

# Amendments to the Berkeley Charleston Dorchester Water Quality Management Plan

---

## 1996 Amendments

### **208 Amendment: Upper Dorchester County Regional Wastewater Treatment Facility**

**Date of Full COG Passage: January 29, 1996**

The 208 Water Quality Plan is amended to allow for the building of the upper Dorchester County WWTP to be located in Byrds SC. The land application system will relieve St. George and Harleyville of their excess flows and of any new growth. Wastewater from Ridgeville and Lieber Prison that is currently being treated at the lower Dorchester County WWTP will be treated at the upper Dorchester County WWTP.

The system will be built in two phases. Phase one will be built as soon as all permitting is completed and phase 2 will be built when the population shows a need.

### **208 Amendment: Unusual Attitudes/Churchill Mine**

**Date of Full COG Passage: June 28, 1996**

The 208 Water Quality Plan is amended to allow for the mining operation on John's Island that will involve the dewatering and discharge of groundwater and stormwater into Church Creek. This will be a temporary process and **will not** be renewed after five years. The mining will create a 10.27 acre lake and the surrounding land will be developed for residential use. Any deviation from the plan to monitor the groundwater levels and mitigate any damages and to monitor the fecal coliform levels in the creek will be considered not within the scope of the project and not included in the 208 Water Quality Management Plan amendment.

## **1997 Amendments**

### **208 Amendment: Charleston Environmental Recovery**

**Date of Full COG Passage: February 7, 1997**

The 208 Water Quality Plan is amended to allow for the building of the Charleston Environmental Recovery Land Application system as specified in the Preliminary Engineering Report. The facility will be used to treat domestic septage and grease from restaurant grease traps.

### **208 Amendment: Edisto Seafarms**

**Date of Full COG Passage: February 7, 1997**

The 208 Water Quality Plan is amended to allow for the discharge into Frampton Creek by Edisto Seafarms in their expansion of their facility to include a hatchery to produce mainly shrimp for raising.

### **208 Amendment: Marina Pump Out Facility General Permit**

**Date of Full COG Passage: February 7, 1997**

The 208 Water Quality Plan is amended to allow for the general permit streamlining the permitting process of marina pump out facilities. The Council of Governments approved this amendment with the stipulation that DHEC will inform the Council of Governments of a facility whenever it is to be tied into a public sewer provider's system.

### **208 Amendment: Charleston CPW-Plum Island Up Rating**

**Date of Full COG Passage: February 7, 1997**

The 208 Water Quality Plan is amended to allow for the up-rating of Charleston CPW's Plum Island WWTF from a flow of 27 MGD to a flow of 36 MGD. This up-rating effects flow only. The other permitted standards will remain the same.

### **208 Amendment: DuPont/Cooper River Plant, Hytrel Crastin Polyester Resin Plant Expansion**

**Date of Full COG Passage: June 30, 1997**

The 208 Water Quality Plan is amended to allow for the expansion of the plant's WWTF which will result in an approximate 10% increase in the flow and a 30% increase in the organic load as BOD. The proposed project will increase the permitted flow from 1.37 MGD to 1.4 MGD.

### **208 Amendment: Mt. Pleasant/Rifle Range Rd. WWTP Up-Rating**

**Date of Full COG Passage: September 15, 1997**

The 208 Water Quality Plan is amended to allow for the up-rating of the plant's WWTP which will result in an increase in flow from 3 MGD to 6 MGD.

## **1998 Amendments**

### **208 Amendment: US Fish and Wildlife/Bears Bluff National Fish Hatchery**

**Date of Full COG Passage: January 27, 1998**

The 208 Water Quality Plan is amended to allow a permit for the existing facility, which has been operating without a permit for several years.

---

## **1999 Amendments**

### **208 Amendment: Charleston CPW Service Area Expansion – Hunt Club Subdivision**

**Date of Full COG Passage: July 26, 1999**

The 208 Water Quality Plan is amended to increase the Charleston CPW service area to include the area off Bees Ferry Road that will develop as a residential development called Hunt Club Subdivision. The official service area map will be amended to reflect this change.

---

## **2000 Amendments**

### **208 Minor Amendment: New Century Industrial Park**

**Date of Full COG Passage: May 8, 2000**

The 208 Water Quality Plan is amended to recognize the service area agreement between the Town of St. George and Dorchester County Public Works to allow the Town of St. George to serve outside of its service area and provide wastewater treatment to the New Century Industrial Park.

### **208 Major Amendment: Charleston CPW 2.0 MGD Daniel Island Land Application WWTP**

**Date of Full COG Passage: May 8, 2000**

The 208 Water Quality Plan is amended to allow for the design of a 2 MGD wastewater treatment facility to serve Daniel Island, Thomas Island, and the Cainhoy Peninsula areas. Charleston CPW will be required to return to the Council of Governments to increase the discharge to the Cooper River above the currently permitted 0.5 MGD amount, based on the existing permit at the time of the application.

### **208 Minor Amendment: Treatment of Minor Amendments to the Water Quality Management Plan**

(NOTE: This change will be reflected in the next printing of the  
208 Regional Water Quality Management Plan)

**Date of Full COG Passage: May 8, 2000**

The 208 Water Quality Plan is amended to change the process for review of minor amendments to allow these amendments to be sent to the Executive Committee of the Full COG Board, which meets monthly. The Full COG Board agreed that the current process can cause delays to minor changes to the plan. The Minor Amendment process is amended to proceed as the following:

1. Public Advertisement of amendment in local newspaper.
2. 2-week Public Comment Period
3. If significant comments are received, a public hearing and review by the TAC will be required.
4. Review by the Environmental Committee
5. Review by the Executive Committee of the Full COG Board

### **208 Minor Amendment: Dorchester County Water Authority/Pinehill Acres Well**

**Date of Full COG Passage: June 9, 2000**

The 208 Water Quality Plan is amended to allow the Dorchester County Water Authority to expand its Pinehill Acres Well to include a filter system that would discharge filter backwash into the Platt Branch.

## **2000 Amendments (Continued)**

### **208 Minor Amendment: Harleyville WWTP Expansion – PER**

**Date of Full COG Passage: September 25, 2000**

The 208 Water Quality Plan is amended to allow the Harleyville WWTP to expand and upgrade by 0.03 MGD to meet current and future needs and permitting limits.

### **208 Minor Amendment: Hanahan and Brown Tract Wastewater Extension**

**Date of Full COG Passage: September 25, 2000**

The 208 Water Quality Plan is amended to allow Berkeley County Water and Sanitation Authority to take over the Town of Hanahan's WWTP and to divert the flow from the Hanahan system to Berkeley County's Lower Berkeley WWTP. Berkeley County will also be responsible for the Hanahan service area and will become the active management agency for the area.

---

## **2001 Amendments**

### **208 Minor Amendment: Briar's Creek Wastewater Treatment Facility**

**Date of Full COG Passage: May 7, 2001**

The 208 Water Quality Plan is amended to allow for the design of a 0.492 MGD wastewater treatment facility in the unserved area of John's Island to provide for the treatment of waste for 50 single family homes and an 18-hole golf course.

### **208 Minor Amendment: Cassique Golf Course Irrigation Reverse Osmosis Water Treatment Facility**

**Date of COG Executive Committee Passage: June 18, 2001**

The 208 Water Quality Plan is amended to allow for the design of a 0.170 MGD Reverse Osmosis water treatment facility to provide irrigation water to the Cassique Golf Course. The owner and operator of the facility will be Kiawah Island Utilities. Discharge from the treated water will be sent to an unnamed tributary that flows to the Kiawah River.

---

## **2002 Amendments**

### **208 Minor Amendment: Santee Cooper Cross Generating Station - Industrial Wastewater Facilities for the Addition of Unit 3**

**Date of Full COG Passage: December 17, 2002**

The 208 Water Quality Plan is amended to allow the Santee Cooper Cross Generating Station to expand by 0.8 MGD through the construction of industrial wastewater facilities for the addition of Unit 3. The new facilities will be discharged through already-permitted outfalls into the Diversion Canal.

## 2002 Amendments (Continued)

### 208 Major Amendment: Cooper River TMDL Allocation

**Date of Full COG Passage: August 29, 2002**

The 208 Water Quality Plan is amended to allow the waste load allocation of the Cooper River total maximum daily load (TMDL) in two phases. The first phase allows a total ultimate oxygen demand (UOD) of 78,125 lbs/day, an approximate 60 percent reduction from the existing permitted loading, to be written in the upcoming NPDES permit renewals. The second phase is contingent upon the completion and results of a 3-dimensional hydrodynamic and water quality model, to be completed within three years of the issuance of Phase 1 NPDES permits. Should the model not be completed, the reductions shown in the column labeled "Phase 2" in the table below will take effect in the next NPDES permit cycle. These reductions represent an approximate reduction of 70 percent from the existing permitted loading. The table below lists the UOD allotted to each discharger for Phase 1 and the possible reductions for Phase 2:

Discharger	UOD (lbs/day)	
	Phase 1	Phase 2
Moncks Corner WWTF	3,640	3,640
Central BCW&SA	1,138	1,138
DAK Americas	761	761
Bayer	7,542	7,542
City of Hanahan	0	0
BP Cooper River	2,229	2,229
Lower BCW&SA	8,202	4,530
MeadWestvaco	20,000	14,664
SC Ports	21.0	21.0
Daniel Island	402.7	402.7
NCSD	12,735	7,015
Plum Island WWTP	13,123	7,248
Center Street	4,209	4,209
Rifle Range	4,122	4,122
<b>TOTAL</b>	<b>78,125</b>	<b>57,521</b>

Because the allotment of the TMDL involves the expansion of certain wastewater treatment facilities, the 208 Plan is also amended to allow the following dischargers to expand their flows:

Discharger	Current Flow (MGD)	Expanded Flow (MGD)
Moncks Corner WWTF	1.6	3.2
Central BCW&SA	0.35	1.0
Bayer	5,824 lbs/day	7,542 lbs/day
Lower BCW&SA	15	22.5
Daniel Island	2	4
NCSD	27	34
Rifle Range	3	6

## **2003 Amendments**

### **208 Major Amendment: 8.0 MGD Dorchester County Land Application WWTP**

**Date of Full COG Passage: October 6, 2003**

The 208 Water Quality Plan is amended to allow for an expansion of the Dorchester County Wastewater Treatment Plant from a permitted capacity of 4.0 MGD to 8.0 MGD. The purpose of this project is to provide adequate sewage treatment capacity of 4.0 MGD to 8.0 MGD. The purpose of this project is to provide adequate sewage treatment capacity to meet the current and future needs of the Lower Dorchester County, while ensuring that the treated effluent discharges into the Ashley River via Coosaw Creek and does not adversely impact the water quality of the receiving stream.

### **208 Minor Amendment: Charleston CPW and Berkeley County Water and Sanitation Authority Service Area Agreement**

**Date of COG Passage: October 6, 2003**

The 208 Water Quality Plan is amended to allow the Charleston CPW to serve a portion of the Cainhoy Peninsula currently located in the Berkeley County Water and Sanitation Authority Service Area. The official service area map will be amended to reflect this change.

### **208 Minor Amendment: Summerville CPW and Berkeley County Water and Sanitation Authority Service Area Agreement**

**Date of COG Passage: October 6, 2003**

The 208 Water Quality Plan is amended to allow the Summerville CPW to serve an area along Interstate 26 that is on the Summerville side of the interstate but is in BCWSA's service area. BCWSA cannot provide service to this area. The official service area map will be amended to reflect this change.

## **2004 Amendments**

### **208 Minor Amendment: Charleston CPW Service Area Expansion-Marshall Creek Subdivision**

**Date of COG Passage: March 5, 2004**

The 208 Water Quality Plan is amended to allow the Charleston CPW service area to include properties off Brownswood Road on Johns Island that will develop as a residential development called Marshall Creek. These properties are identified by Charleston County by the following parcels numbers: 282-00-00-222, 282-00-00-225, 282-00-00-226, 282-00-00-228, 282-00-00-229, 282-00-00-230, and 282-00-00-232. The official service area map will be amended to reflect this change.

### **208 Minor Amendment: Charleston CPW Service Area Expansion- 2661 Rushland Landing Road, Johns Island.**

**Date of COG Passage: March 5, 2004**

The 208 Water Quality Plan is amended to allow the Charleston CPW service area to include 2661 Rushland Landing Road on Johns Island. This property is identified by Charleston County as parcel number 311-00-00-093. The official service area map will be amended to reflect this change.

---

## **2005 Amendments**

### **208 Minor Amendment: Charleston CPW Service Area Expansion Heyward Property on Johns Island**

**Date of COG Passage: February 18, 2005**

The 208 Water Quality Plan is amended to allow the Charleston CPW Service Area to include Charleston County parcel number 311-00-00-115, 311-00-00-116, and 311-00-00-026. These properties are located on River Road on Johns Island. The official service area map will be amended to reflect this change.

### **208 Minor Amendment: Charleston CPW Service Area Expansion Properties off of River Road on Johns Island**

**Date of COG Passage: May 6, 2005**

The 208 Water Quality Plan is amended to allow the Charleston CPW service area to include properties off of River Road identified by the following parcel numbers: 311-00-00-092, tracts A-1, A-2, A-3, A-4, A-5, A-6, A-7, A-8, and A-11. The official service area map will be amended to reflect this change.

### **208 Minor Amendment: Mount Pleasant Waterworks and Berkeley County Water and Sewer Authority Service Area Agreement**

**Date of COG Passage: June 16, 2005**

The 208 Water Quality Plan is amended to allow MPW to serve an area along Highway 41 in Berkeley County that is in BCWSA's service area. The official service area map will be amended to reflect this change. BCWSA cannot provide service to this area.

## **2005 Amendments (Continued)**

### **208 Minor Amendment: Town of St. Stephen and Berkeley County Water and Sewer Authority Service Area Agreement**

**Date of COG Passage: June 16, 2005**

The 208 Water Quality Plan is amended to allow BCWSA to purchase the St. Stephen's wastewater plant. The official service area map will be amended to reflect this change.

### **208 Minor Amendment: St. Stephen Wastewater Extension**

**Date of COG Passage: August 12, 2005**

The 208 Water Quality Plan is amended to allow Berkeley County Water and Sanitation Authority to purchase the St. Stephen's Plant and to divert the flow to Berkeley County's Lower Berkeley WWTP. Berkeley County will also be responsible for the St. Stephen service area and will become the active management agency for the area.

### **208 Major Amendment: Designation of the Town of Ravenel as a sewer service provider**

**Date of Full COG Passage: November 14, 2005**

The 208 Water Quality Plan is amended to allow the Town of Ravenel to become a designated sewer service provider. The Towns of Hollywood and Ravenel entered into a sewer agreement on October 26, 2004 for transportation of the Ravenel wastewater to Hollywood Pump Station No. 7, which in turn pumps to Commissioners of Public Works of the City of Charleston's (CPW) system. The agreement provides for initial reserve capacity of 320,000 gpd in the Hollywood Pump Station. In the agreement, the Town of Hollywood agreed to provide additional capacity when requested by the Town of Ravenel. CPW has approved 512,000 gpd of contractual wastewater capacity to serve the Town of Ravenel.

### **208 Major Amendment: 1.0 MGD Expansion of Daniel Island WWTF**

**Date of Full COG Passage: November 14, 2005**

The 208 Water Quality Plan is amended to allow the Commissioners of Public Works of the City of Charleston (CPW), to expand the Daniel Island Waster Treatment Facility (WWTF) to treat an average daily flow of 1.0 million gallons per day (MGD) of wastewater and discharge the treated effluent at the current NPDES discharge location, which is an unnamed creek that is a tributary to the Cooper River. The expanded plant capacity of 1.0 MGD is a temporary solution since CPW plans to extend the Charleston Peninsula tunnel system to Daniel Island in order to the transfer the wastewater to the Plum Island WWTF.

### **208 Major Amendment: Town of Ravenel WWTF Expansion**

**Date of Full COG Passage: November 14, 2005**

The 208 Water Quality Plan is amended to allow the Towns of Hollywood and Ravenel to enter into a sewer agreement for the transportation of the Ravenel wastewater to the Hollywood Pump Station No. 7, which in turn pump to Charleston Water Systems' system. CWS has approved 512,000gpd of contractual wastewater capacity to serve the Town of Ravenel.

## **2006 Amendments**

### **208 Minor Amendment: Charleston CWS Service Area Expansion On Johns Island**

**Date of Full COG Passage: December 12, 2006**

The 208 Water Quality Plan is amended to allow Charleston Water System (CWS) to be the designated sewer provider for unincorporated properties inside the new sewer service boundary line on Johns Island. The boundary closely follows the Urban Growth Boundary (U.G.B) line established by Charleston County, with the exception of several properties that were either previously annexed by the City of Charleston or had already received development approval. The plan prohibits Charleston Water System from providing sewer service to any property outside the line, even if the Urban Growth Boundary is moved or properties outside the line were to be annexed into the City of Charleston. The boundary can only be changed by a joint agreement between the COG, St. Johns Water Company, and Charleston Water System.

---

## **2007 Amendments**

### **208 Major Amendment: Berkeley County to Expand**

The 208 Water Quality Plan is amended to allow Berkeley County to construct of a new facility to replace the existing Central Berkeley facility. The permitted wastewater flow will be increased from the current permitted flow of 1.6 mgd to 6 mgd.

**Date of Full COG Passage: June 8, 2007**

### **208 Minor Amendment: Dorchester County Lower WWTP Expansion**

The 208 Water Quality Plan is amended to allow for a future expansion to 12.0 MGD of the Lower Dorchester County Wastewater Treatment Plan from its current capacity of 8 MGD.

**Date of Full COG Passage: November 30, 2007**

### **208 Minor Amendment: Charleston Water System Service Area Expansion – River Road Parcels (4)**

The 208 Water Quality Plan is amended to add four parcels along River Road to the Charleston Water Systems' established service area. The official service area map will be amended to reflect this change.

**Date of Full COG Passage: December 17, 2007**

## **2008 Amendments**

### **208 Major Amendment: Mt. Pleasant Rifle Range Road WWTP Expansion**

The 208 Water Quality Plan is amended to allow Mt. Pleasant Waterworks to expand the Rifle Range Road Wastewater Treatment Plant from 6 MGD to 10 MGD.

**Date of Full COG Passage: May 5, 2008**

### **208 Major Amendment: DAK Americas/DuPont**

The 208 Water Quality Plan is amended to allow a modification of DAK Americas' existing discharge permit and reallocation of the Total Maximum Daily Load (TMDL) for the Cooper River. The modification and reallocation are for DuPont's expansion to add a Kevlar Manufacturing facility to their existing plant.

**Date of Full COG Passage: March 28, 2008**

---

## **2009 Amendments**

### **208 Minor Amendment: Charleston Water System Daniel Island WWTP**

The 208 Water Quality Plan is amended to allow the Daniel Island Treatment Plant to reserve their waste load allocation in the 208 Plan after the plant is taken offline.

**Date of Full COG Passage: August 24, 2009**

### **208 Minor Amendment: North Charleston Sewer District and Summerville CPW Service Area Agreement**

The 208 Water Quality Plan is amended to allow NCSD to serve an area off Lincolnville Road in the Lakes of Summerville area currently located in the Summerville CPW Service Area. The official service area map will be amended to reflect this change.

**Date of Full COG Passage: August 24, 2009**

### **208 Major Amendment: Dorchester County St. George Wastewater Treatment Plant Expansion**

The 208 Water Quality Plan is amended to allow Dorchester County to expand the St. George Wastewater Treatment Plant from 0.80MGD to 1.80MGD.

**Date of Full COG Passage: December 4, 2009**

### **208 Major Amendment: Charleston County Designated Management Agency Status**

The 208 Water Quality Plan is amended to approve Charleston County as the designated management agency for the unincorporated areas of Charleston County.

**Date of Full COG Passage: November 6, 2009**

---

---

## **2010 Amendments**

### **208 Minor Amendment: Mt. Pleasant Waterworks Service Area Expansion – Guerins Bridge Road**

The 208 Water Quality Plan is amended to allow the Town of Mt. Pleasant to extend the existing service area of Mt. Pleasant Waterworks to an area that extends beyond the town limits to Guerins Bridge Road, including an area referred to as Woodville. The official service area map will be amended to reflect this change.

**Date of Full COG Passage: February 8, 2010**

---