

WETLAND ASSIMILATION SERVICES

Environmental

WHY DISCHARGE INTO NATURAL WETLAND SYSTEMS?

CONVENTIONAL SYSTEM DISCHARGE:

- Meets at least secondary treatment standards
- May cause eutrophication
- Increases algae population
- Has adverse water quality impacts
- May require substantial additional capital and operational and maintenance costs to achieve standards more stringent than secondary treatment standards

NATURAL WETLAND SYSTEM DISCHARGE

- Provides natural advanced treatment of treated wastewater
- Enhances the quality of wetland systems
- Cost effective method of achieving treatment standards

HOW CAN PROVIDENCE HELP?

PROVIDENCE CAN HELP YOU BY:

- Conducting feasibility study involving engineering design studies and biological/ecological surveys
- Conducting a baseline study to characterize wetland system and establish baseline data
- Preparing and submitting a Louisiana Pollutant Discharge Elimination System (LPDES) permit application to the Louisiana Department of Environmental Quality (LDEQ)
- Negotiating the final LPDES permit with the LDEQ
- Conducting long-term wetland system monitoring in accordance with the final LPDES permit

WHAT'S THE PROCESS?

INITIAL EVALUATION, IDENTIFICATION, AND LONG-TERM MONITORING:

Wetland Flora:

Monitoring of the tree and understory plant association

Sediment Chemical Quality:

Monitoring of the sediment for trace metals and nutrients

Surface Water Level and Quality Analysis:

Monitoring of the surface water for metals, nutrients, and conventional parameters

Accretion:

Monitoring the buildup of organic and inorganic material up on the marsh surface



PROVIDENCE