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UNO Research & Technology Park
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**WPA Road Boat Launch
Des Allemands, St. Charles Parish, LA
Mitigation & Permit Fee Cost Estimate
April 17, 2012**

The proposed boat launch site is located off WPA Road (Hwy 633) near Des Allemands, LA. The site consists of approximately 3.75 acres of land. Access from WPA Road is by a gravel road with parallel open swale ditches. The proposed site is maintained agriculture land and levee improvements with adequate surface drainage capacity. Per the Preliminary Wetland Assessment from Hydrik Wetland Consultants dated April 11, 2012, the site consists of 2.17 acres of wetlands. A copy of the report is attached for review.

In order to provide a cost estimate for mitigation, GCR Inc. conducted a Modified-Charleston Method (MCM) wetland assessment to determine the wetland impacts for the project. Below is a summary of the MCM results:

| <u>SUMMARY WORKSHEET</u> | | | | | | | | | |
|--|---|---|---------|-------|------|-----|------|--|--|
| Mitigation Summary Worksheet For Permit Application | | 2012-xxxx-xxxxx | | | | | | | |
| Mitigation will be performed at: | | PARADIS MITIGATION BANK | | | | | | | |
| AND/OR Mitigation will be permittee-responsible and | | 0 | | | | | | | |
| | | | | | | | | | |
| <u>1. Impacts to be Mitigated</u> | | <table border="1"><tr><th>Credits</th><th>Acres</th></tr><tr><td>11.1</td><td>2.2</td></tr></table> | Credits | Acres | 11.1 | 2.2 | | | |
| Credits | Acres | | | | | | | | |
| 11.1 | 2.2 | | | | | | | | |
| <u>2. Out of Basin Factor</u> | <table border="1"><tr><th>Required</th><th>Value</th></tr><tr><td>Yes</td><td>#N/A</td></tr><tr><td>No</td><td>1.00</td></tr></table> | Required | Value | Yes | #N/A | No | 1.00 | | |
| Required | Value | | | | | | | | |
| Yes | #N/A | | | | | | | | |
| No | 1.00 | | | | | | | | |
| <u>3. Permittee-Responsible Mitigation Credit Summary</u> | | <table border="1"><tr><th>Credits</th><th>Acres</th></tr><tr><td>0.0</td><td>0.0</td></tr></table> | Credits | Acres | 0.0 | 0.0 | | | |
| Credits | Acres | | | | | | | | |
| 0.0 | 0.0 | | | | | | | | |
| <u>4. Banking Mitigation Credit Summary</u> | | <table border="1"><tr><th>Credits</th><th>Acres</th></tr><tr><td>11.1</td><td>2.4</td></tr></table> | Credits | Acres | 11.1 | 2.4 | | | |
| Credits | Acres | | | | | | | | |
| 11.1 | 2.4 | | | | | | | | |
| <u>IV. Grand Totals</u> | | <table border="1"><tr><th>Credits</th><th>Acres</th></tr><tr><td>11.1</td><td>2.4</td></tr></table> | Credits | Acres | 11.1 | 2.4 | | | |
| Credits | Acres | | | | | | | | |
| 11.1 | 2.4 | | | | | | | | |

In order to mitigate the 2.17 acres of wetlands impacted at the boat launch site, 2.4 acres of mitigation-acre credits would have to be acquired from Paradis Mitigation Bank. The cost charged per acre at the mitigation bank for past Parish transactions was \$20,000. Therefore it is estimated that **\$48,000** in project funding is required to mitigate wetland impacts for the boat launch project.



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April 17, 2012
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The purchase of 2.4 acre credits from the Paradis Mitigation Bank would satisfy the requirements of the U.S. Army Corps of Engineers. Because the wetland impacts occur within the Sunset Drainage District, the Louisiana Department of Natural Resources, Office of Coastal Management should classify the impacts as fastland habitat and not require mitigation.

In addition to satisfying wetland mitigation regulations, the following project permits will be required before construction can be awarded:

- ✓ Section 10 (Corps)
- ✓ Section 404 (Corps)
- ✓ Coastal Use Permit (LDNR)
- ✓ Right-of-Way Permit (DOTD)
- ✓ Water Bottom Class B Permit (State Lands)
- ✓ Water Quality Certification (LDEQ)

The Joint-Use Permit Application processing fee for this activity would be \$100 plus \$0.05 per cubic yard of deposited fill for the project including within water-bottoms. The mitigation processing fee is based on the wetland impacts and estimated at \$500. Assuming the use of 50,000 cubic yards of fill, permitting fees to obtain the above approvals from the regulatory agencies are estimated at **\$3,100**.

Please note, the above estimate for permit fees and mitigation does not include the design and permitting fees charged by the agent filing the applications on the Parish's behalf. Additionally, the above required permit list is non-exclusive and is only meant to represent the level of coordination necessary by the Parish's agent to obtain the project approvals.

Preliminary Wetland Assessment
~3.75 acres in Des Allemands, La.
St. Charles Parish

Prepared and Transmitted

by:



Hydrik Wetlands Consultants
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Hammond, LA 70401
985 429 0333
www.hydrik.com

for:

St Charles Parish Department of Public Works

Please Note:

In an effort to reduce paper consumption, all reports are transmitted to the client digitally. A hard copy will be provided upon request only.

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April 11, 2012

St Charles Parish Department of Public Works
100 River Oaks Dr.
Destrehan, La 70047

Attn. St Charles Parish Department of Public Works
Re. ~3.75 acre “boat launch” tract in Des Allemands, LA.

The purpose of this preliminary in field site analysis is to assess the areas which will potentially be classified as wetlands and/or other waters by the U.S. Army Corps of Engineers on a tract described as ~3.75 acres in Des Allemands, LA. The following report consists of map data derived primarily from infrared aerial photography and digital elevation data. A field investigation was performed to confirm our preliminary findings and generate a map of the approximate wetland/waters boundaries (Figure 3).

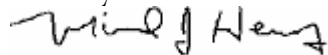
Jurisdictional wetlands are defined as “areas that are inundated or saturated at a frequency and duration sufficient to support, and that under normal circumstances do support a prevalence of vegetation typically adapted for life in saturated soil conditions”. The three mandatory criteria in reviewing and determining the potential presence of wetlands are hydric soils, hydrophytic vegetation, and wetland hydrology. All three characteristics must be present for a wetland area to be established.

Based on map data and field reconnaissance, we feel that 2.17 acres of jurisdictional wetlands exist on site. In addition, a ditch parallels the foot of the east side of the levee. This ditch will likely be classified as “other waters” by the Corps along with the ditches that parallel the entrance road outside of the delineated boundary. Impacts to the wetland areas will require permitting and mitigation under Section 404 of the Clean Water Act and impacts to waters will require permitting but no mitigation.

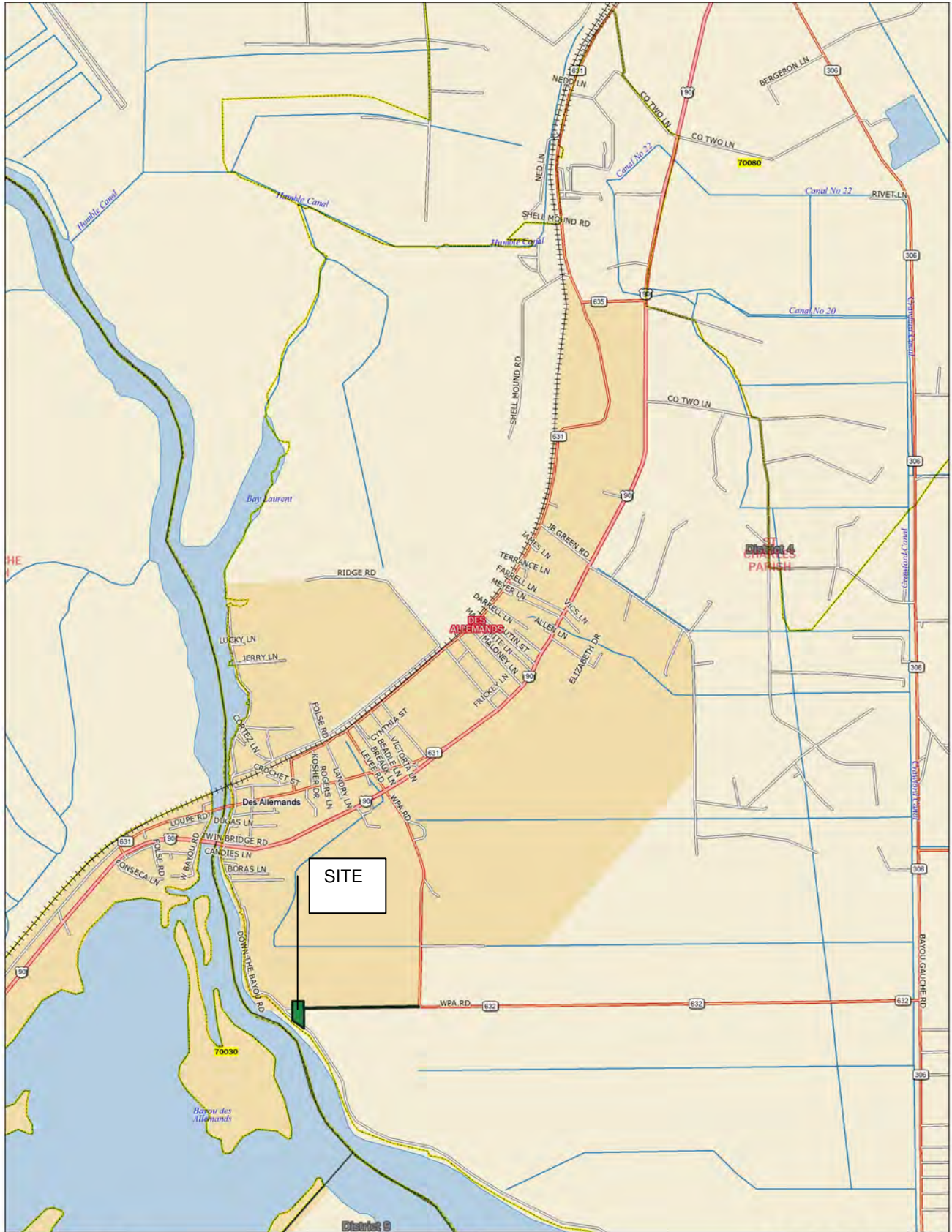
It will take approximately 2 months to get the formal wetland map/delineation approved by the Corps if we proceed with formal delineation of the site. Once the delineation is approved, which is a prerequisite to applying for a permit, it will take an additional 4-5 months to permit the wetlands for impact under Section 404 of the Clean Water Act.

Please keep in mind this is strictly a preliminary assessment and in no way replaces a legally jurisdictional delineation as approved by the US Army Corps of Engineers.

Sincerely



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