CHATHAM COUNTY PURCHASING & CONTRACTING DEPARTMENT

ADDENDUM NO. <u>1</u> TO <u>21-0118-4</u>

FOR: CHATHAM COUNTY SLIP 1 DEBRIS REMOVAL

PLEASE SEE THE FOLLOWING FOR ADDITIONS, CLARIFICATIONS AND/OR CHANGES:

- 1. See attached sheets (3 pages) for Responses to Questions Received.
- 2. Replace current Bid Sheet with the attached *revised* Bid Sheet (1 page).
- 3. Replace current "Measurement and Payment " sheets with the attached *revised* sheets. (2 pages)
- 4. See attached Draft USACE Permit (57 pages)

BID OPENING REMAINS: 2PM, THURSDAY, OCTOBER 28, 2021

THE PROPOSER IS RESPONSIBLE FOR MAKING THE NECESSARY CHANGES AND MUST ACKNOWLEDGE RECEIPT OF ADDENDUM.

<u>10/20/21</u> DATE

ROBERT E. MARSHALL SENIOR PROCUREMENT SPECIALIST CHATHAM COUNTY

QUESTIONS RECEIVED:

1. Q) It was stated at the pre-bid that the cap of 5% on mobilization would be changed. Will this be reflected in the addendum?

A) The 5% cap for pay item "Mobilization "has been removed from the Measurement and Payment section. The revised Measurement and Payment section will be included in the addendum.

- 2. Q) Legitimately, finding 30% W/MBE participation will be difficult or impossible for this specialty marine work. Consider a more realistic goal of 5%.
 A) *This is a goal*. You are to make a Good Faith Effort to meet this goal as stated in the ITB. The Goal remains 30%.
- 3. Q) Consider exempting project allowance items from W/MBE participation calculations. A) *See response to Question #2.*
- 4. Q) How will the County inspect and monitor the bottom of the slip to assure the debris is removed to their satisfaction?

A) The County will have an inspector on site periodically to monitor progress. The site will be viewed by the inspector and other County personnel at low tide to see how the material is being removed. The inspector will also examine the material as it is removed to determine potential locations where items have broken off below the surface. However, the contractor will not be required to attempt to remove materials below the surface line. However, if the contractor chooses to do so, they will be paid at the unit price in the contract.

5. Q) Besides timber debris, shall the rubble and rock debris along the deteriorated wharf be removed?

A) All debris that is on the surface shall be removed. That would include rubble and rock debris that is fully or partially visible from the surface.

- 6. Q) Will the new bid form contain a bid item for floating silt boom?
 A) The Bid Schedule has been revised to include a pay item for "Floating Sediment Barrier". The revised Bid Schedule is part of the addendum.
- 7. Q) Will the new bid form show a lesser amount for the tipping fees?
 A) The "Tipping fee/ offsite disposal " allowance has been reduced to \$ 70,000 on the revised Bid Schedule which is part of the addendum.
- 8. Q) Will the upcoming addendum contain permits already obtained by the Owner?

A) The only permit for the slip area is with the Corps of Engineers. It is set up to cover the dredging and does not specifically address the debris. The final permit will not until a dredge disposal area is identified. The current draft will be provided as part of the addendum.

9. Q) Please confirm that the County's "Local Preference" Ordinance is not applicable to this Public Works Construction Project.

A) As clearly stated in the ITB paragraph 1.13, Local Preference does not apply to Public Works Construction Projects.

- 10.Q) This is a demo project, not a structure. Will Contractors be required to provide Builder's Risk Insurance coverage as part of this project?A) *Builder's Risk does not apply for this project.*
- 11. Q) Will the pay item for "Debris removal and disposal" pay for the haul of the debris to the landfill and the pay item for "Tipping fees/ offsite disposal allowance" pay for only the disposal costs incurred at the landfill?

A). The pay item "Debris removal and disposal" will cover the actual removal of the items from the slip and their transport to the selected disposal area. The pay item " Tipping fees/ offsite disposal allowance" will pay for disposal costs incurred at the landfill or other disposal site and must be accompanied by documentation of the cost.

12. Q) If debris removed is not taken to the landfill will the Contractor be paid under the pay item "Debris removal and disposal" for the removal of the debris if the material properly weighed? For example, rip rap is removed, properly weighed and then salvaged for reuse. This would be to the benefit the County because the County would not have to pay tipping fees on items that can be salvaged for reuse.

A) The pay item "Debris removal and disposal" pays by the ton for material removed and weighed. If the debris is not taken to a disposal area, then there would be no charges against the allowance, but the removal costs would still be paid.

13. Q) Will the Contractor be responsible for removing any additional debris that are uncovered after dredging operations begin?

A) The intent is that this project will be completed before any type of dredging gets underway. There would be no requirement for the contractor to return for removal of debris encountered during dredging but which was not evident from the surface. Any debris encountered during dredging would be the responsibility of the dredging contractor.

14. Q) We request that the unit of measure for the pay item "Demobilization" is changed to Each, because of the potential for this occurring multiple times.
A) . The Bid Schedule quantity for "Demobilization " has been changed to " 1 Each ". This will provide a unit cost to be applied if there is more than one demobilization.

- 15. Q) Define cleaning limits for haul road and staging area, along with the required area along the river bank and distance from top of bank out to-wards the river channel.
 A) The clearing limits for the road will be such as to prove for two way access. Use a width of 40 feet for road clearing. For the staging/loading area, use 100' wide by 100' long centered on the road. For the unloading area for the barge use 50'wide and from top of bank to low water.
- 16. Q) Provide a detail on the haul road construction that will be required, such as base materials.

A) The haul road is for the contractor use to remove material. The contractor should make his own decision on how the road shall be constructed and maintained. The County will not set requirements for construction, maintenance and removal. However, no time extensions will be given for days when the road is impassable, so an all weather road is recommended.

17. Q) What type of requirements will be required for leaving the haul road and staging area in place after project completion.

A) The haul road and staging area will not remain in place after project completion. Removal of any materials other than earth, grading to fill and voids, and grassing of the surface is part of the "restoration" included in pay item 3.

18. Q) During the pre-bid conference it was noted that all debris removal would be taken down to the mud line. Please clarify at what elevation will the County consider the mud line be, since it is higher at the edge of basin and X number of feet out with the middle section of the basin being unknown.

A) References to the "mud line "on this project mean the surface of the ground. The representation of what was said during the pre-bid is incorrect. The intent is that all debris which can be identified from the surface shall be removed to the extent possible. Rock and rubble visible from the surface would be removed, along with such material deeper which is uncovered by the surface removal. The contractor would not be asked to excavate in search of debris. For the wooden materials, it is the intent that these be removed as much as possible by lifting from the barge. The wooden posts will not be cutoff at the surface. However, there will be no requirement to excavate to determine if all material was removed.

- 19. Q) Will a pre-debris removal survey be required along with a post construction survey.A) *No surveys are required as part of the project.*
- 20. Q) Also mentioned at the pre-bid was the possibility of an environmental curtain requirement at the entrance of the basin, please provide an alternate bid item to cover this item.

A) A pay item for floating sediment barrier has been added to the Bid Schedule. The revised Bid Schedule is part of the addendum.

SLIP 1 DEBRIS REMOVAL HUTCHINSON ISLAND SEPTEMBER, 2021 (REVISED OCTOBER 20, 2021) BID SCHEDULE

ITEM NUMBER	DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE	TOTAL COST
1.	Mobilization	JOB	LUMP SUM	
2.	Project Management/ Operations, including planning and record keeping	JOB	LUMP SUM	
3.	Clearing and preparation of unloading area and haul route to paved road including maintenance and restoratio		LUMP SUM	
4.	Debris removal and disposal	1600 Tons		
5.	Floating Sediment Barrier	300 LF	<u> </u>	
6.	Demobilization	1 EA		
7.	Standby time	10 Days		
8.	Tipping fees/ offsite disposal allowand	e JOB	LUMP SUM	\$ 70,000
9.	Field Condition Allowance	JOB	LUMP SUM	\$ 30,000

TOTAL, ALL WORK

\$_____

NAME/ TITLE

COMPANY

ADDRESS

PHONE/ FAX

EMAIL

MEASUREMENT AND PAYMENT

The items listed in the Bid Proposal shall be considered as sufficient to complete the work in accordance with the drawings and documents. Any portion of the work not listed in the Bid Proposal shall be deemed to be a part of the item with which it is associated and shall be included in the cost of the unit shown on the bid form. Payment for the units shown on the bid form shall be considered to cover the cost of all labor, material, equipment and performing all operations necessary to complete the work in place. The unit of measurement shall be the unit shown on the bid form. Payment for unit price items shall be based upon the actual quantity multiplied by the unit price. Where work is to complete the work. No payment shall be made for any material wasted, unused, rejected or used for the convenience of the contactor.

1. **Mobilization** – Mobilization of personnel and equipment and commencement of the project. Payment shall be on the basis of the lump sum price in the Bid Proposal and shall not exceed 5% of the total price bid for the project. An additional mobilization charge, at the lump sum price bid, may be charged for a remobilization effort following a demobilization authorized by the County.

2. **Project Management/ Operations** – This item shall contain all project management and operations efforts which are to be completed by the contractor during the course of the work. Costs for insurance, bonds and supervision shall be included in this item. Payment shall be at the lump sum price in the Bid Proposal.

3. **Clearing and Preparation** – This item includes efforts to prepare and maintain the unloading area and haul route to the paved roadway. The item includes clearing and grubbing as needed to provide adequate unloading area and a two way haul route, development of the roadway as necessary to allow use during most weather conditions, installation of construction exit at the paved roadway, maintenance of all items during the course of the work, and restoration of the area to the owner's satisfaction when work is complete. Payment shall be at the lump sum price in the Bid Proposal.

4. **Debris removal and disposal** – This item includes the removal of the debris from the slip area, transport by barge to the transfer location, and transport by truck to the contractor selected disposal area. Measurement shall be on the basis of weigh tickets to be provided with the pay requests which show the loaded and empty weights of each vehicle, which will be converted to a total weight of debris for each pay period. Payment shall be at the unit price in the Bid Proposal.

5. **Demobilization** – this item covers a demobilization of equipment and personnel from the site if so authorized by the County due to extended project down time due to field conditions or other issues. Payment shall be at the lump sum price in the Bid Proposal. Additional demobilization charges, at the lump sum price bid, may be charged for other demobilizations authorized by the County. Removal of equipment and personnel from the site when all work is complete shall not be considered an authorized demobilization.

6. **Standby time** – this item is to compensate the Contractor for lost time should work need to be paused per direction from the County due to field conditions or other issues. Payment shall be at the unit price in the Bid Proposal for each day or part of a day when work is suspended. Delays due to operational actions or other causes attributable to Contractor actions will not be eligible for standby time.

7. **Tipping fees/ offsite disposal allowance** – this item provides a set allowance to cover costs from the disposal area. The amount of the allowance shall be included in all bids. Copies of invoices or other documentation will be included with each pay requests to support the amount of disposal fees invoiced each period. If the total disposal fees are less than the allowance, the remainder will revert to the County. If the amount of the allowance is exceeded additional funds will be added.

8. Field Condition Allowance – this item is intended to cover costs associated with items of work which arise during the course of the project which are outside the scope of work, are relatively minor, can be completed with the limits of the allowance, and which are directed or concurred by the County. Each individual item which may occur under the allowance shall be negotiated and agreed to before work begins. If the total work fees under the allowance are less than the total, the remainder shall revert to the County.



DEPARTMENT OF THE ARMY SAVANNAH DISTRICT, CORPS OF ENGINEERS 100 W. OGLETHORPE AVENUE SAVANNAH, GEORGIA 31401-3640

FEBRUARY 0 3 2017

Regulatory Division SAS-2005-01453

Mr. Leon Davenport Chatham County 124 Bull Street Savannah, Georgia 31412

Dear Davenport :

I refer to your letter of January 21, 2016, requesting modification of Department of the Army permit number SAS-2005-01453. This permit authorized the extension of the existing Hutchinson Island Riverwalk and the deepening of the slip. The project site is located in the Savannah Harbor, within Slip 1, on Hutchinson Island, in Chatham County, Georgia, (Latitude 32.0840, Longitude -81.0842).

In accordance with your request, I am hereby authorizing the following modifications to Department of the Army permit number SAS-2005-01453:

AUTHORIZED MODIFICATIONS:

a. The completion date for work authorized under Department of the Army permit number SAS-2009-00629 is extended from December 31, 2016, to December 31, 2019.

b. Prior to the commencement of any permitted work in waters of the United States, the permittee shall debit 5.5 wetland mitigation credits from the Salt Creek Mitigation Bank, and submit documentation of this to the U.S. Army Corps of Engineers. The documentation must reference the Corps file number assigned to the permitted project. If all or a portion of the required credits are not available from Salt Creek Mitigation Bank, the permittee shall obtain written approval from the Corps prior to purchasing credits from an alternate mitigation bank. Please note, this special condition supersedes special condition 6 in the original permit.

This permit modification is subject to the terms and conditions of the original permit. You will not depart from the approved location or plans without obtaining prior approval from the Department of the Army.

This authorization does not convey any property rights, either in real estate or material, or any exclusive privileges. It does not authorize any injury to property, invasion of rights, or any infringement of federal, state, local laws, or regulations; nor

does it obviate the requirement to obtain State or local assent required by law for the activity described herein. It does not affect your liability for any damages that may be caused by the work.

If this permit modification is agreeable to you, sign both the original and duplicate copies. Please retain the original for your records and return the signed duplicate to this office. Please be advised that this permit modification is valid only if the signed duplicate copy is received in our office within 60 days from the date of this letter. If we do not receive the signed duplicate copy from you within the 60-day timeframe, this permit modification will automatically expire.

If you object to this decision due to certain terms and conditions therein, you may request that the permit be modified under our regulations at Title 33 Code of Federal Regulations (C.F.R.) § Part 331. Enclosed you will find a Notification of Appeal Process (NAP) Fact Sheet and Request for Appeal (RFA) Form. To request that the permit be modified you must complete Section II of the enclosed form and return the form to the District Engineer at the address shown above.

In order for an RFA to be accepted, the U.S. Army Corps of Engineers must determine that it is complete, that it meets the criteria for appeal under 33 C.F.R. § Part 331.5, and that it has been received by the District Engineer within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by this deadline.

It is not necessary to submit an RFA form to the District Office if you do not object to the permit decision.

A copy of this letter is being provided to the following part: Mr. Alton Brown, Resource and Land Consultants, 41 Park of Commerce Way, Suite 303, Savannah, Georgia 31405. Thank you in advance for completing our on-line Customer Survey Form located at <u>http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey</u>. We value your comments and appreciate your taking the time to complete a survey each time you have interaction with our office.

If you have any questions, please cal me at (912) 652-5550.

For Marvin L. Griffin, P.E. Colonel, U.S. Army Commanding

Enclosure

Permittee hereby accepts the terms and conditions of this instrument.

(Permittee)

(Date)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To request the transfer of this permit and the associated liabilities with compliance with its terms and conditions, the permittee and transferee must sign and date below.

(PERMITTEE-Printed Name)

(PERMITTEE-Signature)

(DATE)

(TRANSFERREE-Printed Name)

(TRANSFERREE-Signature)

(DATE)

By signature below, the U.S. Army Corps of Engineers hereby validates the transfer of the permit from the permittee named above to the transferee named above.

Issued for and in behalf of: Marvin L. Griffin, P.E. Colonel, U.S. Army Commanding (DATE)































NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

AND REGOLOTION AT LAL				
Applicant: Mr. Leon Davenport, Chatham County	File Number: SAS-2005-01453	Date: February 3, 2017		
Attached is:		See Section below		
INITIAL PROFFERED PERMIT (Standard Pern	nit or Letter of permission)	A		
X PROFFERED PERMIT (Standard Permit or Letter of permission)		В		
PERMIT DENIAL		С		
APPROVED JURISDICTIONAL DETERMINAT	ION	D		
PRELIMINARY JURISDICTIONAL DETERMIN	ATION	E		

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/CECW/Pages/reg_materials.aspx_or Corps regulations at 33 C.F.R. § Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below. B: PROFFERED PERMIT: You may accept or appeal the permit.

ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein. you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.

APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. The division engineer must receive this form within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.



DEPARTMENT OF THE ARMY SAVANNAH DISTRICT, CORPS OF ENGINEERS 100 W. OGLETHORPE AVENUE SAVANNAH, GEORGIA 31402-0889

March 1, 2007

Regulatory Division 200501453

Chatham County Attention: Mr. Patrick C. Monahan 124 Bull Street Savannah, Georgia 31412

Dear Mr. Monahan:

PLEASE READ THIS LETTER CAREFULLY AND COMPLY WITH ITS PROVISIONS.

We are enclosing a draft of your Department of the Army Permit in duplicate. If you agree with the terms and conditions, please sign and date both copies of the Draft permit and return them to this office. Upon receipt, the District Engineer will validate your permit and return the original to you for your records. We will also send a Notice of Authorization, which you should display at the project site. Your permit is not valid until signed by the District Engineer.

We require a \$100.00 fee for issuance of a permit for commercial activities. Please make your check payable to the Finance and Accounting Officer, Savannah District and return it to the above address to the attention of Jason O'Kane.

IT SHALL NOT BE LAWFUL TO DEVIATE FROM THE PLANS EITHER BEFORE OR AFTER COMPLETION OF THE WORK, unless a plan reflecting the modification has previously been submitted to and approved by this office.

In addition, please note that the permit not only authorizes the work, but also its intended use. No use other than that specified in this permit can be made of permitted work, or structures.

Please direct your attention to the General Conditions and the Special Conditions of the permit.

This office must be notified ten days in advance of your intent to start work on this project. You must also notify this office when the project is completed.

This letter contains an initial proffered permit for your proposed project. If you object to this decision, you may request an administrative appeal under Corps regulations at 33 Code of Federal Regulation (CFR) Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this decision you

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

1.4.5

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the
record of the appeal conference or meeting, and any supplemental information that the review officer has determined is
needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the
record. However, you may provide additional information to clarify the location of information that is already in the
administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:						
If you have questions regarding this decision and/or the	If you only have questions regarding the appeal process you may					
appeal process you may contact:	also contact:					
Sarah Wise	District Commander					
U.S. Army Corps of Engineers, Savannah District	U.S. Army Corps of Engineers, Savannah District					
100 W. Oglethorpe Avenue	100 W. Oglethorpe Avenue					
Savannah, Georgia 31401-3640	Savannah, Georgia 31401					
(912) 652-5550						
RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government						
consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a						
15-day notice of any site investigation, and will have the opportunity to participate in all site investigations.						
	Date:	Telephone number:				
Signature of appellant or agent.						

must submit a completed RFA form to the South Atlantic Division Office at the following address:

Administrative Appeal Review Officer CESAD-ET-CO-R (Michael F. Bell) US Army Corps of Engineers, South Atlantic Division 60 Forsyth Street, Room 9M15 Atlanta, Georgia 30303-8801 Phone: (404) 562-5137, Fax: (404) 562-5138

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR, part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP.

It is not necessary to submit an RFA form to the Division Office if you do not object to the decision in this letter.

Thank you in advance for completing our Customer Survey Form. This can be accomplished by either completing the enclosed Customer Survey Form and returning it to the address shown above or visiting our Web Site at <u>www.sas.usace.army.mil/permit.htm</u> (See General Information 6) and completing the survey on-line. We value your comments and appreciate your taking the time to complete a survey each time you have interaction with our office. If you have any questions, please call me at (912) 652-5349.

Sincerely, from Othome

Jason O'Kane Project Manager, Southern Section

Enclosures

Copies Furnished:

US Environmental Protection Agency, Region IV Wetlands Regulatory Section Attention: Ronald Mikulak, Chief Sam Nunn Atlanta Federal Center 61 Forsyth Street, Southwest Atlanta, Georgia 30303-8960 Copies Furnished Continued:

US Fish and Wildlife Service, Coastal Office Attention: Yates Allen 4270 Norwich Street Brunswick, Georgia 31520

Georgia Department of Natural Resources Environmental Protection Division Water Protection Branch Attention: Mr. Keith Parsons 4220 International Parkway, Suite 101 Atlanta, Georgia 30354

National Marine Fisheries Service Habitat Conservation Div. Attention: Mrs. Kay Davy 219 Fort Johnson Road Charleston, South Carolina 29412-9110

Sligh Environmental Consultants, Inc. Attention: Stuart Sligh 31 Park of Commerce Way, Suite 200B Savannah, Georgia 31405

DEPARTMENT OF THE ARMY PERMIT

PERMITTEE: Chatham County Attention: Mr. Patrick C. Monahan 124 Bull Street Savannah, Georgia 31412

PERMIT NUMBER: 200501453

ISSUING OFFICE: Savannah District US Army Corps of Engineers Post Office Box 889 Savannah, Georgia 31402-0889

NOTE: The term "you" and its derivatives used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate District or Division office of the US Army Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

PROJECT DESCRIPTION: Chatham County, here in referred to as the applicant, will impact approximately 0.30 acre of vegetated tidal marsh for the extension of the existing public Hutchinson Island Riverwalk by 1,890 linear feet. The proposed project will connect to the existing Hutchinson Island Riverwalk that is located on the western side of the slip (Slip 1), adjacent to the Westin Hotel. Work will consist of the installation of a steel sheet pile cut-off wall that would facilitate deepening of Slip 1. This new slip will then serve as a boat basin for recreational vessels. Additionally, the applicant will construct a pile supported walkway, a concrete deck and paver system, hand railing, and lighting along the entire perimeter of the existing slip. Work will also include the removal of timber pile remnants, as well as the remnant of a submerged barge; all are located within the slip. Work will be performed by water-borne barge and crane vessels operating from within the slip.

In order to deepen the slip, the applicant will hydraulically dredge approximately 145,000 cubic yards of sediments and pump this dredge material to Confined Disposal Facility (CDF) 12-A. Routine maintenance dredging activities of approximately 20,000 cubic yards of sediment will be performed annually. These activities will consist of hydraulic dredging with upland disposal, mechanical clamshell dredging with disposal into water borne scows or barges, agitation dredging, or hydraulic pump with discharge into the Savannah River.

Construction of the proposed project will impact approximately 0.30 acre of vegetated tidal marsh in Slip 1. The applicant proposes to mitigate for this impact by creating 0.56 acre of tidal marsh through excavation of an upland bluff along existing marsh on Hutchinson Island.

Check # 3165 For \$ 100-10 W/D & FWD F & A on



PROJECT LOCATION: The project site is located in Savannah Harbor, at latitude 32° 05.038' and longitude 81° 05.043', Slip Number 1, Hutchinson Island, Chatham County, Georgia. Confined Disposal Facility (CDF) 12-A is located adjacent to the north bank of Savannah Harbor, approximately between River Mile 5.3 and 11.7, in Jasper County, South Carolina.

PERMIT CONDITIONS:

General Conditions.

1. The time limit for completing the work authorized by this Individual Permit ends on December 31, 2011. If you find that you need more time to complete the authorized activity, you must submit a request for your permit extension at least one month prior to the above date.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. Water Quality Certifications have been issued for your project by Georgia and South Carolina. You must comply with conditions specified in these certifications as Special Conditions to this permit. For your convenience, copies of these certifications are attached.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

7. The permitee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

Special Conditions.

1. The permittee shall contact the Catawba Indian Tribe regarding their desires to receive a copy of the final Phase I Cultural Resource Survey. A point of contact for the Catawba Indian Tribe is Dr. Wenonah G. Haire Jr. Tribal Historic Preservation Officer, Catawba Indian Nation, Catawba Cultural Preservation Project, P.O. Box 750, Rock Hill, SC 29731, (803) 328-2427, wenonahh@ccppcrafts.com (also cc to jackier@ccppcrafts.com).

2. The permittee shall locate, outline, design, construct, and operate the work in accordance with the minimal requirements of the Georgia Erosion and Sedimentation Control Act of 1975, as amended.

3. Changes in the layout of the project on upland portions of the project site do not require modification of this permit, and the permittee is not required to coordinate such changes with this office. Minor changes in the footprint of authorized wetland impacts may be authorized under this permit, provided: the proposed minor change would result in no additional impact to the specific wetland area (i.e., swapping of wetland impact acreage from one permitted wetland fill site to another is not considered a minor change); and the permittee submits a change request and

obtains prior written concurrence from this office. Any proposed change to the project that would result in additional impacts to wetlands would require formal modification of the permit.

4. The permittee will ensure that the project complies with all rules, regulations, and/or requirements of the Federal Emergency Management Agency (FEMA) with regard to flood plains and floodways.

5. The permittee shall ensure that all work is accomplished in accordance with the plans and drawings attached to this permit. The plans and drawings enclosed are incorporated in and made a part of this permit:

a. Site Vicinity Map

b. Design Drawings (2)

c. Hydro & Topographic Survey

d. Site Development Plan

e. Section Drawings (3)

f. January 5, 2006, letter from the USACE, Navigation Section, conditions for use of USACE Confined Disposal Facility 12A.

g. Department of Transportation, State of Georgia, Special Provision, Section 107.23G, conditioning the work to protect Federally Threatened and/or Endangered Species.

6. The permittee shall provide mitigation for this project by working with other permittees to create approximately 8.06 acres of tidal salt marsh. The site for the created salt marsh will be located on the east northeastern end Hutchinson Island, in Chatham County, Georgia. Five projects propose utilizing this site for compensatory mitigation, USACE file numbers: 200500423, 200415260, 200114820/200501453, 200600393 and 200600909. As property owner, Chatham County will serve as the primary point of contact and manage the site. However, each party participating in the mitigation project will be jointly responsible for the success of the created, 8.06 acres of tidal marsh.

When developing the created marsh, the permittee will adhere to the approach and methodology defined in the draft mitigation and monitoring plan entitled, "Hutchinson Island Multi-Project Mitigation Site; Chatham County, Georgia," dated 6 October 2006 and revised

18 October 2006. However, the permittee must receive final, written authorization from the USACE before starting construction of the created marsh.

Within one year of the date of this permit, the permittee shall request authorization from the USACE to start construction of the created marsh site. The permittee shall complete construction within 9 months of the date of the USACE letter which authorized construction. If the permittee fails to complete construction of the created marsh within the cumulative 21 months, all five permits authorizing use of the mitigation site shall be considered non-compliant. At that time, an additional five percent of required acreage will automatically be added to the required mitigation for all mitigation at the site, and the additional mitigation will accrue every 6 months. The USACE shall determine the amount of additional mitigation required by each permittee by calculating the percent acreage of the 8.06 total acres that has already been allocated to each of the parties. The percent acreage will be calculated based on quantities defined in the previously referenced, draft mitigation and monitoring plan.

If during the monitoring period, a percentage of the site, or the entire site, does not satisfy USACE compliance requirements, then all five permits utilizing the mitigation site shall be considered non-compliant. Should a non-compliant determination be made by the USACE, then all permittees shall be required to identify additional salt marsh mitigation so that the sum total equates to 8.06 acres. Additional salt marsh mitigation may include, but is not limited to: (a) replanting the proposed mitigation site; (b) modification the proposed site's hydrology; (c) continued monitoring of the proposed site; and/or (d) identification of a new mitigation site. The USACE shall determine the amount of additional mitigation required by each permittee by calculating the percent acreage of the 8.06 total acres that has already been allocated to each of the parties. The percent acreage will be calculated based on quantities defined in the previously

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referenced, draft mitigation and monitoring plan. If the site is deemed unacceptable by the USACE during, or at the end of the monitoring period, each permittee will identify an alternate, USACE-approved site for development of salt marsh mitigation.

7. The permittee shall contact USACE and GDOT prior to disposal of material in CDF 12-A. The permittee shall inspect the CDF 12-A disposal facility prior to deposition of any dredged material into the area, to insure that all berms, embankments and weirs are in satisfactory condition. Before using the CDF 12-A disposal facility, the applicant must obtain authorization from the US Army Corps of Engineers, Savannah District's Operations Division (Stan Clark, at 912-652-5058 or Roger Lafond, at 912-652-5326) and Georgia Department of Transportation (John Phillips, at 404-651-9213).

8. Water quality data will be taken on a weekly basis when controlled releases occur from CDFs during dredged material disposal management operations. Data will include salinity (ppt), pH, dissolved oxygen (mg/l and salinity corrected), total suspended solids (TSS) (mg/l), date, time, and flow. The above data will be taken at the outfall of each weir from which there is a discharge. Should any effluent exceeding 0.1 cubic foot per second appear to violate a state standard, resampling will occur at the end of a mixing zone in the receiving water (generally 100 feet downcurrent from the point at which the effluent enters the receiving water) to determine if a violation of state standards is occurring. If a violation in the receiving water is found to be occurring, management actions will be taken to correct the violation. Where the violation can not be corrected, the permittee must contact the Savannah District Corps of Engineers, Regulatory Division, for further direction.

Dissolved	Daily average of 5.0 mg/l with a minimum 4.0		All
oxygen*	mg/l	year	
pH	6.0 - 8.5		All
		year	

Current South Carolina State Standards are as follows:

*Minimum instantaneous concentration throughout the water column.

The USACE, Savannah District, has adopted a TSS standard of 500 mg/l, based on published no-effects criteria. CDF effluent must be managed to ensure compliance with this standard and any applicable state standards. Also in accordance with District policy, the permittee may develop a correlation between effluent TSS and NTUs, and accomplish routine TSS monitoring through determination of NTUs in the effluent.

9. The permittee is authorized to use agitation, hydraulic and/or clamshell dredging to accomplish periodic maintenance dredging of the Slip 1. For the purposes of these special permit conditions, maintenance dredging, agitation dredging, hydraulic dredging and clamshell

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dredging, and are defined as follows:

a. <u>Maintenance Dredging</u>. The use of agitation, hydraulic and/or clamshell dredging to accomplish routine periodic removal of accumulated sediments from an existing area, to it's previously authorized depth.

b. <u>Agitation Dredging</u>. Dragging an I-beam or other similar device behind a tug, thereby suspending sediments to be swept from the area by the tide.

c. <u>Hydraulic Dredging</u>. Use of a small hydraulic dredge (14 inches or less), where the discharge end of the pipeline is to be positioned at or very near the edge of the Federal Navigation Channel, and at or very near the river bottom. Use of larger dredges (greater than 14 inches) will be considered on a case-by-case basis. The permittee shall submit a written request at least 30 days prior to any planned use of a large dredge. This request shall include specific measure(s) to be employed to insure that the discharge flow rate and volume of the proposed large dredge would be limited to that of a small dredge.

d. <u>Clamshell Dredging</u>. Use of a closed clamshell dredge (i.e., environmental bucket), with placement of sediments in an approved confined upland disposal facility.

10. No sooner than 7 days and at least 48 hours in advance of a planned maintenance dredging event, the permittee shall contact Operations Division, Dredging Section for prior verbal approval. The permittee will be informed whether the proposed dredging can be conducted as scheduled. The permittee's proposed dredging event may be subject to postponement, modification and/or a tidal cycle restriction (i.e., ebb or flood). Factors that can impact upon a proposed dredging event include, but are not limited to, the following: the condition of the adjacent federal channel (e.g., a shoal has formed in the Federal channel within 2000 feet up or downstream of the berth); a previously approved agitation dredging event is being or will be conducted within 3000 feet up or downstream of the area; a dredge is or will be working in the Federal channel within 3000 feet up or downstream of the area; and/or pre or post-dredging hydrographic surveys are being performed, or are scheduled to be performed, in an area of the Federal channel within 2000 feet up or downstream of the area. The permittee is responsible for resolving scheduling conflicts.

11. Unless otherwise pre-approved by the Savannah District, the permittee shall not:

a. Perform agitation or clamshell dredging in any area within 3000 feet up or ' downstream of another approved or ongoing agitation or clamshell dredging event.

b. Perform agitation or clamshell dredging in any area within 5000 feet of the end of the discharge pipe for an approved or ongoing hydraulic dredging event.

c. Place a hydraulic dredge discharge pipe within 5000 feet up or downstream of another approved or ongoing maintenance dredging event.

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12. The permittee shall perform required hydrographic surveys in accordance with criteria and procedures contained in the US Army Corps of Engineers Hydrographic Surveying Manual, EM 110-2-1003. Required hydrographic surveys shall be provided to Operations Division, Dredging Section, as plan views and shall include the shoreline and basin area, stationed to match the US Army Corps of Engineers' annual Savannah Harbor Surveys.

13. The permittee shall conduct a hydrographic survey of the area no more than 15 days before and no more than 7 days after every maintenance dredging event. An event includes all maintenance dredging work performed during one or more ebb and/or flood tides, in the accomplishment of one maintenance dredging cycle. In instances where a post dredging survey is not performed within 7 days of completing the dredging event, the permittee shall calculate the volume of material dredged by using the pre-event survey and the authorized depth (i.e., it will be assumed that the area was dredged to the authorized depth).

14. The permittee shall also conduct a hydrographic survey in the federal channel before and after every hydraulic dredging event. Channel surveys shall be performed within 24 hours of initiating and within 24 hours of completing the event. Surveys are required of the federal channel for a distance of approximately 2000 feet up and/or downstream of the point where dredged material is discharged. The permittee is only required to survey 50% of the federal channel, as measured from the channel centerline to the edge of the channel adjacent to the point of discharge. The required survey areas are as follows: hydraulic dredging during ebb tide(s) only requires a survey 2000 feet downstream of the point of discharge; hydraulic dredging during flood tide(s) only requires a survey 2000 feet upstream of the point of discharge; and hydraulic dredging during ebb and flood tide(s) requires a survey 2000 feet up and downstream of the discharge point.

15. The permittee shall direct hydraulically dredged material into the deeper parts of the federal channel in a location designated by the Savannah District, Navigation Section. The discharge end of the dredge pipeline is to be positioned at or very near the edge of the federal channel and at or very near the river bottom. The permittee shall ensure that hydraulically dredged material that is deposited in the authorized dimensions of the federal channel is spread in a thin, uniform layer. The permittee shall ensure that dredged material does not form peaks or mounds of more than 1 foot above the federal channel elevation identified by the required

pre-dredging event hydrographic survey. In addition, the permittee shall ensure that dredged material does not form a peak, mound or shoal above the authorized project depth of the federal channel. The permittee shall immediately notify Operations Division, Dredging Section, of the formation of any identified peak, mound and/or shoal within the federal channel.

16. The permittee shall maintain accurate records of every maintenance dredging event for the basin. Maintenance dredging event records shall include the following minimum information: the type(s) of dredging used for each event; starting and ending date and time of each event; hours of dredging during each ebb and/or flood tidal cycle for each event; calculated volume of material moved during each event; copies of both pre and post dredging hydrographic surveys of the berth; and if hydraulic dredging is performed, copies of required federal channel hydrographic surveys.

17. Within 30 days of the end of each quarter (i.e., quarters end on the last day of March, June, September and December) the permittee shall submit a written maintenance dredging quarterly report to Operations Division, Dredging Section. This report shall include the information identified in special condition Number 8, above. If no dredging work is performed during a given quarter, the permittee shall still submit a report stating this.

18. The permittee shall make full payment to the Savannah District within 30 days of receipt of a bill for reimbursement of costs associated with the Corps removal of agitation and/or hydraulic dredged material from the federal channel. The rate of payment is \$1.44 per cubic yard for agitation dredging, and \$1.80 per cubic yard for hydraulic dredging. The Savannah District will give 120 days prior notice to permittees when a change in these rates is anticipated.

19. To the extent that it is reasonably practicable, the permittee shall avoid maintenance dredging from 16 March through 31 May of each year. During this period, only unavoidable urgent dredging will be allowed. The permittee shall obtain approval from the Georgia Department of Natural Resources, Fisheries Management Section (GADNR), prior to performing any maintenance dredging during this period. At least 10 days in advance of any anticipated maintenance dredging event during this period, the permittee shall submit a written request to GADNR, 22814 Highway 144, Richmond Hill, Georgia 31324 (912-727-2112); and submit informational copies of this request to the Georgia Department of Natural Resources, Environmental Protection Division, 4220 International Parkway, Suite 101, Atlanta, Georgia 30334 (404-675-6240) and the National Marine Fisheries Service, Habitat Conservation Division, 219 Fort Johnson Road, Charleston, South Carolina 29412, (843-762-8574). The request shall include the following information:

a. An explanation, with documentation, adequately demonstrating that the permittee has made every reasonable effort to avoid maintenance dredging during this period; including the

date(s) that the berth was last dredged before the beginning of the 16 March through 31 May restrictive window.

b. Documentation that the basin is authorized to be maintained at a depth that is adequate to support its intended use, and that under normal circumstances, it will accumulate sediments for a minimum of 90 days without the need for maintenance dredging. [NOTE: The 90 day sediment accumulation depth varies due to factors such as, but not limited to, the permittee's intended use of the facility and substantial differences in sediment accumulation rates. Some areas in the harbor accumulate sediment at rate of 18 inches or more per month, while others areas accumulate little sediment. Under no circumstances shall the permittee be allowed to perform maintenance dredging during the period from March 16 to May 31, unless: (1) the permittee can document that every reasonable effort has been made to avoid dredging during this period; and (2) the permittee can document that every reasonable effort has been made to provide a minimum 90 day sediment storage capacity in the subject basin.] 20. The following special conditions detail measures that the permittee must implement to insure that the manatee is not adversely impacted by routine maintenance dredging activities:

a. The permittee shall insure that all personnel associated with the routine maintenance dredging are advised that there are civil and criminal penalties for harming, harassing or killing manatees, which are protected under the Endangered Species Act of 1973 and the Marine Mammal Act of 1972. The permittee and/or contractor(s) will be held responsible for any manatee harmed, harassed or killed as a result of construction activities.

b. All vessels associated with the routine maintenance dredging will operate at "no wake/idle" speeds at all times while in water where the draft of the vessel provides less than four feet clearance from the bottom and that vessels will follow routes of deep water whenever possible.

c. All dredging activities in open water will cease upon the sighting of manatees within 1'00 yards of the project area. Construction/dredging activities will not resume until the manatees have not been seen in the project area for at least 30 minutes.

d. Any collision with a manatee shall be reported immediately by the permittee to: the US Army Corps of Engineers (912-652-5050); the US Fish and Wildlife Service, Brunswick Field Office (912-265-9336); and the Georgia Department of Natural Resources (Weekdays 8:00 a.m. to 4:30 p.m.: 912-264-7218 or 1-800-272-8363; nights and weekends: 1-800-241-4113).

e. The permittee agrees that the contractor shall keep a log detailing sightings, collisions, or injury to manatees, which have occurred during the contract period.

f. The permittee agrees that following project completion, a report summarizing the above incidents and sightings will be submitted to the US Fish and Wildlife Service, 4270 Norwich Street, Brunswick, Georgia 31520.

g. The permittee shall insure that during all maintenance dredging activities a "Caution Manatee Area" sign is installed on any tugboat, dredge, barge or other water-based equipment performing authorized work. The sign shall be placed on the vessel in a location that is clearly visible by all personnel associated with the dredging operations. The manatee awareness sign shall be three feet by four feet, 125 gauge 61TS aluminum, covered with white, engineer grade, reflective sheeting; black painted lettering; black screened design; and orange, engineer grade, reflective tape border. The permittee may contact the Brunswick Field Office of the U.S. Fish and Wildlife Service (912-265-9336) for information on manatee signs.

21. Within 21 months of the date of this permit, all property identified in the mitigation plan, shall be protected by a restrictive covenant. A draft Declaration of Covenants and Restrictions with exhibits shall be prepared by an attorney for the permit holder and forwarded to the USACE Savannah District, Office of Counsel, for written approval. All

restrictive covenants should be drafted utilizing the latest version of the USACE Savannah District's model document entitled, "Declaration of Covenants and Restrictions with Instructions." The model document is located on the Department of the Army, Corps of Engineers, Savannah District web site at www.sas.usace.army.mil/ . Select the yellow box titled, "Permit Info." Scroll down to find the model draft Declaration of Covenants and Restrictions with Instructions. Upon written approval by Office of Counsel, the restrictive covenant will be recorded in the land records Office of the Clerk of the Superior Court in the county in which the land lies. A copy of the recorded restrictive covenant, showing book and page numbers of its recorded location, shall be provided to Office of Counsel. Upon receipt by Office of Counsel of a copy of the recorded restrictive covenant, showing book and page numbers and properly executed, the restrictive covenant requirement shall be completed.

22. The permittee shall assure the boundary of all property identified as mitigation property and protected by the restrictive covenant shall be posted with appropriate signs or marked clearly to guard against unauthorized disturbance to this area during or following construction activities. Signs shall meet the following criteria: be painted metal, printed plastic, or other durable construction; placed at intervals not to exceed 250 feet; affixed at approximately 5 feet above ground elevation; contain the phrase "Conservation Area Do Not Disturb"; "Conservation Area Do Not Disturb" text shall be of sufficient font, size and color to be easily legible at 25 feet; signs shall face away from the protected property.

23. The permittee shall ensure that soil conditions during all mitigation area excavation work is closely monitored for any signs of possible contamination and that appropriate actions are taken if any issue arise.

24. Water Quality Certifications have been issued for your project by Georgia and South Carolina. You must comply with conditions specified in these certifications as Special Conditions to this permit. For your convenience, copies of these certifications are attached.

FURTHER INFORMATION:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to Section 404 of the Clean Water Act (33 United States Code 1344).

2. Limits of this Authorization.

a. This permit does not obviate the need to obtain other federal, state, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed federal projects.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data. The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision. Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7, or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order which requires you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate.

d. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion

of the authorized activity or a reevaluation of the public interest decision, the US Army Corps of Engineers will normally give favorable consideration to a request for an extension of time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

03-06-2007 (DATE)

This permit becomes effective when the federal official, designated to act for the Secretary of the Army, has signed below.

Issued for and in behalf of: Mark S. Held Colonel, US Army District Engineer

5 Apr 07 (DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE)

(DATE)

Regulatory Branch

CERTIFICATION OF COMPLIANCE

WITH

DEPARTMENT OF THE ARMY PERMIT

PERMIT NUMBER: 200501453

PERMITTEE: Chatham County Attention: Mr. Patrick C. Monahan 124 Bull Street

Within 30 days of completion of the activity authorized by this permit, sign this certification and return it to the following address:

Commander US Army Engineer District, Savannah Attention: Regulatory Branch Post Office Box 889 Savannah, Georgia 31402-0889

Please note that your permitted activity is subject to compliance inspection by an US Army Corps of Engineers' representative. If you fail to comply with the permit conditions it may be subject to suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit.

Signature of Permittee/Date





ALL RIGHTS RESERVED . DRAWINGS MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION AFra NORT 1.0 , Par <u>م</u>ي. 30 c 2002 WALK EXTENSION RIVER SITE* 115 COPYRIGHT NTS HUSSEY, GAY, BELL & DEYOUNG INC. CONBULTING ENGINEERB POST OFFEC BOX 14247 SXWORM, CONCA 335 COLUERCIAL DAVE SXWORM, CONCA 335 - 4454 DEFCK (013) 354-4554 DRAWN BY HUTCHINSON ISLAND RIVERWALK EXTENSION SHEET . MUMBER FOR DRAWN BY: KRW CHECKED BY: RTH APPROVED BY RTH J28 CCUVERCIAL DRIVE OFFICE (012) J54-4626 TELETAX (013) J54-6754 CHATHAM COUNTY C1 A Beil Company HYDRO & TOPOGRAPHIC SURVEY 1 OF & SHEETS









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Hutchinson Island Multi-Project Mitigation Site Chatham County, Georgia 6 October 2006 Revised 18 October 2006

Introduction:

The construction of a 8.06 acre multi-project tidal mitigation site is proposed on Hutchinson Island within Chatham County, Georgia. This mitigation will satisfy the compensatory tidal wetland mitigation requirements for five projects. These projects include the Village at Oglethorpe Landing (USACE Project No. 200500423), City of Savannah Riverwalk Extension (USACE Project No. 200415260), Slip One on Hutchinson Island (USACE Project No. 200114820/200501453), Hardin Canal DraInage Improvements Project (USACE Project No. 200600393) and Skidaway Narrows Emergency Access (USACE Project No. 200600909). This compensatory mitigation plan will provide a description of the construction and monitoring activities proposed for the mitigation site.

As a special condition associated with each of the permits, the applicants/permittee have proposed the creation of vegetuted tidal marsh to compensate for unavoidable project related impacts. Table 1 provides an outline of the proposed impacts and mitigation requirements associated with each of the four projects.

Project Name	Applicant Name	USACE Project Number	Tidal Marsh Impacts (Acres)	Tidal Marsh Creation (Acres)
Villege at Oglethorpe Landing	The Village at Oglethorpe Landing, LLC	200500423	0.28	1
City of Savannah Riverwalk Extension	City of Savannah	200415260	1.5	5.4
Slip One on Hutchinson Island	Chetham County	200114820/200501453	0.28	0.58
Hardin Canal Drainage Improvements Project	Chatham County	200600393	0.27	0.54
Skidaway Narrows Emergency Access	Chatham County	200600909	0.56	0.56
			TOTAL	8.06

TABLE 1.0

Mitigation Site Location:

The proposed mitigation site will consist of 8.06 acres located east of The Westin Savannah Harbor Golf Resort, west of Fig Island and adjacent to and south of the Back River on Hutchinson Island (approximate Latitude 32° 04° 58.61° Longitude 81° 03° 27.79°). The following sections will discuss the implementation methodologies and schedule necessary to produce suitable surface water hydrology, wetland vegetation, and physical and hiological parameters within the proposed wetland creation area. Vegetative and structural measures such as Type C silt fence, hay bales, grassed slopes, etc. will be employed for the duration of construction activities to prevent discharge of sedimentation into adjacent wetlands.

Site Preparation:

Prior to initiation of site preparation activities, the applicant will complete a topographic survey within the creation area and adjacent tidal wetlands (reference wetland) adjacent to and immediately north the site. Using this topographic information, site preparation will include excavning and grading the mitigation area to create elevations matching those of the reference wetland and insure a hydrological connection between wetlands. All excavated material will be placed within an upland disposal site located on Hutchinson Island and currently owned by Chatham County. It is anticipated that site preparation work and construction of the 8.06 acre tidal marsh creation area will begin in 2007.

Vegetation Planting:

Upon the completion of the site preparation activities, the applicant is proposing to plant saltmarsh cordgrass (*Spartina alterniflora*) on 12 inch centers. In addition to establishing vegetation within the site via planting, it is expected that the adjacent tidal wetland area and daily tidal exchange will act as a natural seed source for aquatic herbaceous species to aid in the creation efforts and the diversity of the mitigation area.

Mitigation Monitoring:

Creation Area: The success of the wetland creation efforts will be documented by monitoring the creation site over a live-year period. The first monitoring period will be conducted the full after the creation site has been planted and annually thereafter. During this five-year monitoring period, mitigation success will be evaluated by the USACE to determine if the monitoring plan will require modification and/or an additional study. Detailed field surveys will focus on measurements of soil saturation and vegetation survival and growth. Vegetation monitoring will be accomplished

with quadrant sampling procedures for the comprehensive wetland determination as described in the 1987 "Corps of Engineers Wetlands Delineation Manual^{o1}. Two randomly located sampling plots will be permanently established in the creation area and marked with PVC pipe. The plots will be sampled annually at the end of the growing season (1 August to 30 September) each monitoring year. Planted stem survival and species composition and density of naturally regenerating plants will be documented within the plot. Visual documentation will be provided in photographs to be taken at established points in the mitigation areas over the five-year monitoring period. These photographs will document the vegetation growth changes that occur in the mitigation area. Results of these samples will provide a quantifiable means of evaluating the vegetative and hydrologic responses of the mitigation plan.

The hydrology monitoring will be conducted by placing two ground and surface water monitoring wells within the 8.06 acre creation area. These electronic wells will record the hydrologic conditions within both the creation area and reference wetland twice daily over the five-year monitoring period.

Reference Wetland: As indicated above, the existing tidal marsh area located immediately adjacent to and north of the proposed mitigation site will be used to establish elevations during construction activities. One monitoring ground and surface water monitoring well will be installed and baseline vegetation data, including stem density and species composition, will be collected within the reference wetland. This information will be used to confirm the success of the mitigation site during the five year monitoring period.

Success Criteria:

The tidal wetland vegetation creation effort will be considered successful and complete if, at the end of the five-year monitoring program, 70 percent of the planted stems survive, the plant material exhibits a consistent increase in height and lateral growth and the site contains an average stem density greater than or equal to 75 % of the average stem density in the reference area. In the alternative, if less than 70 percent of the planted species survive but desired volunteer tidal species are established to adequately compensate, the creation project may, after review by the appropriate regulatory agency personnel, be considered complete. Annual monitoring reports will be submitted to document the ongoing success of the mitigation site.

Hydrologic conditions will be considered successful if the frequency, duration, and elevations of flooding are within 10% of those recorded within the adjacent reference wetland.

Contingency:

If, at the end of the five-year monitoring period, success criteria have not been satisfied. Chatham County will consult with the appropriate regulatory review agencies to determine specifically what remedial action should be taken. If significant problems with the creation efforts are identified prior to the end of the initial five-year monitoring period, regulatory agency personnel will be consulted regarding the advisability of taking corrective action. Remedial action may include replanting or modification of hydrology and continued monitoring until the success criteria is met.

This multi-project mitigation site is currently proposed to satisfy the mitigation requirements for five projects and if additional tidal marsh mitigation is required for future Chatham County projects, the County intends to expand the 8.06 acre creation area as necessary. Chatham County, as the property owner, will be the point of contact for the project and will manage the site; however, each party participating in this project including The Village at Oglethorpe Landing. LLC, City of Savannah, and Chatham County will be jointly responsible for the success of the 8.06 acre tidal marsh creation area. If any portion of the site does not meet the success criteria indicated above, all participating parties will be responsible for any remedial action required by the regulatory agencies.

Restrictive Covenants:

Within six months of completing the excavation, grading, and planting, the permittee will prepare a draft restrictive covenant package to be submitted to the USACE for review and approval. Within three months of final USACE approval. Chatham County will record the restrictive covenants and provide the USACE with a final copy of the recorded covenants.

¹ Environmental Laboratory, 1987. "Corps of Engineers Wetlands Delineation Manual." Technical Report Y-87-1, US Army Engineer Waterways Experiment Station, Vieksburg, Missiasippi...







Beckwith orgia Department of N tural Resources 2 Martin Luther King, Jr. Drive, S.E., East Floyu Jower, Atlanta, Georgia 30334

Lonice C. Barratt, Commissioner David M. Word, Assistant Director Environmental Protection Division 404/656-4713

October 22, 2003

Manager, Chatham County 124 Bull Street Savannah, Georgia 31412

> Re: Water Quality Certification Public Notice No. 200114820 Hutchinson Island Riverwalk Expansion Savannah River Basin/Coastal Zone Chatham County

Dear Sirs:

Pursuant to Section 401 of the Federal Clean Water Act, the State of Georgia issues this certification to Chatham County, an applicant for a federal permit or license to conduct an activity in, on or adjacent to the waters of the State of Georgia.

The State of Georgia certifies that there is no applicable provision of Section 301; no limitation under Section 302; no standard under Section 306; and no standard under Section 307, for the applicant's activity. The State of Georgia certifies that the applicant's activity will comply with all applicable provisions of Section 303.

This certification is contingent upon the following conditions:

- All work performed during construction will be done in a manner so as not to 1. violate applicable water quality standards.
- No oils, grease, materials or other pollutants will be discharged from the 2. construction activities which reach public waters.

Page 2 JPN 200114820 Chatham County

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This certification does not relieve the applicant of any obligation or responsibility for providing acceptable mitigation for unavoidable impacts to waters of the State or for complying with the provisions of any other laws or regulations of other federal, state or local authorities.

It is your responsibility to submit this certification to the appropriate federal agency.

Sincerely,

Assistant Director

DMW:kpk

cc: Ms. Mirian Magwood Mr. Ron Mikulak Ms. Sandra Tucker Mr. David Rackley Ms. Jeannie Butler Ms. Kelie Moore Feb-01-2007 12:00pm

From-SC DHEC W QUALITY

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P.002/003 T-992 F-834

Disabeth M. Hagand

Edwin H. Cooper, III Vier Chainman

Seeven G. Kisner Secretary

BOARO:

Chairman

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BOARO

Paul C. Aughtry, 111

Coleman F. Buckhouse, MD

Glenn A. McCall

C. Earl Hunter, Commissioner Promoring and protecting the health of the public and the environment

January 25, 2007

Chatham County Assistant County Manager 124 Bull St Savannah GA 31412

Certification in Accordance with Section 401 of the Clean Water Act, as amended and the Re: Coastal Zone Management Program (48-39-10 et. seq., and 15 CFR 93)

Chatham County Assistant County Manager Expansion of the existing public riverwalk on Hutchinson Island Savannah River Jasper County P/N 2005-1W-413

Dear Sir.

The Bureau of Water and Ocean and Coastal Resource Management have reviewed plans for this project and determined there is a reasonable assurance that the proposed project will be conducted in a manner consistent with the Certification requirements of Section 401 of the Federal Clean Water Act, as amended, and the Coastal Zone Management Act (48-39-10 et. seq., and 15 CFR 93).

In accordance with the provisions of Section 401, we certify that this project, subject to the indicated conditions, is consistent with applicable provisions of 303 of the Federal Clean Water Act, as amended. We also certify that there are no applicable effluent limitations under Sections 301(b) and 302, and that there are no applicable standards under Sections 306 and 307.

This certification is subject to the following conditions:

- OCRM must be notified, in writing, prior to initiation of construction. OCRM will then 1. issue an "authorization to commence work" placard. The placard must be placed in a conspicuous place at the site. No authorized work can commence until the placard is posted and all required permits have been issued and is not valid until all other required federal, state and local permits have been issued for the activity.
- The applicant must implement best management practices that will minimize crosion and 2. migration of sediments on and off the project sile during and after construction. These practices should include the use of appropriate grading and sloping techniques, mulches, hay bales, silt fences, or other devices capable of preventing crosion, migration of sediments and bank failure. All disturbed land surfaces and sloped areas must be stabilized and sloped with a minimum 3/1 slope upon project completion.

Page: 2 Chatham County Assistant County Manager January 25, 2007

- The applicant must dispose of the initial dredge spoils into the previously authorized confined disposal facility 12-A. Any alternate disposal area must be reviewed and approved by the Division of Water Quality prior to its use.
- 4. Maintenance dredging must be performed in accordance with the long-term maintenance strategy (LTMS) for Savannah Harbor previously authorized May 10, 1996. The applicant must adhere to the conditions of the water quality certification issued for the LTMS on May 10, 1996, as those conditions are still in effect.
- The applicant must supply a copy of any final cultural or archaeological survey report to the Catawba Indian Nation.
- 6. If any skeletal remains and/or any objects falling the Native Americans Graves Protection and Repatriation Act Graves Protection and Repatriation Act (NAGPRA) are uncovered during construction, the construction must stop immediately. The United Keetoowah Band of Cherokee Indians in Okalahoma, the Eastern Shawnee Tribe of Oklahoma, and the Catawba Indian Nation must be notified and consulted for resolution
- 7. The applicant must provide compensatory mitigation in accordance with the mitigation and monitoring plan entitled, "Hutchinson Island Multi-Project Mitigation Site; Chatham County, Georgia," as revised October 18, 2006 Monitoring must be performed for a period of five years in accordance with the mitigation and monitoring plan revised on October 18, 2006. Contingency measures included in this plan must be implemented if success criteria are not met.

The SC Department of Health and Environmental Control reserves the right to impose additional conditions on this Certification to respond to unforeseen, specific problems that might arise and to take any enforcement action necessary to ensure compliance with State water quality standards.

Sincerely,

Heather Preston, Director Division of Water Quality Bureau of Water

CC:

U.S. Army Corps of Engineers, Charleston District Office SC DHEC, District Office OCRM

Date: August 25, 2006

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

SPECIAL PROVISION

Project MSL-0002-00(691), Chatham County, P.I. #0002691

Section 107 – Legal Regulations and Responsibility to the Public

Add the following to Subsection 107.23:

G. Protection of Federally Threatened and/or Endangered Species

The following conditions are intended as a minimum to protect these species and its habitat during any activities that are in close proximity to the known location(s) of these species.

- The Contractor shall advise all project personnel employed to work on this project about the potential presence and appearance of the federally protected manatee, bald eagle, wood stork, shortnose sturgeon, and marine sea turtles, and that there are civil and criminal penalties for harming, harassing, or killing manatees, bald eagles, shortnose sturgeon, or marine sea turtles which are protected under the Endangered Species Act of 1973. Manatees are also protected under the Marine Mammal Protection Act of 1972. Bald eagles are also protected under the Eagle Protection Act of 1940. Pictures and habitat information will be provided to the Contractor at the preconstruction conference.
- The Contractor shall advise all personnel of the responsibility of watching for the presence of manatees, bald eagles, wood storks, shortnose sturgeon, and marine sea turtles at all times during construction, including water related activities to implement appropriate precautions and ensure protection.
- 3. All barges used in the construction activities shall be of such size and weight that dredging of the river will not be required.
- 4. Construction debris shall not be allowed into the water.
- 5. Extreme care shall be taken in lowering equipment or materials, including, but not limited to, piles, sheet piles, casings for drilled shaft construction, spuds, pile templates, etc., below the water surface and into the river bed taking precaution not to harm any manatee, shortnose sturgeon, or marine sea turtles that may have entered the construction area undetected. The maximum speed at which these items can be lowered shall be 10 feet per minute.
- 6. All vessels shall operate at "no wake/idle" speeds at all times.
- Propellers on all boats, 21 feet in length and less, shall be equipped with propeller guard systems, approved by the Project Engineer, designed to prevent harm to manatees.
- 8. A total of six (6) signs will be required and placed by the Contractor at prominent locations within the construction area:
 - a. Four (4) "Caution Manatee Area" signs (two on the upstream side and two on the downstream side of the side of the slip or construction area) shall be placed in the construction vicinity prior to commencement of work and shall be maintained until such time that Final Acceptance of the project is made (Figure 1).





WITH BLACK 4" LETTERING.

FIGURE NO. I

Section 107 – Legal Regulations and Responsibility to the Public

- b. Two (2) "Manatee Habitat Idle Speed in Construction Areas" signs (one on the upstream and one on the downstream side of the side of the slip or construction area) shall be placed in the construction vicinity prior to commencement of work and shall be maintained until such time that Final Acceptance of the project is made (Figure 2).
- The "Caution Manatee Area" and "Manatee Habitat Idle Speed in Construction Area" signs shall be 3 feet by 4 feet conforming with Section 636 – Highway Signs; covered with white, Type I reflective sheeting; black painted lettering; black screened design; and orange, Type I reflective tape border.
- Placement of all signs shall be as approved by the Georgia Department of Natural Resources, Coastal Resources Division, Brunswick, Georgia. The contact person for the Georgia Department of Natural Resources is Leigh Youngner at (912)-264-7218.
- 11. A trained spotter provided by the Contractor, shall be onsite for sightings of manatees during removal of the piles and debris from the boat slip and construction of the river walk. Personnel designated by the Contractor shall receive training by the Georgia Department of Natural Resources, Coastal Resources Division, Brunswick, Georgia. The contact person for the Georgia Department of Natural Resources is Leigh Youngner at (912) 264-7218.
- 12. Underwater blasting shall not be allowed from April 1 to October 31 to minimize the likelihood of injury to manatees and marine sea turtles. "Danger zones", defined by the U.S. Fish and Wildlife Service's "Manatee Protection Measures", shall be established by the Contractor if open water blasting is planned from November 1 to December 31 and from February 16 to March 14. The U.S. Fish and Wildlife Service recommends the following Manatee Protection Measures for blasting:
 - a. For each explosive charge placed, detonation shall not occur if a manatee or marine sea turtle is known to be within a circular area (the "danger zone") around the detonation site with the following radius:

r = 260(∛₩)

where

- r = radius of the danger zone in feet
- W = weight of the explosive charge in pounds (tetry! or TNT)
- b. A manatee and marine sea turtle watch shall be conducted by no less than two qualified observers from watercraft, aircraft, or high vantage point for at least 30 minutes before, during, and after detonation, in a circular area at least three (3) times the radius of the above described danger zone. Establishment of danger zones will not be required from January 1 to February 15.
- c. Any manatee(s) or marine sea turtle(s) in the danger zone or the watch zone shall not be forces to move out of those zones by human intervention. Detonation shall not occur until the manatee(s) or marine sea turtle(s) move(s) out of the danger zone on its own volition.
- 13. The Contractor shall cease all construction activities and vessel movement in open water shall cease upon the sighting of a manatee or marine sea turtle within 300 feet of the project area. The Contractor shall only resume construction activities once the manatee or marine sea turtle has not been observed in the project area or within 300 feet of the project area for at least 30 minutes.
- 14. All construction activities shall cease upon the sighting of a bald eagle or wood stork within 100 yards of the project area. The construction activities shall not resume until the bald eagle or wood stork has not been observed in the project area or within 100 yards of the project area for at least 30 minutes.



Section 107 – Legal Regulations and Responsibility to the Public

SPECIFICATIONS : SIGNS SHALL BE A MINIMUM OF 3'X 4', PAINTED WHITE; BLACK 4" LETTERING; AND ORANGE, ENGINEER GRADE, REFLECTIVE CIRCLE AND BORDER.

Section 107 – Legal Regulations and Responsibility to the Public

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- 15. Any sighting of manatee, bald eagle, wood stork, shortnose sturgeon, or marine sea turtle or in the event any incident occurs that causes harm or that could be detrimental to the continued existence of the manatee, bald eagle, wood stork, shortnose sturgeon, or marine sea turtle along the project corridor, the Contractor shall report the incident immediately to the Project Engineer who in turn will notify:
 - a. U.S. Fish and Wildlife Service, Brunswick Field Office at (912) 265-9336 for manatee and bald eagle;
 - b. National Marine Fisheries Service, Southeast Regional Office at (727) 824-5312 for shortnose sturgeon marine sea turtle;
 - c. Federal Highway Administration, Georgia Division at (404) 562-3630 for all species;
 - d. Georgia Department of Natural Resources, Coastal Resources Division, at (912) 264-7218 for all species; and
 - e. Harvey Keepler, Georgia Department of Transportation, Office of Environment/Location at (404) 699-4401 or (770) 478-7268 for all species.

In the event of possible harm to the manatee, bald eagle, wood stork, shortnose sturgeon, or marine sea turtle, all activity shall cease pending Section 7 consultation by the Department with the U.S. Fish and Wildlife Service or National Marine Fisheries Service and the lead Federal Agency.

- 16. Dead manatees, shortnose sturgeon, or marine sea turtles shall be secured to an object to prevent the carcass from being swept away by water currents.
- 17. The Contractor shall keep a log detailing any sightings collisions, or injury to manatees, bald eagles, wood storks, shortnose sturgeon, or marine sea turtles in or adjacent to the project until such time that Final Acceptance of the project is made. Following project completion, the log and a report summarizing any incidents and/or sightings with manatees, bald eagles, wood storks, shortnose sturgeon, and marine sea turtles shall be submitted by the Contractor to the:
 - a. Project Engineer;
 - Harvey Keepler, Georgia Department of Transportation, Office of Environment/Location, 3993 Aviation Circle, Atlanta, Georgia 30336-1593;
 - Federal Highway Administration, Georgia Division, 61 Forsyth Street, S.W., Suite 17T100, Atlanta, Georgia 30303-3104;
 - d. U.S. Fish and Wildlife Service, Brunswick Field Office, 4270 Norwich Street, Brunswick, Georgia 31520;
 - e. Georgia Department of Natural Resources, Coastal Resources Division, 1 Conservation Way, Brunswick, Georgia 31523; and
 - f. National Marine Fisheries Service, Southeast Regional Office, 263 13th Avenue South, St. Petersburg, Florida 33701.
- 18. All costs pertaining to any requirement contained herein shall be included in the overall bid submitted unless such requirement is designated as a separate Pay Item in the Proposal.