic testing is required to be performed by an independent third-party geosynthetics testing laboratory. Geosynthetic conformance and geomembrane seam testing will be subcontracted to a geosynthetics testing firm such as TRI Environmental. Geosynthetic conformance testing includes density, thickness, tensile properties, puncture resistance, and permeability for geomembrane, geotextile, GCL, and geocomposite. The CQA Plan requires various destructive testing of the geomembrane seams for the primary and secondary liners. Jones Edmunds' CQA monitor will coordinate geomembrane seam destructive test sampling with the geomembrane installer and arrange for overnight shipping and next-day testing for destructive seam samples. Testing costs are based on conducting the geosynthetics testing required by the project specifications and CQA Plan.

Task 7 Deliverable

1. *Copies of signed-and-sealed test results.*

TASK 8 – CONSTRUCTION CERTIFICATION

Jones Edmunds will prepare the Certification of Construction Completion (FDEP Form 62-701.900(2)) and the accompanying completion report in accordance with the US Environmental Protection Agency's Quality Assurance and Quality Control for Waste Containment Facilities (EPA/600/R-93/182) and Rules 62-701.400(7)(b)5 and (7)(f), FAC. The report will summarize the activities of the project and document the quality assurance program including the following:

- Parties and personnel involved with the project.
- Major construction activities.

- Quality assurance methods.
- Earthwork laboratory and field test results.
- Geosynthetic test results (destructive and non-destructive) including laboratory testing.
- An engineer's certification, signed and sealed by a Florida-licensed Professional Engineer, stating that based on his or her knowledge and review of the construction records, the applicable unit or portion of the landfill was constructed in accordance with the CQA Plan and FDEP permit requirements.
- Copies of CQA photographs taken at the site.
- Record drawings, surveys, and panel layout drawings of the geosynthetic materials.

Jones Edmunds will prepare Record Drawings from as-built surveys and Contractor mark-ups of the design drawings based on the completed construction project.

Jones Edmunds has provided for effort to respond to FDEP requests for additional information on the Certification of Construction Completion and summary report.

Task 8 Deliverables

1. *Draft Completion Report – PDF for County review.*
2. *Certification/Summary Report/Record Drawings:*
 - a. *FDEP – One signed-and-sealed set and one CD.*
 - b. *County – Two signed-and-sealed sets and one CD*
3. *RAI Response same as Completion Report.*

EXCLUSIONS AND CONDITIONS

The following items are specific exclusions to and conditions of this Scope of Services. This Task Order will be performed on a "Not-to-Exceed" (time and materials) basis in accordance August 16, 2012 Agreement. Excluded items may be provided as Additional Services at additional costs to this proposal.

1. This Scope of Services does not include services that would be required to assist the County in addressing a bid protest.
2. This Scope of Services is based on a construction contract duration of 18 months to Substantial Completion and an additional month to achieve Final Completion. Extension of the construction contract time may require additional fees for construction administration services and engineering observation services.
3. Water use permitting required by the St. Johns River Water Management District for dewatering activities is excluded from this Scope of Services; this will be included in Contractor's scope of work if required.

4. This Scope of Services is based on performing a second review of deficient submittals. Additional submittal review will be at the Contractor's expense in accordance with the Contract Documents.
5. Reviewing requests for substantial deviations or "or equals" from the approved plans and technical specifications is excluded from this Scope of Services.
6. As-built surveys preparation (including topographic surveying of as-built site conditions) is excluded from this Scope of Services and is assumed to be handled by the Contractor.
7. Revisions to the design plans and technical specifications due to a change in existing conditions at the site at the time of execution of this task order are excluded from this Scope of Services.
8. Obtaining a City/County building permit will be handled by the Contractor using signed-and-sealed drawings provided by Jones Edmunds.
9. Permit fee, plan review fees, and other regulatory fees are excluded from this Scope of Services and are assumed to be paid directly by the County.
10. The quantities and labor hours listed in this fee estimate are intended as documentation and justification for the total cost of the project. Deviations or changes in the quantities and labor hours between Tasks in the Scope of Services must first be approved in writing by the Solid Waste Director.

SCHEDULE

The duration of the work for this proposal is 26 months from the date that Jones Edmunds receives the written Notice to Proceed from the County. The construction contract is expected to be 18 months. Four months are scheduled for dewatering RFQ and bidding services before the construction contract, and 4 months are scheduled after the construction contract is complete for certification.

COMPENSATION

The compensation for the professional services described in this task order will be in accordance with the "Not to Exceed" approach in Section 3 of the Agreement for Engineering and Consulting Services. The compensation was calculated using standard hourly rates from the August 16, 2012 Agreement for Engineering and Consulting Services. The fees for each task of this Scope of Services are as follows:

Task	Compensation
Task 1 – Bidding Services	\$34,070
Task 2 – Contract Administration	\$437,850
Task 3 – Submittal Review	\$68,455
Task 4 – Dewatering Monitoring	\$61,360
Task 5 – Construction Quality Assurance	\$644,459
Task 6 – Soil Testing	\$32,601
Task 7 – Geosynthetic Testing	\$99,120
Task 8 – Construction Certification	\$62,760
Total Fee	\$1,440,675

The level of effort and the corresponding costs for this authorization are shown in the attached Fee Estimate.

SECTION 2. Compensation: Compensation shall be in accordance with "SECTION 3, COMPENSATION" of the continuing agreement between the parties dated August 16, 2012. The Consultant shall be paid for this Task Order 12-03 a not-to-exceed amount of One-Million-Four-Hundred-Forty Thousand Six-Hundred-Seventy-Five Dollars and no cents (\$1,440,675.00) for the services as set forth in Attachment A-1 of this Task Order.


SECTION 3. Continuing Effect of Agreement: Except as otherwise provided in this Task Order, the Continuing Agreement dated August 16, 2012 shall remain in full force and effect.

SECTION 4. Time for Performance: The Consultant shall complete the work required in this Task Order within the time limits set forth in Attachment 1 after the County issues a Notice to Proceed.

IN WITNESS WHEREOF, the parties hereunto set their hands and seal the day and year first above written.

ATTEST:

BOARD OF COUNTY COMMISSIONERS
BREVARD COUNTY, FLORIDA



Scott Ellis, Clerk of the Court

By: 

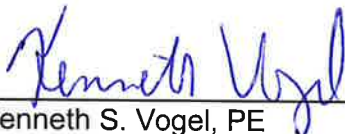
Robin Fisher, Chairman

As approved by the Board on 2-17-15
Item # _____.

ATTEST:

CONSULTANT:
JONES EDMUNDS & ASSOCIATES, INC.





Kenneth S. Vogel, PE
Sr. Vice President

