

**DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL MANAGEMENT
P.O. BOX 44487
BATON ROUGE, LOUISIANA 70804-4487
(225) 342-7591
1-800-267-4019**

COASTAL USE AUTHORIZATION/CONSISTENCY DETERMINATION

C.U.P No.: **P20190677 (Revised)**

NAME : **COASTAL PROTECTION AND RESTORATION AUTHORITY**
COASTAL PROTECTION AND RESTORATION AUTHORITY
P.O. BOX 44027
BATON ROUGE, LA 70804

LOCATION: **Saint Bernard Parish, LA**
Lat. 29° 46' 01.11"N, Long. 89° 46' 59.38"W (see plats for specific boring coordinates); Sec. 37, T15S-R14E; adjacent to the community of Delacroix, LA

DESCRIPTION: Proposed soil borings and cone penetrometer test soundings to obtain geotechnical related data for use in the design and constructibility of two marsh creation cells and a terrace field (BS-0037 - East Delacroix Marsh Creation and Terracing Project). Approx. 7 cu. yds. of native material will be removed for testing and approx. 7 cu. yds. of cement-bentonite grout will be used for backfill.

REVISION 1: Proposed 7 additional borings on an existing berm (see plats for specific boring coordinates). One additional cu. yd. of native material will be removed for testing and one additional cu. yd. of cement-bentonite grout will be used for backfill.

This revised determination supersedes the original determination issued on July 24, 2019.

Pursuant to the Louisiana Administrative Code, Title 43, Part 1, Chapter 7, §723.B.8.b, it has been determined that the proposed activity has no direct and significant impact on coastal waters and a Coastal Use Permit will not be required.

This revised determination is valid for two (2) years from the date of the signature of the Secretary or his designee on the original determination which was July 24, 2019. If the proposed activity is not initiated within this two year period, this revised determination will expire and the applicant will be required to submit a new application. The applicant will notify the Office of Coastal Management of the date on which initiation of the proposed activity began by entering a commencement date through the online system, or by mailing said information to OCM.

This revised determination has been made based on the information provided in your application showing that either no dredging or limited dredging would be necessary to access to the work site. Dredging beyond that described in your application, including prop washing, wheel washing, or otherwise displacing water bottom material is not authorized by this determination. If site conditions are such that dredging beyond that authorized is necessary, a revised determination including agency or public notice if applicable, will be required.

This revised determination has been made on the basis of information provided by your application. If it is later established that you furnished erroneous data, you may be directed to alter or modify your plans, to remove structures you have installed, and/or to restore the work area to pre-project conditions at your own expense. If it is established that you knowingly furnished erroneous data, you could also be subject to legal action.

This determination does not eliminate the need to obtain a permit from the United States Army, Corps of Engineers or any other Federal, state or local approval that may be required by law. The drawings submitted

with your referenced application are attached hereto and made a part of the record. If you have any questions regarding this authorization, please contact our office (225) 342-7591 or (800) 267-4019.

***** End of Determination *****

By accepting this revised determination the applicant agrees to its terms and conditions.

I affix my signature and issue this revised determination this 27th day of January, 2020.

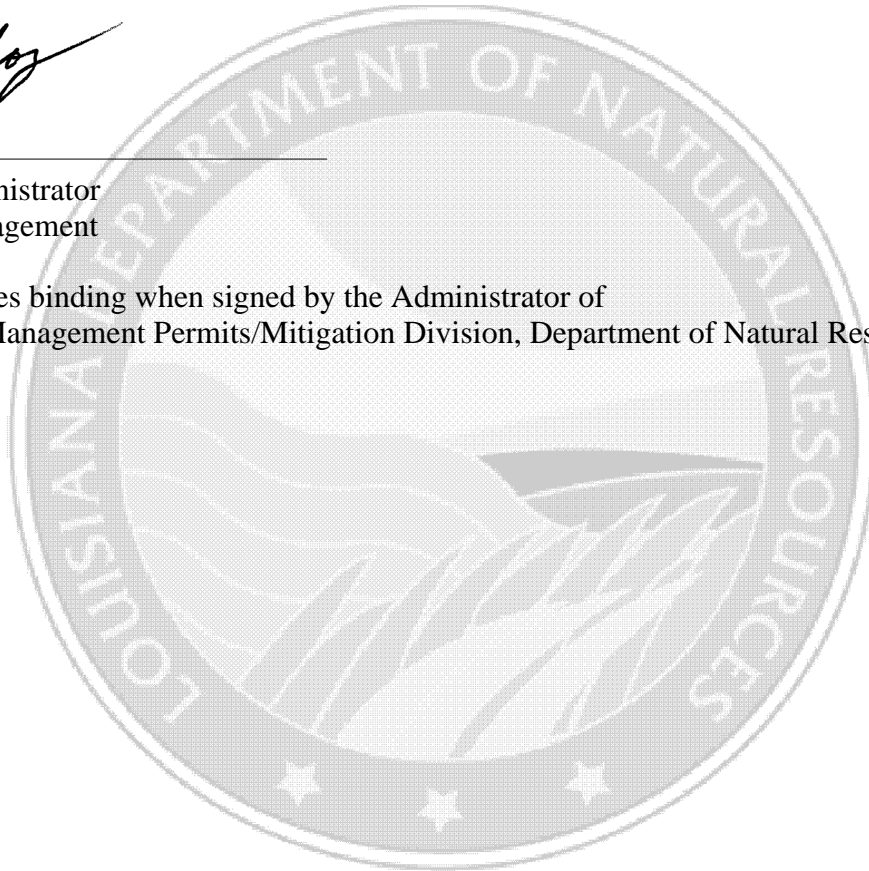
DEPARTMENT OF NATURAL RESOURCES



Karl L. Morgan, Administrator
Office of Coastal Management

This agreement becomes binding when signed by the Administrator of the Office of Coastal Management Permits/Mitigation Division, Department of Natural Resources.

Attachments



Final Plats:

- 1) [P20190677](#) [Final Plats](#) [01/09/2020](#)

cc: Martin Mayer, COE w/attachments
Dave Butler, LDWF w/attachments
Jordan Cobbs, OCM w/attachments
Craig Leblanc, Frank Cole, OCM/FI w/attachments
Saint Bernard Parish w/attachments



INDEX TO SHEETS

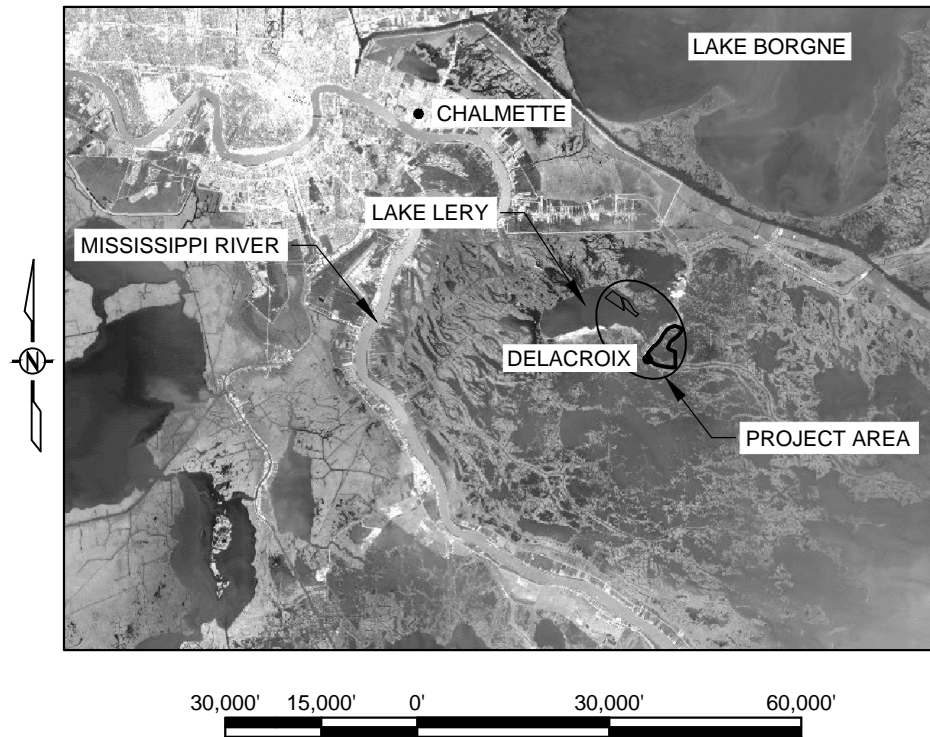
SHEET NO. DESCRIPTION

- | | |
|---|--|
| 1 | TITLE SHEET |
| 2 | PROJECT LAYOUT |
| 3 | BORROW AREA SOIL BORING LAYOUT |
| 4 | MARSH CREATION AREA SOIL BORING LAYOUT |
| 5 | TYPICAL SOIL BORING SECTION |

STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

EAST DELACROIX MARSH CREATION
AND TERRACING

BS-0037
ST. BERNARD PARISH



ST. BERNARD PARISH

GEOTECHNICAL SOIL BORINGS

| | | | |
|--|--|---|-----------------|
| APPLICATION BY: COASTAL PROTECTION & RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802 | COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802 | EAST DELACROIX MARSH CREATION AND TERRACING | TITLE SHEET |
| | | STATE PROJECT NUMBER: BS-0037 | DATE: JULY 2019 |
| DRAWN BY: SHANE FAUST | DESIGNED BY: STEPHEN COOK, E.I. | APPROVED BY: SHANNON HAYNES, P.E. | SHEET 1 OF 5 |

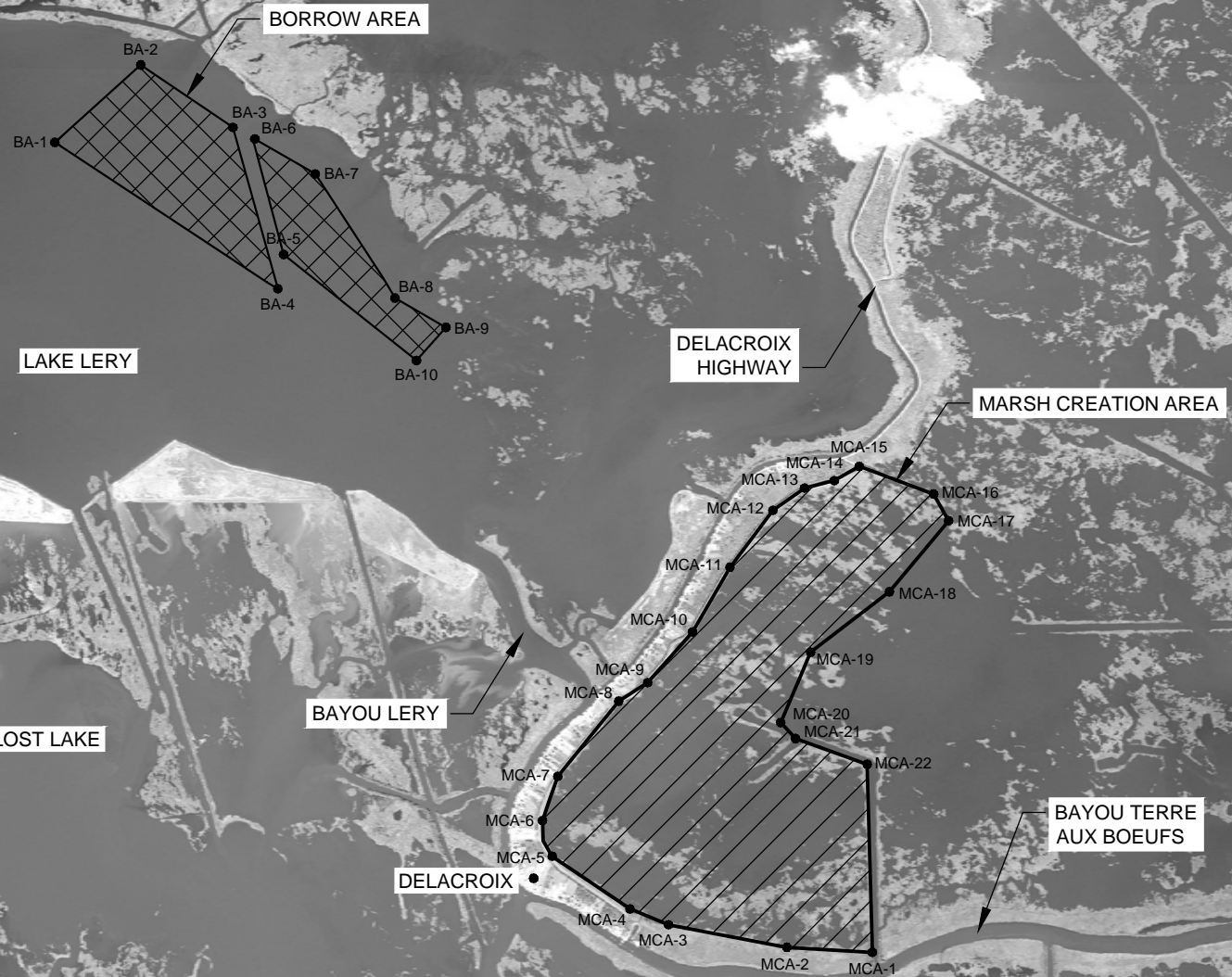


BORROW AREA COORDINATES

| POINT | LONGITUDE | LATITUDE |
|-------|----------------|----------------|
| BA-1 | 89° 49' 24.70" | 29° 48' 27.51" |
| BA-2 | 89° 49' 02.52" | 29° 48' 44.49" |
| BA-3 | 89° 48' 39.22" | 29° 48' 30.34" |
| BA-4 | 89° 48' 28.29" | 29° 47' 54.27" |
| BA-5 | 89° 47' 26.72" | 29° 48' 01.90" |
| BA-6 | 89° 48' 34.26" | 29° 48' 27.97" |
| BA-7 | 89° 48' 18.35" | 29° 48' 19.72" |
| BA-8 | 89° 47' 58.43" | 29° 47' 51.35" |
| BA-9 | 89° 47' 45.56" | 29° 47' 45.18" |
| BA-10 | 89° 47' 53.16" | 29° 47' 37.91" |

MARSH CREATION AREA COORDINATES

| POINT | LONGITUDE | LATITUDE |
|--------|----------------|----------------|
| MCA-1 | 89° 45' 58.97" | 29° 45' 24.87" |
| MCA-2 | 89° 46' 20.77" | 29° 45' 26.23" |
| MCA-3 | 89° 46' 50.84" | 29° 45' 31.61" |
| MCA-4 | 89° 47' 00.62" | 29° 45' 35.26" |
| MCA-5 | 89° 47' 20.27" | 29° 45' 47.22" |
| MCA-6 | 89° 47' 22.63" | 29° 45' 55.18" |
| MCA-7 | 89° 47' 18.56" | 29° 46' 04.94" |
| MCA-8 | 89° 47' 02.78" | 29° 46' 21.51" |
| MCA-9 | 89° 46' 55.32" | 29° 46' 25.56" |
| MCA-10 | 89° 46' 43.70" | 29° 46' 36.70" |
| MCA-11 | 89° 46' 33.95" | 29° 46' 50.95" |
| MCA-12 | 89° 46' 22.77" | 29° 47' 03.51" |
| MCA-13 | 89° 46' 14.65" | 29° 47' 08.35" |
| MCA-14 | 89° 46' 07.04" | 29° 47' 09.93" |
| MCA-15 | 89° 46' 00.60" | 29° 47' 13.02" |
| MCA-16 | 89° 45' 41.76" | 29° 47' 06.65" |
| MCA-17 | 89° 45' 38.04" | 29° 47' 00.64" |
| MCA-18 | 89° 45' 53.37" | 29° 46' 45.03" |
| MCA-19 | 89° 46' 13.69" | 29° 46' 31.82" |
| MCA-20 | 89° 46' 21.55" | 29° 46' 16.25" |
| MCA-21 | 89° 46' 17.81" | 29° 46' 12.66" |
| MCA-22 | 89° 45' 59.63" | 29° 46' 06.72" |



LEGEND

| | |
|--|---------------------|
| | BORROW AREA |
| | MARSH CREATION AREA |

APPLICATION BY:
COASTAL PROTECTION & RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LA 70802

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

EAST DELACROIX MARSH CREATION
AND TERRACING

PROJECT LAYOUT

DRAWN BY: SHANE FAUST

DESIGNED BY: STEPHEN COOK, E.I.

STATE PROJECT NUMBER: BS-0037

DATE: JULY 2019

APPROVED BY: SHANNON HAYNES, P.E.

SHEET 2 OF 5



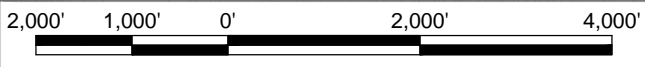
BORROW AREA SOIL BORING COORDINATES

| POINT | LONGITUDE | LATITUDE | DEPTH |
|-------|----------------|----------------|-------|
| B-1 | 89° 47' 52.58" | 29° 47' 38.42" | 30' |
| B-2 | 89° 47' 46.04" | 29° 47' 44.90" | 30' |
| B-3 | 89° 47' 55.10" | 29° 47' 45.37" | 30' |
| B-4 | 89° 48' 03.08" | 29° 47' 46.02" | 30' |
| B-5 | 89° 47' 57.79" | 29° 47' 50.96" | 30' |
| B-6 | 89° 48' 13.80" | 29° 47' 53.43" | 30' |
| B-7 | 89° 48' 04.82" | 29° 48' 00.90" | 30' |
| B-8 | 89° 48' 15.65" | 29° 48' 02.23" | 30' |
| B-9 | 89° 48' 11.77" | 29° 48' 10.72" | 30' |
| B-10 | 89° 48' 25.97" | 29° 48' 02.48" | 30' |
| B-11 | 89° 48' 21.82" | 29° 48' 12.82" | 30' |
| B-12 | 89° 48' 19.78" | 29° 48' 19.79" | 30' |
| B-13 | 89° 48' 29.77" | 29° 48' 14.74" | 30' |
| B-14 | 89° 48' 32.70" | 29° 48' 26.32" | 30' |
| B-15 | 89° 48' 28.90" | 29° 47' 54.90" | 30' |
| B-16 | 89° 48' 33.68" | 29° 48' 10.24" | 30' |
| B-17 | 89° 48' 36.85" | 29° 48' 21.37" | 30' |
| B-18 | 89° 48' 39.09" | 29° 48' 29.97" | 30' |
| B-19 | 89° 48' 47.89" | 29° 48' 05.78" | 30' |
| B-20 | 89° 48' 48.75" | 29° 48' 17.51" | 30' |
| B-21 | 89° 48' 48.29" | 29° 48' 25.63" | 30' |
| B-22 | 89° 48' 50.32" | 29° 48' 36.49" | 30' |
| B-23 | 89° 49' 01.24" | 29° 48' 13.66" | 30' |
| B-24 | 89° 49' 04.15" | 29° 48' 29.77" | 30' |
| B-25 | 89° 49' 02.45" | 29° 48' 43.82" | 30' |
| B-26 | 89° 49' 12.59" | 29° 48' 20.42" | 30' |
| B-27 | 89° 49' 14.31" | 29° 48' 35.21" | 30' |
| B-28 | 89° 49' 24.43" | 29° 48' 27.54" | 30' |

BORROW AREA

SOIL BORING (TYP.)

EQUIPMENT ACCESS



NOTES:

1. UP TO TWENTY-EIGHT (28) BORINGS, MAX. DEPTH OF 30.0' FROM EXISTING WATER BOTTOM WILL BE TAKEN WITHIN THE BORROW AREA. WORK AREAS AROUND SOIL BORINGS WILL BE 20.0' X 20.0'.
2. EXISTING PIPELINES AND INFRASTRUCTURE WILL BE IDENTIFIED AND AVOIDED PRIOR TO SOIL BORING ACTIVITIES.
3. DRILLING EQUIPMENT WILL NOT EXCEED 15' WIDTH AND WILL NOT DRAFT MORE THAN 3' DEPTH.
4. EQUIPMENT ACCESS ROUTE WILL NOT EXCEED 20.0' IN WIDTH.
5. WATER DEPTHS ARE BETWEEN THREE (3) - TEN (10) FEET.

LEGEND

BORROW AREA

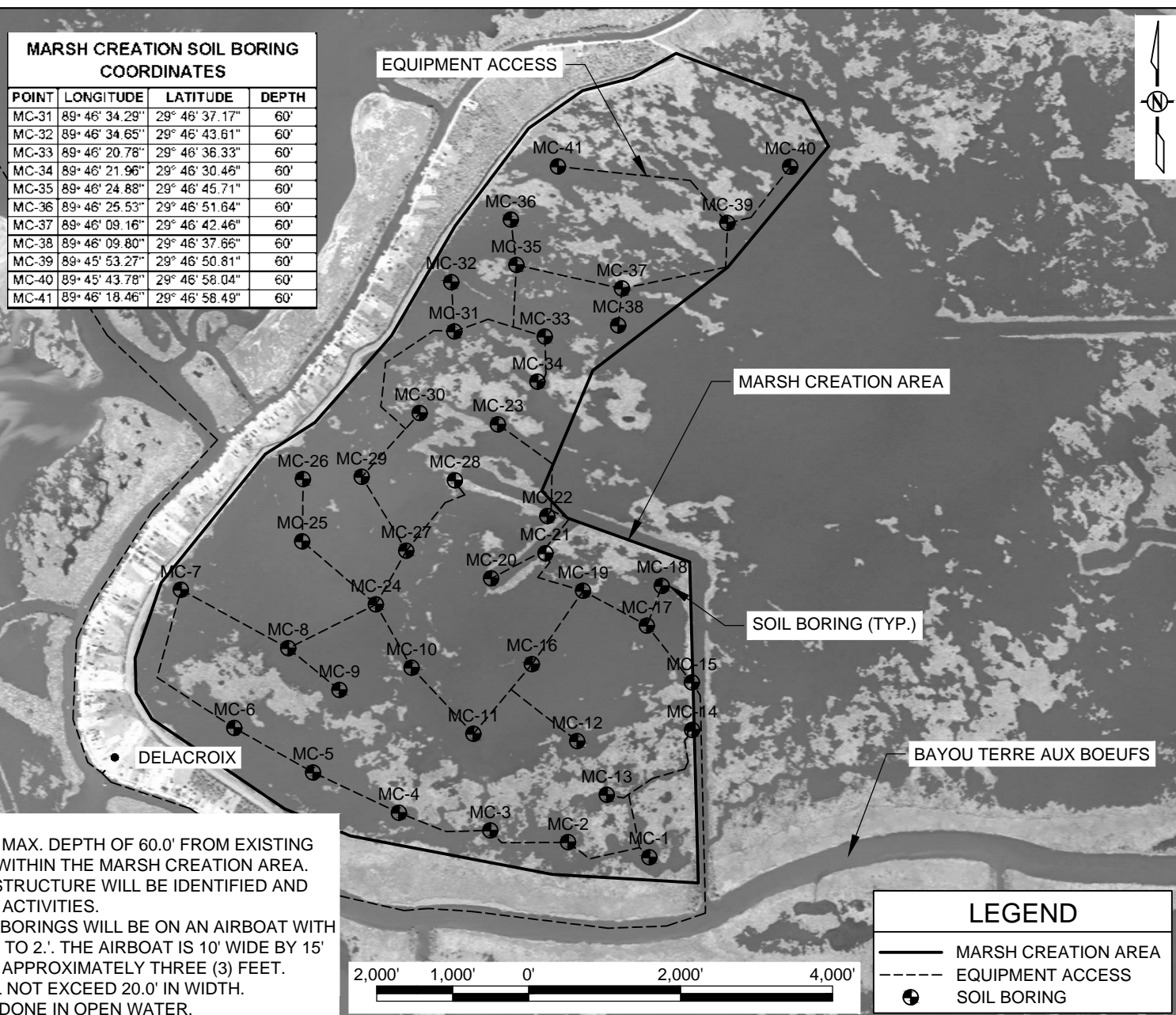
EQUIPMENT ACCESS

SOIL BORING

| | | | |
|--|--|---|--------------------------------|
| APPLICATION BY: COASTAL PROTECTION & RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802 | COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802 | EAST DELACROIX MARSH CREATION AND TERRACING | BORROW AREA SOIL BORING LAYOUT |
| | | STATE PROJECT NUMBER: BS-0037 | DATE: JULY 2019 |
| DRAWN BY: SHANE FAUST | DESIGNED BY: STEPHEN COOK, E.I. | APPROVED BY: SHANNON HAYNES, P.E. | SHEET 3 OF 5 |

| POINT | LONGITUDE | LATITUDE | DEPTH |
|-------|----------------|----------------|-------|
| MC-1 | 89° 46' 06.23" | 29° 45' 28.29" | 60' |
| MC-2 | 89° 46' 18.33" | 29° 45' 30.39" | 60' |
| MC-3 | 89° 46' 29.93" | 29° 45' 32.07" | 60' |
| MC-4 | 89° 46' 43.52" | 29° 45' 34.52" | 60' |
| MC-5 | 89° 46' 56.26" | 29° 45' 39.94" | 60' |
| MC-6 | 89° 47' 07.93" | 29° 45' 45.87" | 60' |
| MC-7 | 89° 47' 15.64" | 29° 46' 03.98" | 60' |
| MC-8 | 89° 46' 59.74" | 29° 45' 56.18" | 60' |
| MC-9 | 89° 46' 52.17" | 29° 45' 50.65" | 60' |
| MC-10 | 89° 46' 41.34" | 29° 45' 53.51" | 60' |
| MC-11 | 89° 46' 32.25" | 29° 45' 44.69" | 60' |
| MC-12 | 89° 46' 16.75" | 29° 45' 43.54" | 60' |
| MC-13 | 89° 46' 12.47" | 29° 45' 36.49" | 60' |
| MC-14 | 89° 45' 59.59" | 29° 45' 44.81" | 60' |
| MC-15 | 89° 45' 59.52" | 29° 45' 51.00" | 60' |
| MC-16 | 89° 46' 23.36" | 29° 45' 53.68" | 60' |
| MC-17 | 89° 46' 06.12" | 29° 45' 58.49" | 60' |
| MC-18 | 89° 46' 03.80" | 29° 46' 03.64" | 60' |
| MC-19 | 89° 46' 15.59" | 29° 46' 03.14" | 60' |
| MC-20 | 89° 46' 29.28" | 29° 46' 04.92" | 60' |
| MC-21 | 89° 46' 21.13" | 29° 46' 08.09" | 60' |
| MC-22 | 89° 46' 20.78" | 29° 46' 12.92" | 60' |
| MC-23 | 89° 46' 27.95" | 29° 46' 24.98" | 60' |
| MC-24 | 89° 46' 46.54" | 29° 46' 01.74" | 60' |
| MC-25 | 89° 46' 57.41" | 29° 46' 10.07" | 60' |
| MC-26 | 89° 46' 57.18" | 29° 46' 18.18" | 60' |
| MC-27 | 89° 46' 41.89" | 29° 46' 08.68" | 60' |
| MC-28 | 89° 46' 34.50" | 29° 46' 17.76" | 60' |
| MC-29 | 89° 46' 48.42" | 29° 46' 18.39" | 60' |
| MC-30 | 89° 46' 39.61" | 29° 46' 26.59" | 60' |

| POINT | LONGITUDE | LATITUDE | DEPTH |
|-------|----------------|----------------|-------|
| MC-31 | 89° 46' 34.29" | 29° 46' 37.17" | 60' |
| MC-32 | 89° 46' 34.65" | 29° 46' 43.61" | 60' |
| MC-33 | 89° 46' 20.78" | 29° 46' 36.33" | 60' |
| MC-34 | 89° 46' 21.96" | 29° 46' 30.46" | 60' |
| MC-35 | 89° 46' 24.88" | 29° 46' 45.71" | 60' |
| MC-36 | 89° 46' 25.53" | 29° 46' 51.64" | 60' |
| MC-37 | 89° 46' 09.16" | 29° 46' 42.46" | 60' |
| MC-38 | 89° 46' 09.80" | 29° 46' 37.66" | 60' |
| MC-39 | 89° 45' 53.27" | 29° 46' 50.81" | 60' |
| MC-40 | 89° 45' 43.78" | 29° 46' 58.04" | 60' |
| MC-41 | 89° 46' 18.46" | 29° 46' 58.49" | 60' |



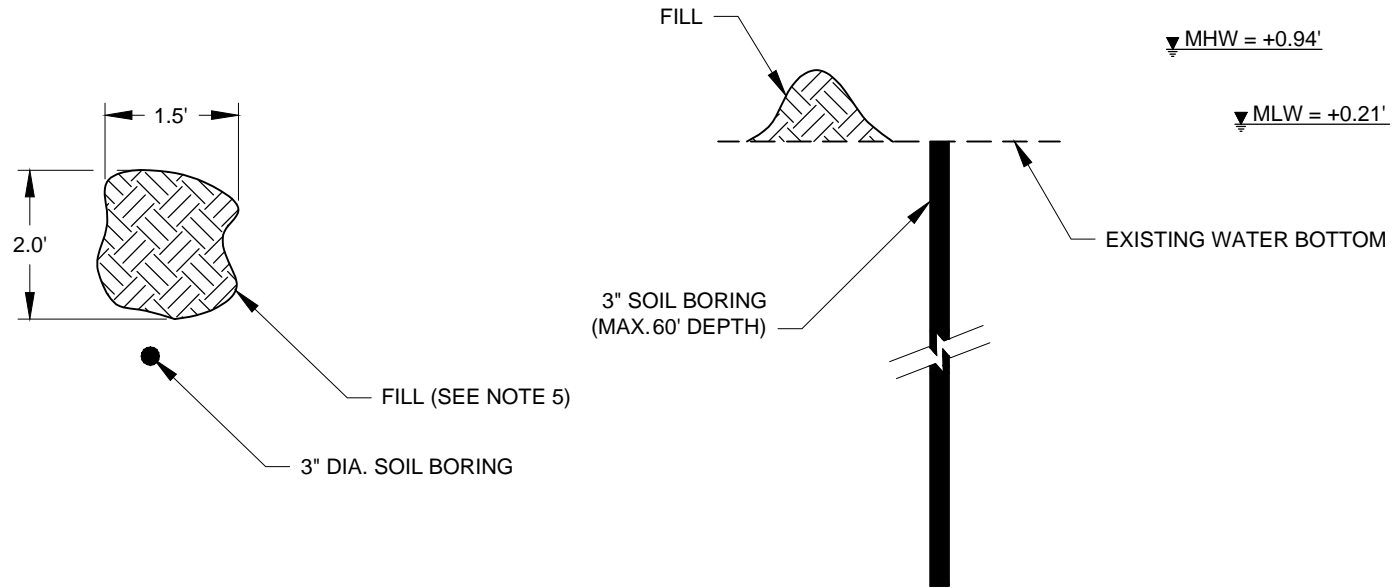
1. UP TO FORTY-ONE (41) BORINGS, MAX. DEPTH OF 60.0' FROM EXISTING WATER BOTTOM WILL BE TAKEN WITHIN THE MARSH CREATION AREA.
2. EXISTING PIPELINES AND INFRASTRUCTURE WILL BE IDENTIFIED AND AVOIDED PRIOR TO SOIL BORING ACTIVITIES.
3. THE DRILL RIG TO COLLECT SOIL BORINGS WILL BE ON AN AIRBOAT WITH A DRAFT OF APPROXIMATELY 1.5' TO 2'. THE AIRBOAT IS 10' WIDE BY 15' IN LENGTH. WATER DEPTHS ARE APPROXIMATELY THREE (3) FEET.
4. EQUIPMENT ACCESS ROUTE WILL NOT EXCEED 20.0' IN WIDTH.
5. ALL WORK AND ACCESS WILL BE DONE IN OPEN WATER.

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA
SOIL BORING LAYOUT

DATE: JULY 2019

SHEET 4 OF 5



TYPICAL SOIL BORING - PLAN VIEW
NOT TO SCALE

TYPICAL SOIL BORING SECTION
NOT TO SCALE

NOTES:

1. AS-BUILT DRAWINGS AND/OR PLATS SHALL HAVE WRITTEN ON THEM THE DATE OF COMPLETION OF SAID ACTIVITIES AND SHALL BE SUBMITTED TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF COASTAL MANAGEMENT, P. O. BOX 44487, BATON ROUGE, LA 70804-4487 WITHIN 30 DAYS FOLLOWING PROJECT COMPLETION.
2. ALL STRUCTURES BUILT UNDER THE AUTHORIZATION AND CONDITIONS OF THIS PERMIT SHALL BE REMOVED FROM THE SITE WITHIN 120 DAYS OF ABANDONMENT OF THE FACILITIES FOR THE HEREIN PERMITTED USE, OR WHEN THESE STRUCTURES FALL INTO A STATE OF DISREPAIR SUCH THAT THEY CAN NO LONGER FUNCTION AS INTENDED. THIS CONDITION DOES NOT PRECLUDE THE NECESSITY FOR REVISING THE CURRENT PERMIT OR OBTAINING A SEPARATE COASTAL USE PERMIT, SHOULD ONE BE REQUIRED FOR SUCH REMOVAL ACTIVITIES.
3. STRUCTURES MUST ALSO BE MARKED/LIGHTED IN ACCORDANCE WITH U. S. COAST GUARD REGULATIONS.
4. IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITTEE SHALL CONTACT THE LOUISIANA ONE CALL SYSTEM (1-800-272-3020) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY.
5. FOR EACH SOIL BORING BORE HOLE APPROXIMATELY 0.02 CUBIC YARDS (CY) OF THE MATERIAL EXCAVATED WILL REMAIN ON SITE.
6. ALL EQUIPMENT USED WILL REMAIN IN THE OPEN WATER.
7. THE DRILL RIG TO COLLECT SOIL BORINGS WILL BE ON AN AIRBOAT WITH A DRAFT OF APPROXIMATELY 1.5' TO 2.'. THE AIRBOAT IS 10' WIDE BY 15' IN LENGTH.
8. BOTTOM ELEVATION VARIES ACROSS PROJECT AREA.

| | | | |
|---|---|---|-----------------------------|
| APPLICATION BY: COASTAL PROTECTION & RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA. 70802 | COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802 | EAST DELACROIX MARSH CREATION AND TERRACING | TYPICAL SOIL BORING SECTION |
| | | STATE PROJECT NUMBER: BS-0037 | DATE: JULY 2019 |
| DRAWN BY: SHANE FAUST | DESIGNED BY: STEPHEN COOK, E.I. | APPROVED BY: SHANNON HAYNES, P.E. | SHEET 5 OF 5 |