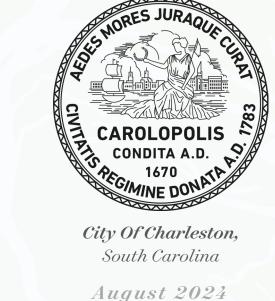
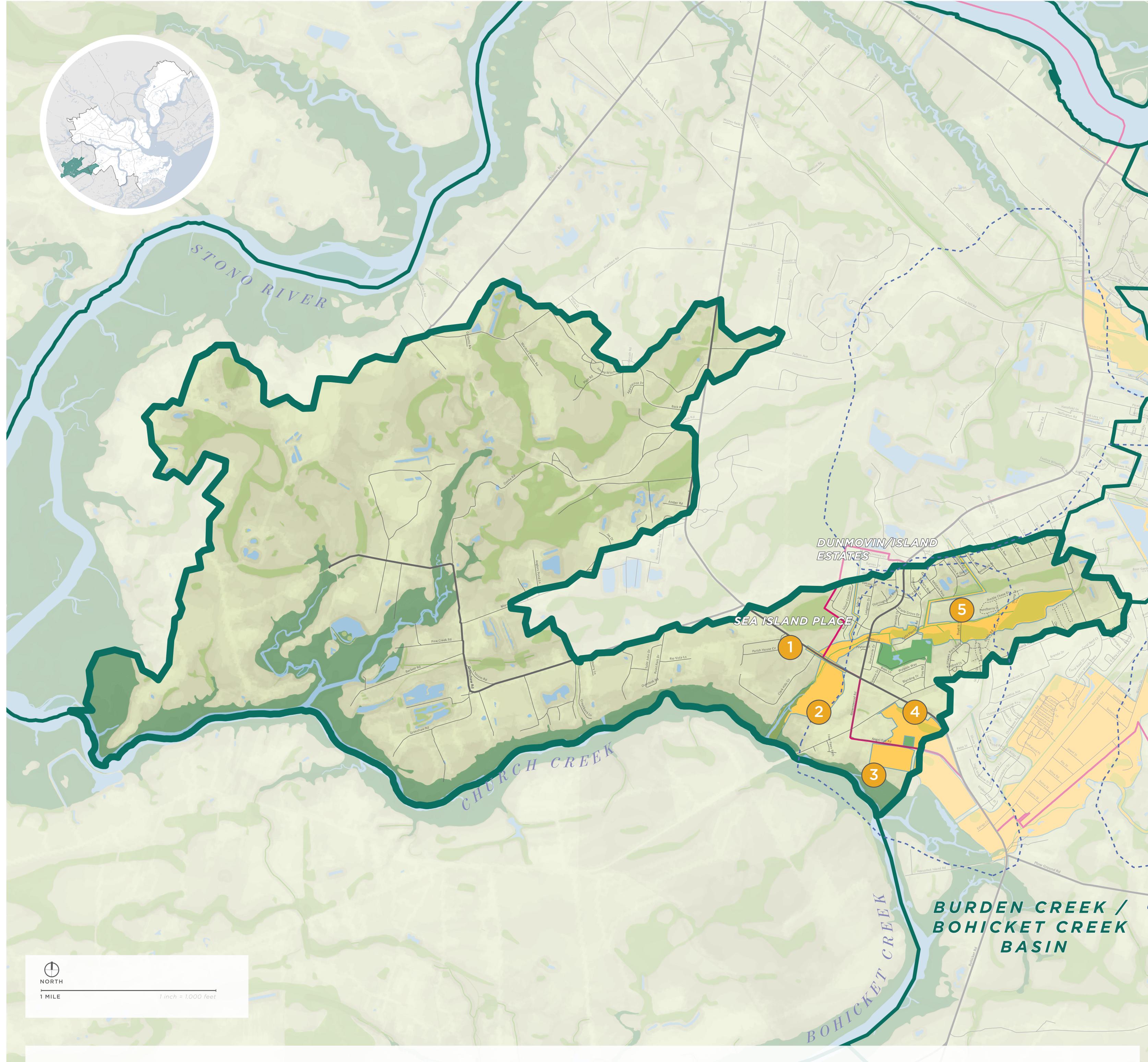
Church Creek Basin

717 Acres - Johns Island





BASIN OVERVIEW

Church Creek Basin is located on Johns Island and covers approximately 717 acres. Church Creek Basin is one of eight basins on Johns Island.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. Church Creek to the south defines this basin's edges.

The Urban Growth Boundary (UGB) is a line that surrounds the City of Charleston. Suburban or urban growth in rural areas outside of the UGB is discouraged. The eastern portion of Church Creek Basin is inside of the UGB.

The sea island landscape shapes development and flood risk on Johns Island. The ridge of high ground along Maybank holds this island's historic character and its safest land. The high ground throughout Johns Island creates an opportunity for appropriate development safe from surge and tidal flood risk. Land use and development practices should manage water in the upland and middle zones. Along the coastal edge, elevating key roads and facilitating marsh migration helps preserve both neighborhood access and critical habitat as sea levels rise. Attention to the island's important, contiguous tree canopy is a priority.

MAP FEATURES

TIDAL MARSH

WETLANDS

CITY PARKS

URBAN GROWTH BOUNDARY

WATER DRAINAGE BASINS

—— STREETS

AFRICAN AMERICAN SETTLEMENT
AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

IN DEVELOPMENT

IN PROGRESS

COMPLETED

PROJECTS

WATER PLAN

MAIN ROAD
Road Raising

2 CHURCHILL LANDING
Shoreline Adaptation

Shoreline Adaptation

BOHICKET ROAD

ANGEL OAK

Stormwater Park

SOUTHWICK DRIVE

5 SOUTHWICK DRIVE
Stormwater Improvements

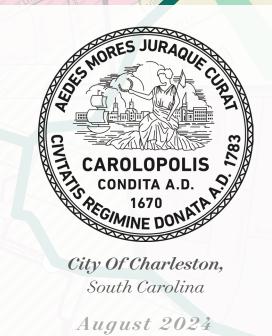
MAINTENANCE

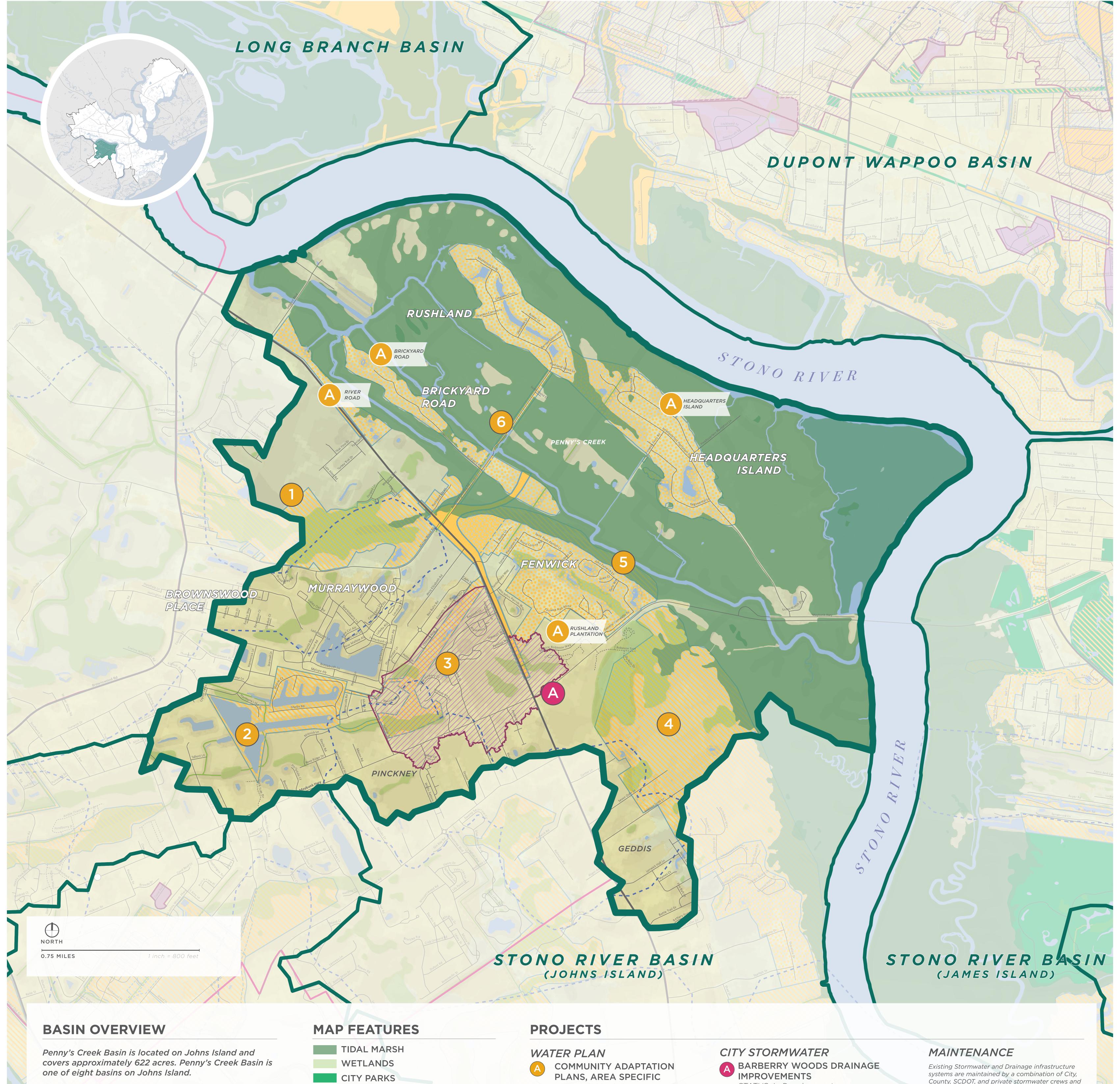
Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT, and private stormwater crews and subcontractors. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, poststorm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

Roadside ditch maintenance and canal maintenance are a critical part of a functioning drainage system for Johns Island. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch cleaning per year on city-owned streets. 46 unique rear ditch systems are hand-cleaned annually on Johns Island.

Penny's Creek Basin

622 Acres - Johns Island





A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. The Stono River to the north and east and high ground along Maybank Highway to the south define this basin's edges.

The sea island landscape shapes development and flood risk on Johns Island. The ridge of high ground along Maybank holds this island's historic character and its safest land. The high ground throughout Johns Island creates an opportunity for appropriate development safe from surge and tidal flood risk. Land use and development practices should manage water in the upland and middle zones. Along the coastal edge, elevating key roads and facilitating marsh migration helps preserve both neighborhood access and critical habitat as sea levels rise. Attention to the island's important, contiguous tree canopy is a priority.

Flood risk may change across basins and over time. While water risk is multifaceted, a primary flood risk driver in each basin orients policy, investment, & redevelopment strategies.

URBAN GROWTH BOUNDARY

WATER DRAINAGE BASINS - STREETS

, AFRICAN AMERICAN SETTLEMENT

-- AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS COMPLETED

IN PROGRESS

IN DEVELOPMENT

AREAS: Rushland Plantation, Headquarters Plantation, Brickyard Road,

MURRYWOOD Wetland Management & Conservation,

Stormwater Storage

FENWICK HILLS Stormwater Improvements

River Road

BARBERRY WOODS Stormwater Improvements

STONO SHORELINE Marsh Migration & Community

Adaptation Plan FENWICK SHORELINE Marsh Migration & Community

Adaptation Plan **RUSHLAND LANDING** Road Raising

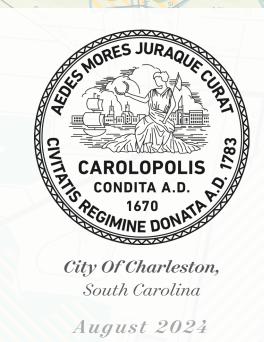
STATUS: In Development TOTAL COST: \$12,856,843 FUNDING SOURCE: State SOCR Grant

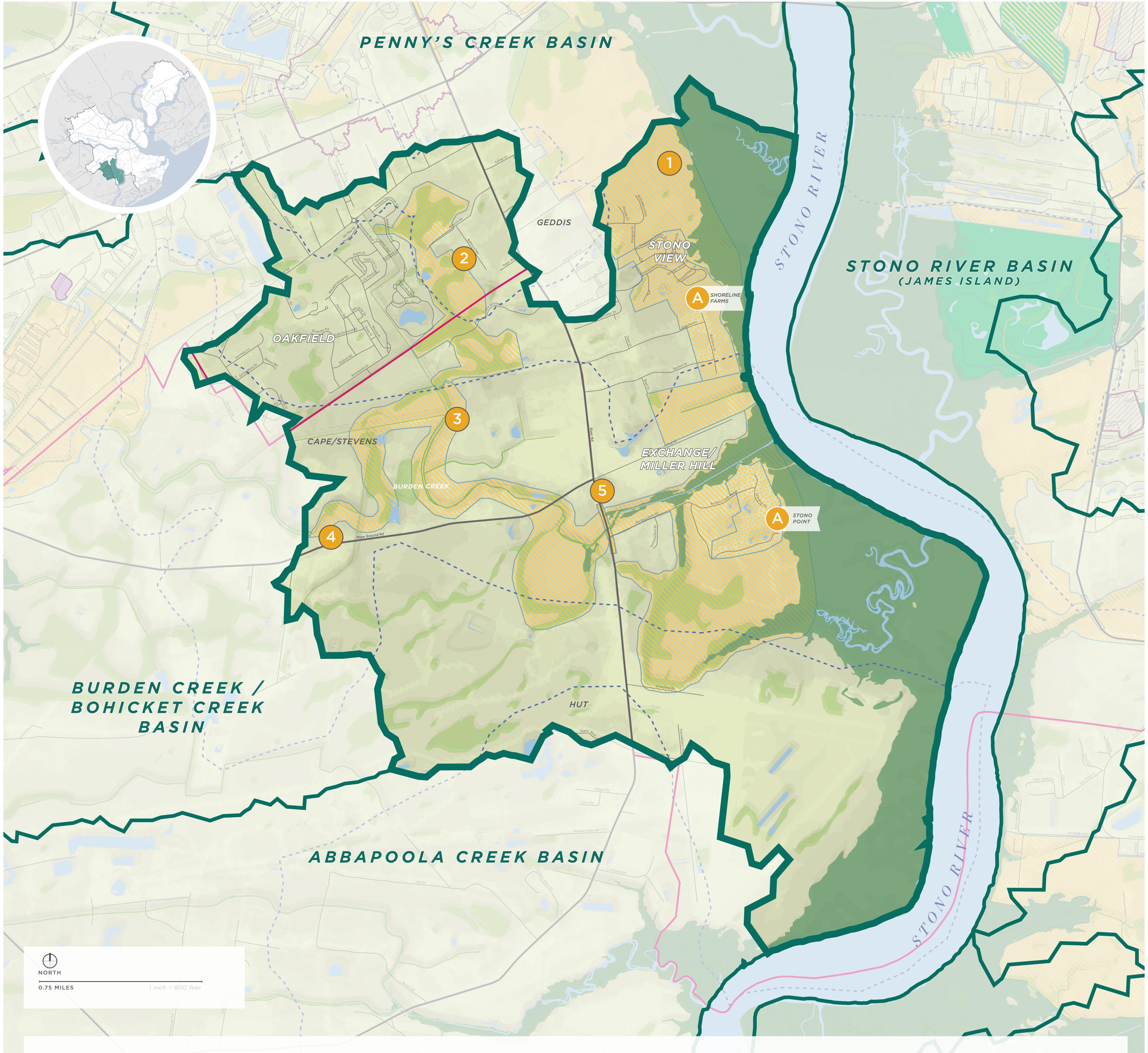
County, SCDOT, and private stormwater crews and subcontractors. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, poststorm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

Roadside ditch maintenance and canal maintenance are a critical part of a functioning drainage system for Johns Island. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch cleaning per year on cityowned streets. 46 unique rear ditch systems are hand-cleaned annually on Johns Island.

Stono River Basin

644 Acres - Johns Island





BASIN OVERVIEW

Stono River Basin (Johns Island) is located on Johns Island and covers approximately 644 acres. Stono River Basin is one of eight basins on Johns Island.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. The Stono River to the east defines this basin's edges.

The Urban Growth Boundary (UGB) is a line that surrounds the City of Charleston. Suburban or urban growth in rural areas outside of the UGB is discouraged. The eastern and northern portions of Stono River Basin are inside the UGB.

The sea island landscape shapes development and flood risk on Johns Island. The ridge of high ground along Maybank holds this island's historic character and its safest land. The high ground throughout Johns Island creates an opportunity for appropriate development safe from surge and tidal flood risk. Land use and development practices should manage water in the upland and middle zones. Along the coastal edge, elevating key roads and facilitating marsh migration helps preserve both neighborhood access and critical habitat as sea levels rise. Attention to the island's important, contiguous tree canopy is a priority.

MAP FEATURES

TIDAL MARSH

WETLANDS

CITY PARKS

URBAN GROWTH BOUNDARYWATER DRAINAGE BASINS

—— STREETS

AFRICAN AMERICAN SETTLEMENT
AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

COMPLETED

IN F

IN PROGRESS
IN DEVELOPMENT

PROJECTS

WATER PLAN

COMMUNITY ADAPTATION
PLANS, AREA SPECIFIC

AREAS: Shoreline Farms, Stono Point

1 STONO SHORELINE

Marsh Migration & Community

Adaptation Plan

TWIN LAKES - BURDEN CREEK HEADWATERS

Stormwater Improvements

BURDEN CREEK - EAST
Wetlands Management & Conservation,
Emergent Connection

4 CHURCH/BURDEN CREEK
Wetlands Management & Conservation,
Emergent Connection

RIVER ROAD
Road Raising

MAINTENANCE

Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT, and private stormwater crews and subcontractors. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, poststorm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

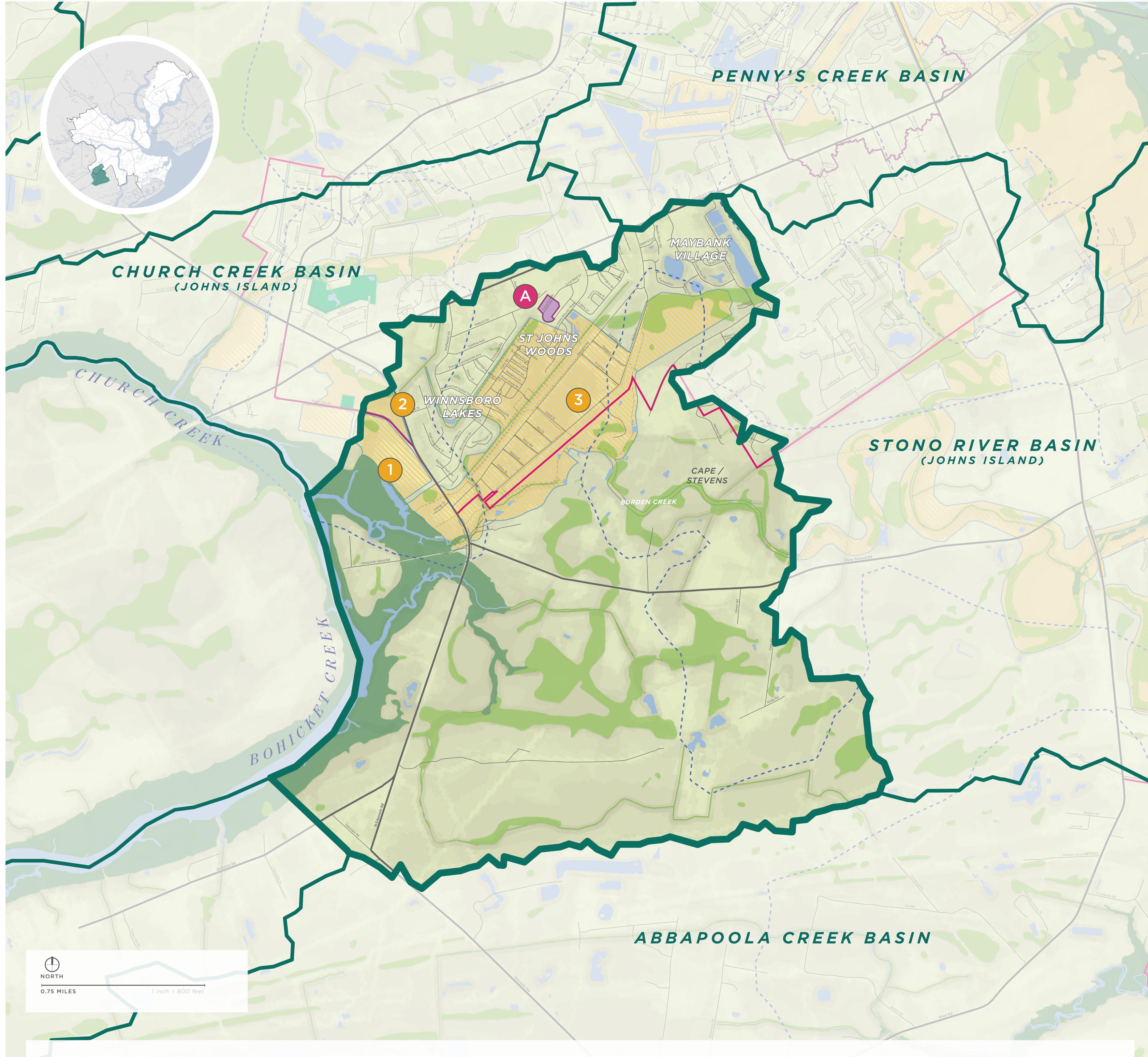
Roadside ditch maintenance and canal

maintenance are a critical part of a functioning drainage system for Johns Island. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch cleaning per year on cityowned streets. 46 unique rear ditch systems are hand-cleaned annually on Johns Island.

Burden Creek / Bohicket Creek Basin

477 Acres - Johns Island





BASIN OVERVIEW

Burden Creek / Bohicket Creek Basin is located on Johns Island and covers approximately 477 acres. Burden Creek / Bohicket Creek Basin is one of eight basins on Johns Island.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. Church Creek and Bohicket Creek to the west and high ground along Maybank Highway to the north define define this basin's edges.

The Urban Growth Boundary (UGB) is a line that surrounds the City of Charleston. Suburban or urban growth in rural areas outside of the UGB is discouraged. The northern portion of Burden Creek Basin is inside the UGB.

Burden Creek is a tidal waterway that historically flowed into both the Stono River and Church Creek / Bohicket Creek. Restoring the historic creek helps alleviate the drainage challenges in the surrounding neighborhood and pave way for future marsh migration. Attention to the island's important, contiguous tree canopy is a priority.

MAP FEATURES

TIDAL MARSH

WETLANDS

CITY PARKS

URBAN GROWTH BOUNDARYWATER DRAINAGE BASINS

—— STREETS

AFRICAN AMERICAN SETTLEMENT

WATER PLAN PROJECTS

FEATURED

-- AREA

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

IN DEVELOPMENT

COMPLETED

IN PROGRESS

PROJECTS

WATER PLAN

1 BOHICKET ROAD
Shoreline Adaptation

2 ANGEL OAK Stormwater Park

BURDEN CREEK - WEST Stormwater Park & Stormwater Improvements

CITY STORMWATER

Operations Fund

CORAL REEF DITCH PIPING
STATUS: Completed
TOTAL COST: \$63,000
FUNDING SOURCE: Stormwater

MAINTENANCE

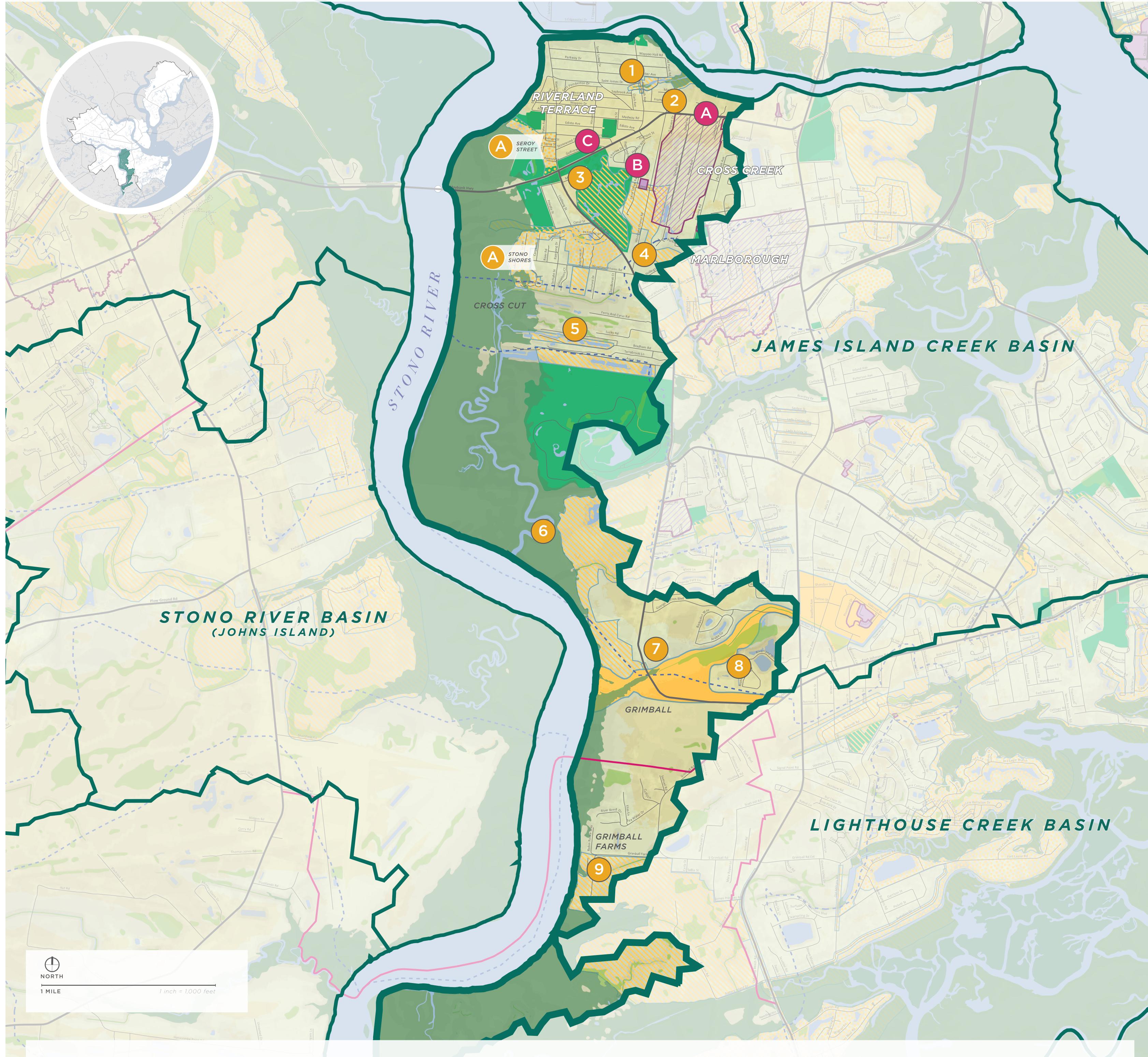
Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT, and private stormwater crews and subcontractors. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, poststorm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

Roadside ditch maintenance and canal maintenance are a critical part of a functioning drainage system for Johns Island. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch cleaning per year on cityowned streets. 46 unique rear ditch systems are hand-cleaned annually on Johns Island.

Stono River Basin

435 Acres - James Island





BASIN OVERVIEW

Stono River Basin (James Island) is located on James Island and covers approximately 435 acres. Stono River Basin is one of three basins on James Island.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. The Stono River to the west and Wappoo Creek to the north define this basin's edges.

James Island consists of two developing sea islands, divided by James Island Creek. These sea islands face sea level rise and storm surge along their coastal edges and constricted, multi-jurisdictional drainage systems in their interiors. Low-lying, interior neighborhoods with slab-on-grade homes often experience tidal and compound flooding. These islands have a significant need for residential adaptation and marsh mitigation plans, along with limited opportunities for appropriate growth along the high ridges.

Expanding both drainage capacity and governmental coordination will help alleviate rainfall flood risk in flat low-lying neighborhoods.

MAP FEATURES

TIDAL MARSH

WETLANDS

URBAN GROWTH BOUNDARY

WATER DRAINAGE BASINS

—— STREETS

AFRICAN AMERICAN SETTLEMENT

AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

COMPLETED

IN PROGRESS
IN DEVELOPMENT

PROJECTS

WATER PLAN

COMMUNITY ADAPTATION
PLANS, AREA SPECIFIC
AREAS: Seroy Street, Stono Shores

1 PLYMOUTH AVE
Road Raising

2 PLYMOUTH CREEK
Creek Restoration

3 CHARLESTON MUNICIPAL COURSE

Stormwater Park

WOODLAND SHORES
Emergent Creek Restoration &

Stormwater Storage

STONO SHORES

Stormwater Park

6 DILL TRACT
Marsh Migration

RIVERLAND DRIVE
Road Raising

8 WILLOW WALK
Stormwater Park & Stormwater

9 GRIMBALL ROAD
Community Adaptation Plan & Marsh
Migration

CITY STORMWATER

HOWLE AVE GREENBELT POND

STATUS: In Progress

TOTAL COST: \$1,600,000

FUNDING SOURCE: Greenbelt, NFWF

Grant, Stormwater Operation Budget

B PAWPAW ST DRAINAGE IMPROVEMENT

STATUS: Completed TOTAL COST: \$10,000 FUNDING SOURCE: Stormwater Operations Budget

CHARLESTON MUNICIPAL COURSE STORMWATER STORAGE

STATUS: Completed FUNDING SOURCE: County, Stormwater Operations Budget

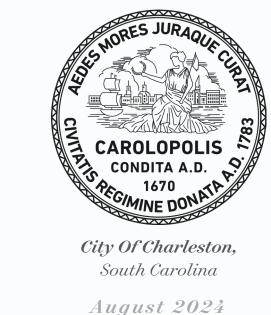
MAINTENANCE

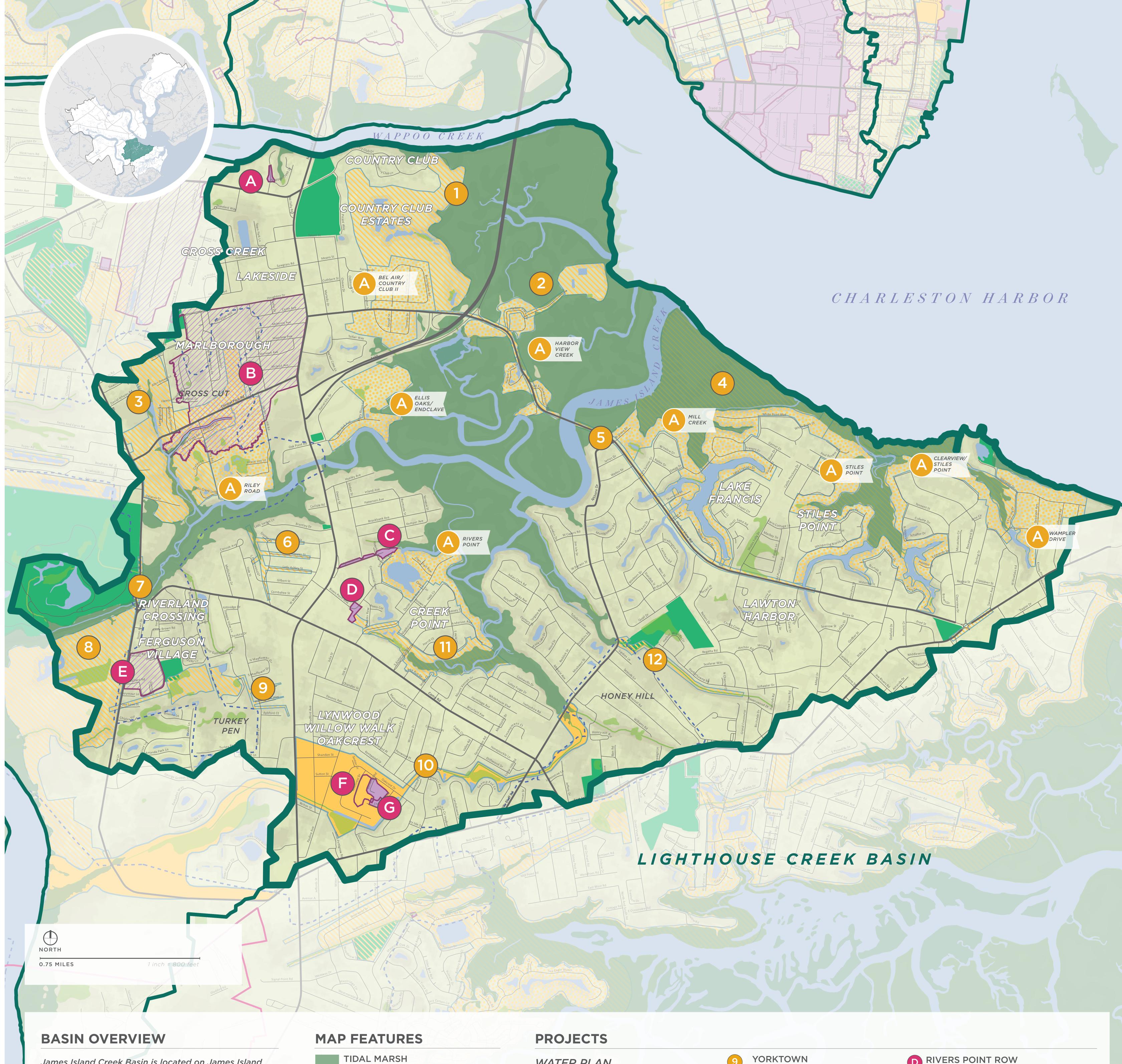
Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT, the Town of James Island, and private stormwater crews and subcontractors. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

144 unique rear ditch systems are hand-cleaned annually on James Island. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch cleaning per year on city-owned streets.

James Island Creek Basin

865 Acres - James Island





James Island Creek Basin is located on James Island and covers approximately 865 acres. James Island Creek Basin is one of three basins on James Island.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. James Island Creek to the east and Fort Johnson Road to the south define this basin's edges.

James Island consists of two developing sea islands, divided by James Island Creek. These sea islands face sea level rise and storm surge along their coastal edges and constricted, multi-jurisdictional drainage systems in their interiors. Low-lying, interior neighborhoods with slab-on-grade homes often experience tidal and compound flooding. These islands have a significant need for residential adaptation and marsh mitigation plans, along with limited opportunities for appropriate growth along the high ridges.

Expanding both drainage capacity and governmental coordination will help alleviate rainfall flood risk in flat low-lying neighborhoods. Elevating road access to high ground corridors like Maybank Highway and critical infrastructure like Plum Island Water Treatment Plant will become necessary as sea levels rise.

WETLANDS CITY PARKS

URBAN GROWTH BOUNDARY

WATER DRAINAGE BASINS

- STREETS

, AFRICAN AMERICAN SETTLEMENT -- AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS COMPLETED

IN PROGRESS IN DEVELOPMENT WATER PLAN

COMMUNITY ADAPTATION PLANS, AREA SPECIFIC AREAS: Charleston County Club II, Ellis Oaks / Enclave, Riley Road, Rivers Point, Mill Creek, Stiles Point, Clearview,

Wampler Drive **CHARLESTON COUNTRY CLUB**

Marsh Migration PLUM ISLAND & CIRCLE PLACE

Road Raising & Adaptation Plan

WOODLAND SHORES Emergent Creek Restoration & Stormwater

Storage MILL POND & KUSHIWAH CREEK

Shoreline Adaptation HARBOR VIEW ROAD

Road Raising CENTERVILLE

Drainage Improvements

RIVERLAND DRIVE Road Raising

DILL TRACT Marsh Migration

Drainage Improvements WILLOW WALK

Stormwater Park & Stormwater Improvements **WOLF PIT RUN**

Creek Restoration

JAMES ISLAND HIGH SCHOOL Creek Restoration

CITY STORMWATER

A WAPPOO CREEK PLACE DRIVE PONDING REPAIR STATUS: Completed

TOTAL COST: \$51,000 FUNDING SOURCE: Stormwater Operations Budget

B CENTRAL PARK DRAINAGE STATUS: In Development TOTAL COST: \$5,000,000 FUNDING SOURCE: Drainage Fund

CTATURE OF OUTFALL

STATUS: Completed TOTAL COST: \$70,000 (City part) FUNDING SOURCE: Cost Share with Town of James Island, Stormwater Operations Budget

RIVERS POINT ROW

STATUS: Completed TOTAL COST: \$43,220 FUNDING SOURCE: Stormwater Operations Budget

FERGUSON VILLAGE DRAINAGE (EASEMENTS PHASE)

STATUS: In Progress TOTAL COST: \$60,000 FUNDING SOURCE: Stormwater Operations Budget

WILLOW WALK SWALE

STATUS: Phase 1 Completed, Phase 2 In Development TOTAL COST: \$175,000

FUNDING SOURCE: Stormwater Operations Budget G SHOREHAM ROAD PROPERTY

RETROFIT STATUS: Completed TOTAL COST: \$50,000

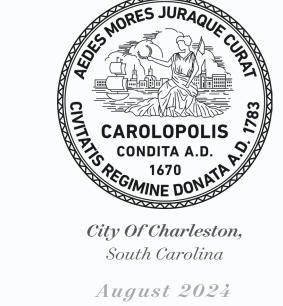
Budget **MAINTENANCE**

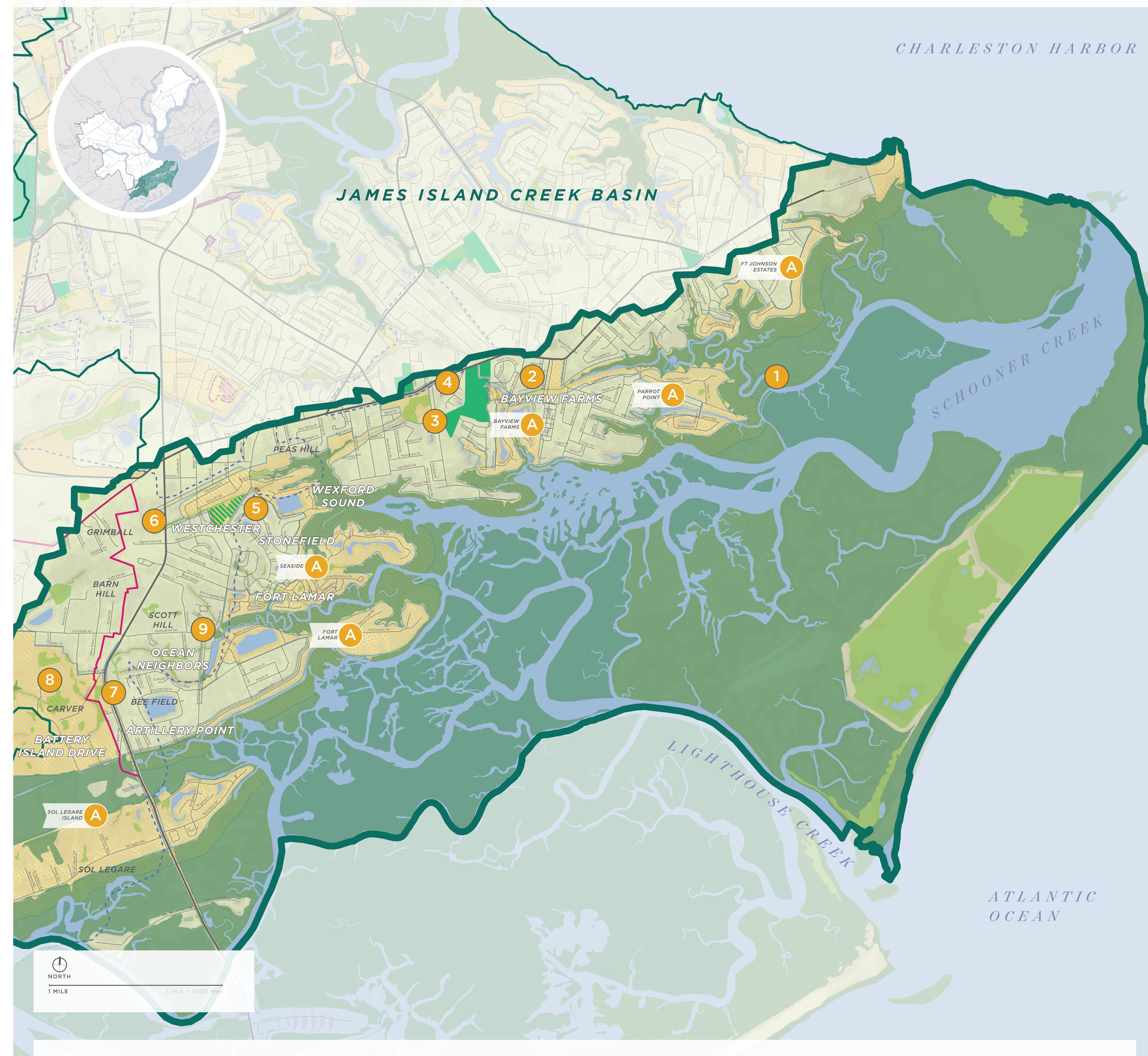
Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT, the Town of James Island, and private stormwater crews and subcontractors. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

FUNDING SOURCE: Stormwater Operations

Lighthouse Creek Basin

1,613 Acres - James Island





BASIN OVERVIEW

The Lighthouse Creek Basin is located on James Island and covers approximately 1,613 acres. Lighthouse Creek Basin is the largest of three basins on James Island.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. Fort Johnson Road to the north and Lighthouse Creek to the south define this basin's edges.

James Island consists of two developing sea islands, divided by James Island Creek. These sea islands face sea level rise and storm surge along their coastal edges and constricted, multi-jurisdictional drainage systems in their interiors. Low-lying, interior neighborhoods with slab-on-grade homes often experience tidal and compound flooding. These islands have a significant need for residential adaptation and marsh mitigation plans, along with limited opportunities for appropriate growth along the high ridges.

MAP FEATURES

TIDAL MARSH

WETLANDS

URBAN GROWTH BOUNDARY

WATER DRAINAGE BASINS

—— STREETS

AFRICAN AMERICAN SETTLEMENT
AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

COMPLETED

IN PROGRESS

IN PROGRESS
IN DEVELOPMENT

PROJECTS

WATER PLAN

COMMUNITY ADAPTATION
PLANS, AREA SPECIFIC

AREAS: Fort Johnson Estates, Parrot
Point Drive Community, Bayview Farms,

Seaside, Fort Lamar, Sol Legare Island

JAMES ISLAND LIVING

SHORELINE

Shoreline Adaptation

2 CREEKSIDE DRIVE
Marsh Migration & Stormwater Park

STONE POST & OCEAN VIEW
Wetlands Management

FORT JOHNSON ROAD
Road Raising

WESTCHESTER
Stormwater Park

6 SIGNAL POINT
Drainage Improvements

7 FOLLY ROAD
Road Raising & Shoreline Adaptation

GRIMBALL ROAD

Community Adaptation Plan & Marsh Migration

OLD MILITARY ROAD

9 OLD MILITARY ROAD
Road Raising

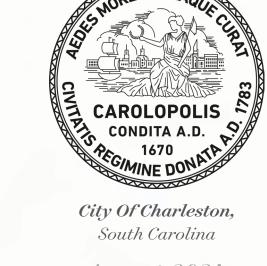
MAINTENANCE

Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT, the Town of James Island, and private stormwater crews and subcontractors. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

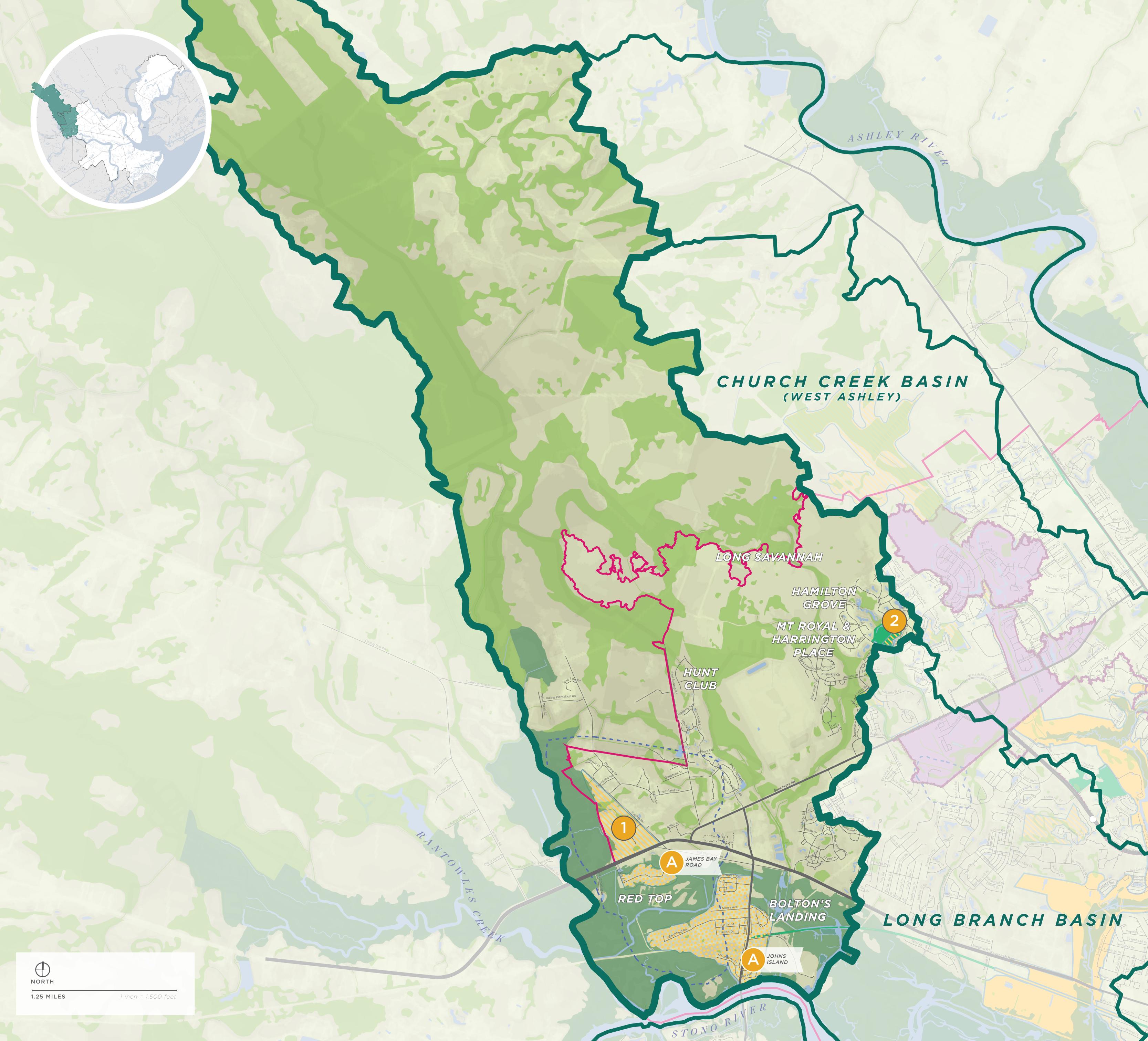
144 unique rear ditch systems are hand-cleaned annually on James Island. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch cleaning per year on city-owned streets.

Bear Swamp Basin

2,019 Acres - West Ashley







BASIN OVERVIEW

Bear Swamp Basin is located in West Ashley and covers approximately 2,019 acres. Bear Swamp Basin is the largest of seven basins in West Ashley.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. The Stono River to the south and high ground to the east define this basin's edges.

The Urban Growth Boundary (UGB) is a line that surrounds the City of Charleston. Suburban or urban growth in rural areas outside of the UGB is discouraged. The southern portion of Bear Swamp Basin is inside of the UGB.

West Ashley is comprised of a network of creeks and transforming future sea islands. The future of West Ashley will be shaped by water from the Ashley & Stono Rivers but also from several tidal and freshwater creeks throughout area. With rising seas, higher tides, and heavier storms, low-lying neighborhoods will need support to adapt, while applicable development shifts towards appropriate density along high ground ridges.

MAP FEATURES

TIDAL MARSH

WETLANDS

CITY PARKS

URBAN GROWTH BOUNDARY

WATER DRAINAGE BASINS

- STREETS , AFRICAN AMERICAN SETTLEMENT

WATER PLAN PROJECTS

FEATURED

-- AREA

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

COMPLETED IN PROGRESS

IN DEVELOPMENT

PROJECTS

WATER PLAN

COMMUNITY ADAPTATION PLANS, AREA SPECIFIC AREAS: James Bay Road, Johns Island (West Ashley)

RANTOWLES CREEK Wetlands Management & Conservation

UPPER CHURCH CREEK Wetland Management & Stormwater Improvements

MAINTENANCE

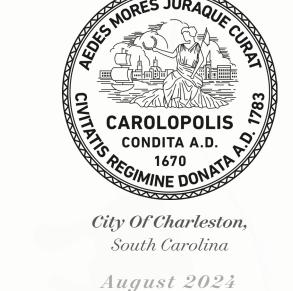
Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT stormwater crews. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

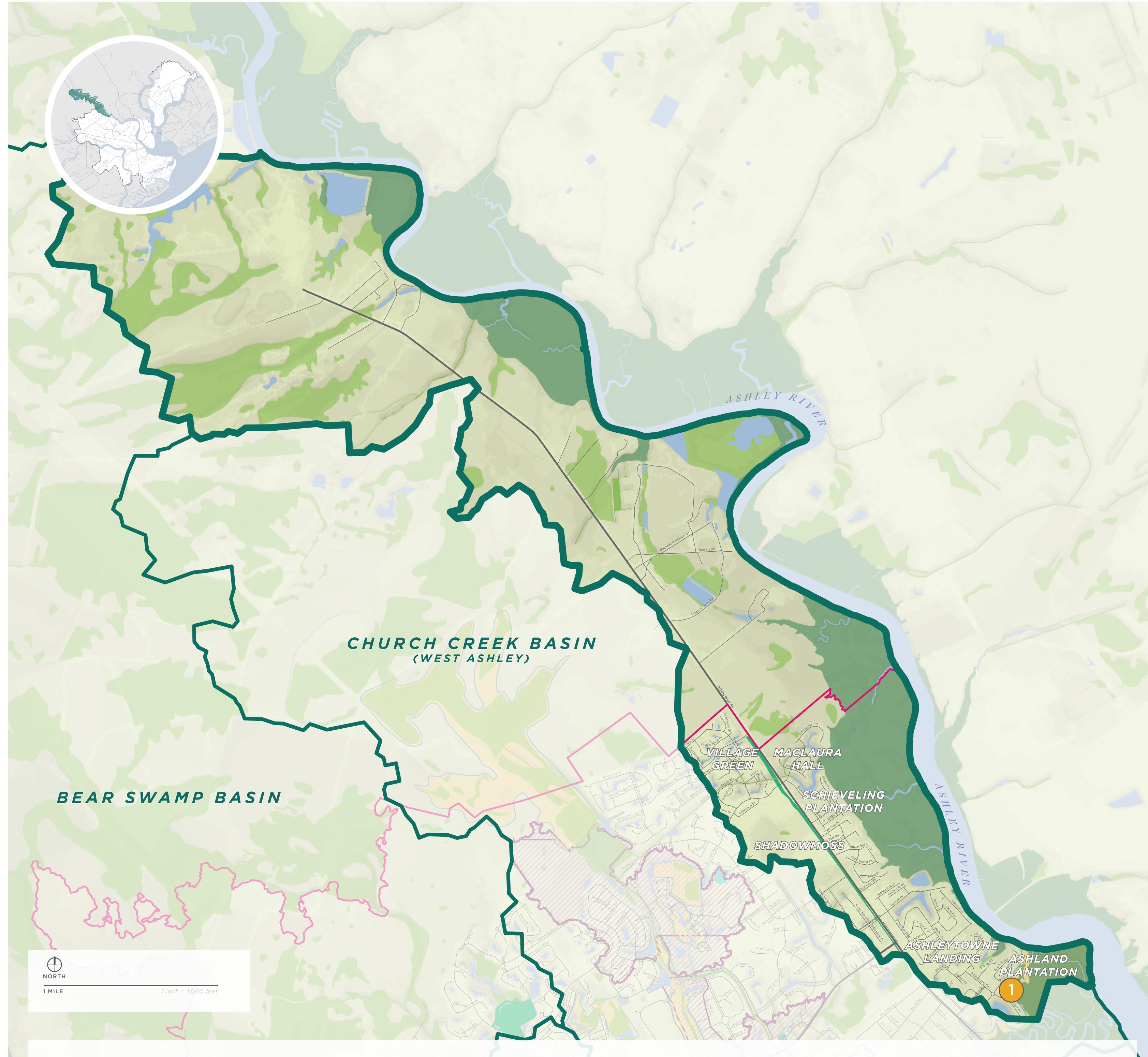
Canals and roadside drainage (open ditch and closed pipes) are the main stormwater infrastructure for West Ashley. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch rehabilitation per year on cityowned streets. 219 unique rear ditch systems are hand-cleaned annually in West Ashley.

Vac truck crews work to clean out surface drains and sumps within street inlets. They also respond to acute clogging issues with pipe cleaning and support the roadside open ditch rehabilitation crew by cleaning the driveway culverts and outfall

Ashley River Basin

633 Acres - West Ashley





BASIN OVERVIEW

Ashley River Basin (West Ashley) is located in West Ashley and covers approximately 633 acres. Ashley River Basin is one of seven basins in West Ashley.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. The Ashley River to the east and the Church Creek watershed to the west defines this basin's edges.

The Urban Growth Boundary (UGB) is a line that surrounds the City of Charleston. Suburban or urban growth in rural areas outside of the UGB is discouraged. The southern portion of Ashley River Basin is inside of the UGB.

The future of West Ashley will be shaped by water from the Ashley & Stono Rivers but also from several tidal and freshwater creeks throughout area.

MAP FEATURES

TIDAL MARSH

WETLANDS

CITY PARKS

URBAN GROWTH BOUNDARY

WATER DRAINAGE BASINS

WATER DRAINAGE BASINS

—— STREETS

AFRICAN AMERICAN SETTLEMENT
AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

COMPLETED

IN PROGRESS
IN DEVELOPMENT

PROJECTS

WATER PLAN

1 LONG BRANCH CREEK
Interconnected System

MAINTENANCE

Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT stormwater crews. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

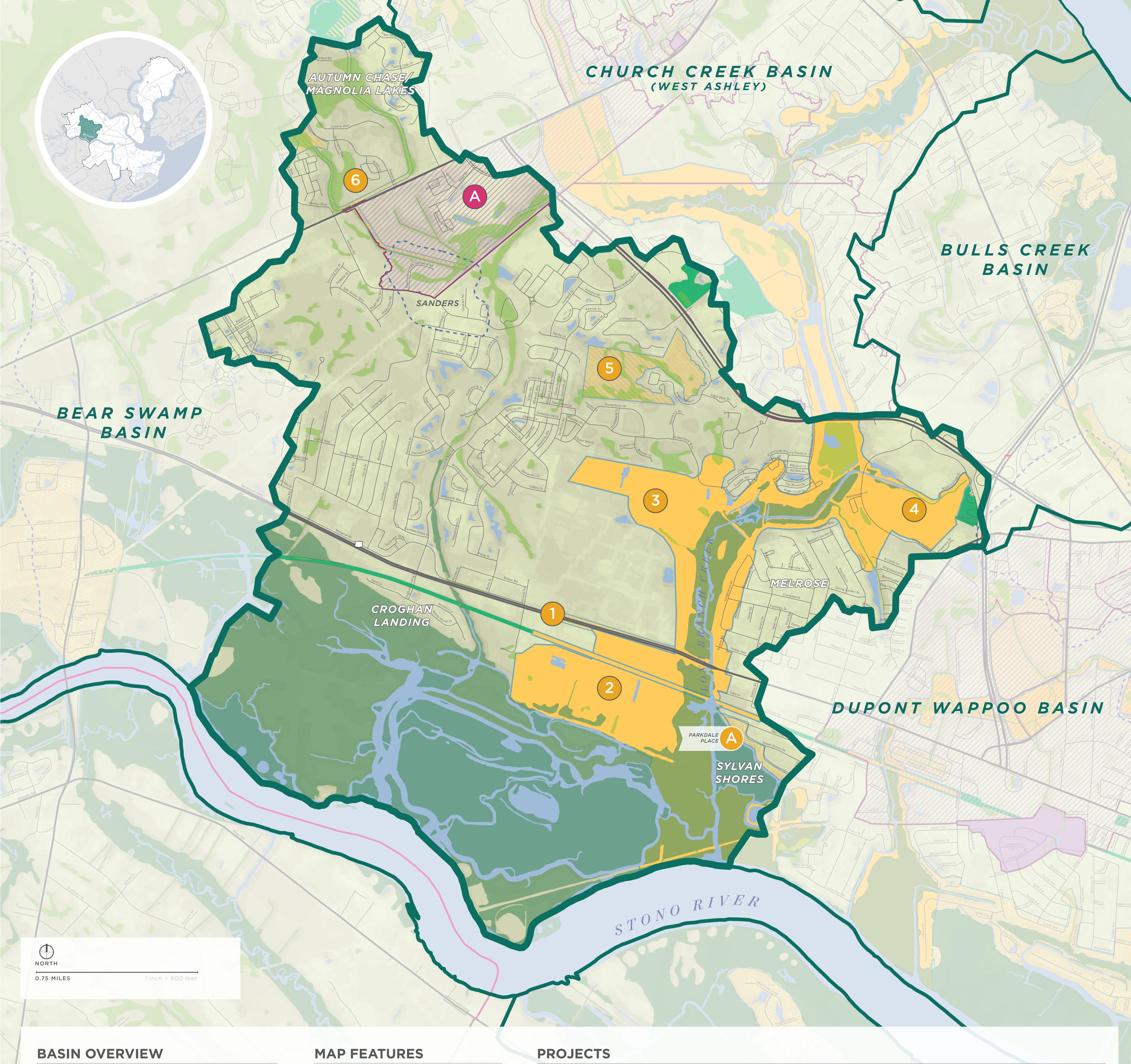
Canals and roadside drainage (open ditch and closed pipes) are the main stormwater infrastructure for West Ashley. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch rehabilitation per year on cityowned streets. 219 unique rear ditch systems are hand-cleaned annually in West Ashley.

Vac truck crews work to clean out surface drains and sumps within street inlets. They also respond to acute clogging issues with pipe cleaning and support the roadside open ditch rehabilitation crew by cleaning the driveway culverts and outfall pipes.

Long Branch Basin

705 Acres - West Ashley





Long Branch Basin is located in West Ashley and covers approximately 705 acres. Long Branch Basin is one of seven basins in West Ashley.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. Long Branch Creek to the east and south define this basin's edges.

West Ashley is comprised of a network of creeks and transforming future sea islands. Major roads like Sam Rittenberg and Savannah Highway are located at higher elevations than many neighborhoods along the rivers' edges. The future of West Ashley will be shaped by water from the Ashley & Stono Rivers but also from several tidal and freshwater creeks throughout area.

With rising seas, higher tides, and heavier storms, lowlying neighborhoods will need support to adapt, while applicable development shifts towards appropriate density along high ground ridges. TIDAL MARSH

WETLANDS

CITY DARKS

CITY PARKS

URBAN GROWTH BOUNDARY
WATER DRAINAGE BASINS

— STREETS

AFRICAN AMERICAN SETTLEMENT
AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

COMPLETED IN PROGRESS

IN DEVELOPMENT

WATER PLAN

COMMUNITY ADAPTATION
PLANS, AREA SPECIFIC

AREAS: Parkdale Place

SAVANNAH HIGHWAY
Road Raising

AGRICULTURE RESEARCH
CENTER
Marsh Migration

LONG BRANCH CREEK & CHURCH CREEK
Interconnected System

TECKLENBERG DRIVE
Wetland Management & Conservation

ESSEX FARMS / RUTHERTON WAY

Wetland Management & Conservation

6 UPPER CHURCH CREEK
Wetland Management & Stormwater
Improvements

CITY STORMWATER

A CHURCH CREEK FLOOD STORAGE
STATUS: In Progress

TOTAL COST: \$6,313,446
FUNDING SOURCE: Drainage Fund &
Federal Grants

MAINTENANCE

Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT stormwater crews. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

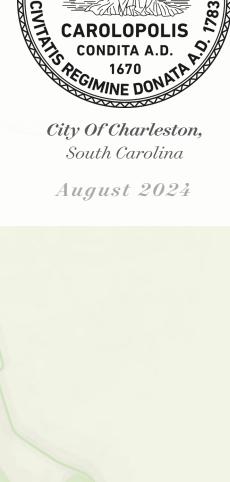
Canals and roadside drainage (open ditch and closed pipes) are the main stormwater infrastructure for West Ashley. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch rehabilitation per year on cityowned streets. 219 unique rear ditch systems are hand-cleaned annually in West Ashley.

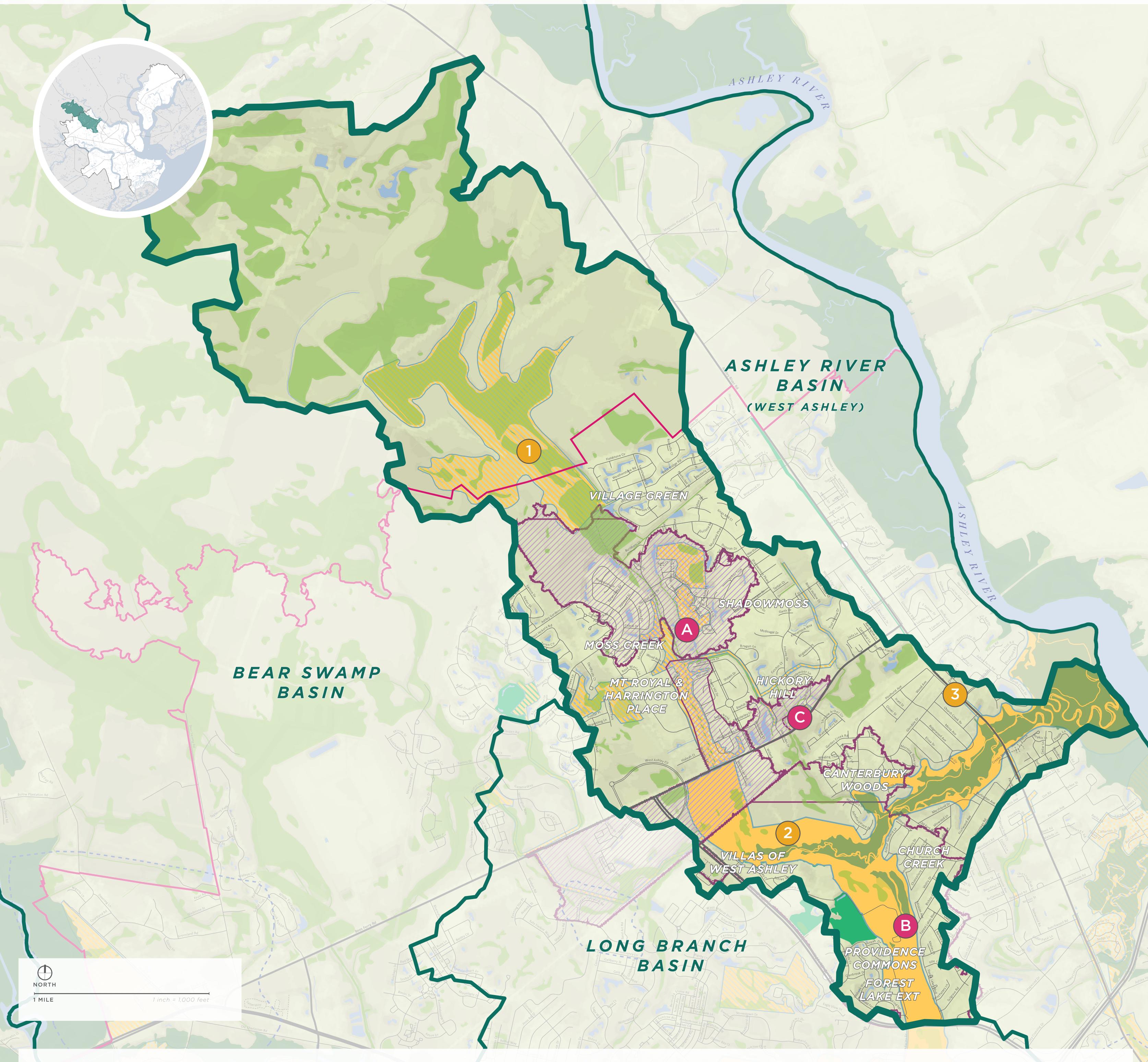
Vac truck crews work to clean out surface drains and sumps within street inlets. They also respond to acute clogging issues with pipe cleaning and support the roadside open ditch rehabilitation crew by cleaning the driveway culverts and outfall pipes.

Church Creek Basin

872 Acres - West Ashley







BASIN OVERVIEW

Church Creek Basin (West Ashley) is located in West Ashley and covers approximately 872 acres. Church Creek Basin (West Ashley) is one of seven basins in West Ashley.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. Church Creek in its interior defines this basin's edges.

West Ashley is comprised of a network of creeks and transforming future sea islands. Major roads like Sam Rittenberg and Savannah Highway are located at higher elevations than many neighborhoods along the rivers' edges. The future of West Ashley will be shaped by water from the Ashley & Stono Rivers but also from several tidal and freshwater creeks throughout area.

With rising seas, higher tides, and heavier storms, lowlying neighborhoods will need support to adapt, while applicable development shifts towards appropriate density along high ground ridges.

MAP FEATURES

TIDAL MARSH

WETLANDS CITY PARKS

URBAN GROWTH BOUNDARY

WATER DRAINAGE BASINS

- STREETS

AFRICAN AMERICAN SETTLEMENT -- AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

IN DEVELOPMENT

COMPLETED

IN PROGRESS

PROJECTS

WATER PLAN

UPPER CHURCH CREEK Wetland Management & Stormwater Improvements

LONG BRANCH CREEK & CHURCH CREEK Interconnected System

ASHLEY RIVER ROAD Road Raising

CITY STORMWATER

A CHURCH CREEK FLOOD STORAGE

STATUS: In Progress TOTAL COST: \$6,313,446 FUNDING SOURCE: Drainage Fund & Federal Grants

B LAKE DOTTERER DRAINAGE **IMPROVEMENTS**

STATUS: In Development TOTAL COST: \$2,290,179 FUNDING SOURCE: Drainage Fund & Charleston County

MOWLER CT FLOOD PROPERTY RETROFIT

STATUS: Completed TOTAL COST: \$100,000 FUNDING SOURCE: Stormwater Operations Budget

MAINTENANCE

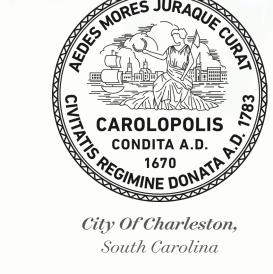
Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT stormwater crews. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

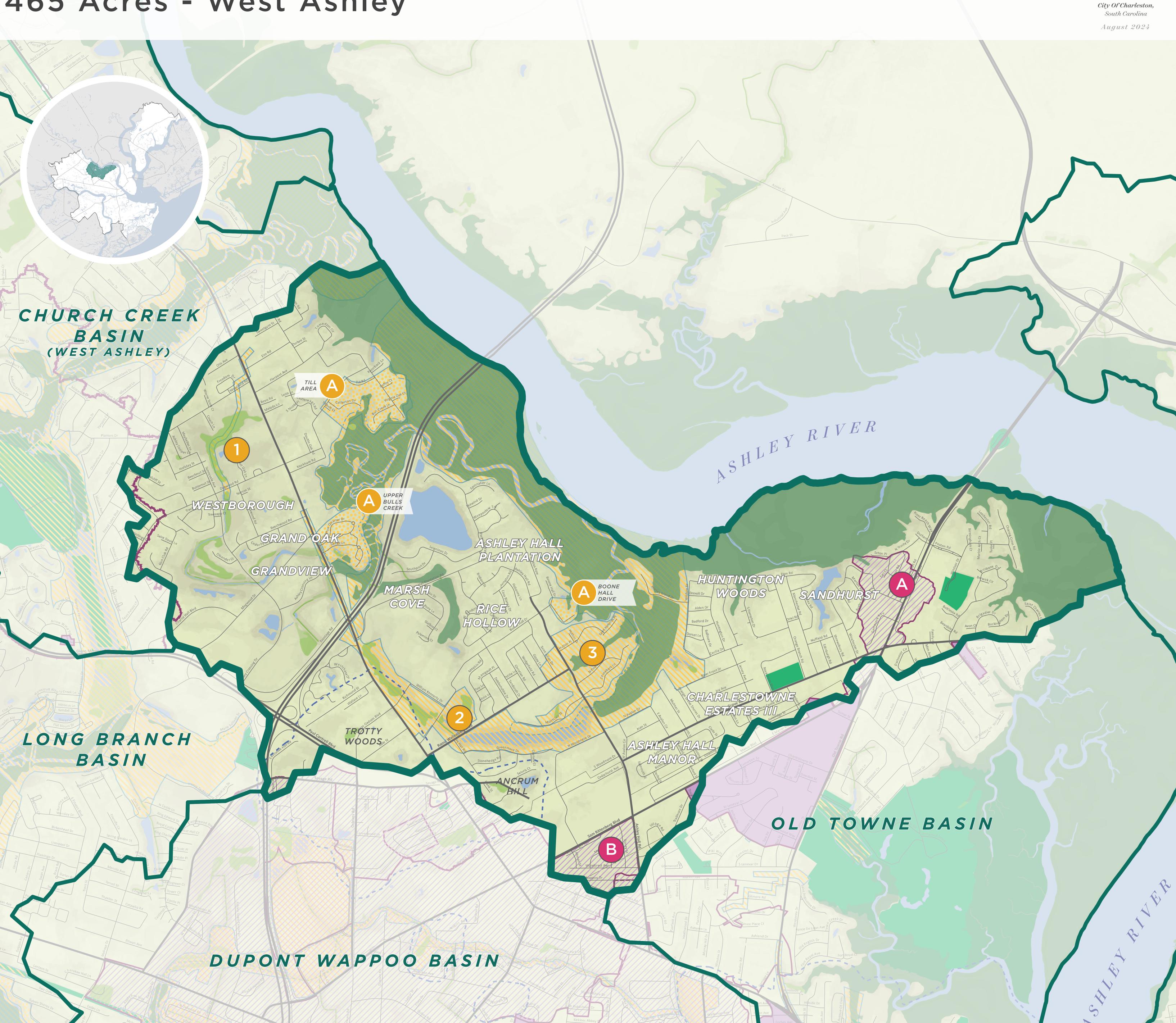
Canals and roadside drainage (open ditch and closed pipes) are the main stormwater infrastructure for West Ashley. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch rehabilitation per year on cityowned streets. 219 unique rear ditch systems are hand-cleaned annually in West Ashley.

Vac truck crews work to clean out surface drains and sumps within street inlets. They also respond to acute clogging issues with pipe cleaning and support the roadside open ditch rehabilitation crew by cleaning the driveway culverts and outfall pipes.

Bulls Creek Basin

465 Acres - West Ashley





BASIN OVERVIEW

0.75 MILES

Bulls Creek Basin is located in West Ashley and covers approximately 465 acres. Bulls Creek Basin is one of seven basins in West Ashley.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. Bulls Creek in its interior and the Ashley River to the north define this basin's edges.

West Ashley is comprised of a network of creeks and transforming future sea islands. Major roads like Sam Rittenberg and Savannah Highway are located at higher elevations than many neighborhoods along the rivers' edges. The future of West Ashley will be shaped by water from the Ashley & Stono Rivers but also from several tidal and freshwater creeks throughout area.

With rising seas, higher tides, and heavier storms, lowlying neighborhoods will need support to adapt, while applicable development shifts towards appropriate density along high ground ridges.

MAP FEATURES

TIDAL MARSH

WETLANDS

CITY PARKS URBAN GROWTH BOUNDARY

WATER DRAINAGE BASINS

- STREETS

, AFRICAN AMERICAN SETTLEMENT -- AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

IN DEVELOPMENT

COMPLETED IN PROGRESS

PROJECTS

WATER PLAN

COMMUNITY ADAPTATION PLANS, AREA SPECIFIC AREAS: Till Area, Upper Bulls Creek, Boone Hall Drive

PIERPOINT Stormwater Improvements

THE OXBOW

Interconnected System **ASHLEY HALL ROAD**

Road Raising & Community Adaptation

CITY STORMWATER A SANDHURST CONVEYANCE **IMPROVEMENT** STATUS: In Progress

TOTAL COST: \$250,000

B DUPONT WAPPOO DRAINAGE STATUS: In Progress

TOTAL COST: \$5,500,000

FUNDING SOURCE: TIF

FUNDING SOURCE: Drainage Fund

MAINTENANCE

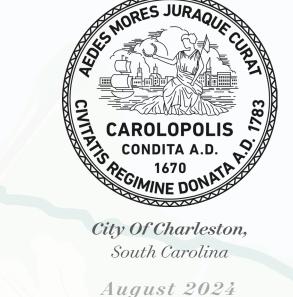
Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT stormwater crews. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

Canals and roadside drainage (open ditch and closed pipes) are the main stormwater infrastructure for West Ashley. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch rehabilitation per year on cityowned streets. 219 unique rear ditch systems are hand-cleaned annually in West Ashley.

Vac truck crews work to clean out surface drains and sumps within street inlets. They also respond to acute clogging issues with pipe cleaning and support the roadside open ditch rehabilitation crew by cleaning the driveway culverts and outfall pipes.

Dupont Wappoo Basin

660 Acres - West Ashley



BULLS CREEK BASIN GRANT HILL OLD TOWNE BASIN ORLEANS WOODS / CARVERWOOD TOODLANDS DALLERTON SHERWOOD GITADEL STONEGREEK ARDMORE Leinb STONO RIVER SHORELINE PARKWOOD SPONO RIVER PENNY'S CREEK BASIN SOUTH WINDERMERE NORTH 0.75 MILES 1 inch = 800 feet

BASIN OVERVIEW

Dupont Wappoo Basin is located in West Ashley and covers approximately 660 acres. Dupont Wappoo Basin is one of seven basins in West Ashley.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. Wappoo Creek and the Stono River to the south and high ground along St Andrews Blvd to the north define this basin's edges.

West Ashley is comprised of a network of creeks and transforming future sea islands. Major roads like Sam Rittenberg and Savannah Highway are located at higher elevations than many neighborhoods along the rivers' edges, where homes are increasingly susceptible to multiple types of flooding.

The future of West Ashley will be shaped by water from the Ashley & Stono Rivers but also from several tidal and freshwater creeks throughout area. With rising seas, higher tides, and heavier storms, low-lying neighborhoods will need support to adapt, while applicable development shifts towards appropriate density along high ground ridges. The resulting pattern will begin to take the shape of several "islands" surrounded by a network of creeks, marsh migration zones, and accessible green space.

MAP FEATURES

TIDAL MARSH

WETLANDS

CITY PARKS

URBAN GROWTH BOUNDARY

WATER DRAINAGE BASINS

STREETS

AFRICAN AMERICAN SETTLEMENT
AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

COMPLETED

IN PROGRESS

IN DEVELOPMENT

PROJECTS

WATER PLAN

COMMUNITY ADAPTATION
PLANS, AREA SPECIFIC

AREAS: Stono River Shoreline
Neighborhoods, Parkwood, South
Windermere, Parkdale/ Park Place,
Dallerton Circle

THE BLUE CRESCENT
Interconnected System

WEST ASHLEY GREENWAY
Road Raising

SHERWOOD FOREST

Stormwater Improvements

CITADEL MALL

Stormwater park & Resilient
Development

SAVANNAH HIGHWAY

CITY STORMWATER

Road Raising

DUPONT WAPPOO DRAINAGE

STATUS: In Progress

TOTAL COST: \$5,500,000

FUNDING SOURCE: TIF, State

DUNBAR STREET FLOOD STORAGESTATUS: Completed
TOTAL COST: \$100,000
FUNDING SOURCE: Drainage Fund

SHERWOOD FOREST DRAINAGE
STATUS: Completed
TOTAL COST: \$50,000
FUNDING SOURCE: Drainage Fund

FOREST ACRES

Fund & Grant

STATUS: Phase 1 Complete, Phase 2 In Progress TOTAL COST: \$25,458,873 FUNDING SOURCE: Local Option Permit & Stormwater Operations Fund

OAK FOREST DR FLOOD PROPERTY

STATUS: Completed

TOTAL COST: \$100,000

FUNDING SOURCE: Stormwater Operations

OAK FOREST OUTFALL SYSTEM
STATUS: In Progress
TOTAL COST: \$150,000
FUNDING SOURCE: Stormwater

G BYRNES DOWNS OUTFALL
STATUS: Completed
TOTAL COST: \$100,000
FUNDING SOURCE: Stormwater

H ASHBURY PIPE UPSIZING

Operations Fund

STATUS: In Progress TOTAL COST: \$100,000 FUNDING SOURCE: Stormwater Operations Fund

FUNDING SOURCE: Stormwater

LORD CALVERT STATUS: Completed TOTAL COST: \$19,922

Operations Fund

DEVONSHIRE CLEANING
STATUS: Complete
TOTAL COST: \$150,000
FUNDING SOURCE: Stormwater
Operations Fund

BELFAST ROADSIDE DRAINAGE
STATUS: Completed
TOTAL COST: \$10,000
FUNDING SOURCE: Stormwater

REBELLION ROAD OUTFALL
STATUS: In Progress
TOTAL COST: \$90,000
FUNDING SOURCE: Stormwater

Operations Fund

SAVANNAH HIGHWAY SIDEWALK

DRAINAGE

STATUS: Complete

MAINTENANCE

Operations Fund

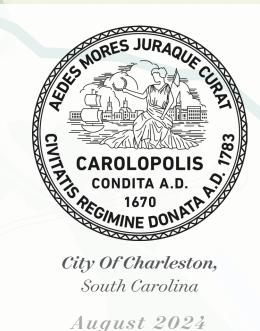
Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT stormwater crews. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

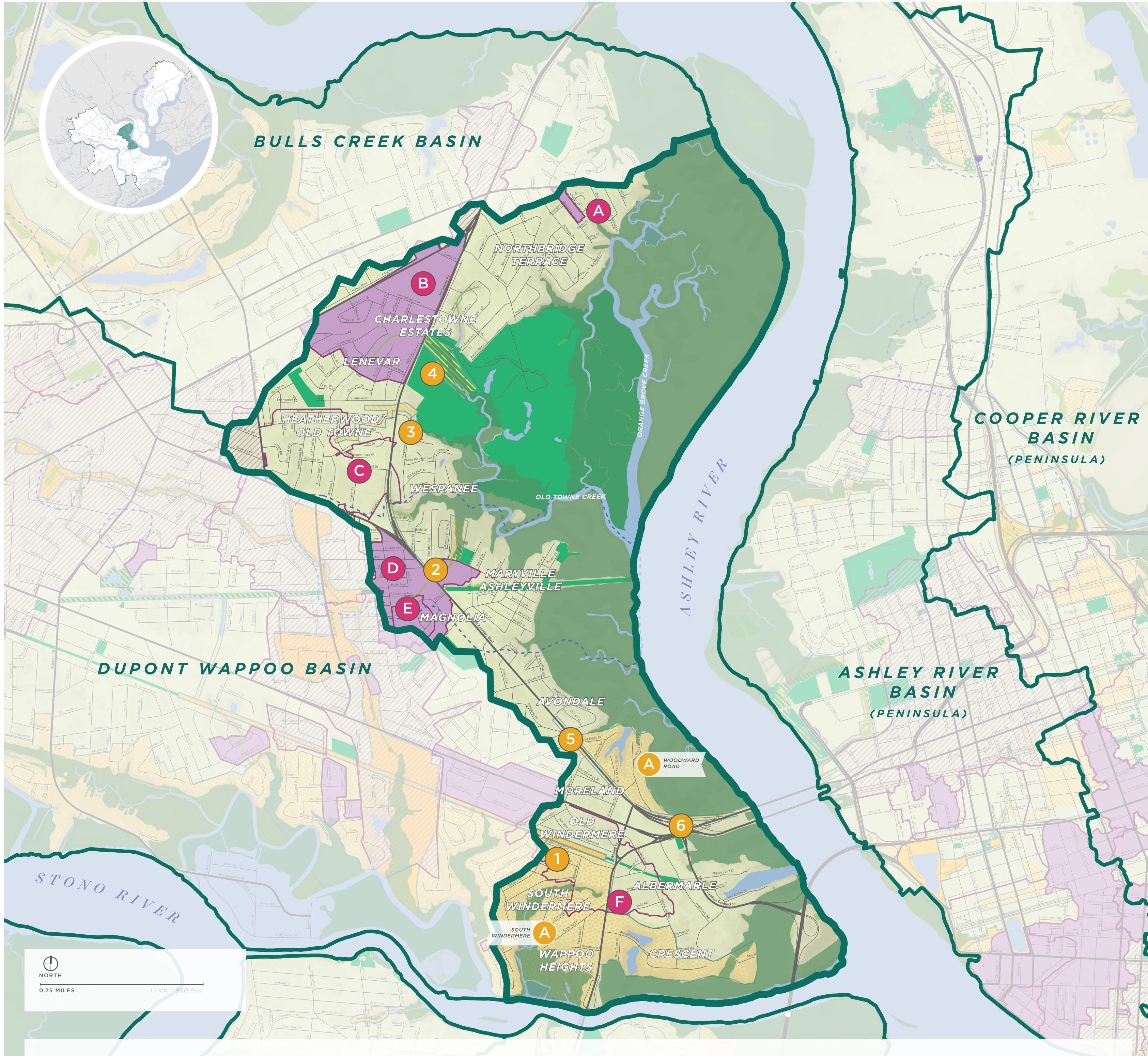
Canals and roadside drainage (open ditch and closed pipes) are the main stormwater infrastructure for West Ashley. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch rehabilitation per year on city-owned streets. 219 unique rear ditch systems are hand-cleaned annually in West Ashley.

Vac truck crews work to clean out surface drains and sumps within street inlets. They also respond to acute clogging issues with pipe cleaning and support the roadside open ditch rehabilitation crew by cleaning the driveway culverts and outfall pipes.

Old Towne Creek Basin

457 Acres - West Ashley





BASIN OVERVIEW

Old Towne Creek Basin is located in West Ashley and covers approximately 457 acres. Old Towne Creek Basin is one of seven basins in West Ashley.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. Old Towne Creek to the east and high ground along St Andrews Blvd and & Sam Rittenberg Blvd define this basin's edges.

West Ashley is comprised of a network of creeks and transforming future sea islands. Major roads like Sam Rittenberg and Savannah Highway are located at higher elevations than many neighborhoods along the rivers' edges, where homes are increasingly susceptible to multiple types of flooding. The future of West Ashley will be shaped by water from the Ashley & Stono Rivers but also from several tidal and freshwater creeks throughout area.

With rising seas, higher tides, and heavier storms, lowlying neighborhoods will need support to adapt, while applicable development shifts towards appropriate density along high ground ridges. The resulting pattern will begin to take the shape of several "islands" surrounded by a network of creeks, marsh migration zones, and accessible green space.

MAP FEATURES

TIDAL MARSH

WETLANDS

CITY PARKS

WATER DRAINAGE BASINS

— STREETS

AFRICAN AMERICAN SETTLEMENT

WATER BLANDROJECTS

WATER PLAN PROJECTS
FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

COMPLETED IN PROGRESS

-- AREA

IN PROGRESS
IN DEVELOPMENT

PROJECTS

WATER PLAN

COMMUNITY ADAPTATION
PLANS, AREA SPECIFIC

AREAS: South Windermere, Woodward
Road

WEST ASHLEY GREENWAY
Road Raising

2 MARYVILLE
Stormwater Improvements

ST. AUGUSTINE / MARVIN AVE

Stormwater Improvements

OLD TOWNE CREEK
Stormwater Improvements

5 ST ANDREWS BLVD

Road Raising

ASHLEY RIVER BRIDGE
LANDING

CITY STORMWATER

Road Raising

MULLER DRAINAGE IMPROVEMENT
STATUS: Completed
TOTAL COST: \$20,000
FUNDING SOURCE: Stormwater
Operation Budget

B DOWDEN AREA DRAINAGE

WESPANEE DRAINAGE

STATUS: In Development

TOTAL COST: \$25,458,873

STATUS: Completed TOTAL COST: \$150,000 FUNDING SOURCE: Stormwater Operation Budget

TOTAL COST: \$2,500,000 FUNDING SOURCE: Drainage Fund

FOREST ACRES

STATUS: Phase 1 Complete, Phase 2 In Progress

FUNDING SOURCE: Local Option Permit &

Drainage Fund ANITA DRIVE

STATUS:In Progress TOTAL COST: \$100,000 FUNDING SOURCE: Stormwater Operation Budget

WINDERMERE DRAINAGE

STATUS: IN Development TOTAL COST: \$8,215,943 FUNDING SOURCE: Drainage Fund & State Grant

MAINTENANCE

Existing Stormwater and Drainage infrastructure systems are maintained by a combination of City, County, SCDOT stormwater crews. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.

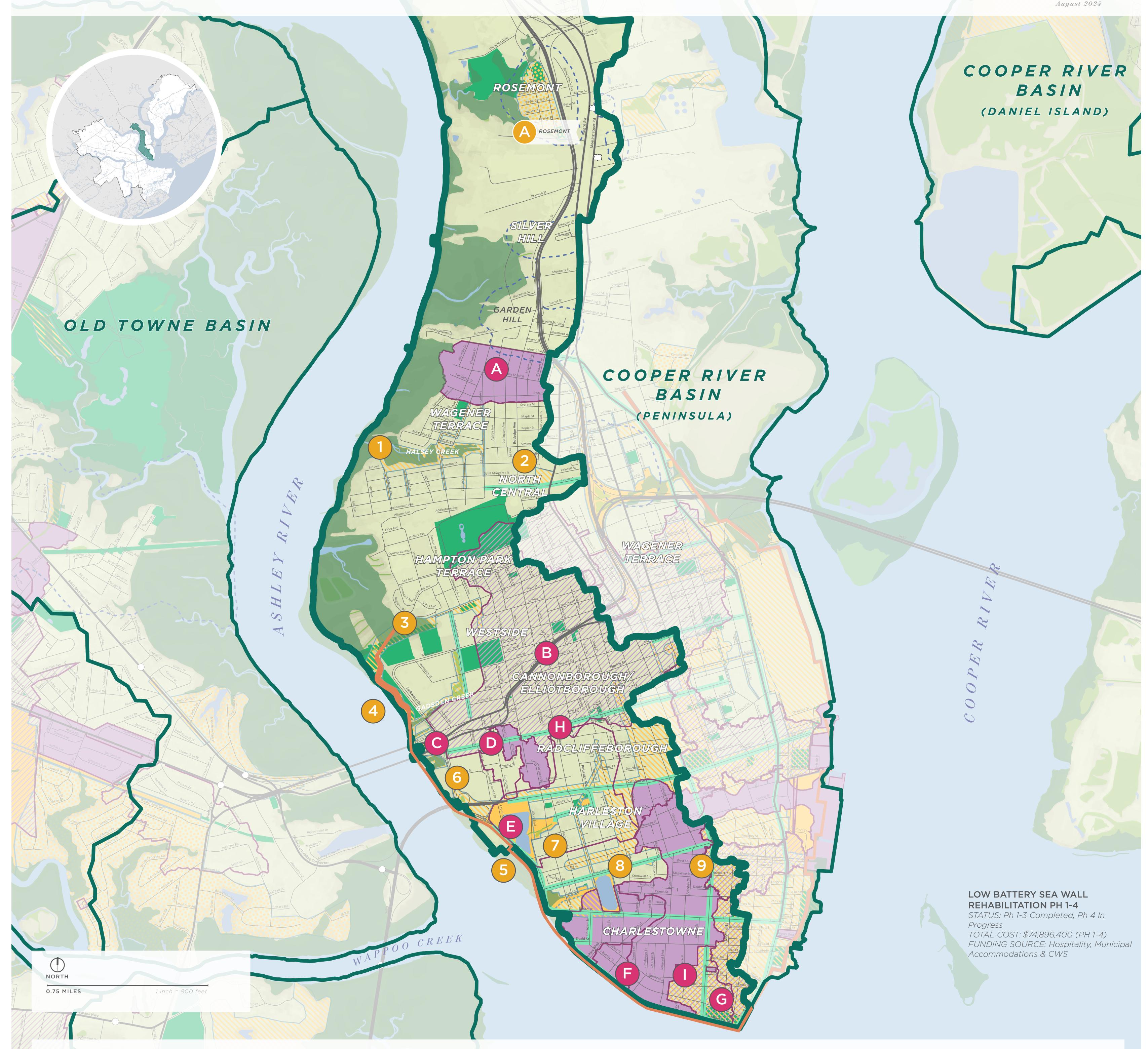
Canals and roadside drainage (open ditch and closed pipes) are the main stormwater infrastructure for West Ashley. Over the last five years, City Stormwater crews have averaged 18.2 miles of front ditch rehabilitation per year on cityowned streets. 219 unique rear ditch systems are hand-cleaned annually in West Ashley.

Vac truck crews work to clean out surface drains and sumps within street inlets. They also respond to acute clogging issues with pipe cleaning and support the roadside open ditch rehabilitation crew by cleaning the driveway culverts and outfall pipes.

Ashley River Basin

473 Acres - Peninsula





BASIN OVERVIEW

Ashley River Basin (Peninsula) is located on the Peninsula and covers approximately 473 acres. Ashley River Basin (Peninsula) is one of two basins on the Peninsula.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. The Ashley River to the west and high ground down the spine of the peninsula to the east define this basin's edges. The Ashley River Basin includes Halsey Creek and Gadsden Creek.

The Charleston Peninsula contains some of the lowest developed ground in the region, yet is home to iconic places, built and natural. The process of adapting the Charleston Peninsula is a generational project.

To maintain its historic character and economic vitality, the future lower Peninsula is envisioned with an Extension of the Battery on the Ashley and Cooper Rivers and an interconnected interior water system for stormwater management, groundwater balance, and public amenities. In the Neck, nature-based adaptation should be employed to protect from storm surge and make space for marsh migration, with elevated structures and infrastructure.

MAP FEATURES

TIDAL MARSH

WETLANDS

CITY PARKS

URBAN GROWTH BOUNDARY WATER DRAINAGE BASINS

---- STREETS

, AFRICAN AMERICAN SETTLEMENT -- AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

BLUE-GREEN STREETS

BATTERY EXTENSION

CITY STORMWATER PROJECTS

IN DEVELOPMENT

COMPLETED **IN PROGRESS**

PROJECTS

WATER PLAN

COMMUNITY ADAPTATION PLANS, AREA SPECIFIC AREA: Rosemont

HALSEY CREEK Stormwater Improvements

KINGS PLAZA Stormwater Park

CITADEL MARSH Interconnected System

BRITTLEBANK PARK Shoreline Adaptation

LOCKWOOD WETLANDS

Shoreline Adaptation

ASHLEY RIVER INTEGRATED WATER MANAGEMENT

Interconnected System **LOCKWOOD LAKES**

Stormwater Park CALHOUN WEST STORMWATER

HISTORIC BRICK ARCH **REHABILITATION** Stormwater Improvement

Stormwater Improvements

CITY STORMWATER

A PEACHTREE OUTFALL STATUS: Completed TOTAL COST: \$210,000 FUNDING SOURCE: Stormwater Operations Budget

B SPRING/FISHBURNE/US-17 DRAINAGE IMPROVEMENTS (PH 1-4) STATUS: Complete TOTAL COST: \$47,500,000 FUNDING SOURCE: TIF & State Grants,

Federal Grant SPRING/FISHBURNE/US-17 DRAINAGE PUMP STATION (PH 5) STATUS: In Progress

FUNDING SOURCE: TIF & State Grants MUSC PUMP STATION UPFIT

STATUS: In Development TOTAL COST: \$5,000,000 FUNDING SOURCE: Drainage Fund & Federal Grants

TOTAL COST: \$50,206,623

ALBERTA LONG LAKE DRAINAGE STATUS: In Development TOTAL COST: \$1,500,000 FUNDING SOURCE: Drainage Fund

G LOW BATTERY SEA WALL **REHABILITATION PH 1-3**

STATUS: Completed TOTAL COST: \$48,576,431 (PH 1-3) FUNDING SOURCE: Hospitality,

Municipal Accommodations & CWS G LOW BATTERY SEA WALL **REHABILITATION PH 4**

STATUS: In Progress FUNDING SOURCE: Hospitality, Municipal Accommodations & CWS

EHRHARDT STREET TUNNEL **EXTENSION** STATUS: Complete

TOTAL COST: \$17,855,519 FUNDING SOURCE: Drainage Fund & Federal Grants

LIMEHOUSE BRICK ARCH REHAB STATUS: Complete TOTAL COST: \$4,400,000 FUNDING SOURCE: Drainage Fund

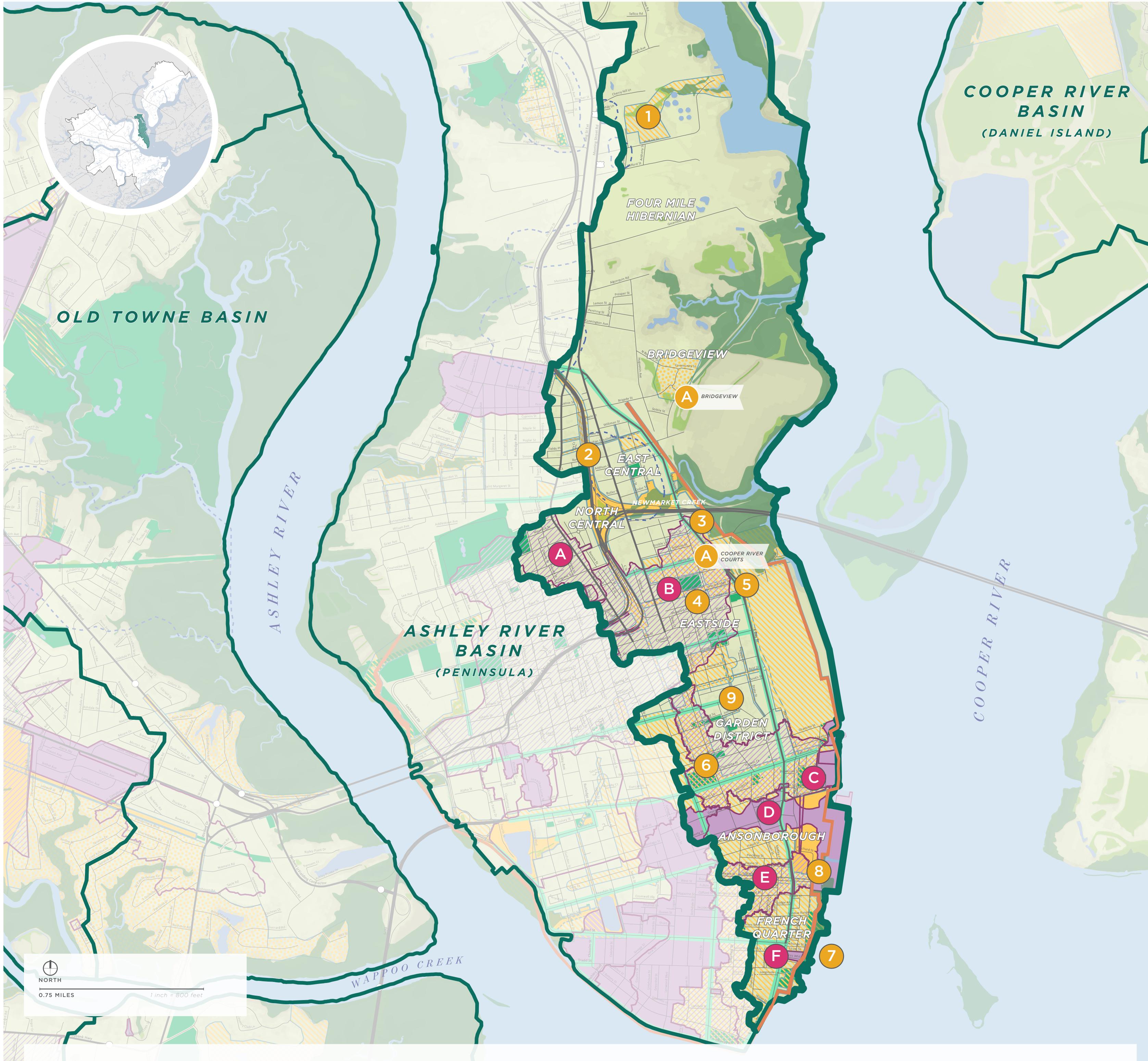
MAINTENANCE

Existing Stormwater and Drainage infrastructure systems are maintained by City stormwater crews and subcontractors. This work includes outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, brick arch repair, pipe repair, water level management pre-storm and other rehabilitation efforts for the entire system.

Cooper River Basin

380 Acres - Peninsula





BASIN OVERVIEW

Cooper River Basin (Peninsula) is located on the Peninsula and covers approximately 380 acres. Cooper River Basin (Peninsula) is one of two basins on the Peninsula.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. The Cooper River to the east and high ground down the spine of the peninsula to the west define this basin's edges. The Cooper River Basin includes Newmarket Creek.

The Charleston Peninsula contains some of the lowest developed ground in the region, yet is home to iconic places, built and natural. The process of adapting the Charleston Peninsula is a generational project.

To maintain its historic character and economic vitality, the future lower Peninsula is envisioned with an Extension of the Battery on the Ashley and Cooper Rivers and an interconnected interior water system for stormwater management, groundwater balance, and public amenities. In the Neck, nature-based adaptation should be employed to protect from storm surge and make space for marsh migration, with elevated structures and infrastructure.

MAP FEATURES

TIDAL MARSH

WETLANDS CITY PARKS

URBAN GROWTH BOUNDARY

WATER DRAINAGE BASINS

- STREETS , AFRICAN AMERICAN SETTLEMENT

-- AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

BLUE-GREEN STREETS

BATTERY EXTENSION

CITY STORMWATER PROJECTS

COMPLETED **IN PROGRESS** IN DEVELOPMENT

PROJECTS

WATER PLAN

COMMUNITY ADAPTATION PLANS, AREA SPECIFIC AREAS: Bridgeview, Cooper River Courts

FOURMILE HOUSE STREAM Stormwater Park & Stormwater Improvements

LOWCOUNTRY LOWLINE Stormwater Park

COOPER RIVER INTEGRATED WATER MANAGEMENT Interconnected System

EASTSIDE POLDER Interconnected System VARDELLS CREEK & COOPER

STREET DRAINAGE Interconnected System HISTORIC BRICK ARCH

REHABILITATION Stormwater Improvement WATERFRONT PARK

Marsh Migration **UNION PIER**

Resilient Development REID/AMERICA STREET DRAINAGE

Drainage Improvements

CITY STORMWATER

A KING/HUGER DRAINAGE **IMPROVEMENT**

STATUS: IN Progress TOTAL COST: \$16,361,670 FUNDING SOURCE: Drainage Fund & State Grant

B COOPER JACKSON DRAINAGE STATUS: In Progress TOTAL COST: \$11,172,000 FUNDING SOURCE: TIF

CONCORD STREET PUMP STATION STATUS: Design Completed, Construction in Progress TOTAL COST: \$14,237,782

FUNDING SOURCE: Drainage Fund &

Local Option Permit & Hospitality Fund

SOCIETY BRICK ARCH **REHABILITATION**

STATUS: Completed MARKET STREET SURFACE COLLECTION

STATUS: In Development TOTAL COST: \$23,280,056 FUNDING SOURCE: Drainage Fund & Bonds & CWS

CONCORD STREET DRAINAGE STATUS: Completed TOTAL COST: \$40,000

FUNDING SOURCE: Drainage Fund

MAINTENANCE

Existing Stormwater and Drainage infrastructure systems are maintained by City stormwater crews and subcontractors. This work includes outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, brick arch repair, pipe repair, water level management pre-storm and other rehabilitation efforts for the entire system.

Much of the peninsula system is old; installed with less capacity than would be required today.

Vac truck crews work to clean out surface drains and sumps within street inlets, covering more than 500 locations on the peninsula each year. They also respond to acute clogging issues with pipe cleaning and support the roadside open ditch rehabilitation crew by cleaning the driveway culverts and outfall pipes.

Cooper River Basin

connected to the surrounding region via Interstate-526

CITY STORMWATER PROJECTS

IN DEVELOPMENT

COMPLETED

IN PROGRESS

in the late 1980's, spurring rapid development. In both

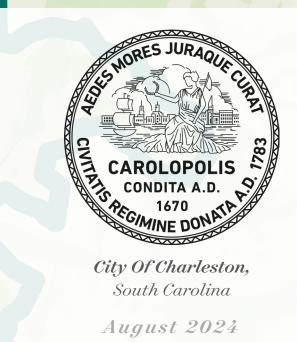
of these areas, ecological considerations overlap with

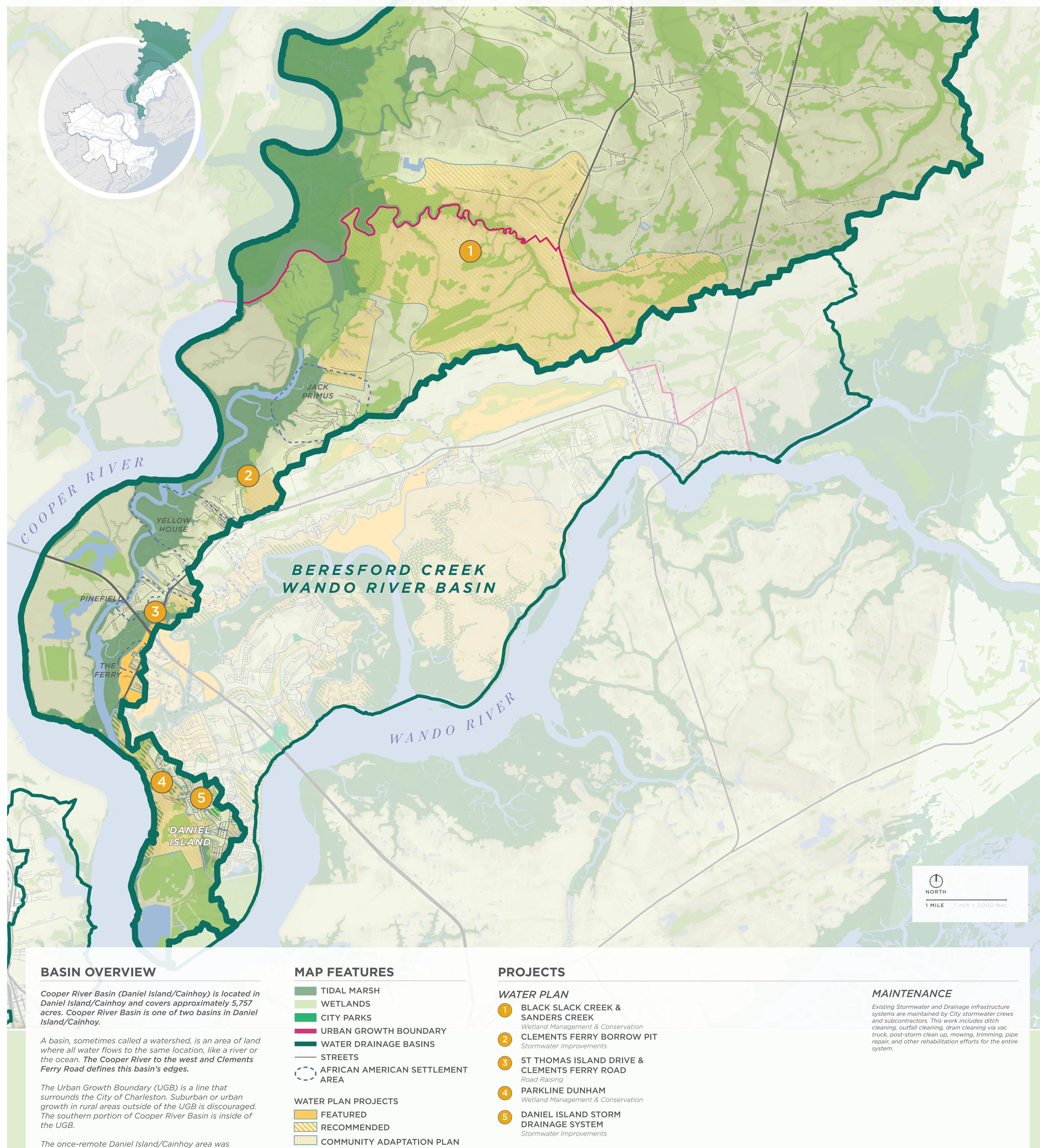
development and flood concerns. For development to

continue without creating downstream impacts, the

function of the natural system must be preserved.

5,757 Acres - Daniel Island / Cainhoy

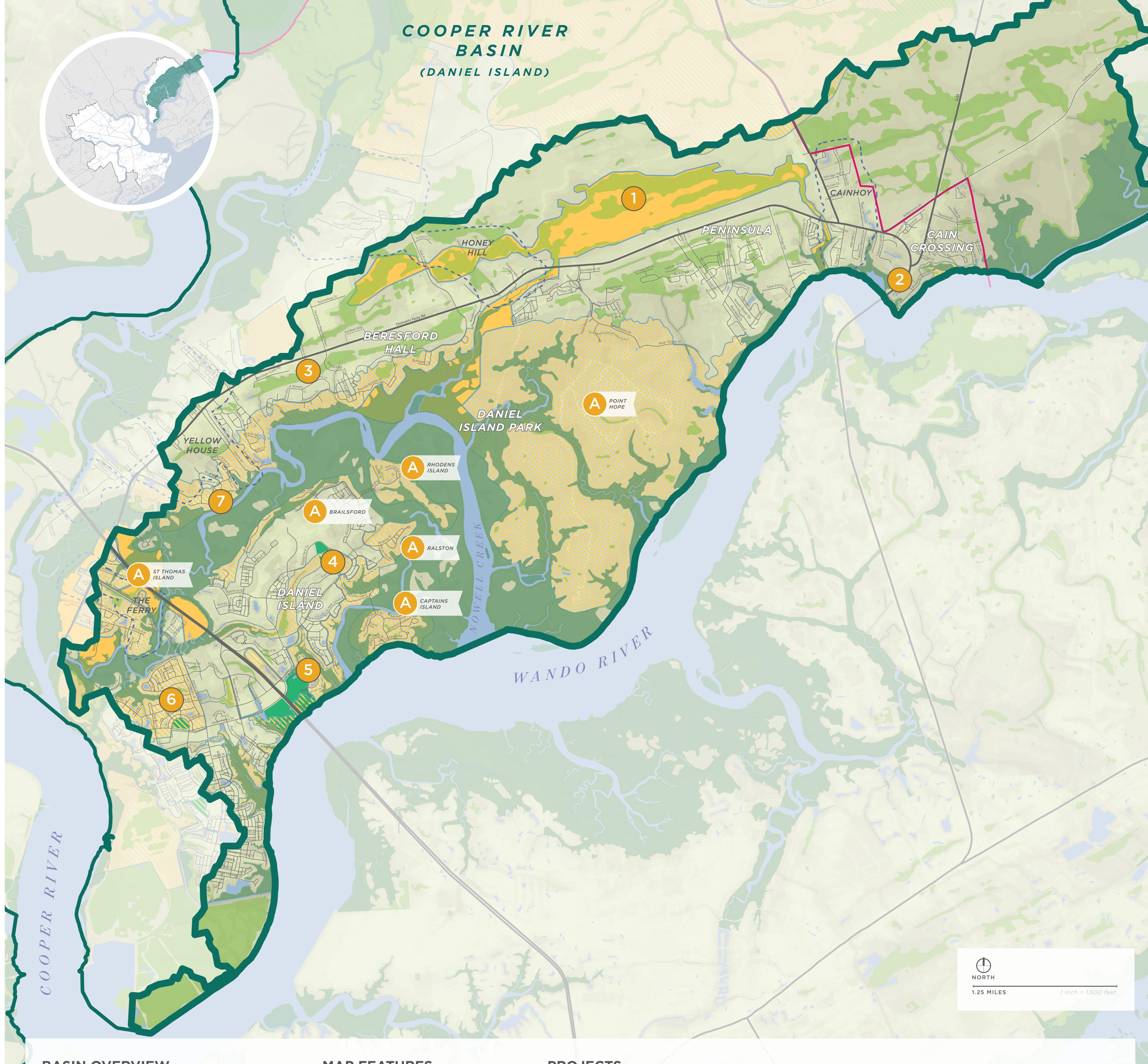




Bersford Creek / Wando River Basin

2,260 Acres - Daniel Island / Cainhoy





BASIN OVERVIEW

Beresford Creek-Wando River Basin is located in Daniel Island/Cainhoy and covers approximately 2,260 acres. Beresford Creek-Wando River Basin is one of two basins in Daniel Island/Cainhoy.

A basin, sometimes called a watershed, is an area of land where all water flows to the same location, like a river or the ocean. The Wando River to the east and Clements Ferry Road defines this basin's edges.

The Urban Growth Boundary (UGB) is a line that surrounds the City of Charleston. Suburban or urban growth in rural areas outside of the UGB is discouraged. The southern portion of Cooper River Basin is inside of the UGB.

The once-remote Daniel Island/Cainhoy area was connected to the surrounding region via Interstate-526 in the late 1980's, spurring rapid development. In both of these areas, ecological considerations overlap with development and flood concerns. For development to continue without creating downstream impacts, the function of the natural system must be preserved.

MAP FEATURES

TIDAL MARSH

WETLANDS

CITY PARKS

URBAN GROWTH BOUNDARY WATER DRAINAGE BASINS

- STREETS

AFRICAN AMERICAN SETTLEMENT -- AREA

WATER PLAN PROJECTS

FEATURED

RECOMMENDED

COMMUNITY ADAPTATION PLAN

CITY STORMWATER PROJECTS

COMPLETED IN PROGRESS

IN DEVELOPMENT

PROJECTS

WATER PLAN

COMMUNITY ADAPTATION PLANS, AREA SPECIFIC AREAS: Point Hope, Rhodens Island, St Thomas Island, Brailsford, Ralston,

MARTIN CREEK Emergent Creek Restoration

Captains Island

TUXBERRY FARM Wetland Management & Conservation

BERESFORD CREEK Marsh Migration & Community Adaptation Plan

BERESFORD CREEK Emergent Creek Restoration & Wetland Management

DANIEL ISLAND STORM

DANIEL ISLAND TRAIL Marsh Migration & Wetland Management

DRAINAGE SYSTEM Stormwater Improvements **UPPER NOWELL**

Marsh Migration

MAINTENANCE

Existing Stormwater and Drainage infrastructure systems are maintained by City stormwater crews and subcontractors. This work includes ditch cleaning, outfall cleaning, drain cleaning via vac truck, post-storm clean up, mowing, trimming, pipe repair, and other rehabilitation efforts for the entire system.