



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.1.

9/16/2025

Subject:

Florida Department of Environmental Protection (FDEP) Grant INV64 - Indian River Lagoon Circulation and Water Quality Forecast Model

Fiscal Impact:

Revenue of \$295,065 in Legislative Appropriations

Dept/Office:

Natural Resources Management

Requested Action:

It is requested that the Board of County Commissioners 1) authorize the Chair to execute this grant contract upon review and approval by the County Attorney's Office, Risk Management, and Purchasing; 2) authorize the County Manager to execute any future amendments to this contract; and 3) authorize the County Manager to execute all necessary budget amendments (BCRs).

Summary Explanation and Background:

Grant funding of \$295,065 will be used to fully fund an Indian River Lagoon Circulation and Water Quality Forecast Modeling project. The Indian River Lagoon (IRL) is a vital ecological asset, supporting diverse species and providing significant economic benefits through tourism and fisheries. However, the increasing frequency and intensity of Harmful Algal Blooms (HABs), driven by nutrient pollution and other factors, threatens the lagoon's health and sustainability.

Numerical modeling offers a powerful tool for forecasting HABs, enabling proactive management and mitigation strategies. By using new artificial intelligence (AI) tools to integrate environmental parameters, such as water temperature, salinity, nutrient levels, and meteorological data, a comprehensive model can provide timely predictions and help in decision-making processes. This project will implement a real-time hydrodynamic water quality forecast model over the Indian River Lagoon system. The forecast will be an early warning system for adverse water quality conditions, including harmful algal blooms (HABs).

Clerk to the Board Instructions:

Please execute 2 copies of the grant contract agreement, one copy for FDEP and one for Natural Resources Management.

**BREVARD COUNTY
BOARD OF COUNTY COMMISSIONERS**

CONTRACT REVIEW AND APPROVAL FORM

SECTION I - GENERAL INFORMATION

1. Contractor: Florida Department of Environmental Protection		2. Amount: \$295,065.00
3. Fund/Account #: 1700	4. Department Name: Natural Resources	
5. Contract Description: FDEP Grant INV64 Indian River Lagoon Circulation and Water Quality Forecast Model		
6. Contract Monitor: Cole Stubbe		8. Contract Type: GRANT
7. Dept/Office Director: Virginia Barker		
9. Type of Procurement: Other		

SECTION II - REVIEW AND APPROVAL TO ADVERTISE

APPROVAL

<u>COUNTY OFFICE</u>	<u>YES</u>	<u>NO</u>	<u>SIGNATURE</u>
User Agency	<input type="checkbox"/>	<input type="checkbox"/>	_____
Purchasing	<input type="checkbox"/>	<input type="checkbox"/>	_____
Risk Management	<input type="checkbox"/>	<input type="checkbox"/>	_____
County Attorney	<input type="checkbox"/>	<input type="checkbox"/>	_____

SECTION III - CONTRACTS MANAGEMENT DATABASE CHECKLIST

APPROVAL

<u>COUNTY OFFICE</u>	<u>YES</u>	<u>NO</u>	<u>SIGNATURE</u>
User Agency	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hibbard, Joshua <small>Digitally signed by Hibbard, Joshua Date: 2025.07.29 08:41:02 -04'00'</small>
Purchasing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wall, Katherine <small>Digitally signed by Wall, Katherine Date: 2025.07.29 08:57:32 -04'00'</small>
Risk Management	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Watson, Michael <small>Digitally signed by Watson, Michael Date: 2025.07.31 08:59:18 -04'00'</small>
County Attorney	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Balser, Heather <small>Digitally signed by Balser, Heather Date: 2025.08.06 13:58:14 -04'00'</small>

SECTION IV - CONTRACTS MANAGEMENT DATABASE CHECKLIST

CM DATABASE REQUIRED FIELDS	Complete ✓
Department Information	<input type="checkbox"/>
Department	<input type="checkbox"/>
Program	<input type="checkbox"/>
Contact Name	<input type="checkbox"/>
Cost Center, Fund, and G/L Account	<input type="checkbox"/>
Vendor Information (SAP Vendor #)	<input type="checkbox"/>
Contract Status, Title, Type, and Amount	<input type="checkbox"/>
Storage Location (SAP)	<input type="checkbox"/>
Contract Approval Date, Effective Date, and Expiration Date	<input type="checkbox"/>
Contract Absolute End Date (No Additional Renewals/Extensions)	<input type="checkbox"/>
Material Group	<input type="checkbox"/>
Contract Documents Uploaded in CM database (Contract Form with County Attorney/ Risk Management/ Purchasing Approval; Signed/Executed Contract)	<input type="checkbox"/>
"Right To Audit" Clause Included in Contract	<input type="checkbox"/>
Monitored items: Uploaded to database (Insurance, Bonds, etc.)	<input type="checkbox"/>



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Kimberly.Powell@brevardclerk.us

September 17, 2025

M E M O R A N D U M

TO: Virginia Barker, Natural Resources Management Director

RE: Item F.1., Florida Department of Environmental Protection (FDEP) Grant INV64, Indian River Lagoon Circulation and Water Quality Forecast Model

The Board of County Commissioners, in regular session on September 16, 2025, approved and authorized the Chairman to execute the FDEP Grant INV64 for the Indian River Lagoon circulation and water quality forecast model, upon approval by the County Attorney's Office, Risk Management, and Purchasing Services; authorized the County Manager to execute and future amendments to the Contract; and authorized the County Manager to execute any necessary budget change amendments. Enclosed are two executed Grant Agreements.

Upon execution by FDEP, please return a fully-executed copy of the Grant Agreement to this office for inclusion in the official minutes.

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
RACHEL M. SADOFF, CLERK

Kimberly Powell, Clerk to the Board

Encls. (2)

cc: Contracts Administration
County Manager
County Attorney
Finance
Budget

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Standard Grant Agreement**

This Agreement is entered into between the Parties named below, pursuant to section 215.971, Florida Statutes:

1. Project Title (Project):	Agreement Number:
Indian River Lagoon Circulation and Water Quality Forecast Model	INV64
<hr/>	
2. Parties	(Department)
State of Florida Department of Environmental Protection, 3900 Commonwealth Boulevard Tallahassee, Florida 32399-3000	
<hr/>	
Grantee Name:	Entity Type:
Brevard County	local government
Grantee Address:	FEID:
2725 Judge Fran Jamieson Way Bldg. C, Viera, FL 32940	59-6000523
(Grantee)	

3. Agreement Begin Date:	Date of Expiration:
Upon Execution	03/31/2029

4. Project Number: INV64 <i>(If different from Agreement Number)</i>	Project Location(s): Brevard County
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Project Description: The Grantee will implement an ongoing real-time hydrodynamic water quality forecast model over the Indian River Lagoon system. The model will be capable of generating high-resolution predictions of water quality and habitat conditions under time-varying environmental conditions.

5. Total Amount of Funding: \$295,065.00	Funding Source?	Award #s or Line-Item Appropriations:	Amount per Source(s):
	<input checked="" type="checkbox"/> State <input type="checkbox"/> Federal	GAA Line Item #1714	\$ 295,065.00
	<input type="checkbox"/> State <input type="checkbox"/> Federal		\$
	<input type="checkbox"/> State <input type="checkbox"/> Federal		\$
	<input type="checkbox"/> Grantee Match		\$
Total Amount of Funding + Grantee Match, if any:			\$ 295,065.00

6. Department's Grant Manager	Grantee's Grant Manager
Name: Nicholas Daigle	Name: Cole Stubbe
or successor	or successor
Address: 3900 Commonwealth Blvd. MS 24	Address: 2725 Judge Fran Jamieson Way Bldg. A-219
Tallahassee, FL 32399-3000	Viera, FL 32940
Phone: 850-245-3150	Phone: 321-633-2016
Email: nicholas.daigle@floridadep.gov	Email: cole.stubbe@brevardfl.gov

7. The Parties agree to comply with the terms and conditions of the following attachments and exhibits which are hereby incorporated by reference:


<input checked="" type="checkbox"/> Attachment 1: Standard Terms and Conditions Applicable to All Grants Agreements
<input checked="" type="checkbox"/> Attachment 2: Special Terms and Conditions
<input checked="" type="checkbox"/> Attachment 3: Grant Work Plan
<input checked="" type="checkbox"/> Attachment 4: Public Records Requirements
<input checked="" type="checkbox"/> Attachment 5: Special Audit Requirements
<input checked="" type="checkbox"/> Attachment 6: Program-Specific Requirements
<input type="checkbox"/> Attachment 7: Grant Award Terms (Federal) *Copy available at https://facts.fldfs.com , in accordance with section 215.985, F.S.
<input type="checkbox"/> Attachment 8: Federal Regulations and Terms (Federal)
<input type="checkbox"/> Additional Attachments (if necessary):
<input checked="" type="checkbox"/> Exhibit A: Progress Report Form
<input type="checkbox"/> Exhibit B: Property Reporting Form
<input checked="" type="checkbox"/> Exhibit C: Payment Request Summary Form
<input checked="" type="checkbox"/> Exhibit D: Quality Assurance Requirements
<input type="checkbox"/> Exhibit E: Advance Payment Terms and Interest Earned Memo
<input type="checkbox"/> Exhibit F: Common Carrier or Contracted Carrier Attestation Form PUR1808 (State)

<input type="checkbox"/> Exhibit H: Non-Profit Organization Compensation Form (State)	
<input type="checkbox"/> Exhibit I: Forced Labor Attestation Form	
<input type="checkbox"/> Additional Exhibits (if necessary):	
8. The following information applies to Federal Grants only and is identified in accordance with 2 CFR 200.331 (a) (1):	
Federal Award Identification Number(s) (FAIN):	
Unique Entity Identifier (UEI):	
Federal Award Date to Department:	
Federal Award Project Description:	
Total Federal Funds Obligated by this Agreement:	
Federal Awarding Agency:	
Award R&D?	<input type="checkbox"/> Yes <input type="checkbox"/> N/A

IN WITNESS WHEREOF, this Agreement shall be effective on the date indicated by the Agreement Begin Date unless another date is specified in the grant documents.

GRANTEE

Grantee Name _____

By  **SEP 16 2025**

As approved by the Board on September 16, 2025

Date Signed

Rob Feltner, Chairman

Print Name and Title of Person Signing _____

State of Florida Department of Environmental Protection **DEPARTMENT**

By Edward C. Smith **10/21/2025**


Secretary or Designee

Date Signed

Edward C. Smith, Director - Office of Water Policy and Ecosystems Restoration

Print Name and Title of Person Signing _____

☐ Additional signatures attached on separate page.



Rachel Sadoff, Clerk **SEP 17 2025**

Date: _____

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STANDARD TERMS AND CONDITIONS
APPLICABLE TO GRANT AGREEMENTS**

ATTACHMENT 1

1. Entire Agreement.

This Grant Agreement, including any Attachments and Exhibits referred to herein and/or attached hereto (Agreement), constitutes the entire agreement between the parties with respect to the subject matter hereof and supersedes all prior agreements, whether written or oral, with respect to such subject matter. Any terms and conditions included on Grantee's forms or invoices shall be null and void.

2. Grant Administration.

- a. Order of Precedence. If there are conflicting provisions among the documents that make up the Agreement, the order of precedence for interpretation of the Agreement is as follows:

- i. Standard Grant Agreement
- ii. Attachments other than Attachment 1, in numerical order as designated in the Standard Grant Agreement
- iii. Attachment 1, Standard Terms and Conditions
- iv. The Exhibits in the order designated in the Standard Grant Agreement

- b. All approvals, written or verbal, and other written communication among the parties, including all notices, shall be obtained by or sent to the parties' Grant Managers. All written communication shall be by electronic mail, U.S. Mail, a courier delivery service, or delivered in person. Notices shall be considered delivered when reflected by an electronic mail read receipt, a courier service delivery receipt, other mail service delivery receipt, or when receipt is acknowledged by recipient. If the notice is delivered in multiple ways, the notice will be considered delivered at the earliest delivery time.
- c. If a different Grant Manager is designated by either party after execution of this Agreement, notice of the name and contact information of the new Grant Manager will be submitted in writing to the other party and maintained in the respective parties' records. A change of Grant Manager does not require a formal amendment or change order to the Agreement.

- d. This Agreement may be amended, through a formal amendment or a change order, only by a written agreement between both parties. A formal amendment to this Agreement is required for changes which cause any of the following:

- (1) an increase or decrease in the Agreement funding amount;
- (2) a change in Grantee's match requirements;
- (3) a change in the expiration date of the Agreement; and/or
- (4) changes to the cumulative amount of funding transfers between approved budget categories, as defined in Attachment 3, Grant Work Plan, that exceeds or is expected to exceed twenty percent (20%) of the total budget as last approved by Department.

A change order to this Agreement may be used when:

- (1) task timelines within the current authorized Agreement period change;
- (2) the cumulative transfer of funds between approved budget categories, as defined in Attachment 3, Grant Work Plan, are less than twenty percent (20%) of the total budget as last approved by Department;
- (3) changing the current funding source as stated in the Standard Grant Agreement; and/or
- (4) fund transfers between budget categories for the purposes of meeting match requirements.

This Agreement may be amended to provide for additional services if additional funding is made available by the Legislature.

- e. All days in this Agreement are calendar days unless otherwise specified.

3. Agreement Duration.

The term of the Agreement shall begin and end on the dates indicated in the Standard Grant Agreement, unless extended or terminated earlier in accordance with the applicable terms and conditions. The Grantee shall be eligible for reimbursement for work performed on or after the date of execution through the expiration date of this Agreement, unless otherwise specified in Attachment 2, Special Terms and Conditions. However, work performed prior to the execution of this Agreement may be reimbursable or used for match purposes if permitted by the Special Terms and Conditions.

Attachment 1

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4. Deliverables.

The Grantee agrees to render the services or other units of deliverables as set forth in Attachment 3, Grant Work Plan. The services or other units of deliverables shall be delivered in accordance with the schedule and at the pricing outlined in the Grant Work Plan. Deliverables may be comprised of activities that must be completed prior to Department making payment on that deliverable. The Grantee agrees to perform in accordance with the terms and conditions set forth in this Agreement and all attachments and exhibits incorporated by the Standard Grant Agreement.

5. Performance Measures.

The Grantee warrants that: (1) the services will be performed by qualified personnel; (2) the services will be of the kind and quality described in the Grant Work Plan; (3) the services will be performed in a professional and workmanlike manner in accordance with industry standards and practices; (4) the services shall not and do not knowingly infringe upon the intellectual property rights, or any other proprietary rights, of any third party; and (5) its employees, subcontractors, and/or subgrantees shall comply with any security and safety requirements and processes, if provided by Department, for work done at the Project Location(s). The Department reserves the right to investigate or inspect at any time to determine whether the services or qualifications offered by Grantee meet the Agreement requirements. Notwithstanding any provisions herein to the contrary, written acceptance of a particular deliverable does not foreclose Department's remedies in the event deficiencies in the deliverable cannot be readily measured at the time of delivery.

6. Acceptance of Deliverables.

- a. Acceptance Process. All deliverables must be received and accepted in writing by Department's Grant Manager before payment. The Grantee shall work diligently to correct all deficiencies in the deliverable that remain outstanding, within a reasonable time at Grantee's expense. If Department's Grant Manager does not accept the deliverables within 30 days of receipt, they will be deemed rejected.
- b. Rejection of Deliverables. The Department reserves the right to reject deliverables, as outlined in the Grant Work Plan, as incomplete, inadequate, or unacceptable due, in whole or in part, to Grantee's lack of satisfactory performance under the terms of this Agreement. The Grantee's efforts to correct the rejected deliverables will be at Grantee's sole expense. Failure to fulfill the applicable technical requirements or complete all tasks or activities in accordance with the Grant Work Plan will result in rejection of the deliverable and the associated invoice. Payment for the rejected deliverable will not be issued unless the rejected deliverable is made acceptable to Department in accordance with the Agreement requirements. The Department, at its option, may allow additional time within which Grantee may remedy the objections noted by Department. The Grantee's failure to make adequate or acceptable deliverables after a reasonable opportunity to do so shall constitute an event of default.

7. Financial Consequences for Nonperformance.

- a. Withholding Payment. In addition to the specific consequences explained in the Grant Work Plan and/or Special Terms and Conditions, the State of Florida (State) reserves the right to withhold payment when the Grantee has failed to perform/comply with provisions of this Agreement. None of the financial consequences for nonperformance in this Agreement as more fully described in the Grant Work Plan shall be considered penalties.
- b. Invoice reduction
If Grantee does not meet a deadline for any deliverable, the Department will reduce the invoice by 1% for each day the deadline is missed, unless an extension is approved in writing by the Department.
- c. Corrective Action Plan. If Grantee fails to correct all the deficiencies in a rejected deliverable within the specified timeframe, Department may, in its sole discretion, request that a proposed Corrective Action Plan (CAP) be submitted by Grantee to Department. The Department requests that Grantee specify the outstanding deficiencies in the CAP. All CAPs must be able to be implemented and performed in no more than sixty (60) calendar days.
 - i. The Grantee shall submit a CAP within ten (10) days of the date of the written request from Department. The CAP shall be sent to the Department's Grant Manager for review and approval. Within ten (10) days of receipt of a CAP, Department shall notify Grantee in writing whether the CAP proposed has been accepted. If the CAP is not accepted, Grantee shall have ten (10) days from receipt of Department letter rejecting the proposal to submit a revised proposed CAP. Failure to obtain Department approval of a CAP as specified above may result in Department's termination of this Agreement for cause as authorized in this Agreement.
 - ii. Upon Department's notice of acceptance of a proposed CAP, Grantee shall have ten (10) days to commence implementation of the accepted plan. Acceptance of the proposed CAP by Department

does not relieve Grantee of any of its obligations under the Agreement. In the event the CAP fails to correct or eliminate performance deficiencies by Grantee, Department shall retain the right to require additional or further remedial steps, or to terminate this Agreement for failure to perform. No actions approved by Department or steps taken by Grantee shall preclude Department from subsequently asserting any deficiencies in performance. The Grantee shall continue to implement the CAP until all deficiencies are corrected. Reports on the progress of the CAP will be made to Department as requested by Department's Grant Manager.

- iii. Failure to respond to a Department request for a CAP or failure to correct a deficiency in the performance of the Agreement as specified by Department may result in termination of the Agreement.

8. Payment.

- a. Payment Process. Subject to the terms and conditions established by the Agreement, the pricing per deliverable established by the Grant Work Plan, and the billing procedures established by Department, Department agrees to pay Grantee for services rendered in accordance with section 215.422, Florida Statutes (F.S.).
- b. Taxes. The Department is exempted from payment of State sales, use taxes and Federal excise taxes. The Grantee, however, shall not be exempted from paying any taxes that it is subject to, including State sales and use taxes, or for payment by Grantee to suppliers for taxes on materials used to fulfill its contractual obligations with Department. The Grantee shall not use Department's exemption number in securing such materials. The Grantee shall be responsible and liable for the payment of all its FICA/Social Security and other taxes resulting from this Agreement.
- c. Maximum Amount of Agreement. The maximum amount of compensation under this Agreement, without an amendment, is described in the Standard Grant Agreement. Any additional funds necessary for the completion of this Project are the responsibility of Grantee.
- d. Reimbursement for Costs. The Grantee shall be paid on a cost reimbursement basis for all eligible Project costs upon the completion, submittal, and approval of each deliverable identified in the Grant Work Plan. Reimbursement shall be requested on Exhibit C, Payment Request Summary Form. To be eligible for reimbursement, costs must be in compliance with laws, rules, and regulations applicable to expenditures of State funds, including, but not limited to, the Reference Guide for State Expenditures, which can be accessed at the following web address: <https://www.myfloridacfo.com/docs-sf/accounting-and-auditing-libraries/state-agencies/reference-guide-for-state-expenditures.pdf>.
- e. Rural Communities and Rural Areas of Opportunity. If Grantee is a county or municipality that qualifies as a "rural community" or "rural area of opportunity" (RAO) as defined in subsection 288.0656(2), F.S., such Grantee may request from the Department that all invoice payments under this Agreement be directed to the relevant county or municipality or to the RAO itself. The Department will agree to Grantee's request if:
 - i. Grantee demonstrates that it is a county or municipality that qualifies as a "rural community" or "rural area of opportunity" under subsection 288.0656(2), F.S.;
 - ii. Grantee demonstrates current financial hardship using one (1) or more of the "economic distress" factors defined in subsection 288.0656(2)(c), F.S.;
 - iii. Grantee's performance has been verified by the Department, which has determined that Grantee is eligible for invoice payments and that Grantee's performance has been completed in accordance with this Agreement's terms and conditions; and
 - iv. Applicable federal and state law(s), rule(s) and regulation(s) allow for such payments.This subsection may not be construed to alter or limit any other applicable provisions of federal or state law, rule, or regulation. A current list of Florida's designated RAOs can be accessed at the following web address: <https://floridajobs.org/community-planning-and-development/rural-community-programs/rural-areas-of-opportunity>.
- f. Invoice Detail. All charges for services rendered or for reimbursement of expenses authorized by Department pursuant to the Grant Work Plan shall be submitted to Department in sufficient detail for a proper pre-audit and post-audit to be performed. The Grantee shall only invoice Department for deliverables that are completed in accordance with the Grant Work Plan.
- g. State Funds Documentation. Pursuant to section 216.1366, F.S., if Contractor meets the definition of a non-profit organization under section 215.97(2)(m), F.S., Contractor must provide the Department with documentation that indicates the amount of state funds:
 - i. Allocated to be used during the full term of the contract or agreement for remuneration to any member of the board of directors or an officer of Contractor.

- ii. Allocated under each payment by the public agency to be used for remuneration of any member of the board of directors or an officer of the Contractor.

The documentation must indicate the amounts and recipients of the remuneration. Such information must be posted on the State's the contract tracking system and maintained pursuant to section 215.985, F.S., and must be posted on the Contractor's website, if Contractor maintains a website.

- h. Interim Payments. Interim payments may be made by Department, at its discretion, if the completion of deliverables to date have first been accepted in writing by Department's Grant Manager.
- i. Final Payment Request. A final payment request should be submitted to Department no later than sixty (60) days following the expiration date of the Agreement to ensure the availability of funds for payment. However, all work performed pursuant to the Grant Work Plan must be performed on or before the expiration date of the Agreement.
- j. Annual Appropriation Contingency. The State's performance and obligation to pay under this Agreement is contingent upon an annual appropriation by the Legislature. This Agreement is not a commitment of future appropriations. Authorization for continuation and completion of work and any associated payments may be rescinded, with proper notice, at the discretion of Department if the Legislature reduces or eliminates appropriations.
- k. Interest Rates. All interest rates charged under the Agreement shall be calculated on the prevailing rate used by the State Board of Administration. To obtain the applicable interest rate, please refer to: <https://www.myfloridacfo.com/division/aa/local-governments/judgement-interest-rates>.
- l. Refund of Payments to the Department. Any balance of unobligated funds that have been advanced or paid must be refunded to Department. Any funds paid in excess of the amount to which Grantee or subgrantee is entitled under the terms of the Agreement must be refunded to Department. If this Agreement is funded with federal funds and the Department is required to refund the federal government, the Grantee shall refund the Department its share of those funds.

9. Documentation Required for Cost Reimbursement Grant Agreements and Match.

If Cost Reimbursement or Match is authorized in Attachment 2, Special Terms and Conditions, the following conditions apply. Supporting documentation must be provided to substantiate cost reimbursement or match requirements for the following budget categories:

- a. Salary/Wages. Grantee shall list personnel involved, position classification, direct salary rates, and hours spent on the Project in accordance with Attachment 3, Grant Work Plan in their documentation for reimbursement or match requirements.
- b. Overhead/Indirect/General and Administrative Costs. If Grantee is being reimbursed for or claiming match for multipliers, all multipliers used (i.e., fringe benefits, overhead, indirect, and/or general and administrative rates) shall be supported by audit. If Department determines that multipliers charged by Grantee exceeded the rates supported by audit, Grantee shall be required to reimburse such funds to Department within thirty (30) days of written notification. Interest shall be charged on the excessive rate.
- c. Contractual Costs (Subcontractors). Match or reimbursement requests for payments to subcontractors must be substantiated by copies of invoices with backup documentation identical to that required from Grantee. Subcontracts which involve payments for direct salaries shall clearly identify the personnel involved, salary rate per hour, and hours spent on the Project. All eligible multipliers used (i.e., fringe benefits, overhead, indirect, and/or general and administrative rates) shall be supported by audit. If Department determines that multipliers charged by any subcontractor exceeded the rates supported by audit, Grantee shall be required to reimburse such funds to Department within thirty (30) days of written notification. Interest shall be charged on the excessive rate. Nonconsumable and/or nonexpendable personal property or equipment costing \$5,000 or more purchased for the Project under a subcontract is subject to the requirements set forth in chapters 273 and/or 274, F.S., and Chapter 69I-72, Florida Administrative Code (F.A.C.) and/or Chapter 69I-73, F.A.C., as applicable. For grants funded with federal funds, nonconsumable and/or nonexpendable personal property or equipment costing \$10,000 or more purchased for the Project under a subcontract is subject to the requirements set forth in 2 CFR 200. The Grantee shall be responsible for maintaining appropriate property records for any subcontracts that include the purchase of equipment as part of the delivery of services. The Grantee shall comply with this requirement and ensure its subcontracts issued under this Agreement, if any, impose this requirement, in writing, on its subcontractors.
 - i. For fixed-price (vendor) subcontracts, the following provisions shall apply: The Grantee may award, on a competitive basis, fixed-price subcontracts to consultants/contractors in performing the work described in Attachment 3, Grant Work Plan. Invoices submitted to Department for fixed-

price subcontracted activities shall be supported with a copy of the subcontractor's invoice and a copy of the tabulation form for the competitive procurement process (e.g., Invitation to Bid, Request for Proposals, or other similar competitive procurement document) resulting in the fixed-price subcontract. The Grantee may request approval from Department to award a fixed-price subcontract resulting from procurement methods other than those identified above. In this instance, Grantee shall request the advance written approval from Department's Grant Manager of the fixed price negotiated by Grantee. The letter of request shall be supported by a detailed budget and Scope of Services to be performed by the subcontractor. Upon receipt of Department Grant Manager's approval of the fixed-price amount, Grantee may proceed in finalizing the fixed-price subcontract.

- ii. If the procurement is subject to the Consultant's Competitive Negotiation Act under section 287.055, F.S. or the Brooks Act, Grantee must provide documentation clearly evidencing it has complied with the statutory or federal requirements.
- d. Travel. All requests for match or reimbursement of travel expenses shall be in accordance with section 112.061, F.S.
- e. Direct Purchase Equipment. For grants funded fully or in part with state funds, equipment is defined as capital outlay costing \$5,000 or more. For grants funded fully with federal funds, equipment is defined as capital outlay costing \$10,000 or more. Match or reimbursement for Grantee's direct purchase of equipment is subject to specific approval of Department, and does not include any equipment purchased under the delivery of services to be completed by a subcontractor. Include copies of invoices or receipts to document purchases, and a properly completed Exhibit B, Property Reporting Form.
- f. Rental/Lease of Equipment. Match or reimbursement requests for rental/lease of equipment must include copies of invoices or receipts to document charges.
- g. Miscellaneous/Other Expenses. If miscellaneous or other expenses, such as materials, supplies, non-excluded phone expenses, reproduction, or mailing, are reimbursable or available for match or reimbursement under the terms of this Agreement, the documentation supporting these expenses must be itemized and include copies of receipts or invoices. Additionally, independent of Grantee's contract obligations to its subcontractor, Department shall not reimburse any of the following types of charges: cell phone usage; attorney's fees or court costs; civil or administrative penalties; or handling fees, such as set percent overages associated with purchasing supplies or equipment.
- h. Land Acquisition. Reimbursement for the costs associated with acquiring interest and/or rights to real property (including access rights through ingress/egress easements, leases, license agreements, or other site access agreements; and/or obtaining record title ownership of real property through purchase) must be supported by the following, as applicable: Copies of Property Appraisals, Environmental Site Assessments, Surveys and Legal Descriptions, Boundary Maps, Acreage Certification, Title Search Reports, Title Insurance, Closing Statements/Documents, Deeds, Leases, Easements, License Agreements, or other legal instrument documenting acquired property interest and/or rights. If land acquisition costs are used to meet match requirements, Grantee agrees that those funds shall not be used as match for any other Agreement supported by State or Federal funds.

10. Status Reports.

The Grantee shall submit status reports quarterly, unless otherwise specified in the Attachments, on Exhibit A, Progress Report Form, to Department's Grant Manager describing the work performed during the reporting period, problems encountered, problem resolutions, scheduled updates, and proposed work for the next reporting period. Quarterly status reports are due no later than twenty (20) days following the completion of the quarterly reporting period. For the purposes of this reporting requirement, the quarterly reporting periods end on March 31, June 30, September 30 and December 31. The Department will review the required reports submitted by Grantee within thirty (30) days.

11. Retainage.

The following provisions apply if Department withholds retainage under this Agreement:

- a. The Department reserves the right to establish the amount and application of retainage on the work performed under this Agreement up to the maximum percentage described in Attachment 2, Special Terms and Conditions. Retainage may be withheld from each payment to Grantee pending satisfactory completion of work and approval of all deliverables.
- b. If Grantee fails to perform the requested work or fails to perform the work in a satisfactory manner, Grantee shall forfeit its right to payment of the retainage associated with the work. Failure to perform includes, but is not limited to, failure to submit the required deliverables or failure to provide adequate documentation that the work was actually performed. The Department shall provide written notification to Grantee of the failure to perform

Attachment 1

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that shall result in retainage forfeiture. If the Grantee does not correct the failure to perform within the timeframe stated in Department's notice, the retainage will be forfeited to Department.

- c. No retainage shall be released or paid for incomplete work while this Agreement is suspended.
- d. Except as otherwise provided above, Grantee shall be paid the retainage associated with the work, provided Grantee has completed the work and submits an invoice for retainage held in accordance with the invoicing procedures under this Agreement.

12. Insurance.

- a. Insurance Requirements for Sub-Grantees and/or Subcontractors. The Grantee shall require its sub-grantees and/or subcontractors, if any, to maintain insurance coverage of such types and with such terms and limits as described in this Agreement. The Grantee shall require all its sub-grantees and/or subcontractors, if any, to make compliance with the insurance requirements of this Agreement a condition of all contracts that are related to this Agreement. Sub-grantees and/or subcontractors must provide proof of insurance upon request.
- b. Deductibles. The Department shall be exempt from, and in no way liable for, any sums of money representing a deductible in any insurance policy. The payment of such deductible shall be the sole responsibility of the Grantee providing such insurance.
- c. Proof of Insurance. Upon execution of this Agreement, Grantee shall provide Department documentation demonstrating the existence and amount for each type of applicable insurance coverage *prior to* performance of any work under this Agreement. Upon receipt of written request from Department, Grantee shall furnish Department with proof of applicable insurance coverage by standard form certificates of insurance, a self-insured authorization, or other certification of self-insurance.
- d. Duty to Maintain Coverage. In the event that any applicable coverage is cancelled by the insurer for any reason, or if Grantee cannot get adequate coverage, Grantee shall immediately notify Department of such cancellation and shall obtain adequate replacement coverage conforming to the requirements herein and provide proof of such replacement coverage within ten (10) days after the cancellation of coverage.
- e. Insurance Trust. If the Grantee's insurance is provided through an insurance trust, the Grantee shall instead add the Department of Environmental Protection, its employees, and officers as an additional covered party everywhere the Agreement requires them to be added as an additional insured.

13. Termination.

- a. Termination for Convenience. When it is in the State's best interest, Department may, at its sole discretion, terminate the Agreement in whole or in part by giving 30 days' written notice to Grantee. The Department shall notify Grantee of the termination for convenience with instructions as to the effective date of termination or the specific stage of work at which the Agreement is to be terminated. The Grantee must submit all invoices for work to be paid under this Agreement within thirty (30) days of the effective date of termination. The Department shall not pay any invoices received after thirty (30) days of the effective date of termination.
- b. Termination for Cause. The Department may terminate this Agreement if any of the events of default described in the Events of Default provisions below occur or in the event that Grantee fails to fulfill any of its other obligations under this Agreement. If, after termination, it is determined that Grantee was not in default, or that the default was excusable, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of Department. The rights and remedies of Department in this clause are in addition to any other rights and remedies provided by law or under this Agreement.
- c. Grantee Obligations upon Notice of Termination. After receipt of a notice of termination or partial termination unless as otherwise directed by Department, Grantee shall not furnish any service or deliverable on the date, and to the extent specified, in the notice. However, Grantee shall continue work on any portion of the Agreement not terminated. If the Agreement is terminated before performance is completed, Grantee shall be paid only for that work satisfactorily performed for which costs can be substantiated. The Grantee shall not be entitled to recover any cancellation charges or lost profits.
- d. Continuation of Prepaid Services. If Department has paid for any services prior to the expiration, cancellation, or termination of the Agreement, Grantee shall continue to provide Department with those services for which it has already been paid or, at Department's discretion, Grantee shall provide a refund for services that have been paid for but not rendered.
- e. Transition of Services Upon Termination, Expiration, or Cancellation of the Agreement. If services provided under the Agreement are being transitioned to another provider(s), Grantee shall assist in the smooth transition of Agreement services to the subsequent provider(s). This requirement is at a minimum an affirmative obligation to cooperate with the new provider(s), however additional requirements may be outlined in the Grant

Work Plan. The Grantee shall not perform any services after Agreement expiration or termination, except as necessary to complete the transition or continued portion of the Agreement, if any.

14. Notice of Default.

If Grantee defaults in the performance of any covenant or obligation contained in the Agreement, including, any of the events of default, Department shall provide notice to Grantee and an opportunity to cure that is reasonable under the circumstances. This notice shall state the nature of the failure to perform and provide a time certain for correcting the failure. The notice will also provide that, should the Grantee fail to perform within the time provided, Grantee will be found in default, and Department may terminate the Agreement effective as of the date of receipt of the default notice.

15. Events of Default.

Provided such failure is not the fault of Department or outside the reasonable control of Grantee, the following non-exclusive list of events, acts, or omissions, shall constitute events of default:

- a. The commitment of any material breach of this Agreement by Grantee, including failure to timely deliver a material deliverable, failure to perform the minimal level of services required for a deliverable, discontinuance of the performance of the work, failure to resume work that has been discontinued within a reasonable time after notice to do so, or abandonment of the Agreement;
- b. The commitment of any material misrepresentation or omission in any materials, or discovery by the Department of such, made by the Grantee in this Agreement or in its application for funding;
- c. Failure to submit any of the reports required by this Agreement or having submitted any report with incorrect, incomplete, or insufficient information;
- d. Failure to honor any term of the Agreement;
- e. Failure to abide by any statutory, regulatory, or licensing requirement, including an entry of an order revoking the certificate of authority granted to the Grantee by a state or other licensing authority;
- f. Failure to pay any and all entities, individuals, and furnishing labor or materials, or failure to make payment to any other entities as required by this Agreement;
- g. Employment of an unauthorized alien in the performance of the work, in violation of Section 274 (A) of the Immigration and Nationality Act;
- h. Failure to maintain the insurance required by this Agreement;
- i. One or more of the following circumstances, uncorrected for more than thirty (30) days unless, within the specified 30-day period, Grantee (including its receiver or trustee in bankruptcy) provides to Department adequate assurances, reasonably acceptable to Department, of its continuing ability and willingness to fulfill its obligations under the Agreement:
 - i. Entry of an order for relief under Title 11 of the United States Code;
 - ii. The making by Grantee of a general assignment for the benefit of creditors;
 - iii. The appointment of a general receiver or trustee in bankruptcy of Grantee's business or property; and/or
 - iv. An action by Grantee under any state insolvency or similar law for the purpose of its bankruptcy, reorganization, or liquidation.

16. Suspension of Work.

The Department may, in its sole discretion, suspend any or all activities under the Agreement, at any time, when it is in the best interest of the State to do so. The Department shall provide Grantee written notice outlining the particulars of suspension. Examples of reasons for suspension include, but are not limited to, budgetary constraints, declaration of emergency, or other such circumstances. After receiving a suspension notice, Grantee shall comply with the notice. Within 90 days, or any longer period agreed to by the parties, Department shall either: (1) issue a notice authorizing resumption of work, at which time activity shall resume; or (2) terminate the Agreement. If the Agreement is terminated after 30 days of suspension, the notice of suspension shall be deemed to satisfy the thirty (30) days' notice required for a notice of termination for convenience. Suspension of work shall not entitle Grantee to any additional compensation.

17. Force Majeure.

The Grantee shall not be responsible for delay resulting from its failure to perform if neither the fault nor the negligence of Grantee or its employees or agents contributed to the delay and the delay is due directly to acts of God, wars, acts of public enemies, strikes, fires, floods, or other similar cause wholly beyond Grantee's control, or for any of the foregoing that affect subcontractors or suppliers if no alternate source of supply is available to Grantee. In case of any delay Grantee believes is excusable, Grantee shall notify Department in writing of the delay or potential delay and describe the cause of the delay either (1) within ten days after the cause that creates or will create the delay first

arose, if Grantee could reasonably foresee that a delay could occur as a result; or (2) if delay is not reasonably foreseeable, within five days after the date Grantee first had reason to believe that a delay could result. **THE FOREGOING SHALL CONSTITUTE THE GRANTEE'S SOLE REMEDY OR EXCUSE WITH RESPECT TO DELAY.** Providing notice in strict accordance with this paragraph is a condition precedent to such remedy. No claim for damages, other than for an extension of time, shall be asserted against Department. The Grantee shall not be entitled to an increase in the Agreement price or payment of any kind from Department for direct, indirect, consequential, impact or other costs, expenses or damages, including but not limited to costs of acceleration or inefficiency, arising because of delay, disruption, interference, or hindrance from any cause whatsoever. If performance is suspended or delayed, in whole or in part, due to any of the causes described in this paragraph, after the causes have ceased to exist Grantee shall perform at no increased cost, unless Department determines, in its sole discretion, that the delay will significantly impair the value of the Agreement to Department, in which case Department may: (1) accept allocated performance or deliveries from Grantee, provided that Grantee grants preferential treatment to Department with respect to products subjected to allocation; (2) contract with other sources (without recourse to and by Grantee for the related costs and expenses) to replace all or part of the products or services that are the subject of the delay, which purchases may be deducted from the Agreement quantity; or (3) terminate Agreement in whole or in part.

18. Indemnification.

- a. The Grantee shall be fully liable for the actions of its agents, employees, partners, or subcontractors and shall fully indemnify, defend, and hold harmless Department and its officers, agents, and employees, from suits, actions, damages, and costs of every name and description arising from or relating to:
 - i. personal injury and damage to real or personal tangible property alleged to be caused in whole or in part by Grantee, its agents, employees, partners, or subcontractors; provided, however, that Grantee shall not indemnify for that portion of any loss or damages proximately caused by the negligent act or omission of Department;
 - ii. the Grantee's breach of this Agreement or the negligent acts or omissions of Grantee.
- b. The Grantee's obligations under the preceding paragraph with respect to any legal action are contingent upon Department giving Grantee: (1) written notice of any action or threatened action; (2) the opportunity to take over and settle or defend any such action at Grantee's sole expense; and (3) assistance in defending the action at Grantee's sole expense. The Grantee shall not be liable for any cost, expense, or compromise incurred or made by Department in any legal action without Grantee's prior written consent, which shall not be unreasonably withheld.
- c. Notwithstanding sections a. and b. above, the following is the sole indemnification provision that applies to Grantees that are governmental entities: Each party hereto agrees that it shall be solely responsible for the negligent or wrongful acts of its employees and agents. However, nothing contained herein shall constitute a waiver by either party of its sovereign immunity or the provisions of section 768.28, F.S. Further, nothing herein shall be construed as consent by a state agency or subdivision of the State to be sued by third parties in any matter arising out of any contract or this Agreement.
- d. No provision in this Agreement shall require Department to hold harmless or indemnify Grantee, insure or assume liability for Grantee's negligence, waive Department's sovereign immunity under the laws of Florida, or otherwise impose liability on Department for which it would not otherwise be responsible. Any provision, implication or suggestion to the contrary is null and void.

19. Limitation of Liability.

The Department's liability for any claim arising from this Agreement is limited to compensatory damages in an amount no greater than the sum of the unpaid balance of compensation due for goods or services rendered pursuant to and in compliance with the terms of the Agreement. Such liability is further limited to a cap of \$100,000.

20. Remedies.

Nothing in this Agreement shall be construed to make Grantee liable for force majeure events. Nothing in this Agreement, including financial consequences for nonperformance, shall limit Department's right to pursue its remedies for other types of damages under the Agreement, at law or in equity. The Department may, in addition to other remedies available to it, at law or in equity and upon notice to Grantee, retain such monies from amounts due Grantee as may be necessary to satisfy any claim for damages, penalties, costs and the like asserted by or against it.

21. Waiver.

The delay or failure by Department to exercise or enforce any of its rights under this Agreement shall not constitute or be deemed a waiver of Department's right thereafter to enforce those rights, nor shall any single or partial exercise of any such right preclude any other or further exercise thereof or the exercise of any other right.

22. Statutory Notices Relating to Unauthorized Employment and Subcontracts.

- a. The Department shall consider the employment by any Grantee of unauthorized aliens a violation of Section 274A(e) of the Immigration and Nationality Act. If Grantee/subcontractor knowingly employs unauthorized aliens, such violation shall be cause for unilateral cancellation of this Agreement. The Grantee shall be responsible for including this provision in all subcontracts with private organizations issued as a result of this Agreement.
- b. Pursuant to sections 287.133, 287.134, and 287.137 F.S., the following restrictions apply to persons placed on the convicted vendor list, discriminatory vendor list, or the antitrust violator vendor list:
 - i. **Public Entity Crime.** A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a Grantee, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in section 287.017, F.S., for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.
 - ii. **Discriminatory Vendors.** An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity.
 - iii. **Antitrust Violator Vendors.** A person or an affiliate who has been placed on the antitrust violator vendor list following a conviction or being held civilly liable for an antitrust violation may not submit a bid, proposal, or reply on any contract to provide any good or services to a public entity; may not submit a bid, proposal, or reply on any contract with a public entity for the construction or repair of a public building or public work; may not submit a bid, proposal, or reply on leases of real property to a public entity; may not be awarded or perform work as a Grantee, supplier, subcontractor, or consultant under a contract with a public entity; and may not transact new business with a public entity.
 - iv. **Notification.** The Grantee shall notify Department if it or any of its suppliers, subcontractors, or consultants have been placed on the convicted vendor list, the discriminatory vendor list, or antitrust violator vendor list during the life of the Agreement. The Florida Department of Management Services is responsible for maintaining the discriminatory vendor list and the antitrust violator vendor list and posts the list on its website. Questions regarding the discriminatory vendor list or antitrust violator vendor list may be directed to the Florida Department of Management Services, Office of Supplier Development, at (850) 487-0915.

23. Compliance with Federal, State and Local Laws.

- a. The Grantee and all its agents shall comply with all federal, state and local regulations, including, but not limited to, nondiscrimination, wages, social security, workers' compensation, licenses, and registration requirements. The Grantee shall include this provision in all subcontracts issued as a result of this Agreement.
- b. The Grantee, its subgrantees, subcontractors and agents must also comply with the following civil rights laws and regulations:
 - i. Title VI of the Civil Rights Act of 1964 as amended (prohibiting discrimination in federally assisted programs on the basis of race, color, or national origin in the delivery of services or benefits);
 - ii. Section 13 of the 1972 Amendment to the Federal Water Pollution Control Act (prohibiting discrimination on the basis of sex in the delivery of services or benefits under the Federal Water Pollution Control Act as amended);
 - iii. Section 504 of the Rehabilitation Act of 1973 (prohibiting discrimination in federally assisted programs on the basis of disability, both in employment and in the delivery of services and benefits);
 - iv. Age Discrimination Act of 1975 (prohibiting discrimination in federally assisted programs on the basis of age in the delivery of services or benefits);

- v. 40 C.F.R. Part 7, (implementing Title VI of the Civil Rights Act of 1964, Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act, and Section 504 of the Rehabilitation Act of 1973);
- vi. United States Executive Order (EO) 13166 (federal agencies required to ensure that recipients of federal financial assistance take reasonable steps to provide meaningful access to their programs and activities by Limited English Proficiency (LEP) persons).
- vii. Florida Civil Rights Act of 1992 (Title XLIV Chapter 760, Sections 760.01, 760.11 and 509.092, F.S.), including Part I, chapter 760, F.S. (prohibiting discrimination on the basis of race, color, religion, sex, pregnancy, national origin, age, handicap, or marital status).
- c. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida.
- d. Any dispute concerning performance of the Agreement shall be processed as described herein. Jurisdiction for any damages arising under the terms of the Agreement will be in the courts of the State, and venue will be in the Second Judicial Circuit, in and for Leon County. Except as otherwise provided by law, the parties agree to be responsible for their own attorney fees incurred in connection with disputes arising under the terms of this Agreement.

24. Build America, Buy America Act (BABA) - Infrastructure Projects with Federal Funding.

This provision does not apply to Agreements that are wholly funded by Coronavirus State and Local Fiscal Recovery Funds under the American Rescue Plan Act. Also, this provision does not apply where there is a valid waiver in place. However, the provision may apply to funds expended before the waiver or after expiration of the waiver.

If applicable, Recipients or Subrecipients of an award of Federal financial assistance from a program for infrastructure are required to comply with the Build America, Buy America Act (BABA), including the following provisions:

- a. All iron and steel used in the project are produced in the United States--this means all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States;
- b. All manufactured products used in the project are produced in the United States--this means the manufactured product was manufactured in the United States; and the cost of the components of the manufactured product that are mined, produced, or manufactured in the United States is greater than 55 percent of the total cost of all components of the manufactured product, unless another standard for determining the minimum amount of domestic content of the manufactured product has been established under applicable law or regulation; and
- c. All construction materials are manufactured in the United States--this means that all manufacturing processes for the construction material occurred in the United States.

The Buy America preference only applies to articles, materials, and supplies that are consumed in, incorporated into, or affixed to an infrastructure project. As such, it does not apply to tools, equipment, and supplies, such as temporary scaffolding, brought to the construction site and removed at or before the completion of the infrastructure project. Nor does a Buy America preference apply to equipment and furnishings, such as movable chairs, desks, and portable computer equipment, that are used at or within the finished infrastructure project but are not an integral part of the structure or permanently affixed to the infrastructure project.

25. Investing in America

Grantees of an award for construction projects in whole or in part by the Bipartisan Infrastructure Law or the Inflation Reduction Act, including the following provision:

- a. Signage Requirements
 - a. Investing in America Emblem: The recipient will ensure that a sign is placed at construction sites supported in whole or in part by this award displaying the official Investing in America emblem and must identify the project as a "project funded by President Biden's Bipartisan Infrastructure Law" or "project funded by President Biden's Inflation Reduction Act" as applicable. The sign must be placed at construction sites in an easily visible location that can be directly linked to the work taking place and must be maintained in good condition throughout the construction period.
 - The recipient will ensure compliance with the guidelines and design specifications provided by EPA for using the official Investing in America emblem available at: <https://www.epa.gov/invest/investing-america-signage>.
 - b. Procuring Signs: Consistent with section 6002 of RCRA, 42 U.S.C. 6962, and 2 CFR 200.323, recipients are encouraged to use recycled or recovered materials when procuring signs. Signage

costs are considered an allowable cost under this assistance agreement provided that the costs associated with signage are reasonable. Additionally, to increase public awareness of projects serving communities where English is not the predominant language, recipients are encouraged to translate the language on signs (excluding the official Investing in America emblem or EPA logo or seal) into the appropriate non-English language(s). The costs of such translation are allowable, provided the costs are reasonable.

26. Scrutinized Companies.

- a. Grantee certifies that it is not on the Scrutinized Companies that Boycott Israel List or engaged in a boycott of Israel. Pursuant to section 287.135, F.S., the Department may immediately terminate this Agreement at its sole option if the Grantee is found to have submitted a false certification; or if the Grantee is placed on the Scrutinized Companies that Boycott Israel List or is engaged in the boycott of Israel during the term of the Agreement.
- b. If this Agreement is for more than one million dollars, the Grantee certifies that it is also not on the Scrutinized Companies with Activities in Sudan, Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or engaged with business operations in Cuba or Syria as identified in section 287.135, F.S. Pursuant to section 287.135, F.S., the Department may immediately terminate this Agreement at its sole option if the Grantee is found to have submitted a false certification; or if the Grantee is placed on the Scrutinized Companies with Activities in Sudan List, or Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or engaged with business operations in Cuba or Syria during the term of the Agreement.
- c. As provided in subsection 287.135(8), F.S., if federal law ceases to authorize these contracting prohibitions, then they shall become inoperative.

27. Lobbying and Integrity.

The Grantee agrees that no funds received by it under this Agreement will be expended for the purpose of lobbying the Legislature or a State agency pursuant to section 216.347, F.S., except that pursuant to the requirements of section 287.058(6), F.S., during the term of any executed agreement between Grantee and the State, Grantee may lobby the executive or legislative branch concerning the scope of services, performance, term, or compensation regarding that agreement. The Grantee shall comply with sections 11.062 and 216.347, F.S.

28. Record Keeping.

The Grantee shall maintain books, records and documents directly pertinent to performance under this Agreement in accordance with United States generally accepted accounting principles (US GAAP) consistently applied. The Department, the State, or their authorized representatives shall have access to such records for audit purposes during the term of this Agreement and for five (5) years following the completion date or termination of the Agreement. In the event that any work is subcontracted, Grantee shall similarly require each subcontractor to maintain and allow access to such records for audit purposes. Upon request of Department's Inspector General, or other authorized State official, Grantee shall provide any type of information the Inspector General deems relevant to Grantee's integrity or responsibility. Such information may include, but shall not be limited to, Grantee's business or financial records, documents, or files of any type or form that refer to or relate to Agreement. The Grantee shall retain such records for the longer of: (1) three years after the expiration of the Agreement; or (2) the period required by the General Records Schedules maintained by the Florida Department of State (available at:

<http://dos.myflorida.com/library-archives/records-management/general-records-schedules/>).

29. Audits.

- a. **Inspector General.** The Grantee understands its duty, pursuant to section 20.055(5), F.S., to cooperate with the inspector general in any investigation, audit, inspection, review, or hearing. The Grantee will comply with this duty and ensure that its sub-grantees and/or subcontractors issued under this Agreement, if any, impose this requirement, in writing, on its sub-grantees and/or subcontractors, respectively.
- b. **Physical Access and Inspection.** Department personnel shall be given access to and may observe and inspect work being performed under this Agreement, with reasonable notice and during normal business hours, including by any of the following methods:
 - i. Grantee shall provide access to any location or facility on which Grantee is performing work, or storing or staging equipment, materials or documents;
 - ii. Grantee shall permit inspection of any facility, equipment, practices, or operations required in performance of any work pursuant to this Agreement; and,

- iii. Grantee shall allow and facilitate sampling and monitoring of any substances, soils, materials or parameters at any location reasonable or necessary to assure compliance with any work or legal requirements pursuant to this Agreement.
- c. **Special Audit Requirements.** The Grantee shall comply with the applicable provisions contained in Attachment 5, **Special Audit Requirements**. Each amendment that authorizes a funding increase or decrease shall include an updated copy of Exhibit 1, to Attachment 5. If Department fails to provide an updated copy of Exhibit 1 to include in each amendment that authorizes a funding increase or decrease, Grantee shall request one from the Department's Grants Manager. The Grantee shall consider the type of financial assistance (federal and/or state) identified in Attachment 5, Exhibit 1 and determine whether the terms of Federal and/or Florida Single Audit Act Requirements may further apply to lower tier transactions that may be a result of this Agreement. For federal financial assistance, Grantee shall utilize the guidance provided under 2 CFR §200.331 for determining whether the relationship represents that of a subrecipient or vendor. For State financial assistance, Grantee shall utilize the form entitled "Checklist for Nonstate Organizations Recipient/Subrecipient vs Vendor Determination" (form number DFS-A2-NS) that can be found under the "Links/Forms" section appearing at the following website: <https://apps.fldfs.com/fsaa>.
- d. **Proof of Transactions.** In addition to documentation provided to support cost reimbursement as described herein, Department may periodically request additional proof of a transaction to evaluate the appropriateness of costs to the Agreement pursuant to State guidelines (including cost allocation guidelines) and federal, if applicable. Allowable costs and uniform administrative requirements for federal programs can be found under 2 CFR 200. The Department may also request a cost allocation plan in support of its multipliers (overhead, indirect, general administrative costs, and fringe benefits). The Grantee must provide the additional proof within thirty (30) days of such request.
- e. **No Commingling of Funds.** The accounting systems for all Grantees must ensure that these funds are not commingled with funds from other agencies. Funds from each agency must be accounted for separately. Grantees are prohibited from commingling funds on either a program-by-program or a project-by-project basis. Funds specifically budgeted and/or received for one project may not be used to support another project. Where a Grantee's, or subrecipient's, accounting system cannot comply with this requirement, Grantee, or subrecipient, shall establish a system to provide adequate fund accountability for each project it has been awarded.
 - i. If Department finds that these funds have been commingled, Department shall have the right to demand a refund, either in whole or in part, of the funds provided to Grantee under this Agreement for non-compliance with the material terms of this Agreement. The Grantee, upon such written notification from Department shall refund, and shall forthwith pay to Department, the amount of money demanded by Department. Interest on any refund shall be calculated based on the prevailing rate used by the State Board of Administration. Interest shall be calculated from the date(s) the original payment(s) are received from Department by Grantee to the date repayment is made by Grantee to Department.
 - ii. In the event that the Grantee recovers costs, incurred under this Agreement and reimbursed by Department, from another source(s), Grantee shall reimburse Department for all recovered funds originally provided under this Agreement and interest shall be charged for those recovered costs as calculated on from the date(s) the payment(s) are recovered by Grantee to the date repayment is made to Department.
 - iii. Notwithstanding the requirements of this section, the above restrictions on commingling funds do not apply to agreements where payments are made purely on a cost reimbursement basis.

30. Conflict of Interest.

The Grantee covenants that it presently has no interest and shall not acquire any interest which would conflict in any manner or degree with the performance of services required.

31. Independent Contractor.

The Grantee is an independent contractor and is not an employee or agent of Department.

32. Subcontracting.

- a. Unless otherwise specified in the Special Terms and Conditions, all services contracted for are to be performed solely by Grantee.
- b. The Department may, for cause, require the replacement of any Grantee employee, subcontractor, or agent. For cause, includes, but is not limited to, technical or training qualifications, quality of work, change in security status, or non-compliance with an applicable Department policy or other requirement.

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- c. The Department may, for cause, deny access to Department's secure information or any facility by any Grantee employee, subcontractor, or agent.
- d. The Department's actions under paragraphs b. or c. shall not relieve Grantee of its obligation to perform all work in compliance with the Agreement. The Grantee shall be responsible for the payment of all monies due under any subcontract. The Department shall not be liable to any subcontractor for any expenses or liabilities incurred under any subcontract and Grantee shall be solely liable to the subcontractor for all expenses and liabilities incurred under any subcontract.
- e. The Department will not deny Grantee's employees, subcontractors, or agents access to meetings within the Department's facilities, unless the basis of Department's denial is safety or security considerations.
- f. A list of minority-owned firms that could be offered subcontracting opportunities may be obtained by contacting the Office of Supplier Development at (850) 487-0915.
- g. The Grantee shall not be liable for any excess costs for a failure to perform, if the failure to perform is caused by the default of a subcontractor at any tier, and if the cause of the default is completely beyond the control of both Grantee and the subcontractor(s), and without the fault or negligence of either, unless the subcontracted products or services were obtainable from other sources in sufficient time for Grantee to meet the required delivery schedule.

33. Guarantee of Parent Company.

If Grantee is a subsidiary of another corporation or other business entity, Grantee asserts that its parent company will guarantee all of the obligations of Grantee for purposes of fulfilling the obligations of Agreement. In the event Grantee is sold during the period the Agreement is in effect, Grantee agrees that it will be a requirement of sale that the new parent company guarantee all of the obligations of Grantee.

34. Survival.

The respective obligations of the parties, which by their nature would continue beyond the termination or expiration of this Agreement, including without limitation, the obligations regarding confidentiality, proprietary interests, and public records, shall survive termination, cancellation, or expiration of this Agreement.

35. Third Parties.

The Department shall not be deemed to assume any liability for the acts, failures to act or negligence of Grantee, its agents, servants, and employees, nor shall Grantee disclaim its own negligence to Department or any third party. This Agreement does not and is not intended to confer any rights or remedies upon any person other than the parties. If Department consents to a subcontract, Grantee will specifically disclose that this Agreement does not create any third-party rights. Further, no third parties shall rely upon any of the rights and obligations created under this Agreement.

36. Severability.

If a court of competent jurisdiction deems any term or condition herein void or unenforceable, the other provisions are severable to that void provision, and shall remain in full force and effect.

37. Grantee's Employees, Subcontractors and Agents.

All Grantee employees, subcontractors, or agents performing work under the Agreement shall be properly trained technicians who meet or exceed any specified training qualifications. Upon request, Grantee shall furnish a copy of technical certification or other proof of qualification. All employees, subcontractors, or agents performing work under Agreement must comply with all security and administrative requirements of Department and shall comply with all controlling laws and regulations relevant to the services they are providing under the Agreement.

38. Assignment.

The Grantee shall not sell, assign, or transfer any of its rights, duties, or obligations under the Agreement, or under any purchase order issued pursuant to the Agreement, without the prior written consent of Department. In the event of any assignment, Grantee remains secondarily liable for performance of the Agreement, unless Department expressly waives such secondary liability. The Department may assign the Agreement with prior written notice to Grantee of its intent to do so.

39. Compensation Report.

If this Agreement is a sole-source, public-private agreement or if the Grantee, through this agreement with the State, annually receive 50% or more of their budget from the State or from a combination of State and Federal funds, the Grantee shall provide an annual report, including the most recent IRS Form 990, detailing the total compensation for the entities' executive leadership teams. Total compensation shall include salary, bonuses, cashed-in leave, cash equivalents, severance pay, retirement benefits, deferred compensation, real-property gifts, and any other payout. The Grantee must also inform the Department of any changes in total executive compensation between the annual reports. All compensation reports must indicate what percent of compensation comes directly from the State or Federal allocations to the Grantee.

40. Disclosure of Gifts from Foreign Sources.

If the value of the grant under this Agreement is \$100,000 or more, Grantee shall disclose to Department any current or prior interest of, any contract with, or any grant or gift received from a foreign country of concern, as defined in section 286.101, F.S., if such interest, contract, or grant or gift has a value of \$50,000 or more and such interest existed at any time or such contract or grant or gift was received or in force at any time during the previous 5 years. Such disclosure shall include the name and mailing address of the disclosing entity, the amount of the contract or grant or gift or the value of the interest disclosed, the applicable foreign country of concern and, if applicable, the date of termination of the contract or interest, the date of receipt of the grant or gift, and the name of the agent or controlled entity that is the source or interest holder. If the disclosure requirement is applicable as described above, then within 1 year before applying for any grant, Grantee must also provide a copy of such disclosure to the Department of Financial Services.

41. Food Commodities.

To the extent authorized by federal law, the Department, its grantees, contractors and subcontractors shall give preference to food commodities grown or produced in this state when purchasing food commodities, including farm products as defined in section 823.14, F.S., of any class, variety, or use thereof in their natural state or as processed by a farm operation or processor for the purpose of marketing such product.

42. Anti-human Trafficking.

If the Grantee is a nongovernmental entity, the Grantee must provide the Department with an affidavit signed by an officer or a representative of the Grantee under penalty of perjury attesting that the Grantee does not use coercion for labor or services as defined in section 787.06, F.S.

43. Iron and Steel for Public Works Projects.

If this Agreement funds a "public works project" as defined in section 255.0993, F.S., or the purchase of materials to be used in a public works project, any iron or steel permanently incorporated in the Project must be "produced in the United States," as defined in section 255.0993, F.S. This requirement does not apply if the Department determines that any of the following circumstances apply to the Project:

- (1) iron or steel products produced in the United States are not produced in sufficient quantities, reasonably available, or of satisfactory quality;
- (2) the use of iron or steel products produced in the United States will increase the total cost of the project by more than twenty percent (20%); or
- (3) complying with this requirement is inconsistent with the public interest.

Further, this requirement does not prevent the Contractor's minimal use of foreign steel and iron materials if:

- (1) such materials are incidental or ancillary to the primary product and are not separately identified in the project specifications; and
- (2) the "cost" of such materials, as defined in section 255.0993, F.S., does not exceed one-tenth of one percent (1%) of the total Project Cost under this Agreement or \$2,500, whichever is greater.

Electrical components, equipment, systems, and appurtenances, including supports, covers, shielding, and other appurtenances related to an electrical system that are necessary for operation or concealment (excepting transmission and distribution poles) are not considered to be iron or steel products and are, therefore, exempt from the requirements of this paragraph.

This provision shall be applied in a manner consistent with and may not be construed to impair the state's obligations under any international agreement.

44. Complete and Accurate information.

Grantee represents and warrants that all statements and information provided to DEP are current, complete, and accurate. This includes all statements and information in this Grant, as well as its Attachments and Exhibits.

45. Execution in Counterparts and Authority to Sign.

This Agreement, any amendments, and/or change orders related to the Agreement, may be executed in counterparts, each of which shall be an original and all of which shall constitute the same instrument. In accordance with the Electronic Signature Act of 1996, electronic signatures, including facsimile transmissions, may be used and shall have the same force and effect as a written signature. Each person signing this Agreement warrants that he or she is duly authorized to do so and to bind the respective party to the Agreement.

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Special Terms and Conditions
AGREEMENT NO. INV64**

ATTACHMENT 2

These Special Terms and Conditions shall be read together with general terms outlined in the Standard Terms and Conditions, Attachment 1. Where in conflict, these more specific terms shall apply.

1. Scope of Work.

The Project funded under this Agreement is Indian River Lagoon Circulation and Water Quality Forecast Model. The Project is defined in more detail in Attachment 3, Grant Work Plan.

2. Duration.

- a. Reimbursement Period. The reimbursement period for this Agreement begins upon execution and ends at the expiration of the Agreement.
- b. Extensions. There are extensions available for this Project.
- c. Service Periods. Additional service periods are not authorized under this Agreement.

3. Payment Provisions.

- a. Compensation. This is a cost reimbursement Agreement. The Grantee shall be compensated under this Agreement as described in Attachment 3.
- b. Invoicing. Invoicing will occur as indicated in Attachment 3.
- c. Advance Pay. Advance Pay is not authorized under this Agreement.

4. Cost Eligible for Reimbursement or Matching Requirements.

Reimbursement for costs or availability for costs to meet matching requirements shall be limited to the following budget categories, as defined in the Reference Guide for State Expenditures, as indicated:

<u>Reimbursement</u>	<u>Match</u>	<u>Category</u>
<input type="checkbox"/>	<input type="checkbox"/>	Salaries/Wages
		Overhead/Indirect/General and Administrative Costs:
<input type="checkbox"/>	<input type="checkbox"/>	a. Fringe Benefits, N/A.
<input type="checkbox"/>	<input type="checkbox"/>	b. Indirect Costs, N/A.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Contractual (Subcontractors)
<input type="checkbox"/>	<input type="checkbox"/>	Travel, in accordance with Section 112, F.S.
<input type="checkbox"/>	<input type="checkbox"/>	Equipment
<input type="checkbox"/>	<input type="checkbox"/>	Rental/Lease of Equipment
<input type="checkbox"/>	<input type="checkbox"/>	Miscellaneous/Other Expenses
<input type="checkbox"/>	<input type="checkbox"/>	Land Acquisition

5. Equipment Purchase.

No Equipment purchases shall be funded under this Agreement.

6. Land Acquisition.

There will be no Land Acquisitions funded under this Agreement.

7. Match Requirements

There is no match required on the part of the Grantee under this Agreement.

8. Insurance Requirements

Required Coverage. At all times during the Agreement the Grantee, at its sole expense, shall maintain insurance coverage of such types and with such terms and limits described below. The limits of coverage under each policy maintained by the Grantee shall not be interpreted as limiting the Grantee's liability and obligations under the Agreement. Grantee shall provide coverage through a self-insurance program established and operating under the laws of Florida. Additional insurance requirements for this Agreement may be required elsewhere in this Agreement, however the minimum insurance requirements applicable to this Agreement are:

- a. **Comprehensive General Liability Insurance.**
The Grantee shall provide adequate comprehensive general liability insurance coverage and hold such liability insurance at all times during the Agreement. The minimum limits shall be \$200,000 for each person and \$300,000 per occurrence.
- b. **Commercial Automobile Insurance.**
If the Grantee's duties include the use of a commercial vehicle, the Grantee shall maintain automobile liability, bodily injury, and property damage coverage. Insuring clauses for both bodily injury and property damage shall provide coverage on an occurrence basis. The minimum limits shall be as follows:

\$200,000/300,000	Automobile Liability for Company-Owned Vehicles, if applicable
\$200,000/300,000	Hired and Non-owned Automobile Liability Coverage
- c. **Workers' Compensation.**
The Grantee shall comply with the workers' compensation requirements of Chapter 440, F.S.
- d. **Other Insurance.** None.

9. Quality Assurance Requirements.

The Grantee shall develop and implement quality assurance practices consisting of policies, procedures, specifications, standards, and documentation sufficient to produce data of quality adequate to meet Project objectives and to minimize loss of data due to out-of-control conditions or malfunctions. All sampling and analyses performed under this Agreement must conform with the requirements set forth in Chapter 62-160, Florida Administrative Code, and the Quality Assurance Requirements for Department Agreements, attached hereto and made part hereof as Exhibit D, Quality Assurance Requirements for Grants.

10. Retainage.

No retainage is required under this Agreement.

11. Subcontracting.

The Grantee may subcontract work under this Agreement without the prior written consent of the Department's Grant Manager except for certain fixed-price subcontracts pursuant to this Agreement, which require prior approval. The Grantee shall submit a copy of the executed subcontract to the Department prior to submitting any invoices for subcontracted work. Regardless of any subcontract, the Grantee is ultimately responsible for all work to be performed under this Agreement.

12. State-owned Land.

The work will not be performed on State-owned land.

13. Office of Policy and Budget Reporting.

There are no special Office of Policy and Budget reporting requirements for this Agreement.

14. Common Carrier.

- a. Applicable to contracts with a common carrier – firm/person/corporation that as a regular business transports people or commodities from place to place. If applicable, Contractor must also fill out and return PUR 1808 before contract execution. If Contractor is a common carrier pursuant to section 908.111(1)(a), Florida Statutes, the Department will terminate this contract immediately if Contractor is found to be in violation of the law or the attestation in PUR 1808.
- b. Applicable to solicitations for a common carrier – Before contract execution, the winning Contractor(s) must fill out and return PUR 1808, and attest that it is not willfully providing any service in furtherance of

transporting a person into this state knowing that the person unlawfully present in the United States according to the terms of the federal Immigration and Nationality Act, 8 U.S.C. ss. 1101 et seq. The Department will terminate a contract immediately if Contractor is found to be in violation of the law or the attestation in PUR 1808.

15. Financial Assistance and Payment of Invoices to Rural Communities or Rural Areas of Opportunity

This agreement does not provide federal or state financial assistance to a county or municipality that is a rural community or rural area of opportunity as those terms are defined in s. 288.0656(2).

16. Additional Terms.

None.

Any terms added here must be approved by the Office of General Counsel.

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
GRANT WORK PLAN
DEP AGREEMENT NO.: INV64**

ATTACHMENT 3

PROJECT TITLE: Indian River Lagoon Circulation and Water Quality Forecast Model

PROJECT LOCATION: Indian River Lagoon basins from Ponce de Leon Inlet to Ft. Pierce Inlet

PROJECT BACKGROUND: The Indian River Lagoon (IRL) is a vital ecological asset, supporting diverse species and providing significant economic benefits through tourism and fisheries. However, the increasing frequency and intensity of Harmful Algal Blooms (HABs), driven by nutrient pollution, and other factors, threaten the lagoon's health and sustainability. Numerical modeling offers a powerful tool for forecasting HABs, enabling proactive management and mitigation strategies. By integrating various environmental parameters, such as water temperature, salinity, nutrient levels, and meteorological data, a comprehensive model can provide timely predictions and help in decision-making processes. This project will implement an ongoing real-time hydrodynamic water quality forecast model over the Indian River Lagoon system. The forecast will be an early warning system for adverse water quality conditions, including harmful algal blooms (HABs).

PROJECT DESCRIPTION: To integrate various environmental data collected during the inflow pilot project and determine the spatial and temporal signature of pump inflow, the Grantee's subcontractor will implement a real-time hydrodynamic water quality forecast model over the Indian River Lagoon system, including high spatial resolution in the inflow project area. Numerical model predictions will be based on the Delft3D model's capability to couple hydrodynamics with ecosystem dynamics. By integrating data on water level flows, circulation, and freshwater inputs, along with pump forced inflows, detailed information on nutrient cycling, algal growth, and submerged aquatic vegetation, the model can generate high-resolution predictions of water quality and habitat conditions under time-varying environmental conditions.

The modeling effort will assimilate ongoing water quality data from in situ and satellite-based monitoring resources into a numerical modeling scheme that will provide continuous predictions of IRL water quality at high spatial resolution. Large seasonal and interannual shifts in the coastal ocean sea level of Florida and along the southeast coast of the U.S. are known to be caused by changes in Gulf Stream flow. The timing of higher and lower sea levels propagating into the IRL system has primary control over estuarine residence time. Thus, the modeling will dynamically include the impacts of the Gulf Stream through data assimilation at the seaward model boundaries. A full list of water quality constituent groups will be included to provide the ecosystem linkages required to predict and track water quality and potentially HABs through the IRL system. Model forecasts will be disseminated to the public and stakeholders by an interactive web-based data portal.

Modeling Approach: Hydrodynamics and Transport

Delft3D is a widely used, open-source numerical modeling suite developed by Deltares for simulating hydrodynamic, sediment transport, water quality, and ecological processes in estuarine environments. The hydrodynamic module of Delft3D, often referred to as Delft3D-FLOW, forms the core of the system and handles simulating the movement of water under the influence of tides, wind, density gradients, and other forces.

Delft3D-FLOW can incorporate varying bottom roughness, dynamic water levels, wetting and drying of intertidal zones, and the effects of meteorological forcing such as wind stress and atmospheric pressure.

Boundary conditions in Delft3D can be prescribed in terms of tidal constituents, time series of water levels or discharges, and salinity or temperature gradients. The model supports both barotropic and baroclinic simulations, enabling the analysis of stratification and mixing due to salinity and temperature differences. A key strength of Delft3D is its ability to couple the FLOW module with other modules such as WAQ (water quality), MOR (morphology), and PART (particle tracking), allowing integrated studies of physical-biogeochemical processes.

Water Quality Calculations

Delft3D includes a comprehensive water quality module known as Delft3D-WAQ, which enables simulation of a wide range of biogeochemical and water quality processes in aquatic environments. Delft3D-WAQ is a process-based tool coupled with the hydrodynamic module (Delft3D-FLOW) to simulate the transport, transformation, and fate of multiple water quality constituents in estuaries.

The WAQ tracks the spatial and temporal evolution of user-defined substances, such as nutrients (nitrogen, phosphorus), dissolved oxygen, chlorophyll-a, suspended solids, contaminants, and microbial indicators. It can manage complex, dynamic interactions between substances, including primary production, respiration, nitrification, denitrification, sediment-water fluxes, and decay processes. It also allows coupling to sediment transport models, enabling simulation of contaminant adsorption/desorption and sediment-borne pollutant dynamics.

TASKS and DELIVERABLES:

Task 1: Quality Assurance Manual:

Task Description: The Grantee will develop a Quality Assurance (QA) Manual to describe how data will be evaluated for usability. This document will identify the project data quality objectives, data quality indicators and acceptance criteria, and will define procedures for data acquisition, review, qualification, and storage.

Deliverable 1a: First Draft QA Manual

Draft QA Manual submitted electronically in Word format to the Department's Grant Manager. Upon request, the Grantee will provide a paper copy of the Draft QA Manual to the Department's Grant Manager. The following lists the expected deliverables that are associated with the quality assurance requirements of this Grant:

- a. The Grantee shall submit the Grant Quality Assurance Manual (QA Manual) to the DEP Grant Manager no later than 45 days prior to the commencement of grant related activities. Failure to submit the QA Manual in this required timeframe shall result in a delay of approval to begin work until the document has been submitted to the Department and approved (or conditionally approved) by the DEP Grant Manager.
 - (i). The Grantee may submit a version of the QA Manual to the Department for approval no more than three times. If the Grantee fails to obtain approval for the QA Manual after the third (final) submission to the Department, the DEP Grant Manager may suspend or terminate the Grant per the remedies included in the Grant.
 - (ii). Within 45 days of receipt of the QA Manual by the Department, the Department shall review and either approve the QA Manual or provide comments to the Grantee as to why the QA Manual is not approved. If further revisions are needed, the Grantee shall then have 15 days from the receipt of review comments to respond. The Department shall respond to all revisions to the QA Manual within 30 days of receipt of any revisions.

- (iii). If the review of the QA Manual by the Department is delayed beyond sixty (60) days after the QA Manual is received by the Department, through no fault of the Grantee, the Grantee shall have the option, after the QA Manual is approved, of requesting an extension in the term of the Grant for a time not to exceed the period of delayed review and approval. This option must be exercised at least sixty (60) days prior to the current termination date of the Grant. The Department shall then determine whether the request for an extension is allowed.
- (iv). If any significant changes in project design, changes in procedures or test methods, changes in equipment, or changes in key personnel occur, the Grantee shall submit appropriate revisions of the QA Manual to the DEP Grant Manager for review in writing. The proposed revisions may not be implemented until they have been approved (or conditionally approved) by the DEP Grant Manager. If the Grantee fails to submit the required revisions, the DEP Grant Manager may suspend or terminate the Grant per the remedies included in the Grant.

Performance Standard: The Department's Grant Manager will ensure review of the draft QA Manual for compliance with this Agreement and the quality assurance requirements, to ensure sufficient monitoring is planned to measure project effectiveness, and provide comments to the Grantee as needed prior to Final QA Manual submittal.

Deliverable 1b: Second Draft QA Manual

The Grantee will submit a Second draft QA Manual electronically in Word format to the Department's Grant Manager. Upon request, the Grantee will provide a paper copy of the Draft QA Manual to the Department's Grant Manager.

Performance Standard: The Department's Grant Manager will review the Second Draft QA Manual to ensure that first draft comments have been incorporated and for compliance with this Agreement and provide comments to the Grantee as needed prior to Final QA Manual submittal.

Deliverable 1c: Final QA Manual

The Grantee will submit a Final Department-approved QA Manual electronically in Word format to the Department's Grant Manager. Upon request, the Grantee will provide a paper copy of the Final QA Manual to the Department's Grant Manager.

Performance Standard: The Department's Grant manager will review the Final QA Manual to ensure that comments from previous drafts have been incorporated and the Final QA Manual is compliant with this Agreement and the quality assurance requirements. Upon review and written approval by the Department's Grant Manager of the Final QA Manual, the Grantee may proceed with payment request submittal.

Payment Request Schedule: Grantee may submit a payment request for cost reimbursement upon completion of the task and Department approval of all associated task deliverables.

Task 2: Assembly of a High-Resolution Topographic Data of the Indian River Lagoon Basins from Traditional and LiDAR Survey Data Sources

Task Description: The Grantee will collect all relevant sources of topographic and bathymetric data to generate a high-resolution computational grid for the Delft3D model of the IRL. The sources of data include, but are not limited to those listed in the table below:

Source	Type of Data	Access
NOAA Digital Coast	Topo-Bathy LiDAR, Elevation Grids	https://coast.noaa.gov/dataviewer/
NOAA NCEI	Bathymetric Soundings, Hydrological Surveys	https://www.ncei.noaa.gov/
NOAA Bathymetric Viewer	Multibeam/Single beam Bathymetry	https://maps.ngdc.noaa.gov
USGS 3DEP / EarthExplorer	Topographic LiDAR, DEMs	https://earthexplorer.usgs.gov/
USACE Jacksonville District	Navigation Channel Surveys	https://www.saj.usace.army.mil/
DEP (FSMI)	Bathymetric Maps, Sonar Surveys	https://www.floridagio.gov/pages/fsmi
FDOT	Bridge Project Surveys, LiDAR	Direct request or project-specific reports
SJRWMD	Bathymetry for Modeling	https://www.sjrwmd.com/
NASA Kennedy Space Center	Indian River Lagoon Coastal LiDAR	NASA Environmental Programs Office
Florida Geog. Data Library	GIS Layers (Topo/Bathy)	https://www.fgdl.org/

Deliverables: The Grantee will submit a summary report that identifies the data providers, data types, periods of record and other relevant metadata, and includes statements of data usability relative to the criteria defined in the QA Manual, of all data sources used to generate the computational grid for the Delft3D model of the IRL.

Performance Standard: The Department's Grant Manager will review the deliverables to verify that they meet the specifications in the Grant Work Plan and this task description. Upon review and written acceptance by the Department's Grant Manager of all deliverables under this task the Grantee may proceed with payment request submittal.

Payment Request Schedule: Grantee may submit a payment request for cost reimbursement upon completion of the task and Department approval of all associated task deliverables.

Task 3: Model Computational Grid Generation

Task Description: The Grantee will define the spatial extent of the study area using GIS-generated base maps and aerial imagery that will be combined with LiDAR, and the bathymetric surveys collected under Task 2. Georeferenced base layers (e.g., shoreline, bathymetry, Digital Elevation Models (DEM) will be imported into the Delft suite grid generation tool *RGFGRID*. *RGFGRID* is used to draw the grid interactively and define control lines that guide the curvature and spacing of the grid cells. The grid design is set over the digital elevation models developed in Task 2 data and interpolated depth values are assigned to each grid cell using the Delft suite *QUICKIN* tool. The model grid will be checked for orthogonality, cell aspect ratios, and consistency. The grid file will be saved in the grid in the required format (typically .grd) for use in the Delft3D-FLOW and Delft3D-WAQ modules.

Deliverables: The Grantee will submit a model computational grid in .dxf or shape file format.

Performance Standard: The Department's Grant Manager will review the deliverable to verify that it meets the specifications in the Grant Work Plan and this task description. Upon review and written acceptance by the Department's Grant Manager of all deliverables under this task the Grantee may proceed with payment request submittal.

Payment Request Schedule: Grantee may submit a payment request for cost reimbursement upon completion of the task and Department approval of all associated task deliverables.

Task 4: Model Setup and Testing

Task Description: Once the computational grid is verified, setting up the Delft3D modeling system begins with configuring the Delft3D-FLOW module for hydrodynamic simulation. This involves importing the grid, interpolating bathymetry, and defining boundary conditions, including open boundaries for tidal and freshwater inflows, and closed land boundaries. Time-varying forcings, such as water level, salinity and temperature, are assigned through boundary and discharge files. Initial conditions are defined using either observation-based datasets or results from prior simulations, especially in real-time forecasting. Model time parameters and numerical settings, such as turbulence schemes, bottom roughness and wetting/drying treatment, are specified in the FLOW definition file. Meteorological inputs like wind and radiation are added via the meteorological control file, and output configurations are set for desired variables such as currents, water levels and temperature. Once all inputs are prepared, the FLOW model is executed to generate hydrodynamic fields, with log files providing diagnostic output.

Following FLOW simulations, the Delft3D-WAQ module simulates water quality using transport fields derived from FLOW. A segmentation file is created to define the computational compartments, each inheriting hydrodynamic properties from the FLOW results. Water quality substances to simulate range from conservative tracers to complex biogeochemical cycles, via substance definition files, including parameters like decay rates and initial concentrations. Physical, chemical, and biological processes are selected from a process library and parameterized in table files. Forcing functions such as boundary concentrations, temperature profiles, and watershed loads are introduced through time series files linked to segments or boundaries via a location file. Once the model is fully configured, the WAQ module runs simulations of time-varying concentrations throughout the domain, storing outputs for visualization and analysis.

Deliverables: The Grantee will give a recorded virtual demonstration of the stable execution of the modeling scheme based on boundary conditions derived from historical data to Department staff over Microsoft Teams. Grantee will also submit any presentation materials as applicable.

Performance Standard: The Department's Grant Manager will review the deliverables to verify that they meet the specifications in the Grant Work Plan and this task description. Upon review and written acceptance by the Department's Grant Manager of all deliverables under this task, the Grantee may proceed with payment request submittal.

Payment Request Schedule: Grantee may submit a payment request for cost reimbursement upon completion of the task and Department approval of all associated task deliverables.

Task 5: Operation of Ongoing Real-Time Delft3D-Flow and Delft3D-WAQ Forecast

Task Description: The system will generate continuously updated simulations of hydrodynamic and water quality conditions in the Indian River Lagoon by integrating boundary condition data from real-time monitoring networks and meteorological forecasts. This system will provide predictive capabilities essential for early warning of harmful algal blooms (HABs), low dissolved oxygen episodes, and changes in estuarine flushing dynamics. The forecasting system will leverage the Delft3D-FLOW module for hydrodynamics and the Delft3D-WAQ module for water quality, using a suite of custom-developed Python and shell scripts to automate the acquisition, formatting, and assimilation of boundary data. These scripts will operate within a scheduled pipeline that updates model inputs and executes new forecast simulations on a routine basis.

Upon completion of the model runs, figures and data summaries will be posted to a web-accessible dashboard.

Deliverables: The Grantee will submit 1) the web address for the model dashboard, and; 2) documentation that the website has been made available to the public.

Performance Standard: The Department's Grant Manager will review the deliverables to verify that they meet the specifications in the Grant Work Plan and this task description. Upon review and written acceptance by the Department's Grant Manager of all deliverables under this task, the Grantee may proceed with payment request submittal.

Payment Request Schedule: Grantee may submit a payment request for cost reimbursement upon completion of the task and Department approval of all associated task deliverables.

Task 6: Model Validation

Task Description: Once the model system is operational, it will be calibrated and validated against observed data and then used to assess the behavior of hydrodynamic and ecological processes under various conditions. The Delft3D-FLOW and Delft3D-WAQ models for the Indian River Lagoon will be calibrated using historical observations of water levels, salinity, temperature, and water quality indicators collected from multiple monitoring stations across the lagoon.

Model calibration will be conducted using multi-month historical periods encompassing seasonal variability and freshwater inflow extremes. Calibration parameters will be adjusted iteratively to minimize the error between modeled and observed time series.

Following calibration, the model will be validated using an independent dataset. Validation will be focused on comparing predicted and observed values for water levels, salinity and temperature from in-situ sensors, nutrient concentrations and phytoplankton biomass from monitoring data.

Statistical performance metrics such as RMSE, bias, correlation coefficient, and Nash-Sutcliffe Efficiency (NSE) will be calculated to assess model skill.

Deliverables: The Grantee will submit a summary report describing the calibration and validation statistics, including graphic presentations of model data compared to measured data.

Performance Standard: The Department's Grant Manager will review the deliverable to verify that it meets the specifications in the Grant Work Plan and this task description. Upon review and written acceptance by the Department's Grant Manager of all deliverables under this task, the Grantee may proceed with payment request submittal.

Payment Request Schedule: Grantee may submit a payment request for cost reimbursement upon Department approval of each associated task deliverable.

Task 7: Data Management/Web Presentation

As the model advances, the data Post-Processing Pipeline will convert output files to standard formats (NetCDF/GeoTIFF), interpolate spatial data into GIS-friendly maps, aggregate time series data and create graphics and animations. Data will be stored on a local RAID server for fast access and backed up to cloud storage (e.g., AWS S3). Interactive visualizations will be built using web mapping libraries and time series dashboards. A dedicated web domain will provide the visualization and data download interface. Users will be able to explore forecast outputs across space and time, while researchers can

access raw data using secured API keys. Daily backups and off-site replication will be completed for data protection. Final decisions on tools and frameworks will be made as the project proceeds.

A virtual demonstration of the model will be provided to a meeting of the Save Our Indian River Lagoon Citizen Oversight Committee (SOIRL COC) including how to access the model, the on-line user's guide and a basic overview of the model's features.

Deliverables: The Grantee will submit 1) the web address to the fully operational, ongoing hydrodynamic and water quality model, as well as a user guide and interface documentation, and; 2) presentation slides or a presentation recording of the virtual demonstration to the SOIRL COC, to the Department's Grant Manager.

Performance Standard: The Department's Grant Manager will review the deliverable to verify that it meets the specifications in the Grant Work Plan and this task description. Upon review and written acceptance by the Department's Grant Manager of all deliverables under this task, the Grantee may proceed with payment request submittal.

Payment Request Schedule: Grantee may submit a payment request for cost reimbursement upon completion of the task and Department approval of all associated task deliverables.

Task 8: Final Report and Presentation

Task Description: The Grantee will prepare a Final Report compliant with the Departments template summarizing the results of the project, including all tasks in the Grant Work Plan. The Final Report must include at a minimum:

- Executive Summary providing a concise overview of the project scope, objectives, key findings, and implications for the target community or stakeholders.
- Project location and background, project description and timeline, grant award amount and anticipated benefits.
- Financial summary of actual costs versus the budget, along with any changes required to the budget. Include any match or locally pledged contributions provided, along with other related project work performed outside of this Agreement to identify the overall project cost.
- Discussion of project schedule versus actual completion, including changes required to the schedule, unexpected site conditions and adjustments, significant unexpected delays and corrections, and/or other significant deviations from the original project plan.
- Summary of activities completed as well as those not completed and why, as well as a brief summary of any additional phases yet to be completed.
- Documentation of work performed, appropriate figures, appropriate tables summarizing data/information relevant to Grant Work Plan tasks, and appropriate attachments relevant to the project.
- Discussion of whether the anticipated benefits have been realized.
- Summary of data collection and evaluation activities completed and any not completed and why, and an interpretation of data based on planned versus realized results.
- A Techno-Economic Analysis (TEA) to evaluate the economic performance of the technology.

The Grantee is required to provide the Department with a presentation on the results of their project. The Grantee has the option to provide a virtual presentation (Microsoft Teams) or an in-person presentation of their Final Report. The Grantee will notify the Department's Grant Manager of their decision prior to their submission of the Final Report. The presentation will be no more than 50 minutes in duration with an additional 10 minutes allotted for questions and answers.

Deliverable 8a: The Grantee will submit an electronic copy of the draft Final Report in Word format submitted to the Department's Grant Manager for review and comments, prior to submission of the Final Report. Upon request, the Grantee will provide a paper copy of the draft Final Report.

Performance Standard: The Department's Grant Manager will review the submitted draft Final Report to verify that it meets the specifications in the Grant Work Plan and this task description, and provide any comments to the Grantee for incorporation into the Final Report

Deliverable 8b: The Grantee will submit an electronic copy of the Final Report, with all suggested changes incorporated, in PDF format submitted to the Department's Grant Manager for review and approval. Upon request, the Grantee will provide a paper copy of the Final Report.

Performance Standard: Upon review and written approval by the Department's Grant Manager of the Final Report, the Grantee may proceed with payment request submittal for this task.

Payment Request Schedule: Grantee may submit a payment request for cost reimbursement upon completion of the task and Department approval of all associated task deliverables.

Deliverable 8c: Final Report Presentation: The Grantee will submit 1) an electronic copy of the Final Report Presentation no later than five business days prior to presentation day. Upon request, the Grantee will provide a paper copy of the Final Report Presentation and 2) photo documentation of the work performed appropriate for inclusion on the Innovative Technologies Story Map web page to showcase the project

Performance Standard: The Department's Grant Manager will review the deliverable to verify that it is in compliance with this task description.

Payment Request Schedule: Grantee may submit a payment request for cost reimbursement upon Department approval of all associated task deliverables.

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PROJECT TIMELINE: The tasks must be completed by the corresponding task end date and all deliverables must be received by the designated due date.

Task/ Deliverable No.	Task or Deliverable Title	Task Start Date	Task End Date	Deliverable Due Date/ Frequency
1	QA Manual	Upon Execution	255 days after execution	
	First Draft QA Manual			90 days after execution
	Second Draft QA Manual			150 days after execution
	Final QA Manual			195 days after execution
2	Topo/Bathy Data assemble	Upon Completion of Task 1	05/01/2026	05/01/2026
3	Model computational Grid generation	05/01/2026	07/01/2026	07/01/2026
4	Model Setup and Testing	07/01/2026	02/01/2027	02/01/2027
5	Operation of ongoing real-time Delft3D-Flow and Delft3D-WAQ forecast	02/01/2027	08/01/2027	08/01/2027
6	Model Validation	08/01/2027	02/01/2028	02/01/2028
7	Data Management/Web presentation	02/01/2028	07/01/2028	07/01/2028
8	Final Report and Presentation	07/01/2028	1/31/2029	
	Draft Final Report			09/01/2028
	Final Report			11/01/2028
	Final Presentation			12/01/2028

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PROJECT BUDGET SUMMARY: Cost reimbursable grant funding must not exceed the category totals for the project as indicated below.

Category Totals	Grant Funding, Not to Exceed, \$
Contractual Services Total	\$295,065.00
Total:	\$295,065.00

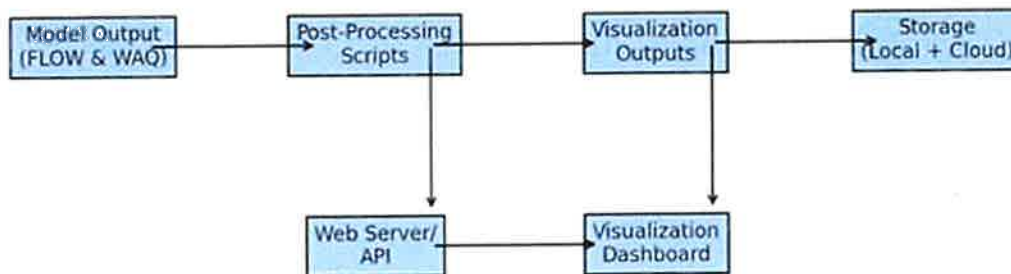


Figure 1. Generalized data system architecture.

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**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Public Records Requirements**

Attachment 4

1. Public Records.

- a. If the Agreement exceeds \$35,000.00, and if Grantee is acting on behalf of Department in its performance of services under the Agreement, Grantee must allow public access to all documents, papers, letters, or other material, regardless of the physical form, characteristics, or means of transmission, made or received by Grantee in conjunction with the Agreement (Public Records), unless the Public Records are exempt from section 24(a) of Article I of the Florida Constitution and section 119.07(1), F.S.
- b. The Department may unilaterally terminate the Agreement if Grantee refuses to allow public access to Public Records as required by law.

2. Additional Public Records Duties of Section 119.0701, F.S., If Applicable.

For the purposes of this paragraph, the term “contract” means the “Agreement.” If Grantee is a “contractor” as defined in section 119.0701(1)(a), F.S., the following provisions apply and the contractor shall:

- a. Keep and maintain Public Records required by Department to perform the service.
- b. Upon request, provide Department with a copy of requested Public Records or allow the Public Records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, F.S., or as otherwise provided by law.
- c. A contractor who fails to provide the Public Records to Department within a reasonable time may be subject to penalties under section 119.10, F.S.
- d. Ensure that Public Records that are exempt or confidential and exempt from Public Records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the contractor does not transfer the Public Records to Department.
- e. Upon completion of the contract, transfer, at no cost, to Department all Public Records in possession of the contractor or keep and maintain Public Records required by Department to perform the service. If the contractor transfers all Public Records to Department upon completion of the contract, the contractor shall destroy any duplicate Public Records that are exempt or confidential and exempt from Public Records disclosure requirements. If the contractor keeps and maintains Public Records upon completion of the contract, the contractor shall meet all applicable requirements for retaining Public Records. All Public Records stored electronically must be provided to Department, upon request from Department’s custodian of Public Records, in a format specified by Department as compatible with the information technology systems of Department. These formatting requirements are satisfied by using the data formats as authorized in the contract or Microsoft Word, Outlook, Adobe, or Excel, and any software formats the contractor is authorized to access.
- f. **IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, F.S., TO THE CONTRACTOR’S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THE CONTRACT, CONTACT THE DEPARTMENT’S CUSTODIAN OF PUBLIC RECORDS AT:**

Telephone: (850) 245-2118

Email: public.services@floridadep.gov

Mailing Address: Department of Environmental Protection
ATTN: Office of Ombudsman and Public Services
Public Records Request
3900 Commonwealth Boulevard, MS 49
Tallahassee, Florida 32399

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Special Audit Requirements
(State and Federal Financial Assistance)**

Attachment 5

The administration of resources awarded by the Department of Environmental Protection (*which may be referred to as the "Department", "DEP", "FDEP" or "Grantor", or other name in the agreement*) to the recipient (*which may be referred to as the "Recipient", "Grantee" or other name in the agreement*) may be subject to audits and/or monitoring by the Department of Environmental Protection, as described in this attachment.

MONITORING

In addition to reviews of audits conducted in accordance with 2 CFR Part 200, Subpart F-Audit Requirements, and Section 215.97, F.S., as revised (see "AUDITS" below), monitoring procedures may include, but not be limited to, on-site visits by DEP Department staff, limited scope audits as defined by 2 CFR 200.425, or other procedures. By entering into this Agreement, the recipient agrees to comply and cooperate with any monitoring procedures/processes deemed appropriate by the Department of Environmental Protection. In the event the Department of Environmental Protection determines that a limited scope audit of the recipient is appropriate, the recipient agrees to comply with any additional instructions provided by the Department to the recipient regarding such audit. The recipient further agrees to comply and cooperate with any inspections, reviews, investigations, or audits deemed necessary by the Chief Financial Officer (CFO) or Auditor General.

AUDITS

PART I: FEDERALLY FUNDED

This part is applicable if the recipient is a State or local government or a non-profit organization as defined in 2 CFR §200.330

1. A recipient that expends \$1,000,000 or more in Federal awards in its fiscal year, must have a single or program-specific audit conducted in accordance with the provisions of 2 CFR Part 200, Subpart F. EXHIBIT 1 to this Attachment indicates Federal funds awarded through the Department of Environmental Protection by this Agreement. In determining the federal awards expended in its fiscal year, the recipient shall consider all sources of federal awards, including federal resources received from the Department of Environmental Protection. The determination of amounts of federal awards expended should be in accordance with the guidelines established in 2 CFR 200.502-503. An audit of the recipient conducted by the Auditor General in accordance with the provisions of 2 CFR Part 200.514 will meet the requirements of this part.
2. For the audit requirements addressed in Part I, paragraph 1, the recipient shall fulfill the requirements relative to auditee responsibilities as provided in 2 CFR 200.508-512.
3. A recipient that expends less than \$1,000,000 in federal awards in its fiscal year is not required to have an audit conducted in accordance with the provisions of 2 CFR Part 200, Subpart F-Audit Requirements. If the recipient expends less than \$1,000,000 in federal awards in its fiscal year and elects to have an audit conducted in accordance with the provisions of 2 CFR 200, Subpart F-Audit Requirements, the cost of the audit must be paid from non-federal resources (i.e., the cost of such an audit must be paid from recipient resources obtained from non-federal entities).
4. The recipient may access information regarding the Catalog of Federal Domestic Assistance (CFDA) via the internet at <https://sam.gov/content/assistance-listings>.

Attachment 5

1 of 7

PART II: STATE FUNDED

This part is applicable if the recipient is a nonstate entity as defined by Section 215.97(2), Florida Statutes.

1. In the event that the recipient expends a total amount of state financial assistance equal to or in excess of \$750,000 in any fiscal year of such recipient (for fiscal years ending June 30, 2017, and thereafter), the recipient must have a State single or project-specific audit for such fiscal year in accordance with Section 215.97, F.S.; Rule Chapter 69I-5, F.A.C., State Financial Assistance; and Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General. EXHIBIT I to this form lists the state financial assistance awarded through the Department of Environmental Protection by this agreement. In determining the state financial assistance expended in its fiscal year, the recipient shall consider all sources of state financial assistance, including state financial assistance received from the Department of Environmental Protection, other state agencies, and other nonstate entities. State financial assistance does not include federal direct or pass-through awards and resources received by a nonstate entity for Federal program matching requirements.
2. In connection with the audit requirements addressed in Part II, paragraph 1; the recipient shall ensure that the audit complies with the requirements of Section 215.97(8), Florida Statutes. This includes submission of a financial reporting package as defined by Section 215.97(2), Florida Statutes, and Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General.
3. If the recipient expends less than \$750,000 in state financial assistance in its fiscal year (for fiscal year ending June 30, 2017, and thereafter), an audit conducted in accordance with the provisions of Section 215.97, Florida Statutes, is not required. In the event that the recipient expends less than \$750,000 in state financial assistance in its fiscal year, and elects to have an audit conducted in accordance with the provisions of Section 215.97, Florida Statutes, the cost of the audit must be paid from the non-state entity's resources (i.e., the cost of such an audit must be paid from the recipient's resources obtained from other than State entities).
4. For information regarding the Florida Catalog of State Financial Assistance (CSFA), a recipient should access the Florida Single Audit Act website located at <https://apps.fldfs.com/fsaa> for assistance. In addition to the above websites, the following websites may be accessed for information: Legislature's Website at <http://www.leg.state.fl.us/Welcome/index.cfm>, State of Florida's website at <http://www.myflorida.com/>, Department of Financial Services' Website at <http://www.fldfs.com/> and the Auditor General's Website at <http://www.myflorida.com/audgen/>.

PART III: OTHER AUDIT REQUIREMENTS

(NOTE: This part would be used to specify any additional audit requirements imposed by the State awarding entity that are solely a matter of that State awarding entity's policy (i.e., the audit is not required by Federal or State laws and is not in conflict with other Federal or State audit requirements). Pursuant to Section 215.97(8), Florida Statutes, State agencies may conduct or arrange for audits of State financial assistance that are in addition to audits conducted in accordance with Section 215.97, Florida Statutes. In such an event, the State awarding agency must arrange for funding the full cost of such additional audits.)

PART IV: REPORT SUBMISSION

1. Copies of reporting packages for audits conducted in accordance with 2 CFR Part 200, Subpart F-Audit Requirements, and required by PART I of this form shall be submitted, when required by 2 CFR 200.512, by or on behalf of the recipient directly to the Federal Audit Clearinghouse (FAC) as provided in 2 CFR 200.36 and 200.512
 - A. The Federal Audit Clearinghouse designated in 2 CFR §200.501(a) (the number of copies required by 2 CFR §200.501(a) should be submitted to the Federal Audit Clearinghouse), at the following address:

By Mail:

Federal Audit Clearinghouse
Bureau of the Census
1201 East 10th Street
Jeffersonville, IN 47132

Submissions of the Single Audit reporting package for fiscal periods ending on or after January 1, 2008, must be submitted using the Federal Clearinghouse's Internet Data Entry System which can be found at <http://harvester.census.gov/facweb/>

2. Copies of financial reporting packages required by PART II of this Attachment shall be submitted by or on behalf of the recipient directly to each of the following:

- A. The Department of Environmental Protection at one of the following addresses:

By Mail:

Audit Director
Florida Department of Environmental Protection
Office of Inspector General, MS 40
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

Electronically:

FDEPSingleAudit@dep.state.fl.us

- B. The Auditor General's Office at the following address:

Auditor General
Local Government Audits/342
Claude Pepper Building, Room 401
111 West Madison Street
Tallahassee, Florida 32399-1450

The Auditor General's website (<http://flauditor.gov/>) provides instructions for filing an electronic copy of a financial reporting package.

3. Copies of reports or management letters required by PART III of this Attachment shall be submitted by or on behalf of the recipient directly to the Department of Environmental Protection at one of the following addresses:

By Mail:

Audit Director
Florida Department of Environmental Protection
Office of Inspector General, MS 40
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

Electronically:

FDEPSingleAudit@dep.state.fl.us

4. Any reports, management letters, or other information required to be submitted to the Department of Environmental Protection pursuant to this Agreement shall be submitted timely in accordance with 2 CFR 200.512, section 215.97, F.S., and Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General, as applicable.

Attachment 5

3 of 7

5. Recipients, when submitting financial reporting packages to the Department of Environmental Protection for audits done in accordance with 2 CFR 200, Subpart F-Audit Requirements, or Chapters 10.550 (local governmental entities) and 10.650 (non and for-profit organizations), Rules of the Auditor General, should indicate the date and time the reporting package was delivered to the recipient and any correspondence accompanying the reporting package.

PART V: RECORD RETENTION

The recipient shall retain sufficient records demonstrating its compliance with the terms of the award and this Agreement for a period of **five (5)** years from the date the audit report is issued, and shall allow the Department of Environmental Protection, or its designee, Chief Financial Officer, or Auditor General access to such records upon request. The recipient shall ensure that audit working papers are made available to the Department of Environmental Protection, or its designee, Chief Financial Officer, or Auditor General upon request for a period of **three (3)** years from the date the audit report is issued, unless extended in writing by the Department of Environmental Protection.

EXHIBIT – I

FUNDS AWARDED TO THE RECIPIENT PURSUANT TO THIS AGREEMENT CONSIST OF THE FOLLOWING:

Note: If the resources awarded to the recipient represent more than one federal program, provide the same information shown below for each federal program and show total federal resources awarded

Federal Resources Awarded to the Recipient Pursuant to this Agreement Consist of the Following:					
Federal Program	Federal Agency	CFDA Number	CFDA Title	Funding Amount	State Appropriation Category
Federal Program A				\$	
Federal Program B					

Note: Of the resources awarded to the recipient represent more than one federal program, list applicable compliance requirements for each federal program in the same manner as shown below:

Federal Program A	First Compliance requirement: i.e.: (what services of purposes resources must be used for)	
	Second Compliance requirement: i.e.: (eligibility requirement for recipients of the resources)	
	Etc.	
Federal Program B	First Compliance requirement: i.e.: (what services of purposes resources must be used for)	
	Second Compliance requirement: i.e.: (eligibility requirement for recipients of the resources)	
	Etc.	

Note: If the resources awarded to the recipient for matching represent more than one federal program, provide the same information shown below for each federal program and show total state resources awarded for matching.

State Resources Awarded to the Recipient Pursuant to this Agreement Consist of the Following Matching Resources for Federal Programs:				
Federal Program	Federal Agency	CFDA	CFDA Title	State Appropriation Category
A				
Federal Program B	Federal Agency	CFDA	CFDA Title	State Appropriation Category

Note: If the resources awarded to the recipient represent more than one state project, provide the same information shown below for each state project and show total state financial assistance awarded that is subject to section 215.97, F.S.

State Resources Awarded to the Recipient Pursuant to this Agreement Consist of the Following Resources Subject to Section 215.97, F.S.:				
State Program	State Awarding Agency	State Fiscal Year ¹	CSFA Number	State Appropriation Category
INV64	Department of Environmental Protection	2024-2025	37.103	140895
State Program B	State Awarding Agency	State Fiscal Year ²	CSFA Number	State Appropriation Category

Total Award	\$295,065.00
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Note: List applicable compliance requirement in the same manner as illustrated above for federal resources. For matching resources provided by the Department for DEP for federal programs, the requirements might be similar to the requirements for the applicable federal programs. Also, to the extent that different requirements pertain to different amount for the non-federal resources, there may be more than one grouping (i.e. 1, 2, 3, etc.) listed under this category.

For each program identified above, the recipient shall comply with the program requirements described in the Catalog of Federal Domestic Assistance (CFDA) [<https://sam.gov/content/assistance-listings>] and/or the Florida Catalog of State Financial Assistance (CSFA) [<https://apps.fldfs.com/fsaa/searchCatalog.aspx>], and State Projects Compliance Supplement (Part Four: State Projects Compliance Supplement [https://apps.fldfs.com/fsaa/state_project_compliance.aspx]). The

¹ Subject to change by Change Order.

² Subject to change by Change Order.

services/purposes for which the funds are to be used are included in the Agreement's Grant Work Plan. Any match required by the Recipient is clearly indicated in the Agreement.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
PROGRAM-SPECIFIC REQUIREMENTS
FOR INNOVATIVE TECHNOLOGIES GRANT PROGRAM

ATTACHMENT 6

1. Definitions: None.
2. The Grantee acknowledges receipt of this grant does not imply nor guarantee that a federal, state or local permit will be issued for a particular activity. Furthermore, the Grantee agrees to ensure all necessary permits are obtained prior to implementation of any Agreement activity that may fall under the applicable federal, state or local laws.
3. The Grantee acknowledges purchases made by the Grantee before the Standard Grant Agreement is executed are not guaranteed cost reimbursement by the Department.
4. The Grantee acknowledges the Department will not reimburse expenses associated with the costs for applying for and obtaining patents, the publishing of research or scientific papers, the preparation or printing of posters or other media, and/or the presentation of the research or project at professional or scientific forums.
5. The Grantee will administer a Microsoft PowerPoint presentation of project scope, summaries of activities and monitoring completed and not completed, key findings, lessons learned, and implications as a deliverable within the Final Report/Presentation Task. The Grantee can elect to administer the presentation virtually or in person. The Grantee can request reimbursement for up to a maximum of \$1,000 to cover final presentation travel costs for in-person, administered presentations. The Grantee must comply with the applicable Florida Statute 112.061 provisions, including proper documentation, to receive travel reimbursement. In-person presentations will be administered at the Marjorie Stoneman Douglas Building at 3900 Commonwealth Avenue, Tallahassee, FL. Department approval is required for in-person administration at other locations. The Grantee will provide read-ahead copies of their slides at least five business days before the presentation date. Presentations will be of sufficient duration to present the elements described above and allocate 10 minutes for questions and answers. Presentation periods lasting a total of an hour in length are preferred. Reimbursements for presentation preparation and administration expenses will be claimed when submitting the Final Report/Presentation invoice. The presentation requirement only applies to grants executed after November 21, 2024.
6. Grantee's subcontractors will be selected in compliance with state law through a competitive process or sole source.
7. The Grantee is fully responsible for satisfying the terms and conditions of this Agreement and cannot delegate any of those responsibilities to any subcontractors or authorize subcontractors to directly communicate or liaise with the Department without their inclusion and participation in said communications.
8. The Grantee acknowledges the Department requires samples to be processed by National Environmental Laboratory Accreditation Conference (NELAC) certified laboratories for data

verification and acceptance purposes and has factored the expenses associated with the utilization of such laboratories within their Budget-Cost Analysis Form and Grant Work Plan.

9. The Grantee acknowledges the Department's contractual boilerplate language for grant work plans, quality assurance project plans (QAPP), deliverable templates and other contractual documentation is not subject to applicant-initiated changes or modifications.
10. After entering into this Agreement, the Grantee acknowledges the requirement to submit a scientifically rigorous QAPP compliant with the Department's template for those grants involving the collection and analyses of samples. The Grantee will have up to three opportunities to submit a QAPP acceptable to the Department and must conform to this plan unless a Department-approved revision is made for the duration of the agreement.
11. The Grantee acknowledges the grant will be for cost reimbursement; advance payment is not authorized.
12. Equipment, software and software license purchase requests for the project will be reviewed and approved at the Department's discretion on a limited case-by-case basis. The rental and lease of equipment is acceptable.
13. The Grantee acknowledges the Final Report will be formatted to satisfy Section 508 of the Rehabilitation Act of 1973 Federal Law requirements to make the report's information accessible to people with disabilities and facilitate posting the report's link onto the Department's public website. This requirement only applies to grants executed after November 21, 2024.
14. The Grantee acknowledges the formulas and format contained within the Department's Budget Cost Analysis form is not subject to applicant-initiated changes or modifications without obtaining written approval from the Department.
15. The Grantee acknowledges the maximum indirect rate applied to the grant cannot exceed 15% of the total grant award. This limitation only applies to grants executed after November 21, 2024.
16. The Grantee acknowledges the Fringe benefits expenses must be shown separately on the Department's Budget Cost Analysis form and cannot be incorporated within the Salary/Hourly expenses.
17. The Grantee acknowledges Fringe benefits, which include tuition payments, may not be incorporated within the calculation for indirect costs. Salary and all other approved allowable categories as shown in the Budget Cost Analysis may be included in the calculation. This requirement only applies to grants executed after November 21, 2024.
18. The Grantee acknowledges Salary expenditures will be calculated as hourly rates and will provide verifiable supporting documentation via timesheets or other approved documentation as determined by the Department when invoicing for salary expenditures.
19. The Grantee acknowledges innovative technologies grant work plans will have a public education/outreach task which must be planned and budget allocated. This requirement only applies to grants awarded after July 1, 2025.

Exhibit A

This report is submitted in accordance with the reporting requirements of DEP Agreement No. INV64 and accurately reflects the activities associated with the project.

Date _____

Exhibit C
PAYMENT REQUEST SUMMARY FORM

DEP Agreement No.: INV64 Agreement Effective Dates: _____

Grantee: _____ Grantee's Grant Manager: _____

Mailing Address: _____

Payment Request No. _____ Date of Payment Request: _____

Performance Period (Start date – End date): _____

Task/Deliverable No(s). _____ Task/Deliverable Amount Requested: \$ _____

GRANT EXPENDITURES SUMMARY SECTION

CATEGORY OF EXPENDITURE <i>(As authorized)</i>	AMOUNT OF THIS REQUEST	TOTAL CUMULATIVE PAYMENT REQUESTS	MATCHING FUNDS FOR THIS REQUEST	TOTAL CUMULATIVE MATCHING FUNDS
Salaries/Wages	\$ N/A	\$ N/A	\$N/A	\$N/A
Fringe Benefits	\$ N/A	\$ N/A	\$N/A	\$N/A
Indirect Cost	\$ N/A	\$ N/A	\$N/A	\$N/A
Contractual (Subcontractors)	\$	\$	\$N/A	\$N/A
Travel	\$ N/A	\$ N/A	\$N/A	\$N/A
Equipment (Direct Purchases)	\$ N/A	\$ N/A	\$N/A	\$N/A
Rental/Lease of Equipment	\$ N/A	\$ N/A	\$N/A	\$N/A
Miscellaneous/Other Expenses	\$ N/A	\$ N/A	\$N/A	\$N/A
Land Acquisition	\$ N/A	\$ N/A	\$N/A	\$N/A
TOTAL AMOUNT	\$	\$	\$N/A	\$N/A
TOTAL TASK/DELIVERABLE BUDGET AMOUNT	\$		\$N/A	
Less Total Cumulative Payment Requests of:	\$		\$N/A	
TOTAL REMAINING IN TASK	\$		\$N/A	

GRANTEE CERTIFICATION

Complete Grantee's Certification of Payment Request on Page 2 to certify that the amount being requested for reimbursement above was for items that were charged to and utilized only for the above cited grant activities.

Build America, Buy America Act (BABA) - Infrastructure Projects with Federal Funding.
This provision does not apply to Agreements that are wholly funded by Coronavirus State and Local Fiscal Recovery Funds under the American Rescue Plan Act. Also, this provision does not apply where there is a valid

waiver in place. However, the provision may apply to funds expended before the waiver or after expiration of the waiver.

Recipients or Subrecipients of an award of Federal financial assistance from a program for infrastructure are required to comply with the Build America, Buy America Act (BABA), including the following provisions:

- a. All iron and steel used in the project are produced in the United States--this means all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States;
- b. All manufactured products used in the project are produced in the United States--this means the manufactured product was manufactured in the United States; and the cost of the components of the manufactured product that are mined, produced, or manufactured in the United States is greater than 55 percent of the total cost of all components of the manufactured product, unless another standard for determining the minimum amount of domestic content of the manufactured product has been established under applicable law or regulation; and
- c. All construction materials are manufactured in the United States--this means that all manufacturing processes for the construction material occurred in the United States.

The Buy America preference only applies to articles, materials, and supplies that are consumed in, incorporated into, or affixed to an infrastructure project. As such, it does not apply to tools, equipment, and supplies, such as temporary scaffolding, brought to the construction site and removed at or before the completion of the infrastructure project. Nor does a Buy America preference apply to equipment and furnishings, such as movable chairs, desks, and portable computer equipment, that are used at or within the finished infrastructure project but are not an integral part of the structure or permanently affixed to the infrastructure project.

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Grantee's Certification of Payment Request

I, _____, on behalf of

(Print name of Grantee's Grant Manager designated in the Agreement)

_____, do hereby certify for

(Print name of Grantee/Recipient)

DEP Agreement No. _____ and Payment Request No. _____ that:

- ☒ The disbursement amount requested is for allowable costs for the project as described in Attachment 3 of the Agreement.
- ☒ All costs included in the amount requested have been satisfactorily purchased, performed, received, and applied toward completing the project; such costs are documented by invoices or other appropriate documentation as required in the Agreement.
- ☒ The Grantee has paid such costs under the terms and provisions of contracts relating directly to the project; and the Grantee is not in default of any terms or provisions of the contracts.

Check all that apply below:

- ☐ All permits and approvals required for the construction, which is underway, have been obtained.
- ☐ Construction up to the point of this disbursement is in compliance with the construction plans and permits.
- ☐ The Grantee's Grant Manager relied on certifications from the following professionals that provided services for this project during the time period covered by this Certification of Payment Request, and such certifications are included:

Professional Service Provider (Name / License No.) Period of Service (mm/dd/yy – mm/dd/yy)

Grantee's Grant Manager Signature

Grantee's Fiscal Agent Signature

Print Name

Print Name

Telephone Number

Telephone Number

INSTRUCTIONS FOR COMPLETING PAYMENT REQUEST SUMMARY FORM

DEP AGREEMENT NO.: This is the number on your grant agreement.

AGREEMENT EFFECTIVE DATES: Enter agreement execution date through end date.

GRANTEE: Enter the name of the grantee's agency.

GRANTEE'S GRANT MANAGER: This should be the person identified as grant manager in the grant Agreement.

MAILING ADDRESS: Enter the address that you want the state warrant sent.

PAYMENT REQUEST NO.: This is the number of your payment request, not the quarter number.

DATE OF PAYMENT REQUEST: This is the date you are submitting the request.

PERFORMANCE PERIOD: This is the beginning and ending date of the performance period for the task/deliverable that the request is for (this must be within the timeline shown for the task/deliverable in the Agreement).

TASK/DELIVERABLE NO.: This is the number of the task/deliverable that you are requesting payment for and/or claiming match for (must agree with the current Grant Work Plan).

TASK/DELIVERABLE AMOUNT REQUESTED: This should match the amount on the "*TOTAL TASK/DELIVERABLE BUDGET AMOUNT*" line for the "*AMOUNT OF THIS REQUEST*" column.

GRANT EXPENDITURES SUMMARY SECTION:

"AMOUNT OF THIS REQUEST" COLUMN: Enter the amount that was expended for this task during the period for which you are requesting reimbursement for this task. This must agree with the currently approved budget in the current Grant Work Plan of your grant Agreement. Do not claim expenses in a budget category that does not have an approved budget. Do not claim items that are not specifically identified in the current Grant Work Plan. Enter the column total on the "*TOTAL AMOUNT*" line. Enter the amount of the task on the "*TOTAL TASK BUDGET AMOUNT*" line. Enter the total cumulative amount of this request and all previous payments on the "*LESS TOTAL CUMULATIVE PAYMENT REQUESTS OF*" line. Deduct the "*LESS TOTAL CUMULATIVE PAYMENT REQUESTS OF*" from the "*TOTAL TASK BUDGET AMOUNT*" for the amount to enter on the "*TOTAL REMAINING IN TASK*" line.

"TOTAL CUMULATIVE PAYMENT REQUESTS" COLUMN: Enter the cumulative amounts that have been requested to date for reimbursement by budget category. The final request should show the total of all requests; first through the final request (this amount cannot exceed the approved budget amount for that budget category for the task you are reporting on). Enter the column total on the "*TOTALS*" line. **Do not enter anything in the shaded areas.**

"MATCHING FUNDS" COLUMN: Enter the amount to be claimed as match for the performance period for the task you are reporting on. This needs to be shown under specific budget categories according to the currently approved Grant Work Plan. Enter the total on the "*TOTAL AMOUNT*" line for this column. Enter the match budget amount on the "*TOTAL TASK BUDGET AMOUNT*" line for this column. Enter the total cumulative amount of this and any previous match claimed on the "*LESS TOTAL CUMULATIVE PAYMENTS OF*" line for this column. Deduct the "*LESS TOTAL CUMULATIVE PAYMENTS OF*" from the "*TOTAL TASK BUDGET AMOUNT*" for the amount to enter on the "*TOTAL REMAINING IN TASK*" line.

"TOTAL CUMULATIVE MATCHING FUNDS" COLUMN: Enter the cumulative amount you have claimed to date for match by budget category for the task. Put the total of all on the line titled "*TOTALS*." The final report should show the total of all claims, first claim through the final claim, etc. **Do not enter anything in the shaded areas.**

GRANTEE'S CERTIFICATION: Check all boxes that apply. Identify any licensed professional service providers that certified work or services completed during the period included in the request for payment. **Must be signed by both the Grantee's Grant Manager as identified in the grant agreement and the Grantee's Fiscal Agent.**

NOTES:

If claiming reimbursement for travel, you must include copies of receipts and a copy of the travel reimbursement form approved by the Department of Financial Services, Chief Financial Officer.

Documentation for match claims must meet the same requirements as those expenditures for reimbursement.

Exhibit D

Department of Environmental Protection Quality Assurance Requirements for Contracts Standard Field & Lab Services

1. GENERAL REQUIREMENTS AND DEFINITIONS

- a. As applicable to the Scope of Services (i.e., scope of work) described in the Contract, the sampling, field testing and laboratory analyses performed under this Contract shall conform to the requirements set forth in Chapter 62-160, Florida Administrative Code (F.A.C.), and "Requirements for Field and Analytical Work Performed for the Department of Environmental Protection under Contract" (DEP-QA-002/02), February 2002.
- b. Hereinafter, "DEP" or "Department" refers to the Florida Department of Environmental Protection.
- c. "Contractor" shall refer to the contractor, subcontractors, or any entity procured to conduct work under the Contract.
- d. "Sample" and "sampling" refers to samples that shall be either collected or analyzed under the terms of this Contract.

2. REQUIREMENTS FOR LABORATORIES

- a. All applicable laboratory testing activities shall be performed by laboratories certified by the Florida Department of Health Environmental Laboratory Certification Program (DoH ELCP) for all applicable matrix/method/analyte combinations to be measured for this Contract. Laboratory certification requirements are described in [Rule 62-160.300](#), F.A.C. Certification is not required for laboratory tests outside of the scope of DoH ELCP accreditation as determined according to Paragraph 62-160.300(5)(c), F.A.C.
- b. For samples collected from a non-potable water matrix, the certification requirement is met if the laboratory is certified for the contracted analyte(s) in at least one method utilizing an analytical technology appropriate for the Contract, as determined by the Department according to Paragraph 62-160.300(1)(c), F.A.C.
- c. If the laboratory is not certified for some or all proposed test measurements, the laboratory shall apply for certification within one month of Contract execution. The laboratory shall attempt to become fully certified for all applicable matrix/method/analyte combinations to be performed for the Contract by maintaining active coordination with the DoH ELCP throughout the application process. Regardless of when the laboratory receives certification, the laboratory shall implement all applicable standards of the National Environmental Laboratory Accreditation Conference ([NELAC 2003 Quality Systems standards, as adopted](#)) upon Contract execution.
- d. Laboratories shall maintain certification as specified in item 2.a above during the life of the Contract. Should certification for an analyte or test method be lost, all affected tests shall be immediately sub-contracted to a laboratory with current DoH ELCP certification in the appropriate matrix/method/analyte combination(s). The Contractor shall notify the DEP Contract manager in writing before any change to a sub-contracted laboratory is made.
- e. The DoH ELCP certificate number (certified laboratory identification number) for each contracted (and sub-contracted) laboratory shall be listed in the required Contract Quality Assurance (QA) Plan (see Section 6 below) in association with the analytical tests to be performed by each laboratory analyzing samples for the Contract.
- f. Each certified laboratory analyzing contracted samples shall ensure that an acceptable demonstration of capability (DOC) is performed as described in the [2003 NELAC Quality](#)

Systems standards (NELAC 2003, Section 5.5.4.2.2 and Appendix C). In addition, each certified laboratory that performs any of the proposed matrix/method/analyte combination(s) approved for the Contract shall have the requisite DOC documentation and supporting laboratory records on file for the applicable combinations. The DOCs performed shall meet the requirements for precision, accuracy, method detection limit (MDL) and/or practical quantitation limit (PQL), as specified in each applicable laboratory test method, Standard Operating Procedure (SOP) or Quality Manual, or as listed in the Contract QA Plan (Section 6, below). Alternative limits for detection and quantitation other than MDL and PQL shall be determined, if applicable to the laboratory. DOCs performed for the contracted analytes shall include any modifications to the test method or SOP that have been approved by DEP according to Subsection 62-160.330(3), F.A.C., if applicable. If requested by the Department, documentation that supports the DOC for a specified analyte and test method shall be made available for review.

- g. The contracted (and/or subcontracted) laboratory shall report PQLs and MDLs or other specified limits of detection and quantitation with the results of sample analyses. MDLs and/or PQLs shall only be required for test methods that are technically amenable to the determination of MDLs and/or PQLs. For those test methods where the determination of MDLs and/or PQLs are not technically feasible, the laboratory shall report a value or increment representing the lower limit of the working range of the test method, however determined by the laboratory. The laboratory shall indicate whether the reported limit represents a limit of detection or quantitation. In all cases, limits of detection and quantitation other than MDLs and PQLs shall be explicitly defined and evaluated by the laboratory. All limits shall be as listed in the applicable laboratory test method, SOP or Quality Manual, or as listed in the Contract QA Plan (Section 6, below). The reported MDLs and PQLs (or other limits per above) shall meet the analytical sensitivity and quantitation objectives for the Contract.
- h. Additional laboratory quality control expectations:
 - (i) The selected laboratory test methods listed in the QA Plan shall provide results that meet applicable Contract data quality objectives.
 - (ii) All laboratory testing procedures shall follow the analytical methods as approved in the Contract QA Plan (see Section 6).
 - (iii) The laboratory shall adhere to the quality control requirements specified in the laboratory test methods and this Exhibit.
 - (iv) The laboratory shall calculate all sample results according to the procedures specified in the analytical test methods approved in the Contract QA Plan.

3. FIELD ACTIVITIES

- a. All sample collection and field testing activities shall be performed in accordance with the Department's "Standard Operating Procedures for Field Activities" (DEP-SOP-001/01, January, 2018). The specific standard operating procedures (SOPs) to be used for this Contract shall be cited in the Contract QA Plan (see Section 6).
- b. Field-Generated Quality Control (QC) Blanks are defined in DEP SOP FQ 1000 (subparts FQ 1211 – FQ 1214) and shall be composed and analyzed for sample collection activities associated with this Contract according to the requirements of part FQ 1230 (sections 1. – 2.3.1), DEP SOP FS 2100 (Part FS 2110, sec. 2.1.1.2) and/or DEP SOP FS 2400 (Part FS 2430, sec. 2.1.1.2), as applicable to the analytes and matrices to be collected using the sampling equipment specified in the Contract QA Plan (see Section 6 below).
 - (i) If an analyte detected in the sample is also found in any field-generated QC blank that is associated with the sample, the Contractor shall investigate and attempt to determine the cause of the QC blank contamination. If any contracted sample

results are qualified as in (ii) below, the outcome of this investigation shall be reported to the DEP Contract manager and shall include a discussion of the corrective measures taken to minimize future occurrences of QC blank contamination associated with the collection of samples for this Contract.

- (ii) If an analyte detected in the sample is also found in any field-generated QC blank that is associated with the sample, the analytical result reported for the affected sample shall be qualified as an estimated value, unless the analyte concentration in the blank is less than or equal to 10% of the reported sample concentration. The "G" data qualifier code shall be reported with the sample result for any blank concentration exceeding the above "10%" criterion for the affected analyte (see Table 1, Chapter 62-160, F.A.C.).

4. **REPORTING, DOCUMENTATION AND RECORDS RETENTION**

- a. Reporting, Documentation and Records Retention shall be in compliance with the provisions specified in the DEP Contract.
- b. Deliverable requirements for Reporting are further specified in DEP Contract Scope of Services.
- c. All laboratory and field records described or listed in Rules [62-160.240](#) and [62-160.340](#), F.A.C., shall be retained for a minimum of five years after the generation (or completion) of the records applicable to the Contract. Longer retention times as specified in the Contract shall supersede.
- d. All field and laboratory data and supporting information shall be reported for this Contract according to applicable requirements in Subsections 62-160.340(3) – (8), F.A.C.
- e. Any other documentation and reports associated with work performed for this Contract shall be likewise retained and shall include relevant information for the procedures described in Sections 2 and 3, above.
- f. Any documentation or reports specifically identified in this Contract as deliverable work products shall be retained as in 4.a., above.
- g. All field and laboratory records that are associated with work performed under this Contract shall be organized so that any information can be quickly and easily retrieved for inspection, copying or distribution.
- h. The Department reserves the right to request some or all of the laboratory or field information in an electronic format specified by the Department, as specified in the Contract and/or Scope of Services, and/or as described in the approved Contract QA Plan (see Section 6). Also, see Subsection k., below.
- i. Any certified laboratory reports issued for contracted sample analyses using certified methods shall be generated in accordance with NELAC Quality Systems requirements ([NELAC 2003](#), section 5.5.10).
- j. Upon request by the Department's Contract manager or as required by the Contract, copies of the original laboratory reports shall be submitted to the Department Contract manager.
- k. In addition to any reports of sample results provided per Contract deliverable requirements and Subsections b., e., f. and g., above, the Contractor shall submit any of the laboratory information and/or records associated with the contracted analyses as described in this section (Section 4) upon request by DEP, including any of the following:
 - ▶ Laboratory sample identification (ID) and associated Field ID
 - ▶ Analytical/test method
 - ▶ Parameter/analyte name
 - ▶ Analytical result (including dilution factor)
 - ▶ Result unit

- ▶ Applicable DEP Data Qualifier Codes per Table 1 of Rule [62-160.700](#), F.A.C.
 - ▶ Result comment(s) to include corrective/preventive actions taken for any failed QC measure (e.g., QC sample result, calibration failure) or other problem related to the analysis of the samples
 - ▶ Date and time of sample preparation (if applicable)
 - ▶ Date and time of sample analysis
 - ▶ Results of laboratory verification of field preservation of received samples
 - ▶ Sample matrix
 - ▶ DoH ELCP certification number for each laboratory (must be associated with the test results generated by each laboratory analyzing samples under this Contract)
 - ▶ MDL, Limit of Detection (LOD) or other defined limit of detection
 - ▶ PQL, Limit of Quantitation (LOQ) or other defined limit of quantification
 - ▶ Field and laboratory QC blank results:
 - Laboratory QC blank analysis results as required by the method and the NELAC Quality Systems standards (e.g., method blank)
 - Results for trip blanks, field blanks and equipment blanks, as applicable to the project and as specified in the QA Plan (see Section 6)
 - ▶ Results for field duplicates (or replicates)
 - ▶ Results for other QC and calibration verification results, as applicable to the specific test methods used for the contracted analyses:
 - Results of sample matrix spikes, laboratory duplicates or matrix spike duplicates
 - Results of surrogate spike analyses
 - Results of laboratory control samples (LCS)
 - Results of calibration verifications
 - Acceptance criteria used to evaluate each reported quality control measure
- l. Unequivocal documentation links between each reported laboratory quality control measure (e.g., QC blanks, matrix spikes, LCS, duplicates, calibration verification) and the associated sample result(s) shall be maintained for all contracted analyses.
- m. In addition to any field information provided per Contract deliverable requirements, and Subsections b., e., f. and g., above, the Contractor shall submit any of the field information and/or records associated with the contracted samples as described in this section (Section 4) upon request by DEP, including any of the following:
- ▶ Site name and location information
 - ▶ Field ID for each sample container and the associated analytes (test methods) for which the container was collected
 - ▶ Date and time of sample collection
 - ▶ Sample collection depth, if applicable
 - ▶ Sample collection method identified by the DEP SOP number, where applicable
 - ▶ If performed, indicate samples that were filtered
 - ▶ Field test measurement results:
 - DEP SOP number (FT-series), where applicable
 - Parameter name
 - Result
 - Result unit
 - Applicable Data Qualifier Codes per Table 1 of Rule [62-160.700](#), F.A.C.
 - ▶ Narrative comments providing explanations, descriptions and/or discussions of: field conditions impacting QC for sample collections, unacceptable field

- measurements, field-testing meter calibration verification failures, or other problems related to the sampling event, and corrective/preventive actions taken for the items noted (e.g., for blank contamination or meter calibration failure).
- n. The Department reserves the right to request some or all of the laboratory or field information in a format as specified in the Contract and/or Scope of Services, and/or as described in the approved QA Plan (see Section 6).

5. AUDITS

- a. TECHNICAL AUDITS BY THE DEPARTMENT – Pursuant to Rule 62-160.650, F.A.C., the Department may conduct audits of field and laboratory activities. In addition to allowing Department representatives to conduct onsite audits of contracted work in the field or at Contractor facilities, upon request by the Department, field and laboratory records pertinent to the contracted research as described per Section 4, above, shall be provided by the Contractor. If an audit by the Department results in a determination that the reported data are not usable for the purpose(s) of the Contract, do not meet the data quality objectives specified by the Contract, do not meet other applicable Department criteria described in the Contract, its exhibits, the QA Plan (see Section 6) or these QA Requirements, do not meet applicable data validation criteria outlined in Rule 62-160.670, F.A.C., or are not otherwise suitable for the intended use of the data (however applicable), the DEP Contract manager shall pursue remedies available to the Department pursuant to the terms of the Contract.
- b. PLANNING REVIEW TECHNICAL AUDITS –
- (i) Initial: The Contractor shall review the Contract QA Plan (see Section 6) relative to the completed field and laboratory activities to determine if data quality objectives are being met, identify any improvements to be made to project activities, and refine the sampling and/or analytical design or schedule, if applicable. A summary of the review, including any corrective action plans or amendments to the Contract QA Plan, shall be sent to the DEP Contract manager, and a copy of all submitted documents shall be maintained with the permanent project records.
 - (ii) Ongoing: Planning reviews as described in subsection (i) above shall occur after the initial planning review audit for the remainder of the Contract, as specified in the Scope of Services.
 - (iii) Statements of Usability: Initial and ongoing Planning Review Technical Audits described in (i) and (ii) above shall include statements about data usability relative to the Contract data quality objectives and any data quality indicators that may be specified in the Contract, its exhibits, the QA Plan (see Section 6), or these QA Requirements. This usability determination shall take into account all applicable data quality acceptance and usability criteria for quality control and environmental sample results for the Contract, as specified in the procedures, test methods, QA Plan, Quality Manual(s), other Contract exhibits, or these QA Requirements.
 - (iv) Initial and ongoing reviews and summaries shall be completed within timeframes specified in the Contract Scope of Services.
- c. QUALITY SYSTEMS AUDITS – The Contractor shall ensure that any required laboratory and field quality system audits are performed according to the respective Quality Manuals or other relevant internal quality assurance documents for each entity performing work under the Contract. The results of these audits shall be documented in the Contractor's records. Copies of the above audit reports or results shall be provided to the DEP Contract manager upon request. Copies of audit records for internal audits conducted per DEP SOP FA 1000 (subpart FA 4200) or NELAC Quality Systems requirements (NELAC 2003, section 5.4.13) shall be similarly provided upon request.

6. QUALITY ASSURANCE PLAN

- a. The Contractor shall submit a Quality Assurance (QA) Plan for the Contract to the DEP Contract manager, if required and as specified in the Contract Scope of Services. The Standard QA Plan Template may be used to capture all required elements in the Plan.
- b. The DEP Contract number shall appear on the title page of the submitted QA Plan. The Department shall review and either approve the QA Plan or provide comments to the Contractor as to why the QA Plan is not approved, within timeframes specified in the Contract Scope of Services. If further revisions are needed, the Contractor shall respond within timeframes specified in the Contract Scope of Services. The Department shall respond to all revisions to the QA Plan within timeframes specified in the Contract Scope of Services.
- c. Work may not begin for specific Contract tasks until approval (or conditional approval) has been received by the Contractor from the DEP Contract manager. Sampling and analysis for the Contract may not begin until the QA Plan has been approved (or conditionally approved).
- d. Once approved, the Contractor(s) shall follow the procedures and methods described in the approved QA Plan and any other relevant quality assurance documents, including, but not limited to:
 - ▶ Ensuring that all stated quality control measures are collected, analyzed and evaluated for acceptability;
 - ▶ Using only the protocols approved in the QA Plan; and
 - ▶ Using only the equipment approved in the QA Plan.

If any significant changes occur in sampling project design, project analyte list, procedures or test methods, equipment, or key personnel, the Contractor shall submit appropriate revisions of the QA Plan to the DEP Contract manager for review, within timeframes specified in the Contract Scope of Services. The proposed revisions may not be implemented until they have been approved (or conditionally approved) by the DEP Contract manager, as documented through written or electronic correspondence.