



**US Army Corps
of Engineers**
Charleston District

Project Fact Sheet

Charleston Peninsula Study

Charleston County

P2#: 474899

Congressional Districts: Nancy Mace (SC-01) James Clyburn (SC-6)

Appropriation: Investigations
Phase: Feasibility
Business Line: Flood Risk Management

Authority: PL 115-123

Location Description: The project is located in the City of Charleston, Charleston County, South Carolina, specifically the Peninsula area that is surrounded by the Ashley and Cooper Rivers.

Project Description: The Charleston Peninsula Coastal Storm Risk Management (CSRMS) Study purpose is to investigate potential structural and nonstructural solution sets in terms of coastal storm risk management. Coastal storm risk management seeks to address coastal storm and flood risk to vulnerable populations, property, ecosystems, and infrastructure along the coast. The Charleston Peninsula, South Carolina has high levels of risk and vulnerability to coastal storms which will be exacerbated by a combination of sea level rise and climate change over the period of analysis.

Current Status: As of 14 April 2021 - The Charleston District and City of Charleston executed a Feasibility Cost Sharing Agreement on October 10, 2018. The feasibility study is 100% federally funded under the recent Bipartisan Budget Act of 2018. The District requested a 3x3x3 exemption request for additional study time (10 months) and funding (\$710k). This will allow the study to move from an environmental assessment to environmental impact statement. Based on agency and public comments received from the initial review period, it was concluded that the study will not be able to identify clear mitigation requirements for the wetland, cultural and visual impacts. In February 2021, the 3x3x3 exemption request was approved by ASA (CW). The re-release of the draft environmental impact statement/integrated feasibility report will be in September 2021 for a 45 day public/agency review. The signed chiefs report is scheduled for August 2022.

Sponsor: City of Charleston

Project Manager (PM): Wes Wilson
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**US Army Corps
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Charleston District

Project Fact Sheet

Charleston Harbor, SC - Post 45

Charleston County, SC

P2#: 137921

Congressional Districts: Nancy Mace (SC-01)

Appropriation:
Construction

Phase:
Construction

Business Line:
Navigation

Authority: Section 216, P.L. 91-611

Location Description: Charleston Harbor is located about midway along South Carolina's Atlantic coastline and supports a vital mission in the defense of our nation as one of the nation's 17 strategic ports for national defense. Latest commercial tonnage as reported by the Waterborne Commerce Statistics Center for Fiscal Year 2018 was 1.8 million Twenty-foot Equivalent container Units (TEUs) of cargo, which ranks it eighth in the nation for container traffic. The major commodity imported and exported is manufactured equipment and machinery. BMW, Mercedes-Benz, Volvo, International Paper, Sonoco, Purdue, Fujifilm, Husqvarna, Honda, Samsung, Bosch, Dollar Tree, GE, Michelin, Continental Tire, Bridgestone, Giti Tire are among the best-known businesses calling on South Carolina Ports, including those along Charleston Harbor. Per U.S. Census Bureau, the 2018 value of waterborne commerce through Charleston was \$72.7 billion. Port operations facilitate 225,000 jobs across South Carolina and \$63.4 billion in economic activity each year.

Project Description: The non-federal sponsor, the South Carolina State Ports Authority (SCSPA), requested a locally preferred plan (LPP) with a project depth of -52 feet MLLW containing associated channel widening and turning basins. The recommended plan authorized by Congress is the LPP. The fully funded project cost of the authorized General Navigation Features is \$548,892,000, with average annual benefits from the latest approved evaluation of \$169,627,000; average annual costs of \$26,460,000; and a benefit-to-cost ratio of 6.4 at 2.875%. The federal share of the authorized project costs is approx. \$345,430,000 and the non-federal share is approx. \$203,462,000. The authorized project consists of the following navigation improvements: (1) Deepen the existing entrance channel from a project depth of -47 feet to -54 feet MLLW and extend approximately three miles seaward from the existing location to a depth contour of -54-foot MLLW; (2) Deepen the inner harbor from an existing project depth of -45 feet to -52 feet MLLW from the Entrance Channel to the confluence of the Wando and Cooper Rivers, about two miles up the Wando River to the Wando Welch Terminal and about three miles up to the Cooper River to the Hugh K. Leatherman, Sr. Terminal, and to a project depth of -48 feet MLLW over the five mile reach leading from the Hugh K. Leatherman, Sr. Terminal to the North Charleston container facility; (3) Enlarge the existing turning basins at the Wando Welch, Hugh K. Leatherman, Sr. and North Charleston terminals; and (4) Widen selected channel reaches.

Current Status: As of 16 April 2021 - The Project was authorized for construction on 16 Dec 2016 by Section 1401(1)6. of the Water Resources Development Act of 2016 (WRDA 2016), Public Law 114-322. The District received \$17,500,000 in funding in the FY 17 work plan for a new start construction project followed by \$49,000,000 and \$41,415,000 in the FY 18 and FY 19 work plans, respectively. In FY20 the District received \$138,040,000 in funding in the FY20 Appropriations Bill, fully funding the project to completion. The Project Partnership Agreement (PPA), which includes provisions for the SCSPA to advance the Federal share in addition to the non-Federal share for the purpose of constructing the Project, was executed on 19 Jul 2017. An amendment to the PPA was signed on 19 Feb 2020 stating that funds received in the FY20 Appropriations Bill will be used to fully fund the project to completion. The first two construction contracts for deepening the Entrance Channel were awarded on 7 September and 26 October, 2017, respectively, with a total current obligated value of \$334,052,188. Physical dredging construction started on 3 March 2018. The construction contract for deepening the Charleston Lower Harbor to Wando Welch Terminal was awarded on 19 August 2019 with a current obligated value of \$133,055,231. Physical dredging for this construction contract started on 7 October 2019. The construction contract for deepening the Charleston Lower Harbor to Hugh Leatherman Terminal was awarded on 10 September 2020 with a current obligated value of \$55,131,516. Physical dredging for this construction contract started on 24 September 2020. The construction contract for deepening the Charleston Upper Harbor to North Charleston Terminal was awarded on 17 September 2020 with a current obligated value of \$33,838,810. Physical dredging for this construction contract is expected to begin in April 2021.

Sponsor: South Carolina State Ports Authority

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**US Army Corps
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Charleston District

Project Fact Sheet

Folly Beach Resiliency Study

Charleston County

P2#: 475717

Congressional Districts: Nancy Mace (SC-01)

Appropriation:

Construction

Phase:

NA

Business Line:

Storm Damage Reduction

Authority:

Location Description: Folly Beach is located about 12 miles south of Charleston, South Carolina on Folly Island. Folly Island is 6.1 miles in length, of which 5.34 miles are included in the Federal project.

Project Description: This Engineering Documentation Report (EDR) adds dunes into the project template allowing for incorporation of existing dunes, repair of damaged dunes and construction of new dunes.

Current Status: As of 14 April 2021 - In 2019, the Folly Beach CSRSM project was allocated \$2M to add resilience features to hot spot areas of the beach. Based on recent guidance from HQ the Folly Beach CSRSM project is no longer eligible for funding due to the recent completion of a full renourishment in 2018.

Sponsor: City of Folly Beach, SC

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US Army Corps
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Charleston District

Project Fact Sheet

Lakes Marion and Moultrie, SC

Dorchester County, SC

P2#: 113262

Congressional Districts: James Clyburn (SC-6)

Appropriation:	Phase:	Business Line:
Construction	Construction	Water Supply

Authority: Sec 219, P.L. 102-580 and Sec 502(f)(25), P.L. 106-53 as amended by Sec 108(c)(4) P.L. 106-554 and further amended by Sec 126, P.L. 108-137 and further amended by Sec 5128, P.L. 110-114 and Sec 1157 and Sec 1182 of P.L. 114-322, and Section 1303(b)(2) of P.L. 115-270

Location Description: Using Lake Marion as a source, this environmental infrastructure project will provide potable water to satisfy the immediate and future water supply and sewer needs for a large portion of six counties and seven municipalities located in central South Carolina.

Project Description: The project includes construction of an 8 MGD (million gallon per day) water treatment plant completed in May 2008, construction of a water tower completed in February 2012, installation of approximately 75 miles of water transmission lines, and installation of a sewer component. Like all environmental infrastructure projects this project cannot be budgeted for by the Administration and in the absence of earmarks has received funding when there are funding pots for environmental infrastructure available during development of a USACE Work Plan. The U.S. Army Corps of Engineers had authority to expend \$60M for planning, engineering, design, and construction assistance. WIIN/WRDA 2016 added Berkeley County to the counties for which assistance can be provided and removed Sumter County. It also increased the total federal funding amount authorized to be appropriated by up to \$50M. WRDA 2018 [Sec. 1303(b)(2)] specifically modified the Federal appropriations limit to \$110,000,000.

Current Status: As of 15 April 2021- Approximately 51 miles of the 75 total miles of water transmission lines have been completed to date. The construction of the Holly Hill to Harleyville Reach transmission line was completed in September 2015. The construction of Dorchester County Reach transmission line was completed in April 2020. We are also finalizing designs to award construction contracts for the next LMRWA priority, the Winding Woods tank and Reach and the Providence Reach with the FY21 Work Plan, followed by the Orangeburg-Berkeley Reach.

Sponsor: Lake Marion Regional Water Agency

Project Manager (PM):	PM Phone:	PM Email:
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US Army Corps
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Charleston District

Project Fact Sheet

Inspection of Completed Works, SC

P2#: 476739

Congressional Districts: Nancy Mace (SC-01) Joe Wilson (SC-2) Jeff Duncan (SC-3)
William Timmons (SC-4) Ralph Norman (SC-5) James Clyburn (SC-6)

Appropriation: **Phase:** **Business Line:**
Operation & Maintenance NA Flood & Coastal Storm Damage Reduction

Authority: Section 221; P.L. 91-611

Location Multiple
Description:

Project Description: Periodic inspection of federally constructed, locally operated projects in the District. A full report on the project condition is prepared and forwarded to the local sponsor with recommendations for corrective action if required. Proposed inspections are necessary to determine if local interests are maintaining projects in accordance with existing agreements.

Current Status: As of 19 April 2021 - Annually complete inspections on federally constructed projects to ensure the NFS is in compliance with the articles of cooperation.

Sponsor: NA

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**US Army Corps
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Charleston District

Project Fact Sheet

Folly Beach, SC

Charleston County, SC

P2#: 113064

Congressional Districts: Nancy Mace (SC-01)

Appropriation: Construction
Phase: Construction
Business Line: Storm Damage Reduction

Authority: Section 501 (a), P.L. 99-662 and Section 108, P.L. 102-104

Location Description: Folly Beach is located about 12 miles south of Charleston, South Carolina on Folly Island. Folly Island is 6.1 miles in length, of which 5.34 miles are included in the Federal project.

Project Description: The plan of improvement provides for protection from a 5-year storm event over a total project reach of 5.34 miles. Periodic nourishment will be required approximately every eight years. A Corps Section 111 study established that 57% of the erosion/damage at Folly Beach resulted from the Federal navigation improvements at the Charleston Harbor jetties, therefore, it is classified as a navigation mitigation project. This resulted in cost sharing of 85% Federal and 15 % non-Federal instead of the usual 65% Federal and 35% non-Federal. The initial nourishment was completed in 1993 and the first periodic nourishment was completed in 2005. The third periodic nourishment commenced in February 2018 and was completed in March 2019 placing 1.4M CY of material at a cost of approximately \$18.0M.

Current Status: As of 14 April 2021- The Bipartisan Budget Act of 2018 provided funding for a feasibility study of Folly Beach to determine whether the existing authorized project is the most effective and efficient plan for providing coastal storm damage reduction benefits and resiliency along the Folly Beach shoreline. The feasibility study is 100% federally funded (\$3M) and will be completed by November 2021 (3 years). Due to the challenges of executing the District's normally recurring work and its supplemental work, we are leveraging the Corps' regional capabilities and expertise and the Wilmington District has given mission assignment for completion of this study. The study continues to progress on schedule and the draft report was released in November 2020. The Charleston District will maintain future construction of this crucial project and will assist the Wilmington District in completion of the feasibility study.

Sponsor: City of Folly Beach, SC

Project Manager (PM): Wes Wilson
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US Army Corps
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Charleston District

Project Fact Sheet

Myrtle Beach, SC

Horry & Georgetown Counties, SC

P2#: 113069

Congressional Districts: Tom Rice (SC-7)

Appropriation: Construction **Phase:** Construction **Business Line:** Storm Damage Reduction

Authority: Section 101, P.L. 101-640

Location Description: The project is located along the coast of Horry County, South Carolina, and a small portion of adjacent Georgetown County, South Carolina.

Project Description: The project reduces the risk of coastal storm-induced damages to people and property along the Grand Strand. Congress authorized the project in the Water Resources Development Act of 1990. Funding is cost-shared 65% Federal and 35% non-Federal. The project encompasses three separable reaches with different non-Federal sponsors for each reach. During the 50-year period of analysis, there are five 8-year or 10-year periodic nourishments depending on the reach. The timing and amount of material are dependent on the performance of the project versus the frequency and severity of the storms impacting the area. The original nourishment, constructed from 1996 to 1998, placed 6.4 million cubic yards of material at a cost of \$51.3 million over a total project reach of 25.4 miles. Due to coastal storms, the second periodic nourishment was predominately funded from Flood Control & Coastal Emergencies (FCCE) supplemental funding which did not require a cost share by local sponsors. This work was accomplished from June 2017 to July 2019 and placed 3.6 million cubic yards of material at a cost of \$77M.

Current Status: As of 14 April 2021 - The Myrtle Beach Coastal Alliance (North Myrtle Beach - Reach 1, City of Myrtle Beach - Reach 2, Horry County - Reach 3) provided a letter rescinding their request to re-evaluate the Myrtle Beach Coastal Storm Damage Reduction project. They have major concerns with the current issues on Folly Beach and other Corps coastal studies with the Beach-FX model and intervals between renourishment. The District realigned funding from the existing construction appropriation and remaining non-federal cost-share to evaluate if we can add dunes under the existing authorization through an engineering documentation report. The non-federal sponsors approved the realignment of funding and no additional federal funds will be required. The draft engineering documentation report is currently under development with an expected completion date by the end of FY21.

Sponsor: City of North Myrtle Beach, City of Myrtle Beach, and Horry County, SC

Project Manager (PM): Wes Wilson **PM Phone:** (843) 329-8054 **PM Email:** Wesley.B.Wilson@usace.army.mil



US Army Corps
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Charleston District

Project Fact Sheet

Edisto Island, SC

Colleton County, SC

P2#: 113475

Congressional Districts: Nancy Mace (SC-01)

Appropriation:

Construction

Phase:

Business Line:

Storm Damage Reduction

Authority: P.L 114-322 Section 1401

Location Description: Edisto Island is a barrier island approximately 4.5 miles in length and located approximately 45 miles southwest of Charleston, South Carolina.

Project Description: There are significant problems affecting buildings and infrastructure on Edisto Beach. Homes and businesses are perilously close to structural failure as a result of erosion caused by coastal storms, particularly hurricanes and northeasters. State Highway 174 is the only evacuation route off the island and has been subject to overwash and flooding. If allowed to continue unabated, erosion will continue to threaten other infrastructure such as water and electrical systems. With these problems, there are opportunities to reduce risks to buildings and infrastructure from storms, protect the islands only emergency evacuation route, and to preserve long-term sea turtle nesting and shorebird habitat. The Chief's Report was signed on September 5, 2014.

The recommended plan includes construction of new dune and berm features, and lengthening of existing groins along 4.5 miles of beach. The recommended plan is the National Economic Development (NED) plan. The plan provides for coastal storm damage reduction of buildings and other infrastructure; protects the only evacuation route; protects important sea turtle and shorebird habitat; preserves existing recreational opportunities; and has the full support of the local sponsor and stakeholder agencies.

Current Status: As of 22 April 2021- In 2017, the Town of Edisto Beach independently funded partial beach nourishment and repair and lengthening of the groins, as described by the authorized project. The Town has also requested the removal of two of the inlet reaches. The project delivery team is assessing the proposed changes through a validation study. Additionally, the Town is seeking approval of a non-standard estate for real estate acquisition, and is seeking legislative assistance to obtain retroactive work in kind credit for the 2017 work performed. Before a PPA for construction can be signed, the validation study must be approved, and the estate and WIK issues resolved.

Sponsor: Town of Edisto Beach

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US Army Corps
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Charleston District

Project Fact Sheet

Pawleys Island, SC

Georgetown County, SC

P2#: 113375

Congressional Districts: Tom Rice (SC-7)

Appropriation:	Phase:	Business Line:
Construction	Construction	Storm Damage Reduction

Authority: P.L. 110-114, Section 1001

Location Description: This hurricane and storm damage reduction project is located on Pawleys Island, which is a 3.5-mile long barrier island located approximately 22 miles southwest of Myrtle Beach and 13 miles northeast of Georgetown, South Carolina.

Project Description: The authorized Federal project consists of construction of a 6,800 foot long protective sand berm, with two 350 foot tapers (7,500 feet total) along the southern reach of the island to reduce storm damages. The project calls for periodic nourishment over a 50-year period. Periodic nourishment, accomplished via four 9-year renourishment intervals and one 5-year renourishment interval, would optimize net benefits over the 50-year period of analysis. The estimated volume of fill for initial project construction is 666,400 cubic yards. The construction period is estimated to be two months. The Chief's Report was approved on December 19, 2006.

Current Status: As of 20 November 2020 - Pawleys Island was damaged by Hurricane Irma and other declared disaster events from 2014-2017. Therefore, the Pawleys Island federal project was selected for funding from the Bipartisan Budget Act (BBA) 2018 Appropriations Bill in order to construct the project. The Town of Pawleys Island decided, following several delays since project authorization, to construct some portion of the federal project themselves. The Project Partnership Agreement was executed 16 January 2020. Non-Federal Sponsor is acquiring remaining easements for approval to complete Real Estate certification so the construction can begin on the Federal portion of the Project.

Sponsor: Town of Pawleys Island

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**US Army Corps
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Charleston District

Project Fact Sheet

Charleston Harbor, SC

Charleston County, SC

P2#: 476887

Congressional Districts: Nancy Mace (SC-01)

Appropriation:	Phase:	Business Line:
Operation & Maintenance	NA	Navigation

Authority: Multiple River & Harbor Acts, Beginning 1878, Latest Sec 101 WRDA 96 (P.L. 104-303)

Location Description: Charleston Harbor is located on the coast of South Carolina about 15 miles south of the midpoint of the coastline. Charleston Harbor supports a vital mission in the defense of our nation and is one of the nation's 17 strategic ports. It is the 4th busiest container port on the East coast.

Project Description: This project consists of maintenance of 38.6 miles of channel, three turning basins, and one anchorage basin. The lower harbor requires dredging every year, the entrance channel every other year, and the upper harbor approximately every 15 - 18 months.

Current Status: As of 26 April 2021 - The District continues to identify operation and maintenance dredging requirements in conjunction with the on-going deepening project. The District has reevaluated the disposal fees we charge our 3rd party users and anticipate an increase from .51 per CY to \$2.00 per CY. This is due to an increase in cost of maintaining the Clouter Creek disposal areas. In addition, 3rd party users will have capacity restrictions in Clouter Creek due the Post 45 deepening project. It is anticipated the capacity restriction will limit the amount of material private users can place into Clouter Creek for FY21 and FY22. It is expected that regional prioritization of limited O&M funds will prevent funding of mosquito abatement activities for the foreseeable future.

Sponsor: South Carolina State Ports Authority

Project Manager (PM):	PM Phone:	PM Email:
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US Army Corps
of Engineers
Charleston District

Project Fact Sheet

Atlantic Intracoastal Waterway, SC

Entire East Coast of SC

P2#: 476894

Congressional Districts: Nancy Mace (SC-01) Tom Rice (SC-7)

Appropriation: Operation & Maintenance
Phase: NA
Business Line: Navigation

Authority: Multiple River and Harbor Acts, Beginning 1890, Latest RHA of 1945 (P.L. 14)

Location Description: The Atlantic Intracoastal Waterway, a protected navigation route that generally parallels the Atlantic coast between Norfolk, VA, and the St. John's River in Florida.

Project Description: The AIWW was constructed in the early 1940's and South Carolina's portion runs a distance of 210 miles and has an authorized depth of 12 feet. Charleston District maintains approximately 90 small to medium-sized disposal areas along the AIWW totaling 2,399 acres. The AIWW is divided into 3 reaches in SC. In order to restore the AIWW to the authorized depth of 12 feet over a period of approximately 3 years, the estimated annual appropriation needed is \$6.0 million. Once we have reached the authorized depth, the estimated annual appropriation needed to maintain the AIWW in SC is approximately \$4.5 million.

Current Status: As of 16 April 2021 - The District received \$285k in the FY20 Presidents Budget and \$3.5M in the FY20 Work Plan. Funding received from FY19 Presidents Budget, FY19 Work Plan, and FY20 Work Plan were used to award a \$7.8M dike raising contract on the AIWW between Charleston and Port Royal. The District received \$100k in the FY21 Presidents Budget and are being used to support annual project maintenance.

Sponsor: NA

Project Manager (PM): Jeremy Johnson
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**US Army Corps
of Engineers**
Charleston District

Project Fact Sheet

Cooper River, Charleston Harbor, SC

Berkeley and Charleston Counties, SC

P2#: 476967

Congressional Districts: Nancy Mace (SC-01) James Clyburn (SC-6)

Appropriation: Operation & Maintenance
Phase: NA
Business Line: Navigation

Authority: Section 101, P.L. 90-483 modified by P.L. 102-104 and further modified by Section 353, P.L. 104-303

Location Description: The project is located in Charleston and Berkeley Counties. All operations and maintenance are in Berkeley County (St. Stephen, SC) about 45 miles north of Charleston, SC.

Project Description: The Cooper River Rediversion Project includes operation and maintenance of the St. Stephen Power Plant and associated structures and facilities in accordance with our agreement with the South Carolina Public Service Authority (Santee Cooper). The Project diverts most of the Santee River waters above Pinopolis Dam back into the lower Santee River. Annually, the hydro generating units produce an average of 160,000 MWh of electricity from the diverted Santee River waters. Also included in the project authorization was the design and construction of a fishlift. Since the fishlift opened in 1987, the structure has passed about 10 million herring, 7 million shad, and tens of thousands of other types of fish.

The Project was authorized, constructed and is operated in order to reduce siltation in the Charleston Harbor. Prior to rediversion, costs for the operation and maintenance of the Charleston Harbor were threatening the continued viability of the port. The Project has reduced sedimentation rates in Charleston Harbor from 10 million cubic yards to 2 million cubic yards annually, resulting in a savings of \$36 million per year in annual dredging costs.

Current Status: As of 19 April 2021- Funds are being used to operate the power plant, perform power plant maintenance and perform maintenance of non-recreational buildings, grounds, utilities and the fish lift.

Routine Operation and Maintenance: \$3.9M to maintain and operate the power plant and fish lift, to manage natural resources, to perform condition and operational studies/activities and to comply with water quality, State and Federal environmental and reliability regulations. Impacts of not funding: Increased shoaling in Charleston Harbor which is downstream of the Project and impacts to effectively passing fish through the fish lift for the upcoming spawning season.

Non-Routine Maintenance funds have not been allocated.

Sponsor: NA

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US Army Corps
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Charleston District

Project Fact Sheet

Project Condition Surveys, SC

P2#: 476957

Congressional Districts: Nancy Mace (SC-01) Tom Rice (SC-7)

Appropriation: Operation & Maintenance
Phase: NA
Business Line: Navigation

Authority: Section 7, Rivers and Harbors Act of 1899

Location Multiple
Description:

Project Description: Perform condition surveys of existing navigation channels to determine the depth so we can provide channel conditions to waterway users.

Current Status: As of 22 April 2021 - Funds are being utilized to perform surveys on navigation projects which were not funded for operations and maintenance in the President's budget. Thus far in FY21, these funds have been used to assess conditions of 14 channels along the South Carolina coast. Hydrographic maps of these conditions surveys are provided to the public (<https://www.sac.usace.army.mil/Missions/Navigation/Hydrographic-Maps/>)

Sponsor: NA

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**US Army Corps
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Charleston District

Project Fact Sheet

Town Creek, SC

Charleston County, SC

P2#: 111495

Congressional Districts: Nancy Mace (SC-01)

Appropriation: Operation & Maintenance
Phase: NA
Business Line: Navigation

Authority: Section 107, P.L. 86-645

Location Description: Town Creek is located one mile southwest of McClellanville, SC. The Town of McClellanville, located on Jeremy Creek, is home port to a large fleet of shrimp boats. Today, the principal economic activity is commercial fishing.

Project Description: The project provides an inner channel ten feet deep by 80 feet wide from the AIWW to the mouth of Five Fathom Creek, a distance of 6.2 miles and also includes an entrance channel twelve feet deep by 100 feet wide across the ocean bar, a distance of 4.0 miles. This channel provides access to the open ocean for 30 - 35 commercial shrimp vessels that operate out of the area. The Entrance channel was last dredged in June 2016.

Current Status: As of 16 April 2021 - There are no funds in the FY21 Presidents Budget.

Sponsor: Town of McClellanville

Project Manager (PM): Jeremy Johnson
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US Army Corps
of Engineers
Charleston District

Project Fact Sheet

Georgetown Harbor, SC

Georgetown County, SC

P2#: 111484

Congressional Districts: Tom Rice (SC-7)

Appropriation:	Phase:	Business Line:
Operation & Maintenance	NA	Navigation

Authority: Multiple River and Harbor Acts. Beginning 1886, Latest RHA of 1948 (P.L. 858)

Location Description: The project is located on the coast of South Carolina at the entrance of Winyah Bay.

Project Description: Consists of maintenance of 19 miles of channel and one turning basin and includes three disposal areas for a total of 550 acres. The Port of Georgetown is largely a break-bulk facility - the shipping of goods that won't economically or physically fit in standard 20-foot-long containers, such as coal or cement. Sampit River and Upper Winyah Bay require dredging yearly and the entrance channel every other year. The three upland disposal areas used for this project require ongoing annual maintenance and periodic dike raising. The estimated annual appropriations needed are approximately \$5M - \$6M per year. The inside channel was last dredged in August 2008. The entrance channel was last dredged in February 2006.

Current Status: As of 16 April 2021 - Georgetown County has communicated to the District that it is examining alternative uses for the sales tax revenue it intended to contribute to the project depth recovery effort. The County and District have had preliminary discussions about the County contributing these funds for maintenance dredging of the bypass channel that services the Historic Downtown Georgetown Harborwalk area. Ultimately, the choice of whether to proceed with contributed funds is up to the County and the District will support them if requested.

Sponsor: South Carolina State Ports Authority

Project Manager (PM):	PM Phone:	PM Email:
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**US Army Corps
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Charleston District

Project Fact Sheet

Murrells Inlet, SC

Georgetown County, SC

P2#: 111488

Congressional Districts: Tom Rice (SC-7)

Appropriation: Operation & Maintenance **Phase:** NA **Business Line:** Navigation

Authority: P.L. 89-298

Location Description: The project is located on the coast of South Carolina, in Georgetown County, about 13 miles southwest of the City of Myrtle Beach, SC.

Project Description: The project consists of maintenance of 0.6 miles of entrance channel, 3 miles of inner channel, one turning basin, one deposition basin, and two stone jetties. In 2017, non-federal funding and a contributed funds agreement were used to place dredged sand from the channel on portions of Garden City beach.

Current Status: As of 16 April 2021 - We have had several reports about beach erosion caused by the Murrells Inlet north jetty at high tide. Several team members inspected the area and determined there does not appear to be beach erosion caused by the North Jetty being underwater at high tide. The Murrells Inlet north jetty has a low weir function that is designed to be overtopped at high tide. The District met with Georgetown County to discuss this issue and provided options of studying the erosion issue or for the County to apply for a permit to build additional groins on Garden City Beach. The County has initially decided to apply for a permit to add groins and perform periodic nourishments adjacent to the north jetty system. The District will continue to provide support if requested.

Sponsor: Georgetown County

Project Manager (PM): Jeremy Johnson **PM Phone:** (843) 329-8132 **PM Email:** Jeremy.J.Johnson@usace.army.mil



US Army Corps
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Charleston District

Project Fact Sheet

Folly River, SC

Charleston County, SC

P2#: 111483

Congressional Districts: Nancy Mace (SC-01)

Appropriation: Operation & Maintenance
Phase: NA
Business Line: Navigation

Authority: Section 107, P.L. 86-645

Location Description: The project begins in Folly River and Folly Creek north of the Town of Folly Beach and follows a southwesterly course through Stono Inlet into the Atlantic Ocean.

Project Description: This project is for maintenance of 7.0 miles of channel. This channel provides access to the open ocean for commercial shrimp vessels that operate out of the area. The estimated annual appropriations needed is approximately \$500,000 except every other year when the inside channel needs to be dredged the requirement is approximately \$1,500,000. Because of meandering sandbars and no jetties this is a project that requires dredging annually in the entrance channel.

Current Status: As of 14 April 2021 - The project received \$1,500,000 in FY20 Corps work plan funds to dredge the Folly River Entrance Channel. This beneficial use project will place 60,000 cubic yards from the Folly River Entrance Channel in the nearshore area of the Folly Beach Shore Protection Project. We will use the Corps hopper dredge Murden to execute the construction of this project in April 2021. Additional environmental compliance needs to be completed prior to the dredging.

Sponsor: City of Folly Beach

Project Manager (PM): Wes Wilson
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US Army Corps
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Charleston District

Project Fact Sheet

CAP 206 - Horry County Crabtree Swamp

Horry County

P2#: 457355

Congressional Districts: Tom Rice (SC-7)

Appropriation: Construction - Continuing Authority
Phase: Feasibility
Business Line: Environmental Restoration

Authority:

Location Description: Crabtree Swamp, City of Conway, Horry County, SC.

Project Description: Horry County had initially expressed interest in restoring Crabtree Swamp and the adjacent flood plain to a more natural condition. Over the years, channelization and surrounding development have negatively impacted the watershed and its adjacent flood plain. The Corps completed a federal interest determination which recommended that the project move forward to the feasibility phase based on the anticipated quantity of ecosystem restored relative to costs, which is both favorable and in the federal interest. This study will be accomplished under CAP 206 Aquatic Ecosystem Restoration authority.

Current Status: As of 22 April 2021 - Feasibility cost share agreement was signed with Horry County April 2019. The Project Delivery Team consulted experts within USACE and other state and federal agencies to identify the most beneficial restoration measures for Crabtree Swamp. The team evaluated measures considering cost, environmental benefit, hydrologic impacts, and real estate needs. The draft feasibility report was completed in October 2020, and underwent review at the District and Agency levels. The final feasibility package was delivered to SAD in February 2021. The sponsor expressed that they cannot financially support Design and Implementation at this time. Policy review and financial project closeout should be completed by the end of May 2021.

Sponsor: Horry County

Project Manager (PM): Chrissa Waite
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US Army Corps
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Charleston District

Project Fact Sheet

Charleston Harbor Sec 204 CAP

Charleston, SC

P2#: 450947

Congressional Districts: Nancy Mace (SC-01)

Appropriation: Construction - Continuing Authority
Phase: NA
Business Line: NA

Authority: Section 22, P.L. 93-251

Location Description: Charleston Harbor is located about midway along South Carolina's Atlantic coastline.

Project Description: The goal of the project is to place approximately 660,000 cubic yards of sandy material, dredged from the Lower Harbor as part of the Post 45 deepening on the remnants of Crab Bank in order to create approximately 28 acres of Brown Pelican nesting habitat. The actual cost of the work has decreased from the estimated \$3.98 million to approximately \$377,000.

Current Status: As of 19 Apr 2021 - The Charleston District received approval from SAD of the Feasibility Report in May 2018 and the Project Partnership Agreement for the design and construction was executed in July 2018. The District, SCDNR, Town of Mt. Pleasant, and other stakeholders have worked collaboratively to make revisions to the design that maintain the bird nesting habitat quality and quantity, do not increase costs, and address concerns of some stakeholders. Sufficient Federal and non-Federal funds are available, material will be placed on Crab Bank during Fall of 2021 as part of Post 45 Contract 3.

Sponsor: South Carolina Department of Natural Resources

Project Manager (PM): Jeff Livasy
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US Army Corps
of Engineers
Charleston District

Project Fact Sheet

PAS - Turkey Creek, Hanahan

Charleston County, SC

P2#: 473242

Congressional Districts: Nancy Mace (SC-01)

Appropriation:
Investigations

Phase:
NA

Business Line:
Watershed Planning

Authority: Section 22, P.L. 93-251

Location Description: The Turkey Creek watershed is located in the southern coastal plains region of South Carolina within the cities of Hanahan and North Charleston and overlaps in Berkeley and Charleston counties. The Turkey Creek watershed discharges downstream of the Goose Creek Reservoir into Goose Creek, which in turn is tributary to the Cooper River. Turkey Creek has a drainage area of about 4 square miles and consists of combination of channelized, relocated and meandering tidal creeks. The watershed is located in a moderately urbanized area consisting primarily of single family residential dwellings in the lower reaches and mobile homes and commercial establishments in the upper portion of the watershed. Flooding has impacted roughly 50 homes with damages to both structure and contents over the last 3-5 years.

Project Description: The study investigates sources of flooding within the Turkey Creek watershed to determine whether flooding is primarily caused by tide or surface water runoff during rain events. The project delivery team will suggest, at a conceptual level, both structural and/or non-structural solutions to reduce flooding impacts. The City of Hanahan can use this information to determine a plan for addressing flooding concerns and potential future studies.

Current Status: As of 22 April 2021 - A PAS agreement was executed April 20, 2018. A final Phase 1 report was delivered to the City of Hanahan in April 2020, including hydrologic and hydraulic modeling results, and a series of structural and non-structural measures that warranted further exploration. In January 2021, SAC was able to present at an in-person Town Council meeting to share final report results. The sponsor is working at the local level to address some of the flooding problems identified in the Phase 1 report, and will contact SAC should they be interested in a Phase 2 study. The Phase 1 project is complete, and will be financially closed out.

Sponsor: City of Hanahan

Project Manager (PM):
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US Army Corps
of Engineers
Charleston District

Project Fact Sheet

PAS - Water Use and Demand Study

South Carolina

P2#: 457159

Congressional Districts: Nancy Mace (SC-01)

Appropriation:	Phase:	Business Line:
Investigations	NA	NA

Authority: Section 22, P.L. 93-251

Location Description: Watersheds in the State of South Carolina

Project Description: Water use and demand forecasts for the next 50 years will be an integral part of formulating comprehensive water policy and updating the State Water Plan. An agreement dated May 25, 2016 established a partnership between the Corps, USGS, and SC DNR for a comprehensive water use and demand study for the Savannah River water basin. The follow-on study, agreement dated May 23, 2018, entails developing an overall scope, focusing on stakeholder input, to complete an update to the State Water Plan and will also continue the partnership with USGS to develop groundwater modeling for the State.

Current Status: As of 22 April 2021 - The non-federal sponsor, South Carolina Department of Natural Resources (SCDNR) has led the effort to convene stakeholders in developing methods for water use forecasting, which will aid the state in anticipating water use needs in coming years. SCDNR has teamed with Clemson University and USGS to perform modeling. USACE has provided assistance with workshop planning, stakeholder engagement and technical review of water forecasting methodologies. The final phase of the project, piloting water use projections in the Edisto River basin, was completed in 2020. This PAS project is complete, and will be financially closed out. The SCDNR is communicating with SAC regarding potential future PAS projects to continue planning in additional basins.

Sponsor: South Carolina Department of Natural Resources

Project Manager (PM):	PM Phone:	PM Email:
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**US Army Corps
of Engineers**
Charleston District

Project Fact Sheet

FUDS - Donaldson AFB, SC

Greenville County, SC

P2#: 147998

Congressional Districts: William Timmons (SC-4)

Appropriation:	Phase:	Business Line:
Formerly Used Defense Sites	Various	NA

Authority: Sec 211, Superfund Amendments and Reauthorization Act of 1986

Location Description: The Former Donaldson Air Force Base is located in Greenville, South Carolina at the current Donaldson Industrial Center. The site was used as an operational air base from 1942 until January 24, 1964. After WWII, the base was closed and later reopened as the Global Headquarters of the Military Air Transport Command (MATC) and renamed Donaldson Air Force Base in 1951. The property was transferred to the City and County of Greenville, South Carolina in 1964. It is currently owned 50/50 by the city and county, with some private industrial ownership of the peripheral areas.

Project Description: The property contains many Areas of Concern, sites and sub-sites that are actively being addressed, including landfills, aircraft wash sites, underground storage tanks and fuel fields.

Current Status: A Remedial Action (RA) contract was awarded in September 2014 and consists of adding soil to the landfill cover and groundwater monitoring. The RA was initiated in February 2016 with the abandonment and sampling of several monitoring wells. Field work associated with the landfill cover was completed in July 2019. An additional project (06) deals with a former disposal area where metals and hydrocarbons have been detected. USACE is currently conducting additional field work to address SC DHEC concerns and anticipates completing the Remedial Investigation (RI) report in FY20. Subsequent phases (Feasibility Study, Proposed Plan, Decision Document) will be conducted upon completion of the RI report. A contract was awarded in FY19 to conduct a corrective action for several underground storage tanks (UST) sites. Long term monitoring (LTM) is currently being conducted for several other UST sites. FUDS Program Management for this region (GA, SC and NC) is supported through Savannah District. Support to specific FUDS projects in SC is currently supported through Wilmington District.

Project 03: USACE is currently preparing a five year review report (FYR) for Project 03 (landfill cover completed in July 2019). The FYR is required by CERCLA when hazardous substances are left at a site which preclude unrestricted use of the site and evaluates whether the remedial action implemented is still protective of human health. The FYR is anticipated to be completed in May 2021.

Project 06: USACE will submit a revised Draft Final Remedial Investigation (RI) report to SC DHEC on 4 April 2021. The Draft Final Report recommends no further action based on evaluation of the RI data.

Project 08: Contractor is planning for field work in the summer 2021 to conduct the corrective action (subsurface injection and soil excavation) to address contamination associated with former underground storage tanks (USTs).

Sponsor: NA

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**US Army Corps
of Engineers**
Charleston District

Project Fact Sheet

FUDS - Conway Bombing and Gunnery Range, SC

Horry County, SC

P2#: 148049

Congressional Districts: Tom Rice (SC-7)

Appropriation: Formerly Used Defense Sites
Phase: Investigation/Feasib
Business Line: NA

Authority: Sec 211, Superfund Amendments and Reauthorization Act of 1986

Location Description: The former Conway Bombing & Gunnery Range (BGR) is located near the City of Conway, SC in Horry County. This 55,854 acre site was used by the Army Air Corps and Air Force for air-to-ground gunnery and bombing training during World War II. Conway BGR contained Ranges II, III, VI, VII, X, a moving target range, a turret range, a machine gun range and a rifle range.

Project Description: The former Conway BGR was utilized for training beginning in 1942. Conway BGR was declared surplus by February 1948. Existing leases for approximately 36,600 acres were terminated and the remaining 19,200 acres were sold. Several of these target ranges are identified to either contain ordnance related items or to have a high likelihood of ordnance related items. This area is rapidly developing and many developers and landowners have initiated and/or completed clean-up actions on their own initiative.

Current Status: Remedial Investigation (RI) field work began in August 2015 and was completed in May 2016. The Feasibility Study (FS) is anticipated to be completed in FY20 and the Decision Documents FY21. The Remedial Action (RA), which includes Land Use Controls (LUCs) consisting of an educational awareness program (installation of UXO information signs and an information kiosk), was implemented in March 2018 for Range VII. FUDS Program Management for this region (GA, SC and NC) is supported through Savannah District. Support to specific FUDS projects in SC is currently supported through Wilmington District.

Projects 01, 03, 05, and 07: USACE is currently revising cost estimates associated with the FS to more accurately reflect the costs associated with the use of advanced geophysical classification (innovative remedial technology). The tentative schedule is to complete the FS in FY21 and the Decision Documents in FY22.

Project 04: Remedial action (RA) was completed in FY18 and the project is in long term maintenance (LTM). The RA is public education and a FYR will be conducted for this project in FY23.

Sponsor: NA

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**US Army Corps
of Engineers**
Charleston District

Project Fact Sheet

FUDS - Camp Croft, SC

Spartanburg County, SC

P2#: 157097

Congressional Districts: William Timmons (SC-4)

Appropriation:	Phase:	Business Line:
Formerly Used Defense Sites	Investigation	NA

Authority: Sec 211, Superfund Amendments and Reauthorization Act of 1986

Location Description: The Former Camp Croft army training facility consisted of approximately 19,000 acres and is located approximately 5 miles southeast of Spartanburg, SC.

Project Description: This project consists of a formerly-used World War II Army Infantry Replacement Training Center, which consisted of two general areas: a series of firing ranges and a troop housing area with attached administrative headquarters. The current land usage is 7,088 acres for Camp Croft State Park, 4,936 acres for farming, 256 acres for private industry and 6,764 acres for residential development. Thirty-four (34) live ordnance items and 722 pounds of ordnance scrap were removed in the Ordnance Operable Unit 3 (OOU3) area.

Since 1995, more than \$15 million has been appropriated for the evaluation and restoration of the former Camp Croft site. A Restoration Advisory Board (RAB) was established in 1995 and currently meets quarterly. An Engineering Evaluation/Cost Analysis (EE/CA) was completed in January 1996, identifying 9 OOU's, and a second EE/CA was completed in January 1998 which identified 19 additional sectors.

Current Status: The remedial investigation (RI) field work was completed in March 2015. The Remedial Investigation (RI) report was finalized in October 2014. The Feasibility Study (FS) was finalized in October 2015. The proposed plan was presented at a public meeting in March 2016. The Decision Documents (DD) for Projects 03 and 05 were approved in January 2019 and September 2018 respectively. The DD for Project 07 was approved in September 2019. The remaining DD are anticipated to be approved by the end of FY20. A contract was awarded in March 2020 to implement the remedy for Project 03 and 05 (Public Education). The remedy is anticipated to be implemented in FY20 and a contract is planned to be awarded in FY20 to implement the remedial action for Project 07. The remedy to be implemented for Project 07 is Surface and Subsurface Munitions Removal and Land Use Controls. FUDS Program Management for this region (GA, SC and NC) is supported through Savannah District. Support to specific FUDS projects in SC is currently supported through Wilmington District.

Projects 03 and 05: The RA was completed in FY20. The RA is public education and a FYR will be conducted for this project in FY25.

Project 07: The RA is "Surface and Subsurface Munitions Removal and Land Use Controls" and is currently being implemented. The RA is tentatively scheduled to be completed in FY24.

The DD for Projects 06, 08, 09, 10, 11, and 12 have been approved.

Sponsor: NA

Project Manager (PM):	PM Phone:	PM Email:
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US Army Corps
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Charleston District

Project Fact Sheet

FUDS - Stark General Hospital

Charleston, SC

P2#: 405349

Congressional Districts: Nancy Mace (SC-01)

Appropriation:	Phase:	Business Line:
FUDS	NA	NA

Authority:

Location Description: The former Stark Army Hospital was located in North Charleston, South Carolina, approximately 6.25 miles northwest of Charleston, SC.

Project Description: This Stark Army Hospital was an active hospital and rehabilitation center during World War II. The installation was operational from 1941 until 1945. In October 1945, the installation was turned over to the Charleston County Board of Control for local use. The area adjacent to buildings T-615N and T-615S is now utilized by commercial and industrial development. The site is located on the north shore of the Ashley River. In 1995, two heating oil underground storage tanks (USTs) 615N and 615S were removed from the site. An investigation found no petroleum hydrocarbons in the groundwater exceeding regulatory levels. However, the presence of chlorinated volatile organic compounds (trichloroethylene - TCE) was identified above screening levels.

Current Status: The Remedial Investigation (RI) field work was completed in March 2015. USACE is conducting additional field work for the RI to address comments from SCDHEC on the RI report. USACE anticipates the RI report will be completed in FY20. Subsequent phases (Feasibility Study, Proposed Plan, Decision Document) will be conducted upon completion of the RI report.

Project 02: USACE installed additional monitoring wells in January 2021 and conducted groundwater sampling events in January and March 2021. USACE will incorporate this additional data into the RI report and the tentative schedule for RI report submittal is September 2021. Subsequent phases will be conducted upon completion of the RI report.

Sponsor: NA

Project Manager (PM):	PM Phone:	PM Email:
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US Army Corps
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Charleston District

Project Fact Sheet

Lumber River, NC

NC

P2#: 488285

Congressional Districts: Dan Bishop (NC-9)

Appropriation:

Investigations

Phase:

Feasibility

Business Line:

Storm Damage Reduction

Authority: Senate Committee on Public Works Resolution adopted October 15, 1968; House Committee on Public Works Resolution adopted December 11, 1969

Location Description: The Lumber River Basin is a sub-basin of the Pee Dee River Basin. It begins in the Sandhills of North Carolina and extends southeast to the Coastal Plain before reaching the city of Wilmington and draining into the Atlantic Ocean. The Lumber River flows through Lumberton, NC and under Interstate 95. The river crosses the South Carolina border near Fair bluff, NC. Just past the border, the Lumber River joins the Little Pee Dee River which flows to the Pee Dee River and drains to Winyah Bay. The basin covers approximately 3,300 square miles. The basin encompasses all or part of 10 counties.

Project Description: The communities of the Lumberton and Fair Bluff, NC were severely impacted by record flooding from Hurricane Florence in September 2018. This flooding caused tremendous damage to residential and commercial buildings as well as flooding many roads, including the closure of a 60 mile stretch of Interstate 95. The State of North Carolina reported 42 fatalities due to Hurricane Matthew, this Feasibility Study will pursue flood damage reduction measures to reduce risks from future flooding.

Current Status: As of 19 April 2021 - The Feasibility Cost Sharing Agreement was signed with the State of North Carolina on 8 April 2020 for the Lumber River Basin Feasibility Study. This Feasibility Study will complete in 36 months with a budget of \$3 million dollars with the Tentatively Selected Plan Milestoneto be schedule for Mid- June 2021.

Sponsor: State of North Carolina - Department of Environmental Quality

Project Manager (PM):

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US Army Corps
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Charleston District

Project Fact Sheet

PAS - Planning Assistance To States Coordination

P2#: 114010

Congressional Districts: Nancy Mace (SC-01) Joe Wilson (SC-2) Jeff Duncan (SC-3)
William Timmons (SC-4) Ralph Norman (SC-5) James Clyburn (SC-6)

Appropriation: Investigations
Phase: Coordination
Business Line: Watershed Planning

Authority: Section 22, P.L. 93-251

Location NA
Description:

Project Description: This program permits us to use our technical planning expertise to supplement and support state and Indian tribe efforts to undertake broad, statewide, comprehensive water resources planning. PAS studies are cost shared 50% Federal and 50% local. The non-Federal share may be provided as cash or a mix of cash and in-kind services or 100% work in-kind. Typical problems and opportunities studies under this program are related to flood damage reduction, water supply, water conservation, water quality, hydropower, erosion, navigation, and related environmental resources.

Current Status: Coordination efforts are ongoing to manage the program.

Sponsor: NA

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US Army Corps
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Charleston District

Project Fact Sheet

FPMS - Flood Plain Management Program

P2#: 114026

Congressional Districts:	Nancy Mace (SC-01)	Joe Wilson (SC-2)	Jeff Duncan (SC-3)
	William Timmons (SC-4)	Ralph Norman (SC-5)	James Clyburn (SC-6)

Appropriation:	Phase:	Business Line:
Investigations	NA	NA

Authority: Section 206, P.L. 86-645

Location NA
Description:

Project Description: This program permits us to use our technical expertise in flood plain management to help others outside the Corps. Upon request, we will furnish states, counties, cities, Indian tribes, and certain Federal agencies with flood hazard information, technical services, and planning guidance without charge. The Program also conducts special studies to improve methods and procedures for flood damage prevention and abatement, and provides guides and pamphlets on topics such as flood proofing, flood plain regulations and other flood plain management topics. Assistance includes flood hazard evaluations, discharge, flood information.

Current Status: This program is not listed by individual state or project in the President's budget only by total program needs. Funds will be utilized to provide a broad range of information, technical assistance and planning guidance related to floodplain management for federal, state, local, private, non-profit interests. Information includes guides, pamphlets and supporting studies, Assistance includes flood hazard evaluations, discharge, flood information. FPMS funds are used to coordinate with customers for other studies, such as special studies or Hurricane Evacuation Studies.

Sponsor: NA

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US Army Corps
of Engineers

Charleston District

Project Fact Sheet

CAP - Continuing Authorities Program

P2#: CAP-0001

Congressional Districts: Nancy Mace (SC-01) Joe Wilson (SC-2) Jeff Duncan (SC-3)
William Timmons (SC-4) Ralph Norman (SC-5) James Clyburn (SC-6)

Appropriation: Construction - Continuing Authority **Phase:** NA **Business Line:** NA

Authority: Each section has its own authority.

Location Description: NA

Project Description: The Continuing Authorities Program (CAP) is a group of 10 legislative authorities under which the Secretary of the Army, acting through the Chief of Engineers, is authorized to plan, design and construct certain types of water resources and environmental improvements without specific Congressional Authorization.

The purpose of the CAP is to plan and implement projects of limited size, cost, scope, and complexity. Although there is no specific minimum project size or cost, very small projects are not pursued under CAP as they should be implemented by other Federal or non-Federal entities, and large or complex problems are pursued under the specifically authorized programs. This program is cost shared between the Federal Government and the non-federal sponsor.

Current Status: The Charleston District to meets with potential sponsors to determine federal interest for a variety of potential CAP projects.

Sponsor: NA

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