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April 17, 2026

Jocelyn Brown | Environmental Compliance & Asset Manager
City of Hallandale Beach Public Works Department
630 NW 2nd Street
Hallandale Beach, FL 33009

**Subject: Revised Proposal for Chaves Lake Dredging Design and Permitting
Chaves Lake
Hallandale Beach, Broward County, Florida
RES Proposal Number PRJ114163**

Dear Ms. Brown:

RES Florida Consulting, LLC (RES) is pleased to submit this proposal for preparing design and permitting documents for dredging drinking water treatment plant sediment accumulation within Chaves Lake. Included, and incorporated as part of this proposal, is an outline of the background information provided to us, the proposed scope of services, our fee, the proposed schedule, and authorization procedures including the terms and conditions governing the project. This proposal has been updated to include additional scope related to construction phase services.

BACKGROUND INFORMATION

RES' understanding of the project is based upon communication between Jocelyn Brown of City of Hallandale Beach (City) and Ms. Nadia Locke of our Fort Lauderdale office on March 19, 2026, and our previous knowledge and experience with Chaves Lake environmental consulting services. Chaves Lake currently receives discharge from the City's water treatment plant located to the east of the lake. The process consists of lime softening, filtration, and disinfection. The City intends to convert the treatment plant into a reverse osmosis facility, therefore ceasing the discharge.

The City has indicated that they would like to remove 15 feet of sediment deposited from the treatment plant discharge. It is our understanding that the City would like RES' assistance in designing the dredge plan, obtaining necessary permits, preparing technical bid documents and construction phase services pertaining to the dredge activities.

PROPOSED SCOPE OF SERVICES

The scope of services below describes the tasks to be taken as part of this proposal.

1. Evaluate Extent and Nature of Sediment Deposition within Chaves Lake
 - Perform a desktop review of the lake and recent surveys and reports to evaluate the current status of the lake bottom and other considerations that should be noted during the planning, permitting, and restoration efforts.
 - Review surface water quality data.
 - Use the data to determine the horizontal and vertical extent of the proposed dredge area, which will be used to calculate the estimated amount of material that may be removed by dredging activities.
 - Perform a grain size analysis. RES will collect two sediment samples from the discharge area and send them to a laboratory to evaluate sediment grain size. Due to the nature of the plant discharge, grain size may be smaller than typically would be found in a lake bottom, which may impact the type of decanting protocols used for the dredge material.
 - Collect up to four sediment samples for waste characterization. This information will be necessary to determine disposal options for the material after it has been dredged. Toxicity Characteristic Leaching Procedure (TCLP)



will be run on the following parameters: Total Volatiles, Total PAHs, Total Sulfate, TPH, and either Total or TCLP Metals (RCRA 8). This information may be required for landfill disposal of dredge material.

2. Design and Prepare Dredge Plan and Stormwater Pollution Prevention Plan

- Develop a written dredge plan, including specifics regarding the type of dredging to be utilized (suction versus clam shell). An initial draft plan will be submitted to the City for review and a final submittal will be provided to the regulatory agencies as part of the permit application packages and can be used by the City to support bidding documents.
- Prepare a Stormwater Pollution Prevention Plan (SWPPP) and turbidity monitoring plan for implementation during the restoration activities.
- Prepare an opinion of probable planning level costs for the City's budgeting.

3. Regulatory Agency Coordination and Permitting

- Conduct a permit analysis to evaluate which environmental permits will be necessary for the dredging operation. Coordinate with permitting agencies determined to have jurisdiction. Our scope includes coordination with the following regulatory agency programs.
 - Florida Department of Environmental Protection (FDEP) Environmental Resources Program
 - Broward County Environmental Protection and Growth Management Department (BCEPGMD) Aquatic and Wetland Resources Program and Surface Water Management Program
- Conduct pre-application meetings with each regulatory agency.
- Prepare and submit permit application documents to the agencies and respond to one round of potential Requests for Additional Information (RAI) per agency.

4. Bid Phase Services

- Develop a list of evaluation criteria for qualifications and pricing.
- Create a scope of work for the basis of the bid.
- Provide guidance on pricing structure for bid.
- Facilitate a pre-bid site visit.
- Respond to Requests for Information related to the technical aspects of the project.
- Review bids and provide input on qualifications and pricing.

5. Construction Phase Services

- Facilitate a pre-construction meeting with the contractor to review environmental concerns.
- Conduct daily turbidity monitoring during the dredging activity. It is estimated the dredging activity will take 20 days; therefore 20 monitoring events will occur. If more monitoring days are required, a change order may be requested. RES will complete daily inspection and monitoring reports.
- Compile and log debris disposal receipts to document proper disposal and amount of sediment removed and disposed.
- Review the post-dredge survey to confirm location and amount of sediment removal.
- Prepare final report to summarize and document project completion.



- Prepare and submit project completion documentation to Broward County to close out the permit once final disposal is completed.

6. General Assistance

- Hold up to five coordination meetings with the City regarding the permitting and deliverables for the dredging.

ASSUMPTIONS

RES' fee and schedule are based on the following assumptions. Changes to the assumptions below may result in additional funds and time being needed to complete the project.

- RES will be provided with uninhibited access to the Chaves Lake site.
- The City will pay the permit fees.
- No more than one RAI response per agency will be required and those requests will not require additional testing, surveys or other studies.
- No environmental or ecological surveys, mitigation or remediation will be required.
- The type of permits required will be determined during the pre-application meetings.
- USACE authorization is not required.
- The City will coordinate the bidding documents and RES' bid support scope is limited to providing technical assistance.
- RES assumes that the field work for the dredging will require 20 field days. Once the scope is developed and the schedules are created by the contractor, RES will review to determine if this will be sufficient or if additional fees will be required to complete the field documentation.

FEE

We propose to perform the above scope of services for a lump sum fee of \$119,855.80. A cost estimating spreadsheet is attached for your reference. You will be invoiced monthly for services performed. If unforeseen conditions should require services beyond the scope of services described herein, RES will notify you promptly of additional costs necessary to complete the project, prior to proceeding. Please note that payment of each invoice is due upon receipt.

SCHEDULE

We can begin tasks associated with this proposal within one week of our receipt of authorization to proceed. The sediment evaluation is anticipated to take four weeks. We anticipate having a preliminary design within six to eight weeks. The schedule for pre-application meetings with the agencies is dependent on agency availability. If the agencies are not available prior to permit application submittal, pre-application meetings will be scheduled soon after submittal. RES will prepare and submit the permit applications within two additional weeks. RES will coordinate with the agencies to expedite permit processing; however, permit issuance is dependent on agency review times and not under RES' control.

AUTHORIZATION

As our written authorization, a purchase order will be issued referencing RFP # FY 2024-2025-014, dated September 15, 2025, between RES and the City of Hallandale Beach. The terms and conditions stated in the contract will be applicable to this task work order.

We appreciate the opportunity to offer our professional services on this project. If you have any questions concerning this proposal, please contact us at 954-484-8500.

Sincerely,

RES Florida Consulting, LLC

*Proposal for Chaves Lake Dredging Design and Permitting
Hallandale Beach, Broward County, Florida
RES Proposal Number PRJ114163
April 17, 2026 (Revised)*



Rachel E. Vitek
Compliance Division Manager

Nadia G. Locke, PE
Advisory Services Manager

Attachments: Cost Estimating Spreadsheet



Project Name: Chaves Lake Dredging
 Client: City of Hallandale Beach
 PRJ#: 114163

Billing Rate Card 2026

TASK NAME			Sediment Evaluation		Design		Agency Coordination		Bid Phase Services		Construction Phase Services		General Assistance		TOTALS	
LABOR CATEGORY	EMPLOYEE	Rate	Hrs	Amount	Hrs	Amount	Hrs	Amount	Hrs	Amount	Hrs	Amount	Hrs	Amount	Hrs	Amount
Director, Engineering		\$302	2	\$ 604.00	16	\$ 4,832.00	4	\$ 1,208.00	8	\$ 2,416.00	8	\$ 2,416.00	5	\$ 1,510.00	43	\$ 12,986.00
Project Manager		\$270	4	\$ 1,080.00	8	\$ 2,160.00	20	\$ 5,400.00	16	\$ 4,320.00	24	\$ 6,480.00	10	\$ 2,700.00	82	\$ 22,140.00
Project Engineer		\$240		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
Engineer		\$190	40	\$ 7,600.00	50	\$ 9,500.00	75	\$ 14,250.00	36	\$ 6,840.00	16	\$ 3,040.00	12	\$ 2,280.00	229	\$ 43,510.00
Junior Engineer		\$160	52	\$ 8,320.00	30	\$ 4,800.00	36	\$ 5,760.00	24	\$ 3,840.00	96	\$ 15,360.00	5	\$ 800.00	243	\$ 38,880.00
Senior CADD Tech Manager		\$195		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
CADD Technician		\$145		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
Permit Administrator		\$130		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
TOTAL LABOR			98	\$ 17,604.00	104	\$ 21,292.00	135	\$ 26,618.00	84	\$ 17,416.00	144	\$ 27,296.00	32	\$ 7,290.00	597	\$ 117,516.00
OTHER DIRECT COSTS (ODC)			Price	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount	
Laboratory: Grain Size Analysis		\$ 180.00	2	\$ 396.00		\$ -		\$ -		\$ -		\$ -		\$ -	2	\$ 396.00
Laboratory: TCLP		\$ 407.00	4	\$ 1,790.80		\$ -		\$ -		\$ -		\$ -		\$ -	4	\$ 1,790.80
Laboratory: Waste Fees		\$ 5.00	6	\$ 33.00		\$ -		\$ -		\$ -		\$ -		\$ -	6	\$ 33.00
				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
TOTAL ODC + MARK UP			10%	\$ 2,219.80	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	12	\$ 2,219.80
FIXED COSTS (IN HOUSE DIRECT EXPENSES)			Price	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount	
EQUIPMENT					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Soggy Bottom Sampler		\$20.00	1	\$ 20.00		\$ -		\$ -		\$ -		\$ -		\$ -	1	\$ 20.00
Canoe		\$100.00	1	\$ 100.00		\$ -		\$ -		\$ -		\$ -		\$ -	1	\$ 100.00
TOTAL FIXED COSTS			2	\$ 120.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	2	\$ 120.00
TOTAL LABOR				\$ 17,604.00		\$ 21,292.00		\$ 26,618.00		\$ 17,416.00		\$ 27,296.00		\$ 7,290.00		\$ 117,516.00
TOTAL SUBCONTRACTORS				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
TOTAL OTHER DIRECT COSTS				\$ 2,219.80		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 2,219.80
TOTAL FIXED COSTS				\$ 120.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 120.00
TOTAL LABOR AND EXPENSES				\$ 19,943.80		\$ 21,292.00		\$ 26,618.00		\$ 17,416.00		\$ 27,296.00		\$ 7,290.00		\$ 119,855.80