

BENEFICIAL USE OF DREDGED MATERIAL DISPOSAL HISTORY

PORT FOURCHON, LA

2009 - 2019

The Bayou Lafourche, Louisiana, project was authorized by the Rivers and Harbors Act of August 30, 1935, which provided for a 6-foot deep by 60-foot wide navigational channel from Larose to the Gulf of Mexico with a jettied entrance at Belle Pass. The Rivers and Harbors Act of July 14, 1960, provided for a 12-foot deep by 125-foot wide navigational channel to the 12-foot contour in the Gulf of Mexico. Construction of the Port Fourchon, Lafourche Parish, Louisiana Project in southern Lafourche Parish, Louisiana, was authorized by Section 101(a)(16) of the Water Resources Development Act of 1996, which provided for an inshore channel, with a depth of -24 feet Mean Low Gulf (MLG) over a bottom width of 300 feet, in Belle Pass and Bayou Lafourche extending from the Gulf of Mexico through the developed area of Port Fourchon (Mile 0.0 to Mile 3.4), and an entrance channel extending approximately 1.3 miles from the gulf shore to the -26 foot MLG contour with a depth of -26 feet MLG over a bottom width of 300 feet.

Since 1990, dredged material has been placed unconfined at a shoreline nourishment disposal site on the west side of the channel behind the west jetty, and at the ocean dredged material disposal site (ODMDS). The shoreline nourishment disposal area extends from the beach into the Gulf of Mexico. The inner limit of the disposal area is 1500 feet west of the channel centerline. It was anticipated that between maintenance dredging events, dredged material placed at the shoreline nourishment placement sites would be dispersed by wave action and storm events onto the adjacent shoreline, into the littoral drift, and off shore. In 2000, the shoreline nourishment site was expanded to include the east side of the channel behind the east jetty. The ODMDS has not been used by U.S. Army Corps of Engineers, New Orleans District (CEMVN) since it assumed maintenance responsibility for the Port Fourchon entrance channel. 2001 marked the first CEMVN maintenance dredging effort for the Port Fourchon project.

2009

Background:

During the FY 2009 maintenance event (contract W912P8-08-C-0099: 3 October 2008 to 23 October 2008) for the entrance channel reach (jetties and bar channels), the cutterhead dredge MISSOURI H placed a total of approximately 638,628 cubic yards of dredged material removed from the Mile 0.5 to Mile -1.8 reach unconfined at a shoreline nourishment placement site located on the east side of the channel.

Dredged Material Placement Event:

Approximately 638,628 cubic yards of material was placed behind the east jetty for shoreline nourishment. Dredged material placed at the shoreline placement site was discharged parallel to the existing shoreline, into the surf zone, no closer than 100 feet from the top of the shoreline

bank, and no closer than 2,000 feet from the east jetty. Dredged material was limited to a maximum discharge initial elevation of +6.0 feet MLG.

Containment and Access:

Dredged material was placed unconfined at the shoreline placement site behind the east jetty. The dredge pipeline was laid over the existing jetty stone to access the placement site.

Results:

Approximately 10 acres of shoreline habitat were created behind the east jetty by this placement effort.



Port Fourchon BU Site: East Jetty Post-Placement (November 2007)



Port Fourchon BU Site: East Jetty (22 October 2008)

2012

Background:

During the FY 2012 maintenance event (contract W912P8-12-C-0020: 15 March 2012 to 9 June 2012) for the entrance channel reach (jetties and bar channels), the cutterhead dredge MISSOURI H placed a total of approximately 353,342 cubic yards of dredged material removed from the Mile 0.5 to Mile -1.8 reach unconfined at a shoreline nourishment placement site located on the west side of the channel.

Dredged Material Placement Event:

Approximately 353,342 cubic yards of material was placed behind the west jetty for shoreline nourishment. Dredged material placed at the shoreline placement site was discharged parallel to the existing shoreline, into the surf zone, no closer than 100 feet from the top of the shoreline bank, and no closer than 1,200 feet from the gulf end of the west jetty. Dredged material was limited to a maximum discharge initial elevation of +6.0 feet MLG.

Containment and Access:

Dredged material was placed unconfined at the shoreline placement site behind the west jetty. The dredge pipeline was laid over the existing jetty stone to access the placement site.

Results:

Approximately 13 acres of shoreline habitat were created behind the west jetty by this placement effort.



Port Fourchon BU Site: West Jetty Post-Placement (November 2012)



Port Fourchon BU Site: West Jetty (10 May 2012)



Port Fourchon BU Site: West Jetty (10 May 2012)

2014

Background:

During the FY 2014 maintenance event (contract W912P8-14-C-0027: 5 August 2014 to 18 August 2014) for the entrance channel reach (jetties and bar channels), the cutterhead dredge TOM JAMES placed a total of approximately 174,636 cubic yards of dredged material removed from the Mile 0.5 to Mile -1.8 reach unconfined at a shoreline nourishment placement site located on the west side of the channel.

Dredged Material Placement Event:

Approximately 174,636 cubic yards of material was placed behind the west jetty for shoreline nourishment. Dredged material placed at the shoreline placement site was discharged parallel to the existing shoreline, into the surf zone, no closer than 100 feet from the top of the shoreline bank, and no closer than 1,200 feet from the gulf end of the west jetty. Dredged material was limited to a maximum discharge initial elevation of +6.0 feet MLG.

Containment and Access:

Dredged material was placed unconfined at the shoreline placement site behind the west jetty. The dredge pipeline was laid over the existing jetty stone to access the placement site.

Results:

Approximately 1 acre of shoreline habitat was created behind the west jetty by this placement effort.



Port Fourchon BU Site: West Jetty Post-Placement (November 2014)

2015

Background:

During the FY 2015 maintenance event (contract W912P8-15-C-0048: 21 August 2015 to 12 September 2015) for the entrance channel reach (jetties and bar channels), the cutterhead dredge CAPTAIN FRANK placed a total of approximately 878,946 cubic yards of dredged material removed from the Mile 0.5 to Mile -1.8 reach unconfined at a shoreline nourishment placement site located on the west side of the channel.

Dredged Material Placement Event:

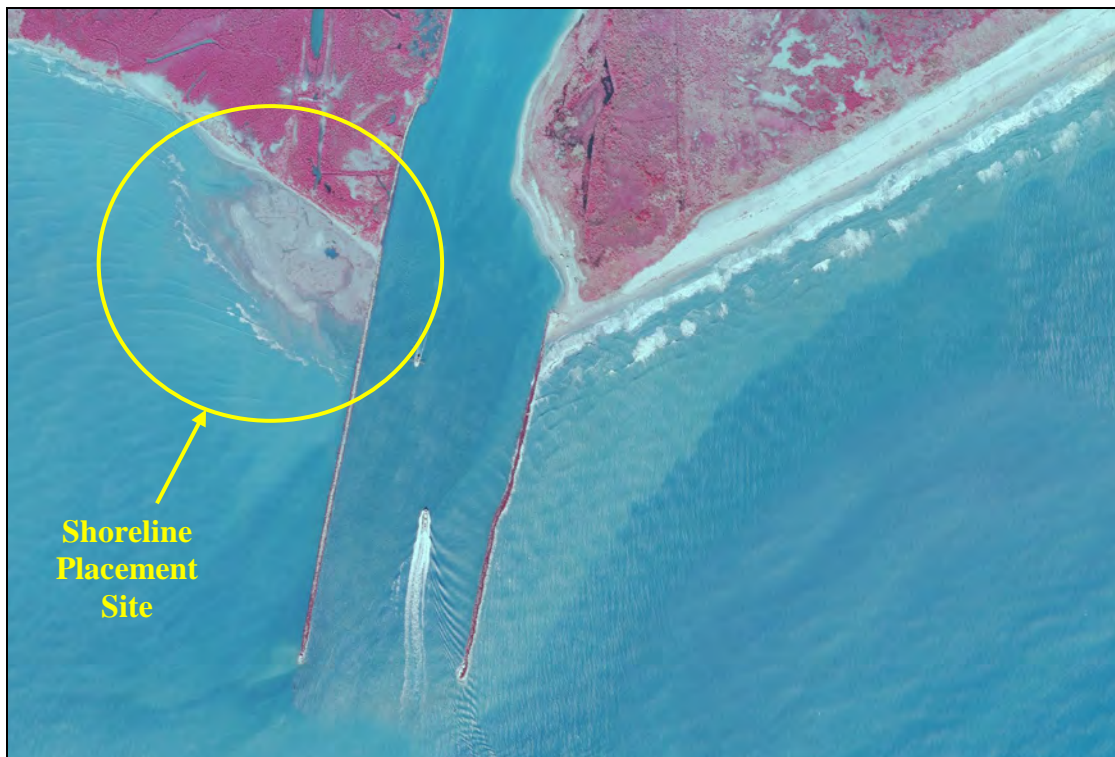
Approximately 878,946 cubic yards of material was placed behind the west jetty for shoreline nourishment. Dredged material placed at the shoreline placement site was discharged parallel to the existing shoreline, into the surf zone, no closer than 100 feet from the top of the shoreline bank, and no closer than 1,200 feet from the gulf end of the west jetty. Dredged material was limited to a maximum discharge initial elevation of +6.0 feet MLG.

Containment and Access:

Dredged material was placed unconfined at the shoreline placement site behind the west jetty. The dredge pipeline was laid over the existing jetty stone to access the placement site.

Results:

Approximately 17 acres of shoreline habitat were created behind the west jetty by this placement effort.



Port Fourchon BU Site: East Jetty Post-Placement (November 2015)

2017

Background:

During the FY 2017 maintenance event (contract W912P8-17-C-0024: 13 June 2017 to 19 June 2017) for the entrance channel reach (jetties and bar channels), the cutterhead dredge CALIFORNIA placed a total of approximately 402,817 cubic yards of dredged material removed from the Mile 0.5 to Mile -1.8 reach unconfined at a shoreline nourishment placement site located on the east side of the channel.

Dredged Material Placement Event:

Approximately 402,817 cubic yards of material was placed behind the east jetty for shoreline nourishment. Dredged material placed at the shoreline placement site was discharged parallel to the existing shoreline, into the surf zone, no closer than 100 feet from the top of the shoreline bank, and no farther than 300 feet seaward of the waterline (wherever the waterline was located at the time of the disposal operations). Dredged material was limited to a maximum discharge initial elevation of +6.0 feet MLG.

Containment and Access:

Dredged material was placed unconfined at the shoreline placement site behind the east jetty. The dredge pipeline was laid over the existing jetty stone to access the placement site.

Results:

No measureable acres of coastal habitat were created by this placement effort.



Port Fourchon BU Site: East Jetty Post-Placement (November 2017)

2019

Background:

During the FY 2019 maintenance event (contract W912P8-19-C-0014: 27 January 2019 to 23 March 2019) for the entrance channel reach (jetties and bar channels), the cutterhead dredge ROBERT M WHITE placed a total of approximately 1,282,560 cubic yards of dredged material removed from the Mile 0.5 to Mile -1.8 reach unconfined at a shoreline nourishment placement site located on the east side of the channel.

Dredged Material Placement Event:

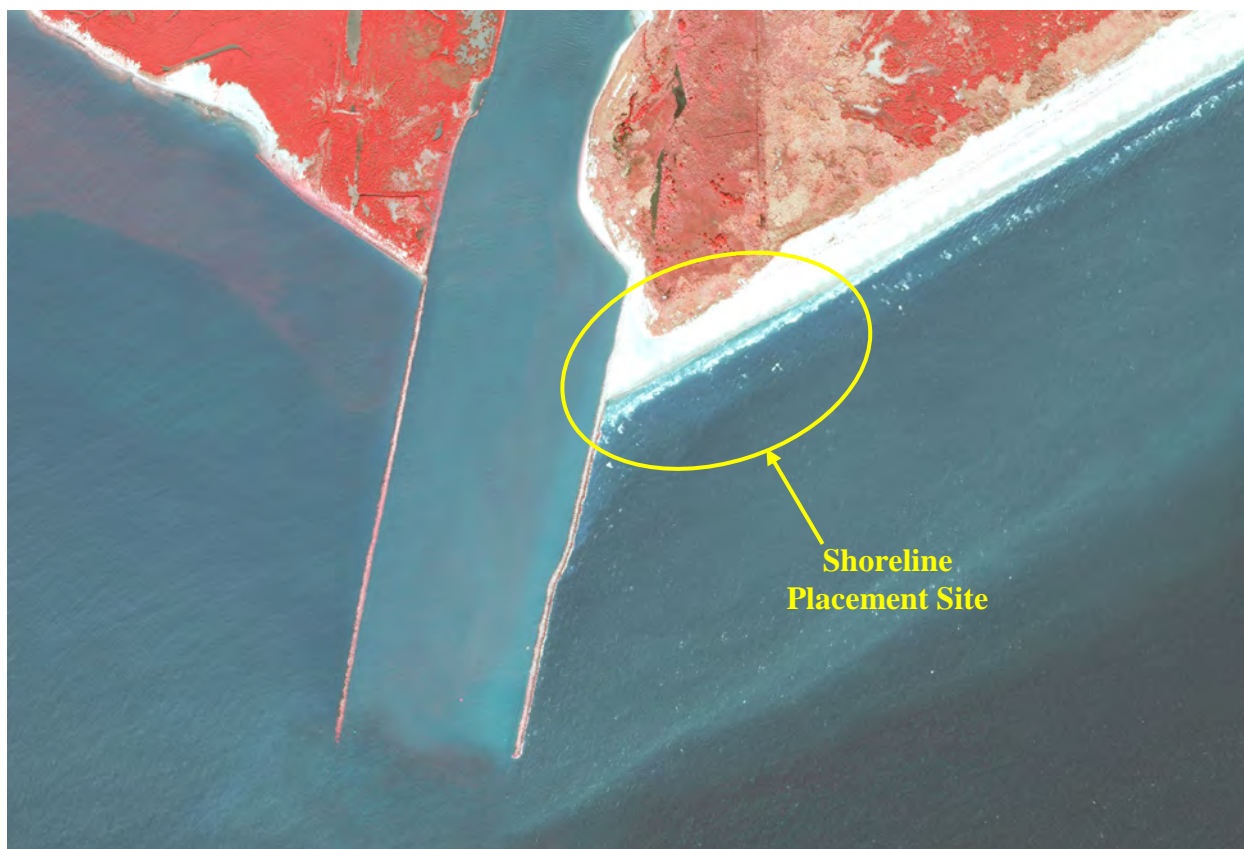
Approximately 1,282,560 cubic yards of material was placed behind the east jetty for shoreline nourishment. Dredged material placed at the shoreline placement site was discharged parallel to the existing shoreline, into the surf zone, no closer than 100 feet from the top of the shoreline bank, and no farther than 300 feet seaward of the waterline (wherever the waterline was located at the time of the disposal operations). Dredged material was limited to a maximum discharge initial elevation of +6.0 feet MLG.

Containment and Access:

Dredged material was placed unconfined at the shoreline placement site behind the east jetty. The dredge pipeline was laid over the existing jetty stone to access the placement site.

Results:

Approximately 5 acres of shoreline habitat were created behind the east jetty by this placement effort.



Port Fourchon BU Site: East Jetty Post-Placement (January 2020)



Port Fourchon BU Site: East Jetty Placement (February 2019)