

# JOINT PUBLIC NOTICE

June 3, 2019

United States Army  
Corps of Engineers  
New Orleans District  
Attn: Regulatory Branch  
7400 Leake Avenue  
New Orleans, Louisiana 70118

State of Louisiana  
Department of Environmental Quality  
Attn: Water Quality Certification Sec.  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

Project Manager: James W. Little, Jr.  
(225) 342-3099 / fax: (225) 342-9439  
James.little@usace.army.mil  
Permit Application Number:  
MVN-2010-00874-WII

Project Manager: Elizabeth Hill  
(225) 219-3225 / fax: (225) 219-3156  
Elizabeth.Hill@la.gov  
WQC Application Number:  
WQC 190529-01

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

The application has also been mailed to the Louisiana Department of Environmental Quality, for a Water Quality Certification (WQC) in accordance with statutory authority contained in Louisiana Revised Statute 30:2074 A(3), and provisions of Section 401 of the Clean Water Act (P.L. 95-17).

## **CONDUCT MAINTENANCE DREDGING OF THE CAMERON LNG TERMINAL ON THE CALCASIEU RIVER IN CAMERON PARISH**

**NAME OF APPLICANT:** Cameron LNG, LLC, c/o T. Baker Smith, LLC, Attn: Mr. Brady Trahan, 107 Global Circle, Lafayette, LA 70503.

**LOCATION OF WORK:** The proposed maintenance dredging is to be conducted at the Cameron LNG Terminal on the Calcasieu River Ship Channel, (30.038333, -93.334444), adjacent to Louisiana Highway 27, approximately 2 miles south of the Gulf Intracoastal Waterway, in Cameron Parish, Louisiana.

**CHARACTER OF WORK:** The applicant has requested a Department of the Army (DA) authorization to conduct maintenance dredging of their two protected LNG ship berths that were originally dredged to a depth of 45 feet below Mean Low Tide (MLT) and one construction dock that was dredged to a depth of -12.0 (NAVD88). Regular maintenance dredging would need to be conducted to maintain these depths to allow for LNG ships to operate safely. Approximately 700,000 cubic yards of dredged material would be removed yearly, and placed in designated open water disposal areas west of Louisiana Highway 27 (see attached drawings), via a dredge disposal pipeline from the dredge area to the disposal site. Project implementation would impact approximately 724.73 acres of open water area via the beneficial use of the dredged material to create marsh habitat.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be submitted so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. Individuals or parties may request an extension of time in which to comment on the proposed work by writing, faxing, or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days. Letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

### **Corps of Engineers Permit Criteria**

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this public notice are being sent to the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species. Based on the South Louisiana **Standard Local Operating Procedure for Endangered Species (SLOPES)**, as signed on October 22, 2014, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service, the proposed project was evaluated under the determination key on 29 May 2019 and it has been determined that portions of the project are located in waters known to be utilized by the West Indian Manatee (*Trichechus manatus*) and determined that the activity is not likely to adversely affect the species. If this permit is issued, the permittee will be required to follow the SLOPES Special Conditions for the West Indian Manatee and would have no effect on all other listed species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction or alteration of **724.73** acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Department of Environmental Quality, before a permit is issued.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

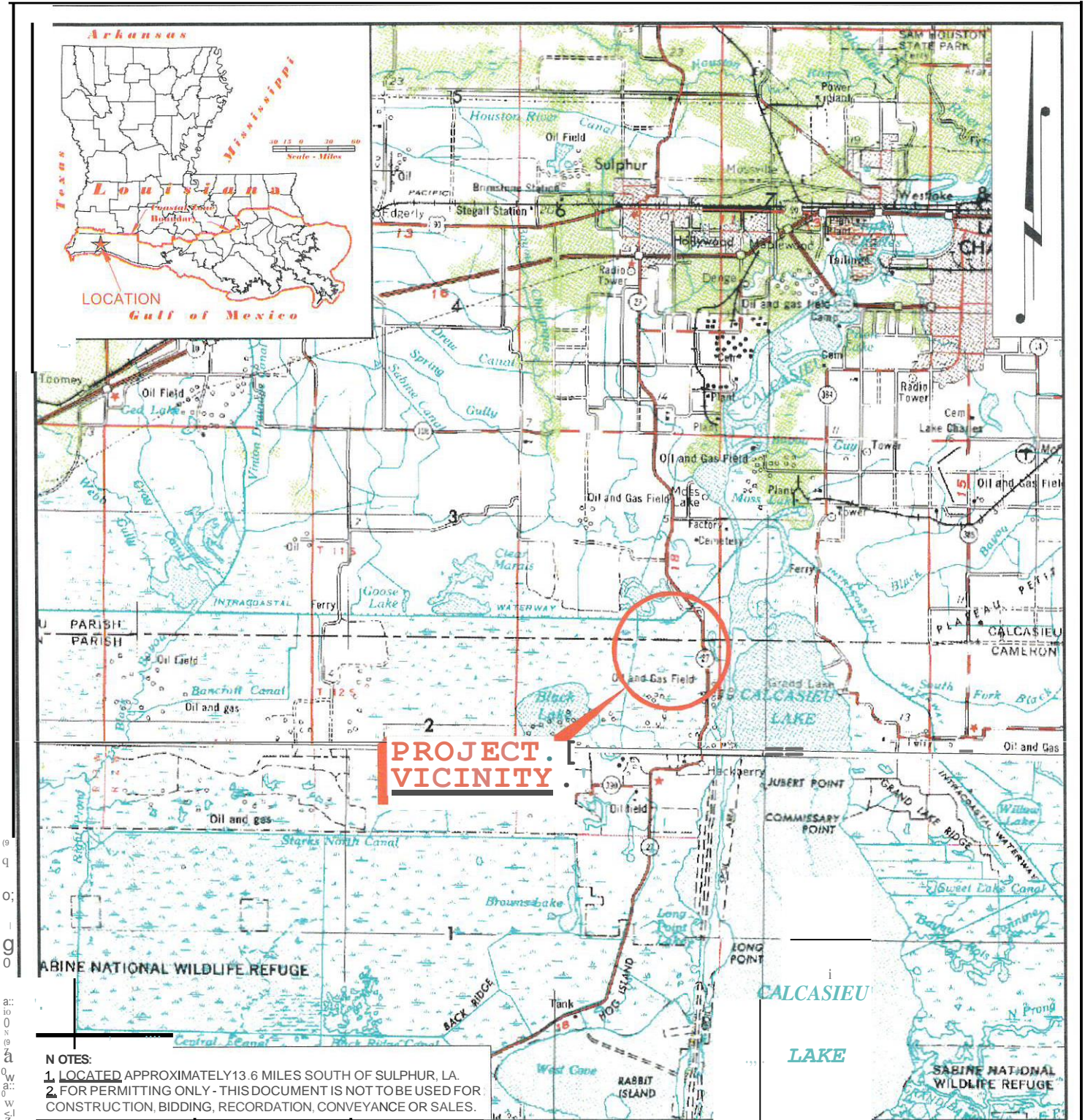
The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Darrell S. Barbara  
Chief, Western Evaluation Section  
Regulatory Branch

Enclosure





**PROJECT VICINITY**

**NOTES:**

1. LOCATED APPROXIMATELY 13.6 MILES SOUTH OF SULPHUR, LA.
2. FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

DRAWN BY:	RRB	APPROVED BY:	ADM
DATE:	03/28	JOB NO:	2018.0180
DRAWING NAME:		20180180_C1-REV1.DWG	
SHEET NO:		1	OF 7
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
SCALE: 1" = 4 MILES			
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4 MI	2 MI	0'	4 MI

**VICINITY MAP**

**CAMERON LNG, LLC**

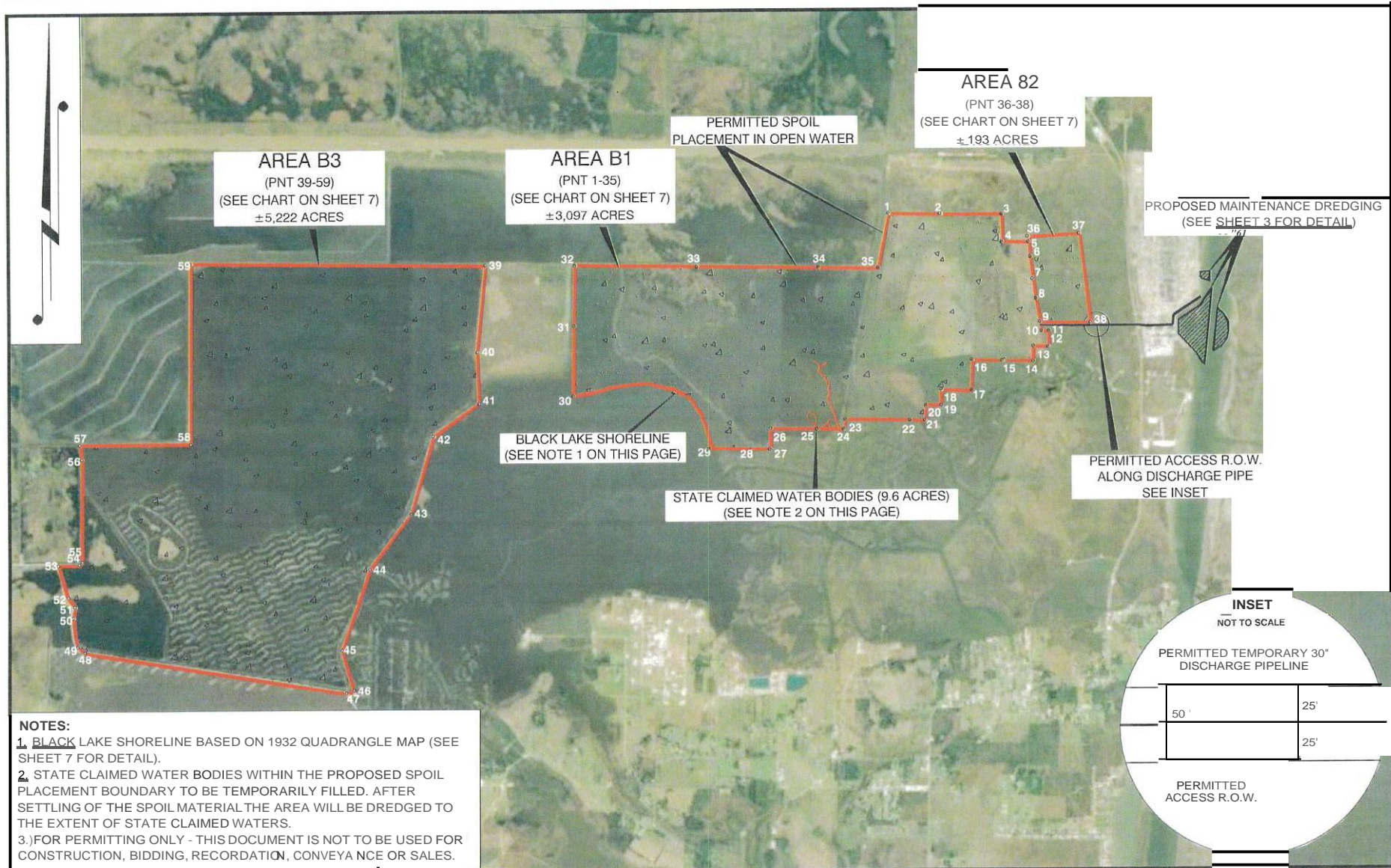
AMENDED PROPOSED MAINTENANCE DREDGING PLAN  
CAMERON LNG TERMINAL  
HACKBERRY AREA  
CAMERON & CALCASIEU PARISHES,  
LOUISIANA



**T. BAKER SMITH**  
SOLUTIONS PARTNERS  
107 Global Circle, Lafayette, LA 70503  
(337) 735-2800 • tbsmith.com

REV. NO:	01	REV. DATE:	03/22/2018	REV. BY:	JPD
REVISION DESCRIPTION: REVISION AS PER CLIENT REQUEST.					





SCALE: 1" = 6000.

6000' 3000' 0' 6000'

**T. BAKER SMITH**  
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REV. NO: 01 | REV. DATE: 03/12/2018 | REV. BY: JPD

DRAWN BY:	RRB	APPROVED BY:	ADM
DATE:	03/15/2018	JOB NO:	2018.0180
DRAWING NAME:	20180180_C2-REV1.DWG		
SHEET NO:	2	OF	7
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
REVISION DESCRIPTION: REVISED AS PER CLIENT REQUEST			

**AREA MAP**

**CAMERON LNG, LLC**

AMENDED PROPOSED MAINTENANCE DREDGING PLAN

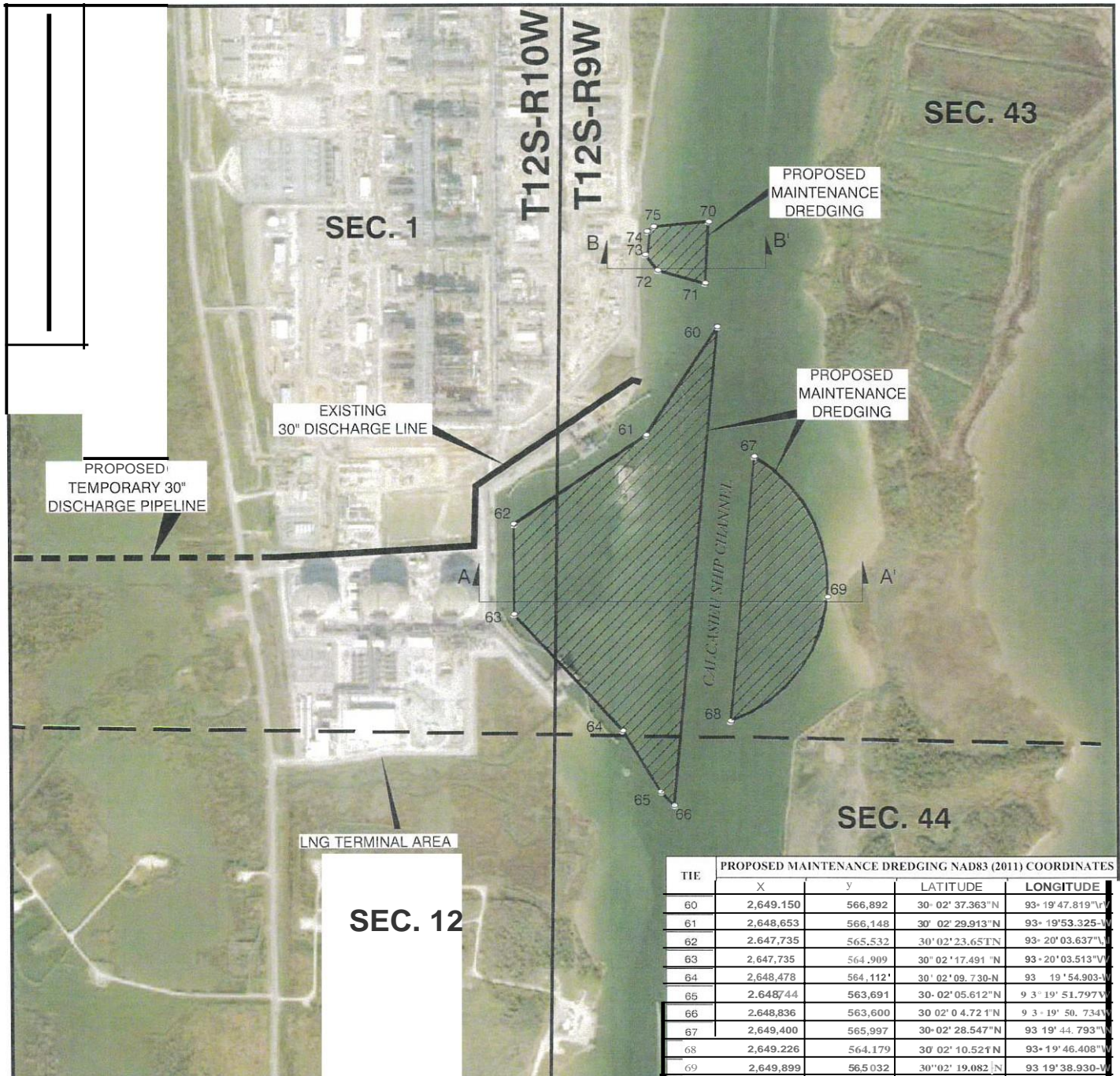
CAMERON LNG TERMINAL

HACKBERRY AREA

CAMERON & CALCASIEU PARISHES,  
LOUISIANA



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**NOTES:**

1. THIS DRAWING MAY NOT REPRESENT ALL HAZARDS IN PROJECT AREA
2. FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

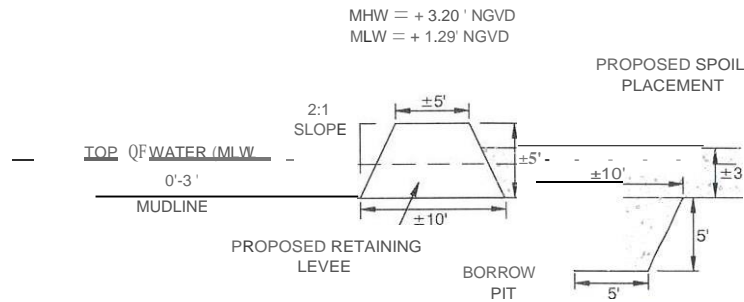
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DATE:	03/15/2018	JOB NO:	2018.0180
DRAWING NAME:	20180180_C3-REV1.DWG		
SHEET NO:	3	OF	7
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83   VERT. DATUM: NAVD83 GRID UNIT S: US SURVEY FEET			
SCALE: 1" = 1000'			
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**PLAN VIEW**

**CAMERON LNG, LLC**  
AMENDED PROPOSED MAINTENANCE DREDGING PLAN  
CAMERON LNG TERMINAL  
HACKBERRY AREA  
CAMERON & CALCASIEU PARISHES,  
LOUISIANA

**(Las, T. BAKER SMITH**  
SOLUTION  
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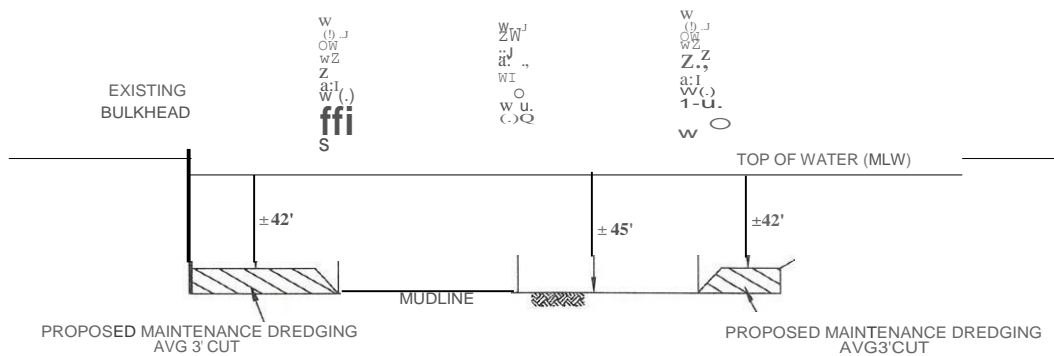
REV. NO:	01	REV. DATE:	03/22/2018	REV. BY:	JPD
REVISION DESCRIPTION: REVISION AS PER CLIENT REQUEST.					



**TYPICAL RETAINING LEVEE TO SERVE PROPOSED  
SPOIL PLACEMENT AREAS IN OPEN WATER**

NOT TO SCALE

SPOIL MATERIAL WILL BE PLACED  
IN A MANNER CONDUCTIVE TO  
MARSH ESTABLISHMENT.



**CROSS-SECTION A-A' PERMITTED  
MAINTENANCE DREDGING**

NOT TO SCALE

**NOTE:**

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CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

**TYPICALS & CROSS-SECTIONS**

**CAMERON LNG, LLC**  
**AMENDED PROPOSED MAINTENANCE DREDGING PLAN**  
**CAMERON LNG TERMINAL**  
**HACL(BERRY AREA)**  
**CAMERON & CALC ASIEU PARISHES ,**  
**LOUISIANA**

DRAWN BY:	RRB	APPROVED BY:	ADM
DATE:	03/15/2018	JOB NO:	2018.0180
DRAWING NAME:	20180180_C3-REV1.DWG		
SHEET NO:	4	OF	7
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			

NOT TO SCALE

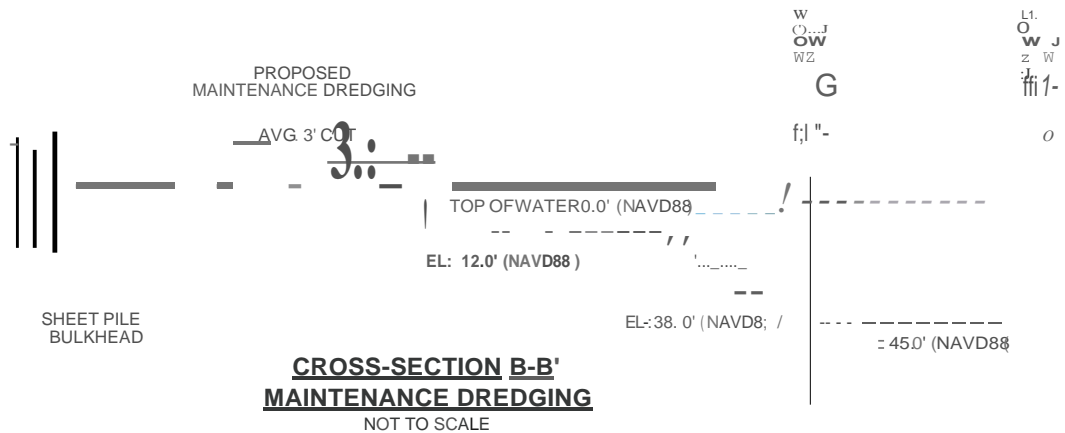


**T. BAKER SMITH**

801 UT 1000 E. T. H.  
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REV. NO: 01 REV. DATE: 03/22/2018 REV. BY: JPD

REVISION DESCRIPTION:  
REVISION AS PER CLIENT REQUEST.



#### **CALCULATIONS:**

LEVEES WILL BE BUILT/REBUILT AS NEEDED IN AREAS SO AS NOT TO IMPACT EXISTING MARSH TO THE MAXIMUM EXTENT PRACTICABLE.

APPROX. 3,500,000 CU YDS (7000,000 PER YEAR) OF MATERIAL TO BE DISPLACED DUE TO MAINTENANCE DREDGING OVER THE COURSE OF THE PERMIT AUTHORIZATION

UP TO APPROX. 12,832 CU YDS OF MATERIAL (PER DREDGE CYCLE) MAY BE DISPLACED BY LEVEE CONSTRUCTION.

APPROX. 72.1 ACRE AREA TO BE AFFECTED DUE TO PROPOSED MAINTENANCE DREDGING.

#### **COASTAL NOTES:**

ALL STRUCTURES, FACILITIES, WELLS AND PIPELINES/FLOWLINES OCCURRING IN OPEN WATER AREAS, OR IN OILFIELD CANALS, OR SLIPS SHALL BE REMOVED WITHIN 120 DAYS OF ABANDONMENT OF THE FACILITIES FOR THE HEREIN PERMITTED USE, UNLESS PRIOR WRITTEN APPROVAL TO LEAVE SUCH STRUCTURES IN PLACE IS RECEIVED FROM THE COASTAL MANAGEMENT DIVISION. 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 ACTIVITIES.

AS-BUILT DRAWINGS SHALL BE SUBMITTED, IF REQUIRED, WITHIN 30 DAYS OF COMPLETION OF THIS PROJECT TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL MANAGEMENT DIVISION AND OFFICE OF CONSERVATION PIPELINES SAFETY DIVISION, POST OFFICE BOX 44487, BATON ROUGE, LA 70804-4487.

IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES THE PERMITTEE SHALL CONTACT LOUISIANA ONE CALL (1-800-272-3020) A MINIMUM OF 96 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY.

ALL STRUCTURES WILL BE MARKED AND LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.

#### **NOTE:**

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## **CROSS-SECTION, CALCULATIONS, & NOTES**

### **CAMERON LNG, LLC**

**AMENDED PROPOSED MAINTENANCE DREDGING PLAN**

**CAMERON LNG TERMINAL**

**HACKBERRY AREA**

**CAMERON & CALCASIEU PARISHES,**

**LOUISIANA**

REV. NO: 01 | REV. DATE: 03/22/2018 | REV. BY: JPD

**NOT TO SCALE**

REVISION DESCRIPTION:  
REVISION AS PER CLIENT REQUEST



# SPOIL DEPOSIT BOUNDARY CHARTS LA-SOUTH NAD 83 (2011)

TIE	AR 1; A 111 AD83(2011) LOUISIANA: A SOUTH COORDINATES			
	X	Y	LATITUDE	LONGITUDE
1	2,635,155	570,178	30° 03' 07.448"N	93° 22' 27.695"W
2	2,637,412	570,149	30° 03' 07.559"N	93° 22' 02.012"W
3	2,640,070	570,115	30° 03' 07.687"N	93° 21' 31.766"W
4	2,640,079	568,928	30° 02' 55.935"N	93° 21' 31.422"W
5	2,641,236	568,908	30° 02' 55.945"N	93° 21' 18.255"W
6	2,641,300	568,269	30° 02' 49.625"N	93° 21' 17.397"W
7	2,641,395	567,330	30° 02' 40.352"N	93° 21' 16.123"W
8	2,641,541	566,474	30° 02' 31.900"N	93° 21' 14.292"W
9	2,641,717	565,463	30° 02' 21.931"N	93° 21' 12.087"W
10	2,641,789	565,070	30° 02' 18.049"N	93° 21' 11.189"W
11	2,642,094	565,063	30° 02' 18.031"N	93° 21' 07.721"W
12	2,642,083	564,403	30° 02' 11.497"N	93° 21' 07.713"W
13	2,641,421	564,418	30° 02' 11.535"N	93° 21' 15.242"W
14	2,641,411	563,758	30° 02' 05.001"N	93° 21' 15.231"W
15	2,640,088	563,789	30° 02' 05.077"N	93° 21' 30.285"W
16	2,638,765	563,820	30° 02' 05.152"N	93° 21' 45.339"W
17	2,638,745	562,500	30° 01' 52.055"N	93° 21' 45.296"W
18	2,637,423	562,531	30° 01' 52.160"N	93° 22' 00.339"W
19	2,637,414	561,871	30° 01' 45.606"N	93° 22' 00.312"W
20	2,636,742	561,881	30° 01' 45.606"N	93° 22' 07.964"W
21	2,636,732	561,221	30° 01' 39.073"N	93° 22' 07.935"W
22	2,636,060	561,231	30° 01' 39.052"N	93° 22' 15.585"W
23	2,633,277	561,272	30° 01' 38.967"N	93° 22' 47.251"W
24	2,633,196	560,853	30° 01' 34.807"N	93° 22' 48.088"W
25	2,632,021	560,871	30° 01' 34.770"N	93° 23' 01.454"W
26	2,630,021	560,900	30° 01' 34.707"N	93° 23' 24.206"W
27	2,630,011	560,000	30° 01' 25.798"N	93° 23' 24.144"W
28	2,629,175	560,013	30° 01' 25.771"N	93° 23' 33.654"W
29	2,627,341	560,040	30° 01' 25.712"N	93° 23' 54.515"W
30	2,621,484	562,348	30° 01' 47.505"N	93° 25' 01.614"W
31	2,621,519	565,406	30° 02' 17.782"N	93° 25' 01.847"W
32	2,621,549	568,001	30° 02' 43.475"N	93° 25' 02.045"W
33	2,626,822	567,919	30° 02' 43.609"N	93° 24' 02' .031"W
34	2,632,104	567,858	30° 02' 43.938"N	93° 23' 01.932"W
35	2,634,699	567,827	30° 02' 44.098"N	93° 22' 32.400"W

TIE	"1H: A 113 ADS3(2011) LOUISIANA SOUTH COORDINATES			
	X	Y	LATITUDE	LONGITUDE
39	2,617,672	568,016	30° 02' 42.925"N	93° 25' 46.144"W
40	2,617,315	564,281	30° 02' 05.893"N	93° 25' 49.430"W
41	2,617,395	562,044	30° 01' 43.758"N	93° 25' 48.060"W
42	2,615,427	560,631	30° 01' 29.422"N	93° 26' 10.152"W
43	2,614,449	557,233	30° 00' 55.606"N	93° 26' 20.562"W
44	2,612,664	554,840	30° 00' 31.604"N	93° 26' 40.361"W
45	2,611,469	551,299	29° 59' 56.338"N	93° 26' 53.214"W
46	2,611,969	549,552	29° 59' 39.136"N	93° 26' 47.153"W
47	2,611,667	549,413	29° 59' 37.100"N	93° 26' 50.563"W
48	2,600,344	551,256	29° 59' 53.857"N	93° 28' 59.701"W
49	2,600,019	551,521	29° 59' 56.422"N	93° 29' 03.458"W
50	2,599,835	552,789	30° 00' 08.942"N	93° 29' 05.821"W
51	2,599,916	553,271	30° 00' 13.719"N	93° 29' 05.001"W
52	2,599,600	553,659	30° 00' 17.504"N	93° 29' 08.675"W
53	2,599,174	555,081	30° 00' 31.500"N	93° 29' 13.824"W
54	2,600,079	555,097	30° 00' 31.822"N	93° 29' 03.543"W
55	2,600,203	555,223	30° 00' 33.099"N	93° 29' 02.151"W
56	2,600,233	559,714	30° 01' 17.553"N	93° 29' 02.769"W
57	2,600,140	560,358	30° 01' 23.911"N	93° 29' 03.967"W
58	2,604,923	560,367	30° 01' 24.881"N	93° 28' 09.573"W
59	2,604,952	568,164	30° 02' 42.062"N	93° 28' 10.894"W

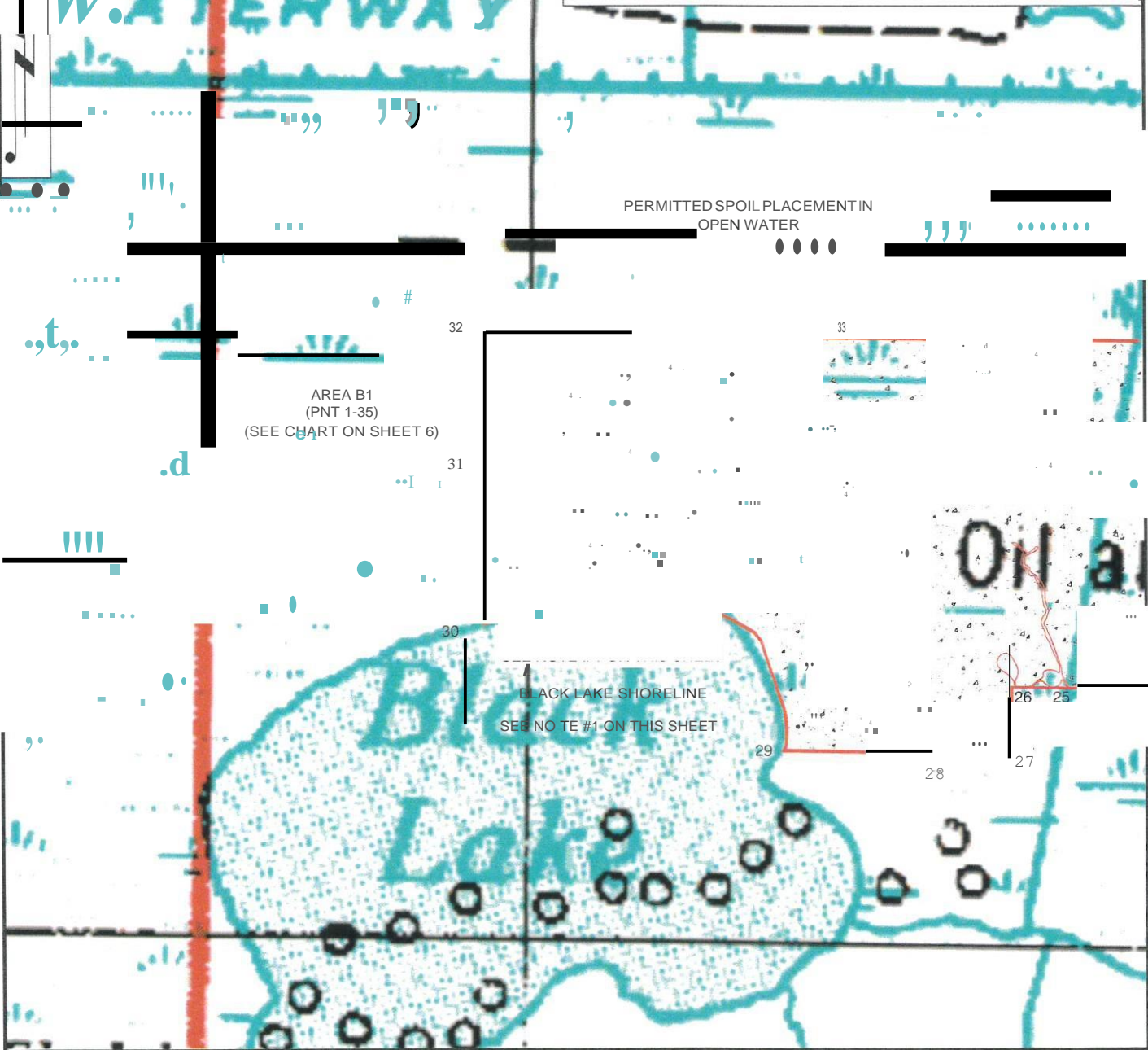
TIE	A1H: A 112 NA D83(2011) LOUISIANA SOUTH COORDINATES			
	X	Y	LATITUDE	LONGITUDE
36	2,641,208	569,141	30° 02' 58.244"N	93° 21' 18.614"W
37	2,643,423	569,263	30° 02' 59.833"N	93° 20' 53.442"W
38	2,643,910	565,416	30° 02' 21.844"N	93° 20' 47.126"W
9	2,641,717	565,463	30° 02' 21.931"N	93° 21' 12.087"W

**NOTE:**  
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DRAWN BY: RRB		APPROVED BY: ADM		<h2>CHARTS</h2> <h3>CAMERON LNG, LLC</h3> <h3>AMENDED PROPOSED MAINTENANCE DREDGING PLAN</h3> <h3>CAMERON LNG TERMINAL</h3> <h3>HACK.BERRY AREA</h3> <h3>CAMERON &amp; CALCASIEU PARISHES,</h3> <h3>LOUISIANA</h3>	
DATE: 03/15/2018		JOBNO: 2018.0180			
DRAWING NAME: 20180180_C3-REV1.DWG					
SHEET NO: 6 OF 7					
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET					
NOT TO SCALE				<b>TBS TBAKER SMITH</b> <small>Geomatics Engineering, Inc.</small> 7777 S. 2nd St., Suite 100, Metairie, LA 70002	
				REV. NO: 01 REV. DATE: 03/22/2018 1 REV. BY: JPD REVISION DESCRIPTION: REVISION AS PER CLIENT REQUEST.	

3/22/2018 - P:\Y-2018\2018.0180\DWG\MAINTENANCE DREDGING 2018\REV\120180180\_C4-REV1.DWG

- NOTES:
- 1. BLACK LAKE SHORELINE BASED ON 1932 QUADRANGLE MAP.
  - 2. STATE CLAIMED WATER BODIES WITHIN THE PROPOSED SPOIL PLACEMENT BOUNDARY TO BE TEMPORARILY FILLED. AFTER SETTLING OF THE SPOIL MATERIAL THE AREA WILL BE DREDGED TO THE EXTENT OF STATE CLAIMED WATERS.
  - 3.) FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.



DRAWN BY: RRB		APPROVED BY: ADM		AREA MAP  CAMERON LNG, LLC  AMEND ED PROPOSED MAINTENANCE DR EDGI NG PLAN  CAMERON LNG TERMI NAL  HACKBERRY AREA  CAMERON & CALCASIEU PARISHES,  LOUISIANA	
DATE: 031151208		JOB NO: 2018.0180			
DRAWING NAME: 20180180_C4-REV1.DWG					
SHEET NO: 7 OF 7					
PROJECTION: LOUISIANA SOUTH GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET					
NOT TO SCALE				( TBS ) T.BA ER M!!!4  ..... CeLat.ro1 3 :T7J73S.2IDIJ ltlamth..ccr	
				REV. NO: 01 REV. DATE: 03/22/2018 REV. BY: JPD  REVISION DESCRIPTION: REVISION AS PER CLIENT REQUEST	