Employment, Contracts and Procurement Updates
April 16, 2019
Employment Updates

- 03.25.19 – Christopher Cochrane – Oyster Aquaculture, Contractor
# Contracts and Procurements for April 2019

## Commodity Contracts

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Procurement Method</th>
<th>Amount</th>
<th>Term</th>
<th>Funding Source</th>
<th>Commodity/Service Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>J&amp;W Marine Enterprises, Inc</td>
<td>Reverse Auction</td>
<td>$399,960.00</td>
<td>03.22.2019 – 03.21.2020</td>
<td>100% Bonnet Carre</td>
<td>Furnish and Deploy Oyster Shell for the Shellfish Bureau</td>
</tr>
<tr>
<td>Spat-Tech of Mississippi, LLC</td>
<td>Exemption</td>
<td>$3,000,000.00</td>
<td>05.01.2019 – 04.30.2020</td>
<td>100% GOMESA</td>
<td>Oyster Seed Set for the Executive Office</td>
</tr>
</tbody>
</table>

## Service Contracts

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Procurement Method</th>
<th>Amount</th>
<th>Term</th>
<th>Funding Source</th>
<th>Commodity/Service Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cypress Environmental Engineering &amp; Science</td>
<td>Request for Proposals</td>
<td>$49,425.00 for Amendment Two, Phase Three, Year One (overall total $147,839.00)</td>
<td>05.01.2017 – 04.30.2020</td>
<td>100% NOAA</td>
<td>Ecological Risk Assessment and Land Use Management Plan for Coastal Preserves</td>
</tr>
</tbody>
</table>

## Currently Advertised Procurements

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Procurement Method</th>
<th>Amount</th>
<th>Commodity/Service Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Fisheries</td>
<td>Request for Applications</td>
<td>$42,026.56</td>
<td>Contract under 75K, Does not go before the PPRB for approval.</td>
</tr>
</tbody>
</table>
Alternative Bulkhead Design Program

Commission of Marine Resources Meeting
Paul F. Mickle Ph.D.
April 16, 2019
D.3.
• Program is not a regulatory tool
• Bulkheads have been the staple for shoreline management for private waterfront landowners
• National movement for living shorelines

Spatial Analysis completed by MDMR staff: Karen Clark and Robert Gruba
Shoreline Hardening

- Habitat shifting
- Loss of ecosystem services
- Biological production loss
- Large amount of literature supporting this trend

Lowe and Peterson 2015

Beck et al. 2001
The Program

Main Objective: To give marine contractors the specialized skillset to provide shoreline stabilization needs of private homeowners while regenerating our marsh production to historic roles.

Comprises Three Phases

Phase 1 - Certification course and initial design creation
Phase 2 - Design implementation and permitting assistance
Phase 3 - Monitoring and promotion
Will Marine Contractors do ABDs?

• ABDs are better
  • New techniques for contractors and free training
  • More tools for contractors to promote
  • Contractors who are certified will have a niche in a competitive market
  • Homeowners will demand them after being educated and exposed to the benefits
  • Permitting unknowns will be removed from the certified contractors
Many New Design Types
Measuring Success

- Phase three of the program will ensure biological monitoring and outreach be presented as these ABDs are installed.
- Spatial monitoring on Bay St. Louis and Back Bay to see how the trends in ABS vs. Bulkheads are going.
- Site specific monitoring of production.
- Overall MS sound production:
  - Current monitoring programs
  - Recreational and Commercial landings.
Where We Are In the Process

- RFQs for engineering and botanist have been advertised and merit reviews completed
- Contracts have been finalized
  - Anchor QEA, LLC (Engineering)
  - Eric Sparks (Botanist)
- May-October 2019 will be certification course development and early design creation
- First certification course will be held end of 2019
- Phase 2 and 3 will hopefully be initiated by 2020
Questions?
Request for Permit Extension by:
Bosarge Boats, Inc.
File: DMR-140096

• Location: Bayou Casotte in Pascagoula, Jackson County, MS

• Use District: (I) Industrial Use District

• Agent: Compton Engineering, Inc.
Project Description

- **Dredging:**
  - 870’ x 30’-80’
  - Current depth: 0’ – 4’ below MLW
  - Proposed depth: 3’ – 10’ below MLW
  - No more than 2,500 cubic yards of material will be removed
Project Description

• Construction:
  • 870 linear feet of bulkhead
  • 212 linear feet of flow-through bulkhead
  • 1 mooring piling
Project Description

- **Wetland Fill**
  - 10,615 square feet of unvegetated tidal waterbottoms
  - 106 square feet of tidal marsh
  - 1,680 square feet of non-tidal wetlands

- **Proposed Wetland Excavation:**
  - 1,825 square feet of tidal marsh
  - 1,680 square feet of vegetated non-tidal wetlands
Project Chronology

- **February 18, 2014**: Project was presented to the CMR and was approved as recommended

- **March 12, 2019**: Bosarge Boats, Inc. requested a Permit Extension
Recommendation

• Based upon departmental review and evaluation, staff recommends that the CMR approve the applicant’s request.
Mississippi
Department of Marine Resources
Agency Financial Results
as of March 31, 2019
Commission on Marine Resources
April 16, 2019
Key Metrics:

- State Revenue of $4.8M
  - Waiting on Appropriations of $1M from Treasury
- Agency Revenue of $20.6M
- State Net Income of ($662K)
- Agency Net Income of $3.7M

### MISSISSIPPI DEPARTMENT OF MARINE RESOURCES

#### Income Statement - Fiscal Year 2019

As of March 31, 2019

<table>
<thead>
<tr>
<th></th>
<th>State</th>
<th>NFWF:</th>
<th>Operating Subtotal</th>
<th>Tidelands</th>
<th>Total DMR</th>
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<tbody>
<tr>
<td><strong>Revenue:</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Transfer in from Other Governments</td>
<td>-</td>
<td>37,837</td>
<td>37,837</td>
<td>10,000,000</td>
<td>10,037,837</td>
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<tr>
<td>Off-road Fuel Tax</td>
<td>3,050,000</td>
<td>-</td>
<td>3,050,000</td>
<td>-</td>
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<td>Federal/NonFederal Grants</td>
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<td>5,052,896</td>
<td>5,056,096</td>
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<td>Sales Revenue</td>
<td>607,216</td>
<td>1,026</td>
<td>608,242</td>
<td>2,045</td>
<td>610,286</td>
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<td>Indirect Cost Recovery</td>
<td>674,001</td>
<td>-</td>
<td>674,001</td>
<td>-</td>
<td>674,001</td>
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<tr>
<td>Other Revenue</td>
<td>533,846</td>
<td>342,065</td>
<td>875,911</td>
<td>315,009</td>
<td>1,190,920</td>
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<td><strong>Current Budget Year Revenue:</strong></td>
<td>4,868,263</td>
<td>5,433,824</td>
<td>10,302,087</td>
<td>10,317,054</td>
<td>20,619,140</td>
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<tr>
<td><strong>Expenditures:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries, Wages, Fringe</td>
<td>3,998,118</td>
<td>1,710,946</td>
<td>5,709,063</td>
<td>775,065</td>
<td>6,484,128</td>
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<tr>
<td>Travel</td>
<td>21,330</td>
<td>36,699</td>
<td>58,028</td>
<td>31,008</td>
<td>89,036</td>
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<tr>
<td>Contractual Services</td>
<td>578,560</td>
<td>1,120,590</td>
<td>1,699,150</td>
<td>569,412</td>
<td>2,268,562</td>
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<tr>
<td>Commodities</td>
<td>237,982</td>
<td>1,413,953</td>
<td>1,651,935</td>
<td>125,952</td>
<td>1,777,887</td>
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<tr>
<td>Other than Equipment</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Equipment</td>
<td>317,864</td>
<td>197,811</td>
<td>509,675</td>
<td>34,121</td>
<td>543,796</td>
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<td>Vehicles</td>
<td>-</td>
<td>65,578</td>
<td>65,578</td>
<td>-</td>
<td>65,578</td>
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<tr>
<td>Wireless Devices</td>
<td>351</td>
<td>433</td>
<td>785</td>
<td>274</td>
<td>1,058</td>
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<tr>
<td>Subsidies, Loans, and Grants</td>
<td>382,697</td>
<td>1,586,084</td>
<td>1,968,781</td>
<td>3,686,276</td>
<td>5,655,056</td>
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<tr>
<td><strong>Current Budget Year Expenditures:</strong></td>
<td>5,530,902</td>
<td>6,132,093</td>
<td>11,662,994</td>
<td>5,222,108</td>
<td>16,885,102</td>
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<tr>
<td><strong>Current Budget Year Net Income/(Loss):</strong></td>
<td>$ (662,639)</td>
<td>($698,269)</td>
<td>$ (1,360,908)</td>
<td>$ 5,094,946</td>
<td>$ 3,734,038</td>
</tr>
</tbody>
</table>
Financial Budget Comparison

- After nine months of Fiscal Year 2019:
  - Operating Funds have 70.1% of Budget remaining
  - Tidelands Trust Fund has 47.8% of Budget remaining

### MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
2019 Budget Comparison
As of March 31, 2019

<table>
<thead>
<tr>
<th>Expenditures:</th>
<th>Actual Year to Date Expenditures</th>
<th>Budget Year Totals</th>
<th>Percent Remaining</th>
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<tbody>
<tr>
<td></td>
<td>Operating</td>
<td>Tidelands</td>
<td>Total</td>
</tr>
<tr>
<td>Salaries, Wages, Fringe</td>
<td>$5,709,063</td>
<td>$775,065</td>
<td>$6,484,128</td>
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<td>$96,036</td>
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<td>$1,699,150</td>
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<td>Commodities</td>
<td>$1,651,935</td>
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<td>$1,777,887</td>
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<tr>
<td>Equipment</td>
<td>$509,675</td>
<td>$34,121</td>
<td>$543,796</td>
</tr>
<tr>
<td>Vehicles</td>
<td>$65,578</td>
<td>$65,578</td>
<td>$131,156</td>
</tr>
<tr>
<td>Wireless Devices</td>
<td>$785</td>
<td>$274</td>
<td>$1,058</td>
</tr>
<tr>
<td>Subsidies, Loans, and Grants</td>
<td>$1,968,781</td>
<td>$3,686,276</td>
<td>$5,655,056</td>
</tr>
<tr>
<td>Total Expenditures</td>
<td>$11,662,994</td>
<td>$5,222,108</td>
<td>$16,885,102</td>
</tr>
</tbody>
</table>
Final Adoption Title 22 Part 7 Federal Compliance Regulations for Spanish Mackerel, Hogfish, and Swordfish

Trevor Moncrief
April 16, 2019
Background

• At the March 2019 CMR meeting the following motion was passed:

  • **Motion:** To proceed with a Notice of Intent for regulatory changes to Title 22 Part 7 Chapters 8 and 9 regarding changes to Spanish Mackerel, Hogfish, and Swordfish size limits for federal compliance.
CMR Passed Notice of Intent on March 19, 2019

Notice of Intent Filed with the SOS on March 19, 2019

March 19, 2019 MDMR Web Page Notice

Legal Notice Appeared in the Sun Herald on March 21, 2019.
Public Comments on Title 22 Part 7

- To date no public comments have been received.
Chapter 8 Recreational Bag, Possession and Size Limits

102.14 Spanish Mackerel (*Scomberomorus maculatus*) – twelve (12) inches (fork length).

102.15 King Mackerel (*Scomberomorus cavalla*) – twenty-four (24) inches (fork length).

102.16 flounders (*Paralichthys sp.*) – twelve (12) inches (total length).

102.17 small coastal sharks – twenty-five (25) inches total length.

102.18 large coastal sharks – thirty-seven (37) inches total length.

102.19 Lesser Amberjack and Banded Rudderfish – may possess fish between fourteen (14) inches (fork length) to twenty-two (22) inches fork length.

102.20 Bigeye Tuna (*Thunnus obesus*) – twenty-seven (27) inches as measured from the tip of the upper jaw to the fork of the tail along the contour of the middle of the body (curved fork length).

102.21 Yellowfin Tuna (*Thunnus albacares*) – twenty-seven (27) inches as measured from the tip of the upper jaw to the fork of the tail along the contour of the middle of the body (curved fork length).

102.22 Blue Marlin (*Makaira nigricans*) – ninety-nine (99) inches as measured from the tip of the lower jaw to the fork of the tail (lower jaw fork length).

102.23 White Marlin (*Tetrapturus albidus*) – sixty-six (66) inches as measured from the tip of the lower jaw to the fork of the tail (lower jaw fork length).

102.24 Sailfish (*Istiophorus platypterus*) – sixty-three (63) inches as measured from the tip of the lower jaw to the fork of the tail (lower jaw fork length).

102.25 Hogfish (*Lachnolaimus maximus*) – twelve (12) fourteen (14) inches (fork length).

102.26 Tripletail (*Lobotes surinamensis*) eighteen (18) inches total length.

102.27 Sheepshead (*Archosargus probatocephalus*) fourteen (14) inches total length.

102.28 Swordfish (*Xiphias gladius*) – forty-seven (47) inches as measured from the tip of the lower jaw to the fork of the tail (lower jaw fork length).
Chapter 09 Commercial Size, Possession and Catch Limits

100.06 Spanish Mackerel (*Scomberomorus maculatus*) – fourteen (14) twelve (12) inches (fork length).

100.23 Hogfish (*Lachnolaimus maximus*) – twelve (12) fourteen (14) inches (fork length).
Required:

A motion to proceed with Final Adoption for regulatory changes to Title 22 Part 7 Chapters 8 and 9 regarding changes to Spanish Mackerel, Hogfish, and Swordfish size limits for federal compliance.
Final Adoption Tarpon
Title 22 Part 7

Trevor Moncrief
April 16, 2019
At the March 2019 CMR meeting the following motion was passed:

**Motion**: To proceed with a Notice of Intent for regulatory changes to Title 22 Part 7 Chapter 8 regarding the size limit, bag limit, and catch requirements for Atlantic Tarpon.
CMR Passed Notice of Intent on March 19, 2019

Notice of Intent Filed with the SOS on March 19, 2019

March 19, 2019 MDMR Web Page Notice

Legal Notice Appeared in the Sun Herald on March 21, 2019.
Public Comments on Title 22 Part 7

- To date no public comments have been received.
Chapter 8 Recreational Bag, Possession and Size Limits

100.21 It shall be unlawful for recreational fishermen to possess more than one (1) Atlantic Tarpon (*Megalops atlanticus*) per vessel per day.

102.28 Atlantic Tarpon (*Megalops atlanticus*) – seventy-five (75) inches fork length.

105 It shall be unlawful for any fisherman to remove an Atlantic Tarpon (*Megalops atlanticus*) over the length of forty (40) inches from the water unless the intent is to harvest within the limits defined in Sections 100 and 102 of this chapter.
Required:

A motion to proceed with Final Adoption for regulatory changes to Title 22 Part 7 Chapter 8 regarding the size limit, bag limit, and catch requirements for Atlantic Tarpon.
Update on the Closing of the 2018-19 Oyster Season

Erik Broussard
April 16, 2019
In the February 2019 CMR meeting the following motion was made:

**Motion:** To give the Executive Director the authority not to extend past March 30th, to open oyster reefs in the Western Sound that have not met the quota and once the management criteria has been met.
<table>
<thead>
<tr>
<th>Reef</th>
<th>2018 Est. Sack Total</th>
<th>Sacks @30% Harvest</th>
<th>Harvest To-date (4-2-19)</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass Tonging</td>
<td>652</td>
<td>196</td>
<td>0</td>
<td>Open total of 7 days</td>
</tr>
<tr>
<td>Pass Dredging</td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>Open total of 7 days</td>
</tr>
<tr>
<td>Henderson Point</td>
<td>2,064</td>
<td>619</td>
<td>349</td>
<td>Open total of 7 days</td>
</tr>
<tr>
<td>Pass Marianne</td>
<td>1,309</td>
<td>393</td>
<td>38</td>
<td>Open total of 7 days</td>
</tr>
<tr>
<td>Telegraph</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Open total of 7 days</td>
</tr>
<tr>
<td>St. Joe¹</td>
<td>21,230</td>
<td>6,369</td>
<td>3,357</td>
<td>Open total of 7 days</td>
</tr>
<tr>
<td>St. Stanislaus</td>
<td>1,427</td>
<td>428</td>
<td>95</td>
<td>Open total of 7 days</td>
</tr>
<tr>
<td>Waveland</td>
<td>29</td>
<td>9</td>
<td>95</td>
<td>Open total of 7 days</td>
</tr>
<tr>
<td>Between the Bridges</td>
<td>550</td>
<td>165</td>
<td>0</td>
<td>Not opened</td>
</tr>
<tr>
<td><strong>Western Reefs</strong></td>
<td><strong>27,261</strong></td>
<td><strong>8,178</strong></td>
<td><strong>3,846</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Biloxi Bay Cultch Plant</strong></td>
<td><strong>675</strong></td>
<td><strong>203</strong></td>
<td><strong>0</strong></td>
<td></td>
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<tr>
<td><strong>TOTALS</strong></td>
<td><strong>27,936</strong></td>
<td><strong>8,381</strong></td>
<td><strong>3,846</strong></td>
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</table>
Season Recommendation

A motion to close the 2018-2019 Oyster Season on Wednesday April 17, 2019.
Briefing on Amendments 50A: State Management Program for Recreational Red Snapper and 50C: Mississippi Management for Recreational Red Snapper

Carly Somerset
April 16, 2019
Overview

• The Gulf Council met April 1 – 4, in Biloxi and took final action on Reef Fish Amendment 50A: State Management for Recreational Red Snapper.

• Each of the five Gulf states had their own individual state amendments within the overall Amendment 50A for state management.
Amendment 50A: State Management Program for Recreational Red Snapper

- The Council chose to delegate management authority of the private angling component of the recreational Red Snapper fishery to each state.
- The federal for-hire sector will still be federally managed.
- Each state has been allocated a portion of the overall recreational quota.
- The suggested management changes within the amendments will be sent to the Secretary of Commerce for approval prior to implementation.
Amendment 50C: Mississippi State Management for Recreational Red Snapper

- Delegates authority to the State of Mississippi to manage the recreational fishing sector of Red Snapper in federal waters in the Gulf of Mexico adjacent to Mississippi territorial waters.
- Mississippi will receive 3.55% allocation of the recreational quota beginning in 2020.
- For the 2019 Red Snapper season Mississippi’s recreational quota is 151,584 lbs as granted through the EFP.
Questions?
Bonnet Carré Spillway Update

Charlie Robertson

April 16, 2019

K.5.
### Analysis of Openings

#### Historical Context
- Became operational in 1931
- Been opened every decade except in 1960's
- Operational-2007, open average of every 9.6 years
- 2008-present, open average of every 2.4 years
- Opened 3 of last 4 years
- 2011 Fisheries Failure declared
- 2016 & 2018 no significant impacts to fisheries
- Duration and water temperatures **major** factors
- Initial monitoring analysis indicates impacts; however, data is still being processed.

<table>
<thead>
<tr>
<th>No. of Openings</th>
<th>Year</th>
<th>Days</th>
<th>Bays Opened</th>
<th>Ideal Flow Capacity (Cu ft/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1937</td>
<td>48</td>
<td>285</td>
<td>203,571 cu ft/s</td>
</tr>
<tr>
<td>2</td>
<td>1945</td>
<td>57</td>
<td>350</td>
<td>250,000 cu ft/s</td>
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<td>3</td>
<td>1950</td>
<td>38</td>
<td>350</td>
<td>250,000 cu ft/s</td>
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<tr>
<td>4</td>
<td>1973</td>
<td>75</td>
<td>350</td>
<td>250,000 cu ft/s</td>
</tr>
<tr>
<td>5</td>
<td>1975</td>
<td>13</td>
<td>225</td>
<td>160,714 cu ft/s</td>
</tr>
<tr>
<td>6</td>
<td>1979</td>
<td>45</td>
<td>350</td>
<td>250,000 cu ft/s</td>
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<td>7</td>
<td>1983</td>
<td>35</td>
<td>350</td>
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<td>8</td>
<td>1997</td>
<td>31</td>
<td>298</td>
<td>212,857 cu ft/s</td>
</tr>
<tr>
<td>9</td>
<td>2008</td>
<td>31</td>
<td>160</td>
<td>114,286 cu ft/s</td>
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<tr>
<td>10</td>
<td>2011</td>
<td>42</td>
<td>330</td>
<td>235,714 cu ft/s</td>
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<tr>
<td>11</td>
<td>2016</td>
<td>22</td>
<td>210</td>
<td>203,000 cu ft/s</td>
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<tr>
<td>12</td>
<td>2018</td>
<td>30</td>
<td>186</td>
<td>196,000 cu ft/s</td>
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<tr>
<td>13</td>
<td>2019</td>
<td>43</td>
<td>206</td>
<td>213,000 cu ft/s</td>
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</tbody>
</table>
Bonnet Carré Spillway Gates and Flow Rate Update
Flood stage of Pearl River

Closing criteria for ALL reefs

IIA, IIB, IID, IIE and IB

Above 17 ft flood stage is >50,000 cfs

Effects of Pearl River

BC flow > 207,000 cfs
Mississippi Bonne Carre Monitoring Stations
MDMR Shellfish Preliminary Sample Data

The bar chart shows the total number of oysters at various reefs. The reefs include Henderson Point, Pass Christian Dredging, Pass Christian Tonging, Pass Marianne, St Joe, and St Stanislaus. The categories on the y-axis are Live, Recent Dead, and Past Dead. The chart highlights the variation in oyster numbers across different reefs and categories.
MODIS Satellite Imagery

March 6, 2019

March 20, 2019
MODIS Satellite Imagery

April 11, 2019
QUESTIONS?