



Wetland Services

Gulf South Research Corporation (GSRC) provides wetland services for various Federal, state, and local agencies, as well as private clients. GSRC's staff biologists have performed over 450 wetland surveys across the Nation. GSRC has successful long-standing relationships with the U.S. Army Corps of Engineers (USACE), and other Federal agencies (e.g., National Fish and Wildlife Service, Natural Resources Conservation Service), as well as state agencies (State Historic Preservation offices, Environmental/Water Quality offices) that are pertinent to the wetland permitting processes.

GSRC's staff, trained in conservation biology, forestry, landscape ecology, habitat restoration, and environmental horticulture, has experience planning and implementing a variety of wetland projects from coastal Louisiana to the deserts of the southwestern United States. Biologists have attended the USACE Regulatory IV Training Course, or its equivalent, and other wetland identification courses offered by the U.S. Fish and Wildlife Service and the private sector. Training has included advanced hydric soils and wetland hydrology courses.

In association with wetland delineations, GSRC prepares Section 404 and 401 Clean Water Act (CWA) permits that are required prior to the deposition of dredge or fill material within wetlands, prepares wetland management plans, and prepares and implements wetland mitigation plans necessary for compliance with agency regulations and executive orders. GSRC staff provides its clients with the ability to take a project proposed for a location within jurisdictional wetlands from the design stage to completion. GSRC staff provides identification and quantification of wetland acreage, preparation of the 404 and 401 permit applications with all supporting documentation, development and implementation of mitigation plans, and post-construction monitoring to ensure compliance with any special conditions of the 404 and 401 permits.



Delineation	Permitting	Mitigation
<p>Wetland Opinions</p> <ul style="list-style-type: none"> Professional wetland opinions on presence or absence of wetlands Site reconnaissance surveys Wetland location maps Wetland size measurements <p>Wetland Delineations</p> <ul style="list-style-type: none"> Site surveys to characterize vegetation, soils, and hydrology Based on 1987 USACE Wetland Delineation Manual and Regional Supplement to the USACE Manual Based on Cowardin Classification System Maps depicting wetlands, waters of the U.S., and other waters using sub-meter accurate Global Positioning Systems Wetland Findings Reports providing details of the site survey findings Liaison between the USACE and the client while obtaining a Jurisdictional Determination Wetland Value Assessments, hydrogeomorphic models, and other wetland delineation methods 	<p>Section 401 Permits</p> <ul style="list-style-type: none"> Permit application preparation Maps, sketches, and other graphics to support application <p>Section 404 Permits</p> <ul style="list-style-type: none"> Nationwide Permits Preconstruction notifications Department of the Army permit application preparation Maps, sketches, and other graphics to support permit application Section 404(b)(1) documentation Site visit liaison with the USACE, U.S. Fish and Wildlife Service, state natural resources departments, and other agencies Quantification of the amount of mitigation required using functional models Liaison between the USACE and the client during the permitting process <p>Coastal Zone Permits</p> <ul style="list-style-type: none"> Coastal Use permit preparation Liaison between client and Coastal Zone Authority 	<p>Mitigation Banks</p> <ul style="list-style-type: none"> Developed in accordance with 33 CFR 332.4 Wetland restoration and enhancement project design Mitigation work plan development Wetland mitigation bank design Mitigation banking instrument development Wetland credit calculations using functional models Mitigation bank establishment (e.g., planting) Long-term oversight to ensure compliance with the mitigation banking instrument and documentation of success criteria Mitigation plans

	Wetland Opinion	Site Survey	USACE Wetlands	Cowardin Wetland	Wetland Findings Report	CWA Section 404/401 Permit	Coastal Zone Permit	Mitigation Quantification	Mitigation Bank Development	GIS Spatial Analysis and Mapping
I-12 to Bush Mitigation Plan (LA)		🌿	🌿		🌿				🌿	🌿
Fort Bliss 2,800-Acre Wetlands and GIS Database (TX)		🌿	🌿		🌿					🌿
New Orleans to Venice 6,000-Acre Wetland Delineation (LA)		🌿	🌿		🌿					🌿
Fort Hunter Liggett Wetland Delineation (CA)		🌿	🌿	🌿	🌿	🌿		🌿		🌿
Texada Wetland Mitigation Bank (LA)		🌿	🌿		🌿	🌿		🌿	🌿	🌿
Wetland Delineation for 21 Water Bodies, Fort Gordon (GA)		🌿	🌿		🌿					🌿
NAVFAC SE Whiting Field Wetlands (FL)		🌿	🌿	🌿	🌿		🌿	🌿		🌿
Plaquemines Parish 600-Acre Wetlands (LA)		🌿	🌿		🌿					🌿
Naval Station Mayport Wetlands (FL)		🌿	🌿		🌿					🌿
Juban Parc Wetlands and Permitting (LA)	🌿	🌿	🌿		🌿	🌿	🌿	🌿		🌿
Naval Outlying Landing Field Goliad Wetlands (TX)		🌿	🌿	🌿	🌿					🌿
Preserve Wetlands and Permitting (LA)	🌿	🌿	🌿		🌿	🌿	🌿	🌿		🌿
Whitewater Draw Wetland Permitting & Mitigation, Douglas (AZ)		🌿	🌿		🌿	🌿		🌿		🌿
FEMA Wetland Delineations (MS)		🌿	🌿		🌿					🌿
Bercham Wetland Mitigation Area I & Area II (LA)		🌿			🌿			🌿	🌿	
Personnel Recovery Supplemental EA (AZ)		🌿	🌿							
Rosedale Wetland Mitigation Bank (LA)		🌿	🌿		🌿	🌿		🌿	🌿	🌿
Mangham 212-Acre Wetlands (LA)		🌿	🌿		🌿			🌿		🌿
JPB Holdings Wetlands and Permitting (LA)	🌿	🌿	🌿		🌿	🌿		🌿		🌿
England Airpark Wetland Delineation (LA)		🌿	🌿		🌿			🌿		🌿
Meadowbrook 100-Acre Wetland Delineation and Permitting (LA)	🌿	🌿	🌿		🌿			🌿		🌿
Allen Wetland Delineation and Permitting (LA)		🌿	🌿		🌿	🌿		🌿		🌿
Fort Bliss Wetland Delineation and Mapping (TX)		🌿	🌿	🌿	🌿					🌿
Whiting Field Wetland Delineations (AL, FL))		🌿	🌿		🌿					🌿
Gapfiller Wetland Delineation, USBP, San Diego County (CA)		🌿	🌿		🌿	🌿				🌿
Wisteria Place Subdivision Wetland Delineation & Permitting (LA)		🌿	🌿		🌿	🌿		🌿		🌿
Springlake Wetlands and Permitting (LA)	🌿	🌿	🌿		🌿	🌿		🌿		🌿
Spring Canyon Wetland Mitigation Plan (CA)								🌿		🌿
Bayou View Estates Wetlands Permitting (LA)		🌿	🌿		🌿	🌿		🌿		🌿
Natural Resources Survey, U.S. Navy, Stennis WMA (MS)		🌿			🌿					🌿
LJC Land Company 113-Acre Wetlands Delineation (LA)		🌿	🌿		🌿					🌿
Fort Polk Boggs and Seeps Identification and Mapping (LA)		🌿	🌿							🌿
Nationwide Permit for Commercial Park, Ascension Parish (LA)		🌿	🌿		🌿	🌿		🌿		🌿
SBlnet Ajo 1 Tower EA (AZ)		🌿	🌿							
Livingston Road Extension Wetlands Permitting (LA)		🌿	🌿		🌿	🌿		🌿		🌿
Bob Sikes Airport Wetlands (FL)	🌿	🌿	🌿		🌿					



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