

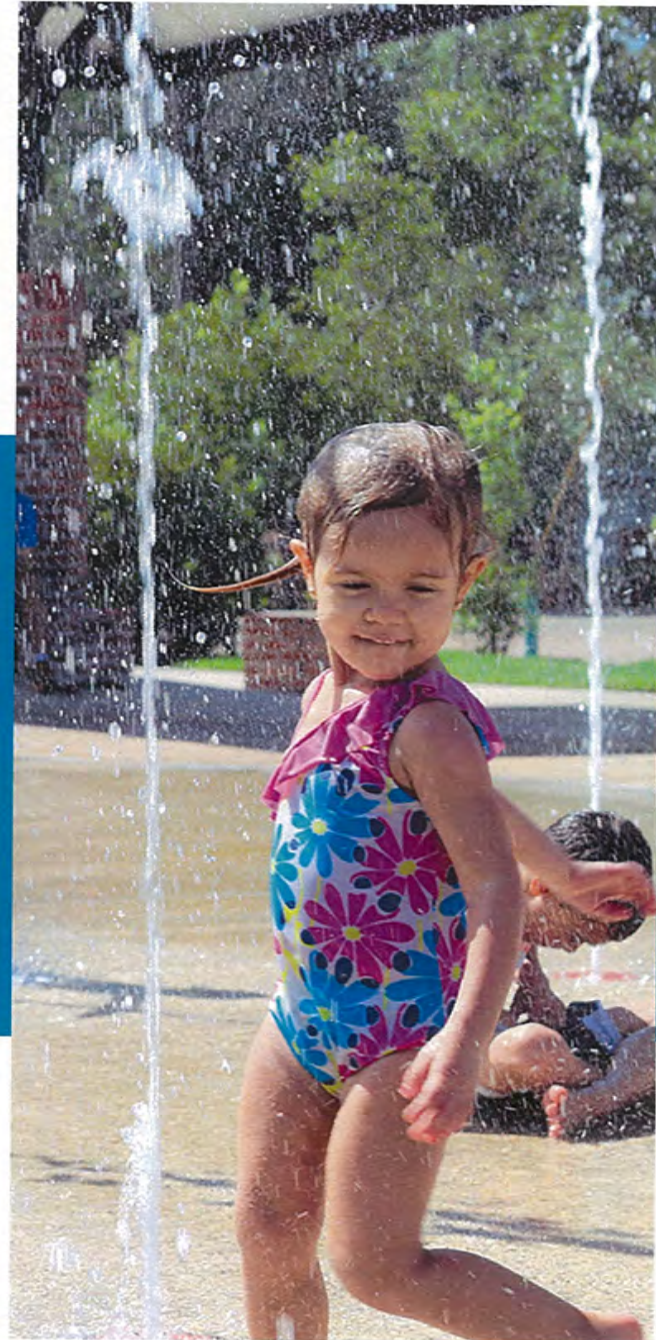


St. Tammany Parish 2018 MS4 Annual Report

St. Tammany Parish Government
Planning & Development-Engineering

Watershed Management Mission Statement

“ The mission of the St. Tammany Parish Watershed Management Program is to protect and enhance water quality in St. Tammany Parish through a targeted watershed approach. ”





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St. Tammany Parish

2018 MS4 Annual Report

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St. Tammany Parish 2018 MS4 Annual Report A. General Information

A. General Information

Name of MS4: ST. TAMMANY PARISH GOVERNMENT

Contact Name: SABRINA SCHENK/WATERSHED COORDINATOR

Telephone Number: 985-809-7448

Email Address: stormwater@stpgov.org

Signatory Authority: PATRICIA P. BRISTER/PARISH PRESIDENT

Annual Report Period: JANUARY 1, 2018 - DECEMBER 31, 2018



St. Tammany Parish 2018 MS4 Annual Report A.1 MS4 Compliance Statement



A.1 MS4 Compliance Statement

St. Tammany Parish Government ("STPG") continued to maintain compliance with the Municipal Separate Storm Sewer System ("MS4") Permit conditions. STPG continued to expand and improve the water quality program. Self-evaluation of the MS4 takes place, at least annually, to ensure permit compliance and program excellence.

The STP Stormwater Management Program ("SWMP"), 2017 revision, and the Water Quality Action Plan are evaluated annually for compliance with Total Maximum Daily Loads ("TMDL") for the impaired, 303(d) listed waterbodies located in St. Tammany Parish. Several TMDL waterways in the Parish have been assigned Waste Load Allocations ("WLA") for pollutants of concern providing more stringent discharge limits on the affected waterways. The SWMP will be revised, as needed, to address the escalating and evolving requirements of the general permit for small MS4s.

STPG departmental MS4 Liaisons continued to submit documentation of related activities in their jurisdiction. Quarterly internal reporting by each applicable department is submitted to a central MS4 file that is maintained on the STPG computer network.

STPG continued to maintain the stormwater website to improve public awareness and provide a central location for MS4, stormwater, water quality, and watershed information (<http://www.stpgov.org/stormwater-information>).

The STPG Stormwater Ordinance was adopted to better maintain MS4 compliance regarding water quality protection, illicit discharges, stormwater plan review, construction controls, post construction controls, escalated enforcement, etc. The stormwater ordinance will be revised, as needed, to address the escalating and evolving requirements of the general permit for small MS4s.



A.1 continued

STPG continued to achieve MS4 compliance by utilizing ordinances, policies, and programs to address the requirements as specified in the six Minimum Control Measures ("MCM").

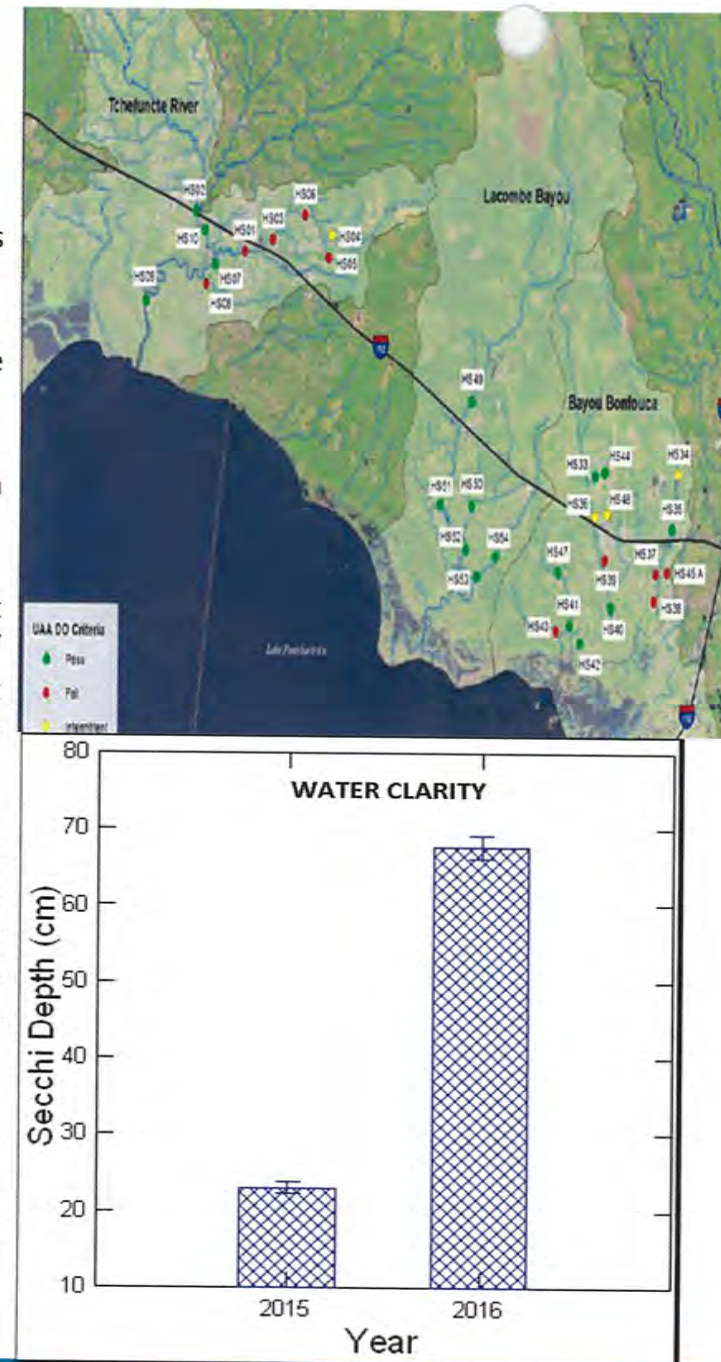
STPG continued to evaluate and assess the status in achieving the identified measurable goals, to the Maximum Extent Practical ("MEP"), for each MCM.

STPG continued good housekeeping procedures and pollution prevention practices with respect to municipal operations and parish projects.

STPG continued to implement the Water Quality Action Plan, including Hot Spot monitoring, pond sampling & monitoring, individual sewer system inspection/repair/replacement program, Pollution Source Tracking and the Decentralized Management Program to address low dissolved oxygen, turbidity, and bacteria resulting from new development, unsewered subdivisions, and wastewater discharges.

STPG continued to perform Water Quality Impact Modeling on new subdivisions & large commercial developments on critical Parish waterways. The monitoring program results are shared with LDEQ as an attachment to Water Quality Certification response letters from STPG. The proposed developments may be required additional BMPs or alternate discharge sites to prevent degradation to the receiving water body and/or to meet TMDLs and WLAs in an effort to protect water quality in Parish waterbodies.

STPG continued to sample parish retention ponds, in targeted watersheds, for water quality retrofits such as aeration or planting. This protocol for pond retrofits is based on the results of pond monitoring which indicated that vegetative planting is the best BMP for dry ponds and aeration is best BMP for wet ponds (exceeding the Removal Efficiencies and effluent quality of the International Stormwater Database, 2014).



A.1 continued

STPG continued the Pollution Source Tracking Program. Significant funding continued to be awarded by grants and/or budgeted to support door-to-door inspections of homeowner on-site sewer treatment systems and water quality sampling to verify waterbody improvements. Load reductions were quantified and models were run to demonstrate the positive impacts on receiving waterbodies directly related to the inspection program.

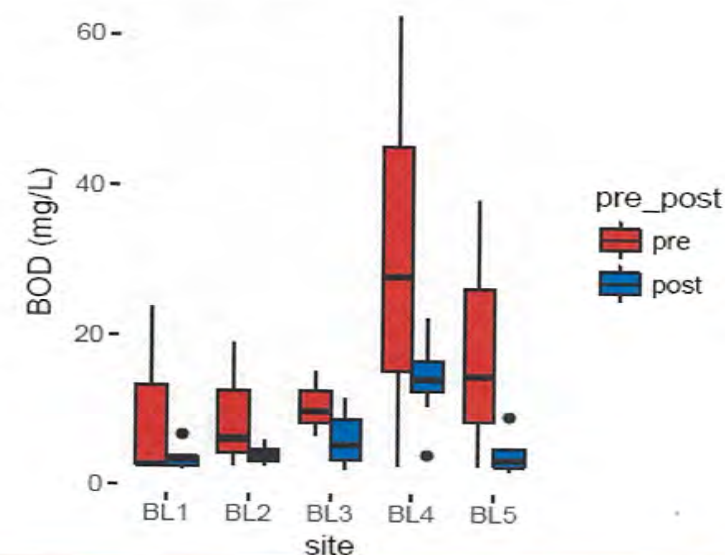
A list of subdivisions was developed describing the numbers of lots platted in each, year of recordation, and watershed. The list was sorted by unsewered subdivisions and watershed; then a schedule of inspections was determined. Press releases notified the residents regarding the schedule of inspections, so that they might have their units serviced, solids pumped-out, or other maintenance performed prior to the scheduled inspection dates.

STPG Monthly Water Quality/Regulatory meetings were held and included personnel from STPG departments, such as: Administration, Planning and Development (Watershed & Regulatory), Environmental Services, etc. These meetings establish internal dialogue for the STPG to address watershed topics such as stormwater, water quality, sewerage, public outreach, etc.

STPG continued to perform stormwater review and inspections on all new construction projects. A Stormwater Site Plan & Stormwater Agreement is required for all new construction permits in the Parish. Contractors & developers no longer have deniability regarding LDEQ and/or STPG stormwater requirements.



BOD Pre and Post Project Start



A.1 continued

STPG performed a field assessment of STPG-maintained ponds to determine potential water quality retrofits to existing retention/detention ponds. The ponds were prioritized based by discharge into a targeted waterways that are impacted by unsewered subdivisions and/or illicit discharges. STPG allocated funds to provide assessments for installation of water quality retrofits for ponds in targeted watersheds, water quality monitoring, aeration on wet ponds, and vegetative planting on dry ponds. BMPs, such as water quality retrofits continued to be funded and implemented.

STPG continued its in-house training and qualification program for field personnel, drainage/stormwater inspectors, and key field personnel . Training included at least one of the following: a stormwater training video, a regulatory presentation, or field training.

STPG continued to coordinate with council districts, drainage districts, and the Grants Department to identify funding for pollution source tracking, individual sewer system upgrades, hot spot monitoring, water quality sampling/analysis, vegetative planting/aeration of ponds, and other stormwater retrofits in the Parish.

STPG continued the Local Coastal Management Program which reduced and controlled impacts to coastal wetlands. Stormwater review is performed on all projects deemed a Local Concern in the STPG Coastal Management Zone ("CMZ"). Stormwater BMPs are required for all projects located in the CMZ (south of I-12).



A.1 continued

STPG continued in-house Water Quality Impact Modeling (“WQIM”) for all new developments and redevelopments, particularly in areas with TMDLs and/or Outstanding Natural Resource Waterways (“ONRW”). New developments were modeled to determine potential water quality impacts related to new development.

When a subdivision or commercial development plan has been approved and its plat is recorded at the courthouse, the development’s loads (stormwater and wastewater) are permanently coded into the respective watershed models. This “model maintenance” becomes the new calibration input dataset, so that subsequent developments will discharge into a waterbody that reflects reduced assimilative ability. Subsequent developments may be required to implement additional BMPs if adequate allocations are not available.

The WQIM program also provided the documentation needed to produce Water Quality Certification (“WQC”) letters that were requested by regulatory agencies prior to releasing permits for large developments.

STPG continued water quality education initiatives for area students at Camp Salmen. An expanded program included water quality monitoring and the adopt-a-pond program, both of which were performed by supervised student volunteers.

STPG continued the Litter Abatement Program to prevent roadside litter from entering the storm sewer system and/or waterways. Litter abatement is performed by community service volunteers.





St. Tammany Parish 2018 MS4 Annual Report A.2 Minimum Control Measures



Minimum Control Measure	BMP	Measurable Goal	Quantifiable Results	Comments
Public Education & Outreach regarding SW & WQ	Complaint response	Provide resolution to citizen complaints regarding drainage, flooding, and stormwater quality.	Complaints by citizens: WQ & Sewer 16, Drainage 291, Storm Sewer 1299, Junk, Trash, & Debris 81.	Complaints are tracked in a database housed in the Public Works.
Public Education & Outreach regarding SW & WQ	SW, Water Quality and Watershed webpages	Provide Water Quality & Stormwater information on the STP website.	1,099 visits to WQ, 844 visits to SW Watershed 469, totaling 2,412 visits.	WQ and Watershed webpages were added to the website last year.
Public Education & Outreach regarding SW & WQ	KSTB & ES web pages	Provide Keep St. Tammany Beautiful (KTSB) & Environmental Services (ES) information on the STP website.	9,579 visits to KSTB, 639 visits to Sewer, & 5,982 visits to Environmental Services.	Concerned citizens visit website for information regarding various topics.
Public Education & Outreach regarding SW & WQ	Educational material	Provide outreach materials such as pamphlets, booklets, fact sheets, etc.	2,349 building permit applicants received SW & sewer system information.	Inspections confirm compliance with sewer system & SW requirements.
Public Education & Outreach regarding SW & WQ	Homeowner education	Provide individual sewer system information to homeowners.	2,090 homeowners educated about proper O&M of individual sewer systems.	Homeowner education takes place during STP decentralized management program inspections.
Public Education & Outreach regarding SW & WQ	WQ Protection Area Signage	Provide increased community awareness of WQ.	Public works received 655 work orders for WQ signs. 653 installed this year.	WQ signs are placed in areas targeted for WQ protection and/or improvement.
Public Education & Outreach regarding SW & WQ	Public Works webpage	Provide Public Works information on the STP website.	20,845 work orders completed on the MS4 storm sewer system.	Online work orders requests may be made by citizens on the PWs webpage.

Minimum Control Measure	BMP	Measurable Goal	Quantifiable Results	Comments
Public Involvement & Participation	Volunteer Litter Abatement Program	Adopt-a-Road, Community Service, & Keep St Tammany Beautiful clean litter from roadways, shoulders, & ditches.	200,805 lbs litter (11,713 bags) were collected from 1,049 miles of roadway in the Parish and 434 tires.	1,318 volunteers assisted in the litter removal. Litter removed from roadways prevents litter from ending up in waterways.
Public Involvement & Participation	Individual Sewer Inspection & Permit Program for new service or transfer of electricity.	Homeowners provide sewer pump-outs, repairs, or replacements to obtain permits and electricity.	2090 homeowners educated about proper operation & maintenance of sewer system.	Proper operation & maintenance of sewer systems prevent WQ degradation related to failing systems.
Public Involvement & Participation	Individual Septic Systems replaced with ATUs	Homeowners required to replace septic tanks that were identified through various inspection programs	166 septic tanks were replaced.	Homeowners learn to the proper operation & maintenance of their new ATUs to prevent WQ degradation related to failing systems.
Public Involvement & Participation	Household Hazardous Waste Days	Citizens volunteer to work the event and participate in proper disposal of Household Hazardous Waste.	139,113 lbs. of HHW collected for proper disposal.	900 households in 748 vehicles participated in HHW Day.
Public Involvement & Participation	Enforcement & Inspections	Reports/complaints are investigated & corrective action taken as needed	1,230 Code Enforcement cases were investigated.	Citizen reports & complaints contributed information for approximately 2/3 of the total violations.
Public Involvement & Participation	Camp Salmen Nature Park & Adopt-a-Pond Program	Encourage students to participate in WQ monitoring & sampling, wetlands & watersheds investigations.	Over 500 elementary students & summer campers participated. 7 schools performed WQ monitoring and/or adopted a pond.	Students learn to appreciate WQ & the environment become good stewards of WQ and the environment.

Minimum Control Measure	BMP	Measurable Goal	Quantifiable Results	Comments
Illicit Discharge Detection & Elimination	Inspections of non-exclusive franchise sewer treatment plants	Quarterly inspections are performed such that each facility is inspected annually.	38 inspections were performed by the Department of Environmental Services.	Any deficiencies noted at inspection were corrected in a timely manner.
Illicit Discharge Detection & Elimination	Individual sewer systems inspected upon <u>new service or transfer of electricity</u>	Failed sewer systems are required to pump-out, repair, or replace with a new system.	2090 systems were inspected & permitted with 166 homeowners required to install new sewerage systems, due to the inspection program for electrical service.	Failed sewer systems were required to pump-out, repair, or replace system to receive the STP Permit.
Illicit Discharge Detection & Elimination	Individual sewer systems Inspections of individual homeowner on-site Treatment Units through <u>Decentralized Management Program</u>	Department of Environmental Services water quality improvement program based upon lessons learned through the EPA-grant-funded Pollution Source Tracking Program.	1833 inspections were conducted (Over 90% compliance rate after the re-inspects).	Program is highly efficient achieving compliance. Failed systems are required to repair, perform maintenance, or upgrade to a new system. Failure to comply results in enforcement action.
Illicit Discharge Detection & Elimination	Inspection and upgrade individual sewer systems	Failing individual sewer systems are abandoned in favor of tie-ins to community sewer systems.	317 tie-ins to community sewer systems.	Tie-ins to community sewer systems eliminate illicit discharges from failing individual sewer systems.
Illicit Discharge Detection & Elimination	Solid waste and septic waste controls	Waste haulers are permitted by the Parish and required to meet regulatory requirements.	94 solid waste hauler & 88 septic waste hauler permits issued this year.	Parish solid/septic waste hauler permits prevent dumping into waterways.

Minimum Control Measure	BMP	Measurable Goal	Quantifiable Results	Comments
Illicit Discharge Detection & Elimination	Individual sewer systems Inspections of individual homeowner on-site Treatment Units through <u>Grant-funded Pollution Source Tracking (PST) Program: Septic Tank ID and Replacement</u> from	Department of Health & Human Services and Department of Environmental Services water quality improvement project.	166 septic systems identified through the PST program; some qualified for HUD/CDBG grant funding. Most were replaced with compliant ATUs. Remainder are on a list waiting for additional funding.	Grant funding for low to moderate income households provided by HUD/CDBG grants.
Illicit Discharge Detection & Elimination	Individual sewer systems Inspections of individual homeowner on-site Treatment Units through <u>Grant-funded Pollution Source Tracking Program: Septic Tank ID and Replacement</u>	Department of Environmental Services water quality improvement project.	Of the 65 non-grant-eligible septic units, most were replaced, some have temporary permits to install new systems. The rest are working with the Parish and LDH.	Failed systems are required to repair and/or maintain within 60 days. Failure may result in electrical shut-off.
Illicit Discharge Detection & Elimination	Individual sewer systems Inspections of individual homeowner on-site Treatment Units through <u>Grant-funded Pollution Source Tracking Program: Repairs to Aerobic Treatment Units (ATUs).</u>	Department of Health & Human Services and Department of Environmental Services water quality improvement project.	22 repairs to ATUs for low income home owners. Repairs range from pump-outs, to electrical service, to replacing aerators, etc.	Grant funding for low to moderate income households provided by HUD/CDBG grants.

Minimum Control Measure	BMP	Measurable Goal	Quantifiable Results	Comments
Illicit Discharge Detection & Elimination	SW Ponds retrofitted with WQ BMPs	Retrofitted ponds produce WQ characterizations of effluent quality and removal efficiencies per BMP. This information allows STP to track & reduce pollutant loads.	72 ponds of 80 parish maintained ponds were assessed and targeted for retrofitting.	Effluent quality of retrofitted ponds may be characterized and quantified for removal efficiencies of the BMP retrofit.
Illicit Discharge Detection & Elimination	WQ Monitoring	Monitoring provides monthly monitoring data for targeted watersheds and/or TMDL waterbodies. Data is used to identify/track areas that need reduced pollutant loads.	Pollutant reduction since baseline sampling in targeted watersheds: Bayou Liberty 50-400%, Abita River 20-80%.	Tracking pollutant reduction in targeted watersheds. Also utilized in planning for areas that exhibit degradation & will require additional BMPs.
Illicit Discharge Detection & Elimination	Litter Abatement	Litter abatement protects water quality by preventing litter from entering waterway.	329 litter investigations and/or violations.	Violators are required to clean up their property.
Illicit Discharge Detection & Elimination	Maintenance and repair of the MS4 storm sewer system.	Maintenance and repairs performed on the MS4 storm sewer system protect water quality by preventing illicit discharges from the MS4.	20,845 work orders completed on the MS4 storm sewer system.	Both routine PW maintenance work orders and citizen work order requests make up the work order total.

Minimum Control Measure	BMP	Measurable Goal	Quantifiable Results	Comments
Construction Site Stormwater Controls	SW inspections performed on construction sites	Qualified staff to perform inspections on construction sites	2,349 residential & 1524 commercial sites had Stormwater - Drainage inspections (minimum 2 inspections per site).	Failed inspections must make corrections & pass a re-inspection.
Construction Site Stormwater Controls	Coastal use controls	Permits are reviewed for coastal use during new construction permit review	Reviewed 212 Coastal Use Permit (CUP) applications (50 NDSIs & Exemptions, 45 NDSIs, 5 LCUPs issued, 6 applications Withdrawn, 2 Incomplete Reviews, 4 LNOs).	Coastal Use permittees are required to minimize water quality impacts in the Coastal Zone.
Construction Site Stormwater Controls	Plan Review	Plans for new construction are reviewed to prevent adverse drainage & SW impacts	1,524 development plans reviewed.	Plan review prevents potential water quality impacts.
Construction Site Stormwater Controls	Stormwater Agreement	Applicants for all new construction permits complete Stormwater Agreements.	2,349 building permit applicants completed a Stormwater Agreement.	Applicants agree to comply with LDEQ & STP SW requirements.
Construction Site Stormwater Controls	Stormwater Site Plan	SW Site Plans are reviewed to prevent adverse drainage & SW impacts	2,349 building permit applicants completed a Stormwater Site Plan.	Inspectors confirm compliance with Site Plan & SW regulations during inspections.

Minimum Control Measure	BMP	Measurable Goal	Quantifiable Results	Comments
Post Construction Stormwater Controls	Parish maintained ponds are assessed for SW retrofits.	Improved WQ and removal efficiencies on STP ponds.	72 ponds were assessed for SW retrofits to improve SW effluent discharges.	Vegetation reduces & filters stormwater to improve WQ.
Post Construction Stormwater Controls	Retention requirements for subdivisions & commercial sites	Required 25% SW reduction in all large developments.	29 subdivisions, 64 minor subdivisions, & 13 right of way projects.	Subdivision retention/detention Ponds provide stormwater storage, settling and polishing of pollutants.
Post Construction Stormwater Controls	Pond installation controls	Pond permits are issued with requirements for detention, buffer, requirements, fill, etc.	9 Pond permits were issued by Planning & Development.	Ponds provide stormwater retention which provides settling for pollutants prior to discharge.
Post Construction Stormwater Controls	Land clearing controls	Land clearing permits are issued with buffer and storm-water requirements.	50 land clearing permits were issued by Planning & Development..	No-cut buffers and SW controls prevents water quality degradation.
Post Construction Stormwater Controls	Site work controls	Site work permits improve oversight of grading, excavation, flatwork, drainage infrastructure, etc.	15 site work permits were issued by Planning & Development.	Each Site Work Permit will receive stormwater and water quality review prior to permit issuance.
Post Construction Stormwater Controls	Water Quality Impact Modeling	Model results assist in the selection of post construction controls to protect WQ by meeting TMDLs, WLAs, & preventing WQ degradation.	201 Water Quality Impact Models ran for proposed new projects or developments in STP.	Additional controls may be required for proposed development based on the modeling results. Antidegradation of WQ is prohibited in the STPG SW ordinance.

Minimum Control Measure	BMP	Measurable Goal	Quantifiable Results	Comments
Municipal Good Housekeeping & Pollution Prevention	SW and MS4 training	In-house training to qualify appropriate in SW & MS4 compliance.	20 employees of Public Works participated in training.	Pollution Prevention training increases staff awareness.
Municipal Good Housekeeping & Pollution Prevention	Maintenance of roads, ditches, & storm sewers	Complete work orders for road & drainage infrastructure	1,500 miles of roads & 500 miles of drainage ditches maintained.	Roads & drainage are maintained by Public Works.
Municipal Good Housekeeping & Pollution Prevention	SW and MS4 training	Inspectors, enforcement officers, engineers, & planners receive stormwater training.	STP has inspectors & engineering staff are qualified SW inspectors.	Training is specific to our new SW Ordinance requirements.
Municipal Good Housekeeping & Pollution Prevention	Maintenance of SW Ponds, wet & dry detention	Complete work orders for pond maintenance.	72 detention ponds were maintained.	Ponds are maintained by Public Works.
Municipal Good Housekeeping & Pollution Prevention	Assessment of SW Ponds, wet & dry detention	Parish maintained ponds were assessed and prioritized for WQ needs according to proximity to TMDL waterways.	72 ponds were assessed for potential rehabilitation projects and/or WQ retrofits.	Ponds are maintained by PW. Pond Assessments were conducted by staff.
Municipal Good Housekeeping & Pollution Prevention	GIS Maps created for WQ, TMDL, MS4, etc.	Maps generated facilitate municipal good housekeeping & pollution prevention.	58 maps produced by GIS.	Maps are produced by the Department of Technology-GIS.
Municipal Good Housekeeping & Pollution Prevention	Facilitate Interdepartmental communication	MS4 Liaisons from STP departments to participate in reporting procedures.	20 MS4 Liaisons aid in compilation of MS4 Annual Report.	Compilation of the Annual Report facilitates evaluation of Minimum Control Measures.
Municipal Good Housekeeping & Pollution Prevention	Vehicle maintenance performed indoors and/or under cover	Keep vehicles running efficiently to prevent oil leaks, etc.	431 Vehicles maintained by Public Works (Fleet & Trace).	Properly maintained vehicles prevent WQ degradation.

Minimum Control Measure	BMP	Measurable Goal	Quantifiable Results	Comments
Stormwater Enforcement	Litter Violations	Litter investigations & enforcement protects water quality by preventing litter from entering waterway.	329 litter investigations and/or violations.	Violators are required to clean up their property.
Stormwater Enforcement	Emergency response to hazardous material emission at local plant.	Emergency response provided support & cooperation to other responding agencies.	Responded to 0 hazardous materials events.	EOC activates in the event of hazardous materials excursions.
Stormwater Enforcement	Public Records Requests are provided for complaints, litigation, drainage, MS4, storm-water, and/or development.	Documents provided to persons making requests for public documents.	99 Public Records Requests were related to water quality, sewer, drainage, complaints, litigation, MS4, SW, or development.	571 Total Public Records Requests were filled by the Legal Department.
Stormwater Enforcement	Cooperative Endeavor Agreements (CEA) for water quality testing and/ or monitoring.	Legal confection of document prior to contractual acceptance.	6 CEAs active during the year for Bayou Liberty, Abita River, Cypress Bayou, Ponchitolawa, & WQ Sampling & Analysis.	CEAs with Southeastern LA University Microbiology Testing Laboratory & Lake Pontchartrain Basin Foundation for stream flow, GW & WQ testing & monitoring.
Stormwater Enforcement	Administrative Hearings	Adjudication of SW & WQ violations during an administrative hearing officiated by a judge.	24 Administrative Hearings held with drainage, fill, SW, or WQ violations.	Violators are required to pay fines & court costs.



St. Tammany Parish 2018 MS4 Annual Report A.3 MS4 Maps

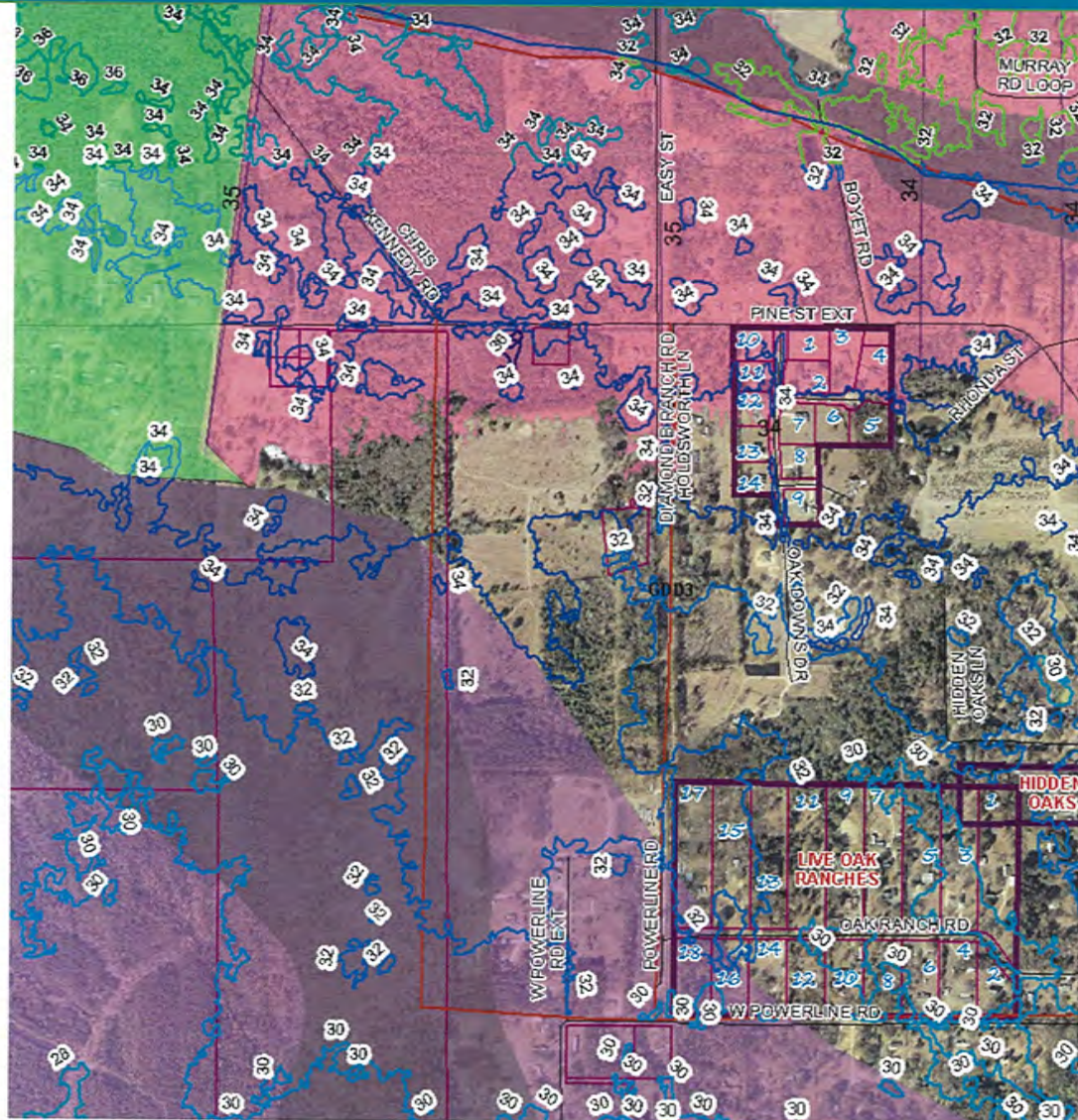
A.3 MS4 Maps

a. MS4 Boundaries

- Mandeville-Covington Urban Area Map
- Slidell Urban Area Map

b. MS4 Regulated Area (Urbanized Area)

c. St. Tammany Parish Discharge Map



MS4 Regulated Areas

Urbanized Areas of St. Tammany Parish

Boundaries based on 2010 Census



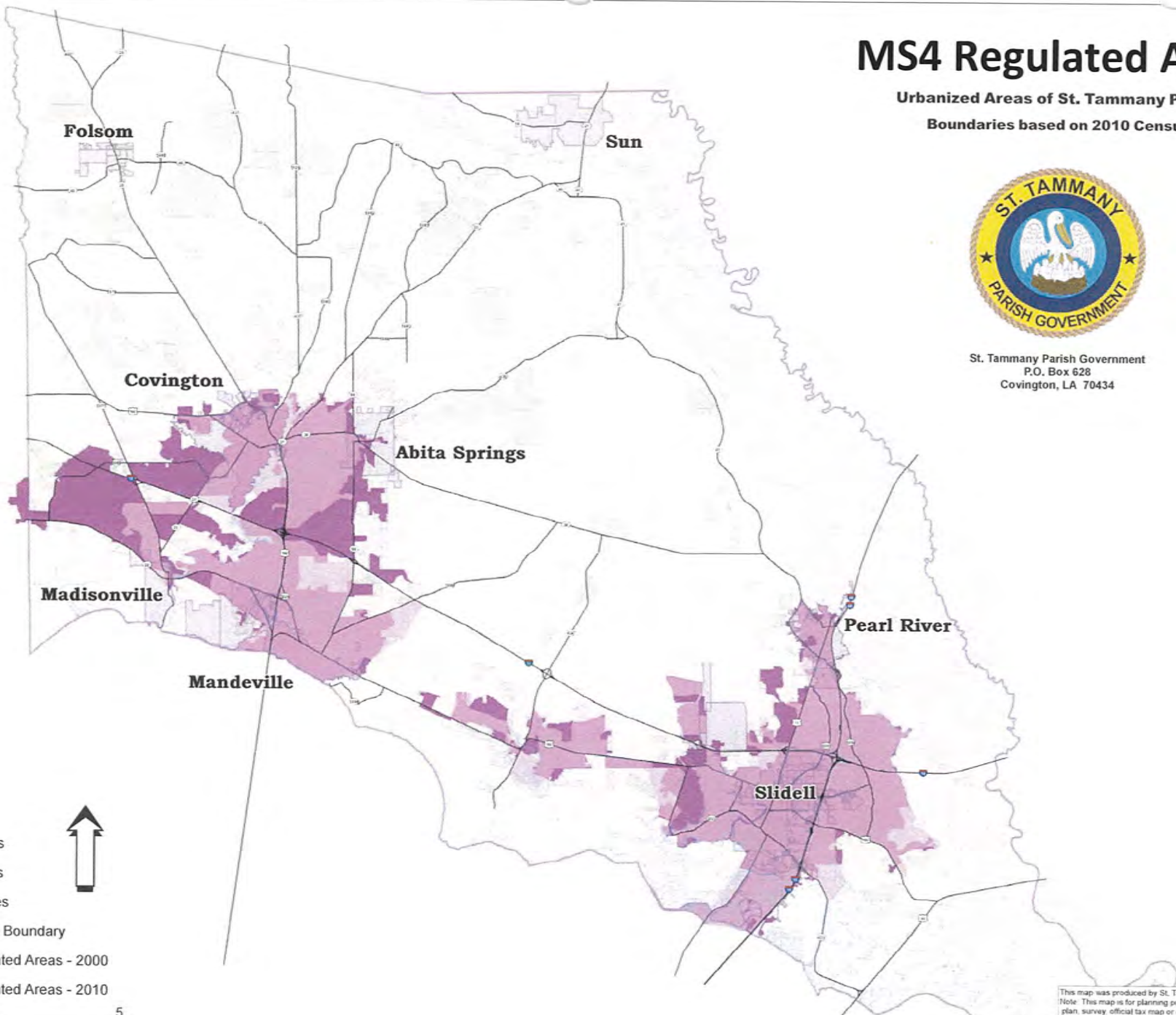
St. Tammany Parish Government
P.O. Box 628
Covington, LA 70434

Legend

- Streams
- Major Roads
- Subdivisions
- Municipalities
- Parish Land Boundary
- MS4 Regulated Areas - 2000
- MS4 Regulated Areas - 2010



5 0 5
Miles



This map was produced by St. Tammany Parish Information Services.
Note: This map is for planning purposes only. It is not a legally recorded plan, survey official tax map or engineering schematic, and it is not intended to be used as such. Map layers were created from different sources at different scales, and the actual or relative geographic position of any feature is only as accurate as the source information.
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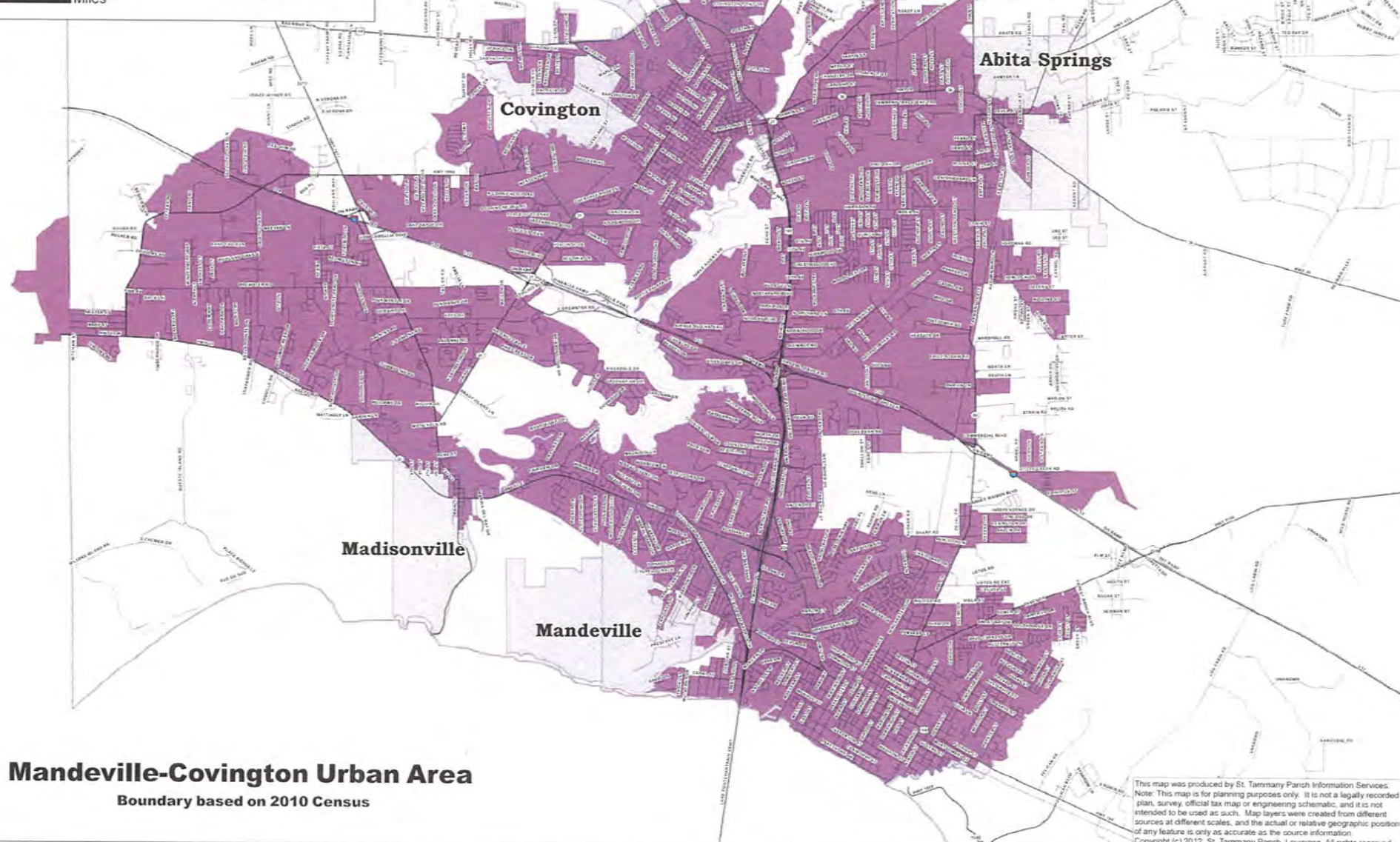
Legend

- Streams
- Streets
- Major Roads
- Municipalities
- Parish Land Boundary
- Urban Areas - 2010

1 0 1
Miles



St. Tammany Parish Government
P.O. Box 628
Covington, LA 70434



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Legend

- Streams
- Streets
- Major Roads
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- Parish Land Boundary
- Urban Area - 2010

1 0 1
Miles



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Pearl River

Slidell

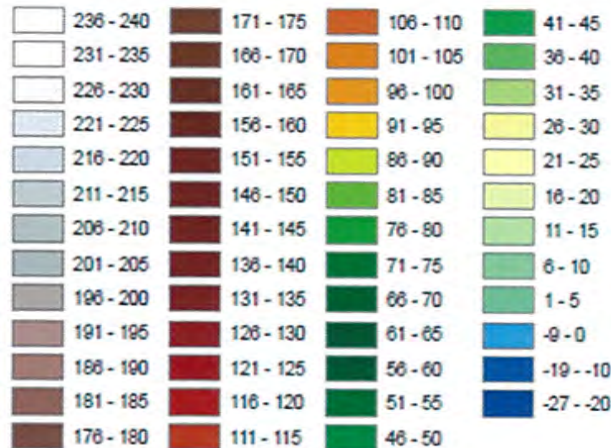
Slidell Urban Area

Boundary based on 2010 Census

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MS4 Boundaries Urbanized Area (UA)

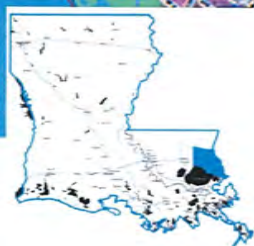
St. Tammany Parish Digital Elevation Model



Legend

- Parish Detention/Retention Ponds
- Stormwater Discharge
- Streets
- Streams
- Major Roads
- UA 1 Mile Buffer
- STP Urbanized Areas 2010
- Parish Boundary
- Parish Land Boundary

2 0 2
Miles



St. Tammany Parish Storm Sewer Discharge Map

ID	NAME	LONGITUDE	LATITUDE
1	Tcefuncte River	-90.16112	30.37691
2	Bayou Chinchuba	-90.1178	30.3666
3	Bayou Castine	-90.06081	30.34855
4	Cane Bayou	-90.01827	30.3207
5	Bayou Lacombe	-89.94857	30.260201
6	East Pearl River	-89.64954	30.16212
7	Pearl River	-89.52783	30.18816
8	Salt Bayou	-89.76196	30.19229
9	Eden Isles	-89.79703	30.21317
10	North Shore Beach	-89.85711	30.23689
11	Bayou Bonfouca	-89.86433	30.2503

Legend

- Storm Sewer Discharge
- Major Roads
- Streams
- Parish Boundary

5 0 5
Miles





St. Tammany Parish

2018 MS4 Annual Report

B. SWMP Modifications & Additions

B. SWMP Modifications & Additions

1. Changes to SWMP
2. MS4 Expansions
3. MS4 Discharges to Impaired Waters
4. MS4 Discharges to TMDL Waters
5. MS4 Waste Load Allocations
6. Stormwater Monitoring
7. MS4 Reliance on Other Agencies





St. Tammany Parish

2018 MS4 Annual Report

B. SWMP Modifications & Additions

B. SWMP Modifications & Additions

A written explanation and/or notes regarding attachments are provided in blue font:

1. Changes have been made or are proposed to the SWMP since the last annual report. **N/A.** The SWMP will be revised in 2019 to reflect any changes required by the new general permit for small MS4s and/or by STPG. (See B.1.a for Notice of Intent).
2. The MS4 area has expanded through the annexation of lands or the urbanized area has expanded based on the most recent US Census. **N/A.**
3. The MS4 discharges directly to an impaired water (i.e. Category 5 on the Integrated Report). The SWMP addresses controls to improve water quality in our impaired waters. See B.3.a. for an impaired waters graph, B.3.b. for controls utilized to target pollutants of concern, B.3.c for impaired streams map, and B.3.d. for 303(d) List.)

YES	NO
	✓
	✓
✓	



St. Tammany Parish

2017 MS4 Annual Report

B. SWMP Modifications & Additions

B. SWMP Modifications & Additions (continued)

4. The MS4 discharges directly to a water for which a TMDL has been established. See B.4.a. for the St. Tammany Parish TMDL List and B.4.b. for the TMDL Priority Areas map.
5. A TMDL has provided a WLA to the MS4. See B.5.a. for TMDL/WLA spreadsheet with measurable goals for pollutant reduction and B.4.b. for a Use Attainability Analysis ("UAA") map.
6. The MS4 has conducted analytical monitoring of stormwater quality. See B.6.a. for a water quality improvement table, B.6.b for a water quality sampling map, and B.6.c for sewer inspection results (in situ data table and pass/fail graph).
7. The MS4 is reliant on another government entity to satisfy some permit obligations. N/A.

YES	NO
✓	
✓	
✓	
	✓



St. Tammany Parish

2018 MS4 Annual Report

B.1 MS4 SWMP Modifications

B.1.a. Notice of Intent

a. The completed Notice of Intent Form without attachments. (When complete, later this year, the SWMP will be submitted to LDEQ for documentation of the programs that will address each MCM).





To: Prospective Applicants for a Small Municipal Separate Storm Sewer System General Permit

Attached is a **Small Municipal Separate Storm Sewer System (MS4) General Permit Notice of Intent (NOI) MS4-G**, for a Louisiana Pollutant Discharge Elimination System (LPDES) permit, authorized under EPA's delegated NPDES program under the Clean Water Act. To be considered complete, every item on the form must be addressed and the last page signed by an authorized company agent. If an item does not apply, please enter "NA" (for *not applicable*) to show that the question was considered.

Two copies (one original and one copy) of your **completed NOI**, each with a marked **U.S.G.S. Quadrangle map** or equivalent attached, should be submitted to:

Department of Environmental Quality
Office of Environmental Services
Post Office Box 4313
Baton Rouge, LA 70821-4313
Attention: Water Permits Division

Please be advised that completion of this NOI may not fulfill all state, federal, or local requirements for this operation.

According to La. R.S. 48:385, any discharge to a state highway ditch, cross ditch, or right-of-way shall require approval from:

Louisiana DOTD
Office of Highways
Post Office Box 94245
Baton Rouge, LA 70804-9245
(225) 379-1927

AND

Louisiana DHH
Office of Public Health
Center for Environmental Health Svcs.
Post Office Box 4489
Baton Rouge, LA 70821-4489
(225) 342-7395

A copy of the LPDES regulations found in LAC Title 33:Part IX may be obtained from the Department's website at <http://deq.louisiana.gov/page/rules-regulations> or from the Office of the Secretary, Regulations Development Section, Post Office Box 4301, Baton Rouge, LA 70821-4303, telephone (225) 219-3981.

After review of the NOI and public notice, this Office will issue written notification to those applicants who are accepted for coverage under this general permit.

For questions concerning this NOI, please contact the Water Permits Division at (225) 219-9371. For help regarding completion of this NOI, please contact DEQ Outreach and Small Business Assistance at 1-800-259-2890.

Date 03/06/2019
Agency Interest No. AI 108405
LPDES Permit No. LAR 041024

Please check: ☐ Initial Permit
☒ Permit Renewal
☐ Permit Modification

**STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY**

Office of Environmental Services, Water Permits Division

Post Office Box 4313

Baton Rouge, LA 70821-4313

Telephone: (225) 219-9371

**LPDES NOTICE OF INTENT (NOI) TO DISCHARGE STORMWATER
ASSOCIATED WITH SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS**

(Attach additional pages if needed.)

Submittal of this Notice of Intent (NOI) constitutes notice that the entity identified in Section I of this form requests authorization by LDEQ's Small MS4 LPDES General Permit for storm water discharges from a small municipal separate storm sewer system (MS4) in Louisiana. Submittal of the NOI also constitutes notice that the party identified in Section I of this form has read, understands, and meets the eligibility conditions of Part I.B. of the permit; agrees to comply with all applicable terms and conditions of the permit; understands that continued authorization under the permit is contingent on maintaining eligibility for coverage; and understands that the permittee is required to implement a storm water management program. In order to be granted coverage, all information required on this form must be completed. **Two copies of the completed NOI** (one original and two copies) should be mailed to the Water Permits Division at the above address.

The applicant is the municipality or governmental entity for which coverage is requested. Adjoining municipalities or governmental entities may be co-permittees by submitting a joint NOI (please see next paragraph for check box) per LAC 33:IX.2521.B.1. If necessary, attach additional sheets to provide the information in Sections I-VII for each entity.

Please check box if this NOI is part of a joint application: ☐

SECTION I - FACILITY INFORMATION

A. Permit is to be issued to the following:

1. Legal Name of Applicant/Owner St. Tammany Parish - Municipal Separate Storm Sewer System
Mailing Address PO Box 628
Covington, LA Zip Code: 70434
2. Name & Title of Contact Person Sabrina Schenk, Watershed Coordinator
Phone 985-809-7448 Fax Email stormwater@stpgov.org

B. Name and address of responsible representative who completed the NOI:

Name & Title Sabrina Schenk, Watershed Coordinator
Company St. Tammany Parish - Municipal Separate Storm Sewer System
Phone 985-809-7448 Fax N/A Email stormwater@stpgov.org

Address PO Box 628 Covington, LA 70434

SECTION II – LAC 33.I.1701 REQUIREMENTS

- A. Does the company or owner have federal or state environmental permits in other states that are identical to, or of a similar nature to, the permit for which you are applying? (This requirement applies to all individuals, partnerships, corporations, or other entities who own a controlling interest of 50% or more in your company, or who participate in the environmental management of the facility for an entity applying for the permit or an ownership interest in the permit.)

☒ Permits in Louisiana. List Permit Numbers: See attached list (Attachment II.A)

☐ Permits in other states (list states): _____

☐ No other environmental permits.

- B. Do you owe any outstanding fees or final penalties to the Department? ☐ Yes ☒ No

If yes, please explain. _____

- C. Is your company a corporation or limited liability company? ☐ Yes ☒ No

If yes, is the corporation or LLC registered with the Secretary of State? ☐ Yes* ☒ No

***If yes, attach a copy of your company's Certificate of Registration and/or Certificate of Good Standing from the Secretary of State.**

SECTION III – SMALL MS4 SYSTEM INFORMATION

1. MS4 Name: St. Tammany Parish - Municipal Separate Storm Sewer System
2. Regulated City(ies), Town(s) or unincorporated area(s): Unincorporated St. Tammany Parish

Coordinates: (provide the coordinates of the City Hall or municipal business office for the MS4)

Latitude: 30 deg. 25 min. 3.04 sec. Longitude: 90 deg. 02 min. 30.92 sec.

Method of Coordinate Determination: Google Earth

(Quad Map, Previous Permit, website, GPS)

3. Population served by the MS4 System: 233,740
4. Indicate all water bodies to which the storm sewer system will discharge, to the extent currently known. Estimate the square miles of the MS4 service area. **Attach a USGS 7.5 minute topographic map (or equivalent) and identify all known discharge points (outfalls), receiving waters, and major control structures.** If all discharge points have not yet been identified, this information will become available when the MS4 mapping is complete. At that time, all discharge points must be identified in the Storm Water Management Plan.

Bogue Falaya, Tchefuncte River, Black River, Abita River, Ponchitalawa Creek, Bayou Tete L'ours, Little Creek, Bayou Chinchuba, Bayou Lacombe, Bayou Castine, Cane Bayou, Bayou Liberty, Cypress Bayou, Morgan River, West Pearl River, Bayou Bonfouca, Bayou Paquet, W-14 Canal, W-15 Canal, and Lake Pontchartrain.

See attached maps (Attachment III.4.)

SECTION IV – STORM WATER MANAGEMENT PLAN

Phase II MS4

**LDEQ Office of Environmental Services
Water Permits Division**

Required Information

Responsible Official(s):	Name and title of person or persons responsible for implementing or coordinating your storm water management program: Sabrina Schenk, Watershed Coordinator
Telephone:	985-809-7448
Fax:	N/A
Email:	stormwater@stpgov.org
Presence of Co-permittee(s):	Are you relying on another governmental entity to satisfy any of your permit obligations? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, please describe:

If you are an existing permittee, please attach your SWMP; you will not need to complete Sections V and VI. If you are a new applicant, you may either submit your SWMP or complete Sections V and VI on the following pages for each of the 6 Minimum Control Measures. You may provide the response to items V and VI in a separate document as an attachment to this NOI provided that the attachment fully addresses the 6 Minimum Control Measures and the Measurable Goals. Helpful information and a list of potential best management practices (BMPs) can be found at the EPA website <http://www.epa.gov/npdes/stormwater-discharges-municipal-sources> and the document Measurable Goals Guidance for Phase II Small MS4s is available for review at https://www.epa.gov/sites/production/files/2015-11/documents/measurablegoals_0.pdf.

SECTION V – BMPs USED TO FULFILL EACH MINIMUM CONTROL MEASURE

Select BMPs used in your program for each Minimum Control Measure by checking box in second column:

Minimum Control Measure	Public Education and Outreach on Storm Water Impacts
Citizen educator volunteers to staff a public education task force	<input type="checkbox"/>
Classroom education on storm water	<input type="checkbox"/>
Educational displays, pamphlets, booklets, and utility stuffers	<input type="checkbox"/>
Education on lawn care, lawn and garden activities	<input type="checkbox"/>

Section V: N/A, see attached SWMP.

Education on proper disposal of campground/recreational vehicle/marina waste	<input type="checkbox"/>
Education on proper disposal of household hazardous wastes	<input type="checkbox"/>
Education/outreach for commercial activities	<input type="checkbox"/>
Event participation (festivals, etc.) and distribution of educational materials	<input type="checkbox"/>
Low impact development (LID)	<input type="checkbox"/>
Pollution prevention education for businesses	<input type="checkbox"/>
Promotional giveaways	<input type="checkbox"/>
Proper pet waste management (for example: information, ordinances, signage)	<input type="checkbox"/>
Storm water educational materials	<input type="checkbox"/>
Tailoring outreach programs to target specific audiences and communities (for example: restaurants, garages, or individual home septic systems)	<input type="checkbox"/>
Trash management	<input type="checkbox"/>
Tributary signage to increase public awareness of local water resources	<input type="checkbox"/>
Using the media to get the message out (for example: public service announcements)	<input type="checkbox"/>
Water conservation practices for homeowners	<input type="checkbox"/>
Others (add text as needed): Click here to enter text.	<input type="checkbox"/>
<u>Minimum Control Measure 2. Public Involvement Participation in Development and Implementation of Storm Water Programs</u>	
Adopt-a-Road programs	<input type="checkbox"/>
Adopt-a-Storm Drain programs	<input type="checkbox"/>
Adopt-a-Stream programs or other volunteer organizations educating the public	<input type="checkbox"/>
Attitude surveys	<input type="checkbox"/>
Citizen complaint hotlines	<input type="checkbox"/>
Citizen panel meetings	<input type="checkbox"/>
Community cleanups	<input type="checkbox"/>
Educational programs conducted by volunteers	<input type="checkbox"/>
Reforestation programs	<input type="checkbox"/>
Stakeholder meetings	<input type="checkbox"/>
Storm drain stenciling	<input type="checkbox"/>
Stream cleanup and monitoring	<input type="checkbox"/>
Volunteer water quality monitoring	<input type="checkbox"/>
Watershed organization meetings	<input type="checkbox"/>
Wetland plantings	<input type="checkbox"/>
Others (add text as needed): Click here to enter text.	<input type="checkbox"/>

Minimum Control Measure 3. Illicit Discharge Detection and Elimination	
Citizen complaint hotline	<input type="checkbox"/>
Illegal dumping/illicit discharge hotline	<input type="checkbox"/>
Inspection and/or database tracking identifying failing septic systems	<input type="checkbox"/>
Inspection to identify industrial/business/household illicit connections of wastewater to the storm water drainage system	<input type="checkbox"/>
Recycling programs for commonly dumped wastes such as motor oil, antifreeze, pesticides	<input type="checkbox"/>
Sanitary sewer overflows	<input type="checkbox"/>
System to inform general public of hazards associated with illegal dischargers and improper disposal of waste	<input type="checkbox"/>
Others (add text as needed): Click here to enter text.	<input type="checkbox"/>
Minimum Control Measure 4. Construction Site Storm Water Runoff Control	
BMP inspection and maintenance	<input type="checkbox"/>
Brush barrier	<input type="checkbox"/>
Check dams	<input type="checkbox"/>
Chemical stabilization	<input type="checkbox"/>
Concrete washout areas	<input type="checkbox"/>
Construction entrance stabilization to prevent vehicle tracking	<input type="checkbox"/>
Construction sequencing	<input type="checkbox"/>
Construction site inspection by municipal inspectors	<input type="checkbox"/>
Contractor certification	<input type="checkbox"/>
Dust control	<input type="checkbox"/>
Erosion control blankets and anchoring devices	<input type="checkbox"/>
Filter berms	<input type="checkbox"/>
General construction site waste management	<input type="checkbox"/>
Geotextiles	<input type="checkbox"/>
Gradient terraces	<input type="checkbox"/>
Grass-lined channels	<input type="checkbox"/>
Land grading	<input type="checkbox"/>
Model ordinances	<input type="checkbox"/>
Mulching	<input type="checkbox"/>
Plan to prioritize construction sites for inspection by municipal inspectors	<input type="checkbox"/>
Requiring erosion/sediment control plans	<input type="checkbox"/>
Riprap	<input type="checkbox"/>

Sediment basins and rock dams	<input type="checkbox"/>
Sediment filters and sediment chambers	<input type="checkbox"/>
Sediment traps	<input type="checkbox"/>
Silt fence perimeter control	<input type="checkbox"/>
Sodding	<input type="checkbox"/>
Soil retention and stabilization	<input type="checkbox"/>
Soil roughening	<input type="checkbox"/>
Spill prevention and control plan	<input type="checkbox"/>
Storm drain inlet protection	<input type="checkbox"/>
Temporary diversion dikes	<input type="checkbox"/>
Temporary slope drain	<input type="checkbox"/>
Temporary stream crossings	<input type="checkbox"/>
Vegetated buffers	<input type="checkbox"/>
Wind fences and sand fences	<input type="checkbox"/>
Educational and training measures for construction site operators	<input type="checkbox"/>
Others (add text as needed): Click here to enter text.	<input type="checkbox"/>

Minimum Control Measure 5. Post construction storm Water Management in New Development and Redevelopment

Alternative pavers	<input type="checkbox"/>
Alternative turnarounds	<input type="checkbox"/>
Alum injection	<input type="checkbox"/>
Bioretention	<input type="checkbox"/>
BMP inspection and maintenance	<input type="checkbox"/>
Buffer zones	<input type="checkbox"/>
Catch basins	<input type="checkbox"/>
Conservation easements	<input type="checkbox"/>
Dry extended-detention ponds	<input type="checkbox"/>
Elimination of curbs and gutters	<input type="checkbox"/>
Grassed filter strips	<input type="checkbox"/>
Grassed swales	<input type="checkbox"/>
Green parking	<input type="checkbox"/>
Infiltration basin	<input type="checkbox"/>
Infiltration trench	<input type="checkbox"/>
Infrastructure planning	<input type="checkbox"/>

In-line storage	<input type="checkbox"/>
Manufactured products for storm water inlets	<input type="checkbox"/>
Narrower residential streets	<input type="checkbox"/>
On-lot treatment of storm water	<input type="checkbox"/>
Open space design	<input type="checkbox"/>
Ordinances for post-construction runoff	<input type="checkbox"/>
Porous pavement	<input type="checkbox"/>
Sand and organic filters	<input type="checkbox"/>
Storm water wetland	<input type="checkbox"/>
Urban forestry	<input type="checkbox"/>
Wet ponds	<input type="checkbox"/>
Zoning: a planning process that identifies storm water program goals, strategies, operation and maintenance (O&M) policies and procedures, and/or enforcement strategies	<input type="checkbox"/>
Others (add text as needed): Click here to enter text	<input type="checkbox"/>
<u>Minimum Control Measure 6. Pollution Prevention/Good Housekeeping for Municipal Operations</u>	
Alternative discharge options for chlorinated water	<input type="checkbox"/>
Alternative products	<input type="checkbox"/>
Animal carcass collection from roadways	<input type="checkbox"/>
Automobile maintenance	<input type="checkbox"/>
Hazardous materials storage	<input type="checkbox"/>
Illegal dumping control	<input type="checkbox"/>
Low impact landscaping and lawn care	<input type="checkbox"/>
Materials management	<input type="checkbox"/>
Parking lot and street cleaning	<input type="checkbox"/>
Pest control	<input type="checkbox"/>
Pet waste collection in public areas	<input type="checkbox"/>
Road salt application and storage	<input type="checkbox"/>
Roadway and bridge maintenance	<input type="checkbox"/>
Septic system controls	<input type="checkbox"/>
Spill response and prevention plans for municipal facilities	<input type="checkbox"/>
Storm drain system cleaning	<input type="checkbox"/>
Training program for grounds maintenance and landscaping crews	<input type="checkbox"/>
Used oil recycling	<input type="checkbox"/>
Vehicle washing	<input type="checkbox"/>

Operation and maintenance (O&M) program that has a goal of preventing or reducing pollutant runoff from municipal operations	<input type="checkbox"/>
Others (add text as needed): Click here to enter text.	<input type="checkbox"/>

SECTION VI – MEASURABLE GOALS AND BMPs FOR IMPLEMENTATION OF EACH MINIMUM CONTROL MEASURE

For each BMP chosen, list clear and specific measurable goals with starting and ending dates (month and year) in which the MS4 operator began or will begin full implementation of each of the minimum control measures, list the interim milestones (timeframe and quantity to measure, if quantifiable), and provide the frequency of the action (add text as needed or attach separate sheet):

Minimum Control Measure 1. Public Education and Outreach on Storm Water Impacts

List measurable goals for each BMP with start and end dates, interim milestones, and frequency.

BMP PE1. Insert BMP description: Click here to enter text.

Measurable Goal: Click here to enter text.

Person(s) or department(s) responsible: Click here to enter text.

Timeframe/milestones for implementation: Click here to enter text.

BMP PE2. Insert BMP description: Click here to enter text.

Measurable Goal: Click here to enter text.

Person(s) or department(s) responsible: Click here to enter text.

Timeframe/milestones for implementation: Click here to enter text.

BMP PE3. Insert BMP description: Click here to enter text.

Measurable Goal: Click here to enter text.

Person(s) or department(s) responsible: Click here to enter text.

Timeframe/milestones for implementation: Click here to enter text.

BMP PE4. Insert BMP description: Click here to enter text.

Measurable Goal: Click here to enter text.

Person(s) or department(s) responsible: Click here to enter text.

Timeframe/milestones for implementation: Click here to enter text.

BMP PE5. Insert BMP description: Click here to enter text.

Measurable Goal: Click here to enter text.

Person(s) or department(s) responsible: Click here to enter text.

Timeframe/milestones for implementation: Click here to enter text.

BMP PE6. Insert BMP description: Click here to enter text.

Measurable Goal: Click here to enter text.

Person(s) or department(s) responsible: Click here to enter text.

Timeframe/milestones for implementation: Click here to enter text.

BMP PE7. Insert BMP description: Click here to enter text.

Measurable Goal: Click here to enter text.

Person(s) or department(s) responsible: Click here to enter text.

Timeframe/milestones for implementation: Click here to enter text.

BMP PE8. Insert BMP description: Click here to enter text.

Measurable Goal: Click here to enter text.

Person(s) or department(s) responsible: Click here to enter text.

Timeframe/milestones for implementation: Click here to enter text.

Others (add text as needed):

Minimum Control Measure 2. Public Involvement and Participation in Development and Implementation of Storm Water Program

List measurable goals with start and end dates, interim milestones, and frequency (add text as needed):

BMP PI1. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.

BMP PI2. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.

BMP PI3. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.

BMP PI4. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.

BMP PI5. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.

BMP PI6. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.

BMP PI7. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.

BMP PI8. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.

Others (add text as needed): Click here to enter text.

Minimum Control Measure 3. Illicit Discharge Detection and Elimination

List measurable goals with start and end dates, interim milestones, frequency, and maintenance activities with schedules (add text as needed):

BMP IDDE1. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP IDDE2. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP IDDE3. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP IDDE4. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP IDDE5. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP IDDE6. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP IDDE7. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP IDDE8. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

Others (add text as needed): Click here to enter text.

Minimum Control Measure 4. Construction Site Storm Water Runoff Control

List measurable goals with start and end dates, interim milestones, frequency, and maintenance activities with schedules (add text as needed):

BMP CONS1. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

<p>BMP CONS2. Insert BMP description: Click here to enter text.</p> <p>Measurable Goal: Click here to enter text.</p> <p>Person(s) or department(s) responsible: Click here to enter text.</p> <p>Timeframe/milestones for implementation: Click here to enter text.</p> <p>BMP maintenance activities and schedule: Click here to enter text.</p>
<p>BMP CONS3. Insert BMP description: Click here to enter text.</p> <p>Measurable Goal: Click here to enter text.</p> <p>Person(s) or department(s) responsible: Click here to enter text.</p> <p>Timeframe/milestones for implementation: Click here to enter text.</p> <p>BMP maintenance activities and schedule: Click here to enter text.</p>
<p>BMP CONS4. Insert BMP description: Click here to enter text.</p> <p>Measurable Goal: Click here to enter text.</p> <p>Person(s) or department(s) responsible: Click here to enter text.</p> <p>Timeframe/milestones for implementation: Click here to enter text.</p> <p>BMP maintenance activities and schedule: Click here to enter text.</p>
<p>BMP CONS5. Insert BMP description: Click here to enter text.</p> <p>Measurable Goal: Click here to enter text.</p> <p>Person(s) or department(s) responsible: Click here to enter text.</p> <p>Timeframe/milestones for implementation: Click here to enter text.</p> <p>BMP maintenance activities and schedule: Click here to enter text.</p>
<p>BMP CONS6. Insert BMP description: Click here to enter text.</p> <p>Measurable Goal: Click here to enter text.</p> <p>Person(s) or department(s) responsible: Click here to enter text.</p> <p>Timeframe/milestones for implementation: Click here to enter text.</p> <p>BMP maintenance activities and schedule: Click here to enter text.</p>
<p>BMP CONS7. Insert BMP description: Click here to enter text.</p> <p>Measurable Goal: Click here to enter text.</p> <p>Person(s) or department(s) responsible: Click here to enter text.</p> <p>Timeframe/milestones for implementation: Click here to enter text.</p> <p>BMP maintenance activities and schedule: Click here to enter text.</p>
<p>BMP CONS8. Insert BMP description: Click here to enter text.</p> <p>Measurable Goal: Click here to enter text.</p> <p>Person(s) or department(s) responsible: Click here to enter text.</p> <p>Timeframe/milestones for implementation: Click here to enter text.</p> <p>BMP maintenance activities and schedule: Click here to enter text.</p>
<p>Others (add text as needed): Click here to enter text.</p>
<p>Minimum Control Measure 5. Post-construction Storm Water Management in New Development and Redevelopment</p>
<p><i>List measurable goals with start and end dates, interim milestones, frequency, and maintenance activities with schedules (add text as needed):</i></p>
<p>BMP POST1. Insert BMP description: Click here to enter text.</p> <p>Measurable Goal: Click here to enter text.</p> <p>Person(s) or department(s) responsible: Click here to enter text.</p> <p>Timeframe/milestones for implementation: Click here to enter text.</p> <p>BMP maintenance activities and schedule: Click here to enter text.</p>

BMP POST2. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP POST3. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP POST4. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP POST5. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

N/A

BMP POST6. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP POST7. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP POST8. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

Others (add text as needed): Click here to enter text.

Minimum Control Measure 6. Pollution Prevention/Good Housekeeping for Municipal Operations

List measurable goals with start and end dates, interim milestones, frequency, and maintenance activities with schedules (add text as needed):

BMP PP1. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP PP1. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP PP1. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP PP1. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP PP1. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

N/A

BMP PP1. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP PP1. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

BMP PP1. Insert BMP description: Click here to enter text.
Measurable Goal: Click here to enter text.
Person(s) or department(s) responsible: Click here to enter text.
Timeframe/milestones for implementation: Click here to enter text.
BMP maintenance activities and schedule: Click here to enter text.

Others (add text as needed): Click here to enter text.

SECTION VI.A – IMPAIRED WATERBODIES AND TMDL INFORMATION (Permit Part III)

1. Does any subsegment within your MS4 boundaries fall under the most recent Integrated Report classification of 4a or 5 (see list at <http://deq.louisiana.gov/page/water-quality-integrated-report-305b303d>)?
Yes ☐ No ☐

2. If any of your MS4 subsegments are classified as Integrated Report Category 4a (*Impaired but TMDL Completed*) or 5 (*Impaired and requires a TMDL*) and if the Suspected Sources of Impairment (see Appendix A of the most recent Integrated Report) are municipal in origin (for example, *Sanitary Sewer Overflows, Discharges from Municipal Separate Storm Sewer Systems, Forced Drainage Pumping, Municipal (Urbanized High Density Area), Urban Runoff/Storm Sewers, and Residential Districts*) you must document in your SWMP how the BMPs and other controls implemented will control the discharge of these pollutants (see Permit Part III.B; you may add text as needed).

2.a. MS4 Suspected Source of Impairment from Appendix A of Integrated Report:

Subsegment ; BMP name and function: [Click here to enter text.](#)

Subsegment ; BMP name and function: [Click here to enter text.](#)

Subsegment ; BMP name and function: [Click here to enter text.](#)

2.b. MS4 Suspected Source of Impairment from Appendix A of Integrated Report:

Subsegment ; BMP name and function: [Click here to enter text.](#)

Subsegment ; BMP name and function: [Click here to enter text.](#)

Subsegment ; BMP name and function: [Click here to enter text.](#)

2.c. MS4 Suspected Source of Impairment from Appendix A of Integrated Report:

Subsegment ; BMP name and function: [Click here to enter text.](#)

Subsegment ; BMP name and function: [Click here to enter text.](#)

Subsegment ; BMP name and function: [Click here to enter text.](#)

2.d. MS4 Suspected Source of Impairment from Appendix A of Integrated Report:

Subsegment ; BMP name and function: [Click here to enter text.](#)

Subsegment ; BMP name and function: [Click here to enter text.](#)

Subsegment ; BMP name and function: [Click here to enter text.](#)

2.e. MS4 Suspected Source of Impairment from Appendix A of Integrated Report:

Subsegment ; BMP name and function: [Click here to enter text.](#)

Subsegment ; BMP name and function: [Click here to enter text.](#)

Subsegment ; BMP name and function: [Click here to enter text.](#)

3. Has a TMDL been approved for any subsegment(s) in your MS4 (Integrated Report Cat. 4a)? Yes ☐ No ☐

If Yes, you must list any TMDL requirements (see 3.a below) in the SWMP that are applicable to MS4 discharges into the subsegments where TMDLs have been established (see Permit Parts III.B and IV.H 1-6; you may add text as needed). If there are none, please check this box: ☐

3.a.

Subsegment ; TMDL requirements: [Click here to enter text.](#)

Subsegment ; TMDL requirements: [Click here to enter text.](#)

Subsegment ; TMDL requirements: [Click here to enter text.](#)

SECTION VII – TOPOGRAPHIC MAP

Attach to this NOI a USGS 7.5 minute (1:24,000 scale) topographic map, or equivalent, of the MS4 service area with the known municipal storm sewer outfalls and any major control structures (retention or detention basins, infiltration devices, etc.) identified. Include on the map the area extending at least one mile beyond your service boundaries. The map must be attached to BOTH NOIs that are submitted to LDEQ (i.e., the original NOI and the copy of the NOI). Waterways and streets/highways must be clearly identified by name on the map. Appropriate maps can be obtained from local government agencies such as DOTD or the Office of Public Works. Maps can also be obtained online at <http://map.deq.state.la.us/> or www.topozone.com. Private map companies can also supply you with these maps. If you cannot locate a map through these sources you can contact the Louisiana Department of Transportation and Development at:

1201 Capitol Access Road
Baton Rouge, LA 70802
(225) 379-1107
maps@dotd.louisiana.gov

Alternatively, permit applicants may submit a CD containing the appropriate GIS layers, created using ESRI software, such as ArcMap.

SECTION VIII – DISCHARGE CHARACTERIZATION

Attach any existing quantitative data that characterizes the discharge. Depending upon availability, you should include:

1. Monthly mean rainfall estimates;
2. Measured or estimated volume of the discharges from the municipal storm sewer per inches of rain;
3. Quantitative data describing the quality of discharges from the municipal storm sewer, including the outfalls sampled, sampling procedures and analytical methods used; and
4. The results of any visual or analytical field screening at identified outfalls, including wet and dry weather screenings.

SECTION IX - SIGNATURE

According to the Louisiana Water Quality Regulations, LAC 33:IX.2503, the following requirements shall apply to the signatory page in this application:

Chapter 25. Permit Application and Special LPDES Program Requirements

2503. Signatories to permit applications and reports

A. All permit applications shall be signed as follows:

1. For a corporation - by a responsible corporate officer. For the purpose of this Section responsible corporate officer means:
 - (a) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or
 - (b) The manager of one or more manufacturing, production, or operating facilities provided: the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations and initiating and directing other comprehensive measures to ensure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken together complete and accurate information for permit application requirements; and the authority to sign documents has been assigned or delegated to the manager in accordance with corporation procedures.

NOTE: LDEQ does not require specific assignments or delegations of authority to responsible corporate officers identified in the Permit **Standard Conditions, Section D.10.a.(1)(a)**. The agency will presume that these responsible corporate officers have the requisite authority to sign permit applications unless the corporation has notified the state administrative authority to the contrary. Corporate procedures governing authority to sign permit applications may provide for assignment or delegation to applicable corporate positions under Permit **Standard Conditions, Section D.10.a.(1)(b)** rather than to specific individuals.

2. For a partnership or sole proprietorship - by a general partner or the proprietor, respectively; or
3. For a municipality, state, federal or other public agency – by either a principal executive officer or ranking elected official. For the purposes of this section a principal executive officer of a federal agency includes:

- (a) The chief executive officer of the agency, or
- (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

B. All reports required by permits and other information requested by the state administrative authority shall be signed by a person described in Permit **Standard Conditions, Section D.10.a.**, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described in Permit **Standard Conditions, Section D.10.a.**
2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company, (a duly authorized representative may thus be either a named individual or any individual occupying a named position); and
3. The written authorization is submitted to the state administrative authority.

C. Changes to authorization. If an authorization under Permit **Standard Conditions, Section D.10.b** is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of **Section D.10.b** must be submitted to the state administrative authority prior to or together with any reports, information, or applications to be signed by an authorized representative.

D. Any person signing any document under Permit **Standard Conditions, Section D.10.a. or b** shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or

CHECKLIST

To prevent any unnecessary delay in the processing of your notice of intent to be covered under the general permit, please take a moment and check to be certain that the following items have been addressed and enclosed:

1. ALL questions and requested information have been answered (N/A if the question or information was not applicable).
2. The appropriate person has signed the signatory page.
3. Please forward the original and one copy of this NOI and all attachments.

**ANY NOI THAT DOES NOT CONTAIN ALL OF THE REQUESTED INFORMATION
WILL BE CONSIDERED INCOMPLETE. NOI PROCESSING WILL NOT PROCEED
UNTIL ALL REQUESTED INFORMATION HAS BEEN SUBMITTED.**

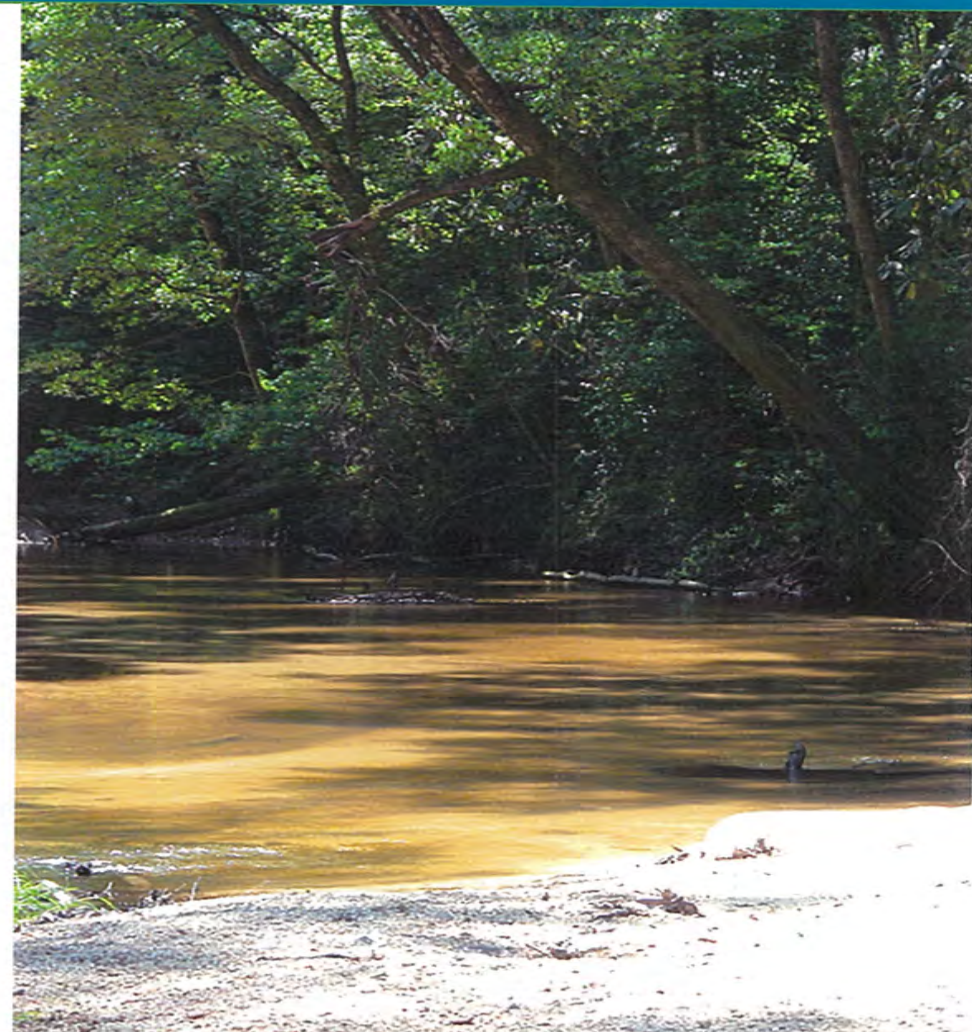
NOTE: UPON RECEIPT AND SUBSEQUENT REVIEW OF THE NOI BY THE WATER PERMITS DIVISION, YOU MAY BE REQUESTED TO FURNISH ADDITIONAL INFORMATION IN ORDER TO COMPLETE THE PROCESSING OF THE NOI.



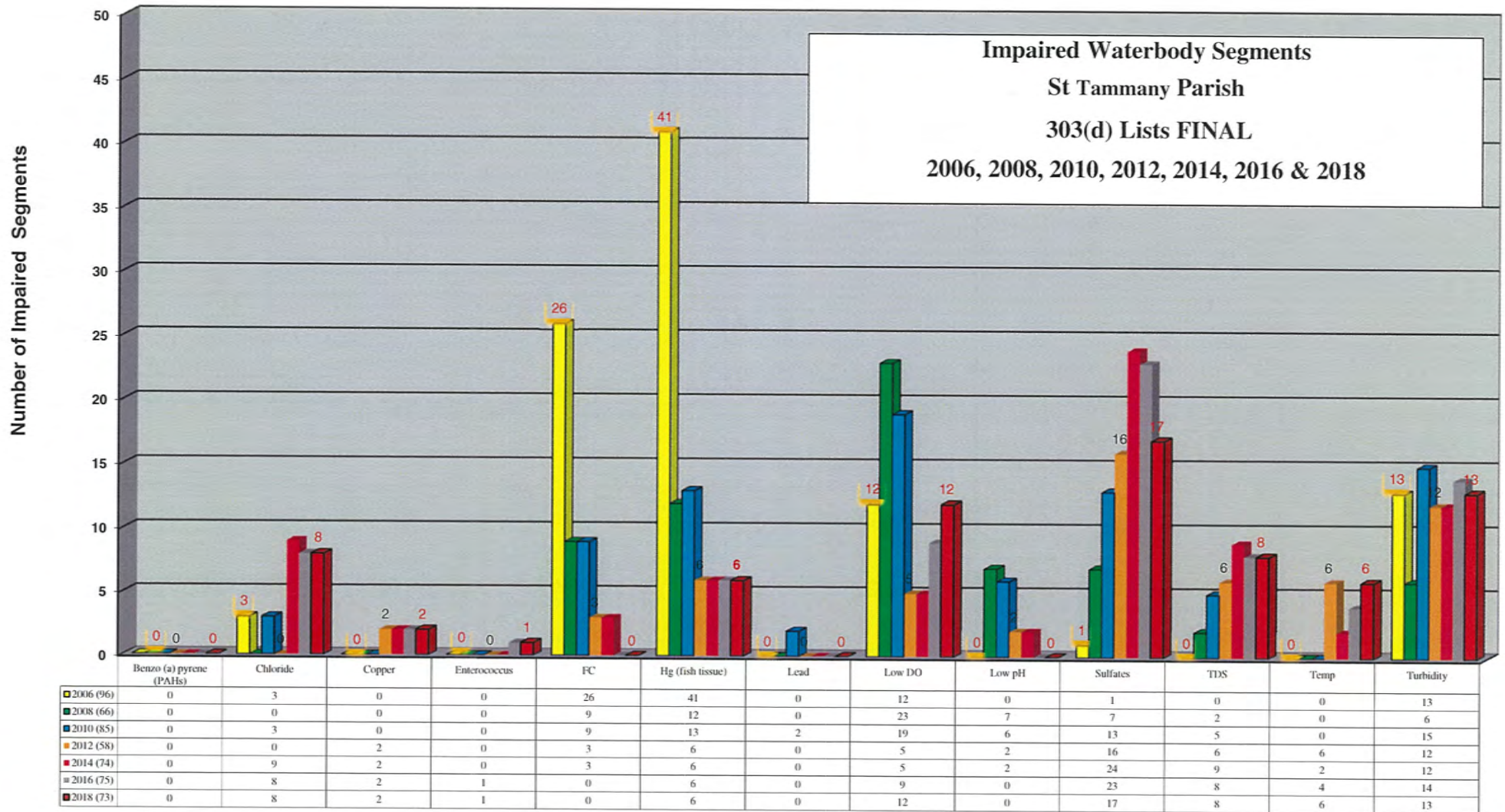
St. Tammany Parish 2018 MS4 Annual Report B.3 MS4 Discharges to Impaired Waters

B.3 MS4 Discharges to Impaired Waters

- a. Graph of Impairments
- b. Controls Utilized to
Target Pollutants of
Concern
- c. Impaired Streams Map
- d. 303(d) List



B.3.a Graph of Impairments: 303(d) Lists 2006-2018



B.3.b Graph

Controls to Target Pollutants of Concern in 2018

B.3.b CONTROLS UTILIZED TO TARGET POLLUTANTS OF CONCERN 2018		
POLLUTANTS OF CONCERN	MS4 CONTROLS	TARGETED WATERSHEDS
BIOLOGICAL OXYGEN DEMAND	POLLUTION SOURCE TRACKING SEWER SYSTEM INSPECTION PROGRAM DECENTRALIZED MANAGEMENT PROGRAM QUARTERLY non-FRANCHISE INSPECTION PROGRAM HOT SPOT MONITORING DEMONSTRATION POND SAMPLING POND VEGETATIVE PLANTING TIE-INS TO COMMUNITY SEWER REGULATORY CONTROLS ON NEW DEVELOPMENT WATER QUALITY IMPACT MODELING PUBLIC PARTICIPATION ILLICT DISCHARGE DETECTION & ELIMINATION	ABITA RIVER BAYOU BONFOUCA BAYOU CANE BAYOU LIBERTY BAYOU PAQUET BOGUE FALAYA E & W PEARL RIVER PONCHITOLAWA CREEK TCHEFUNCTE RIVER W-14 MAIN DIVERSION CANAL
DISSOLVED OXYGEN	POLLUTION SOURCE TRACKING SEWER SYSTEM INSPECTION PROGRAM DECENTRALIZED MANAGEMENT PROGRAM QUARTERLY non-FRANCHISE INSPECTION PROGRAM HOT SPOT MONITORING DEMONSTRATION POND SAMPLING POND VEGETATIVE PLANTING TIE-INS TO COMMUNITY SEWER REGULATORY CONTROLS ON NEW DEVELOPMENT WATER QUALITY IMPACT MODELING PUBLIC EDUCATION PUBLIC PARTICIPATION ILLICT DISCHARGE DETECTION & ELIMINATION	ABITA RIVER BAYOU BONFOUCA BAYOU CANE BAYOU LIBERTY BAYOU PAQUET BOGUE FALAYA E & W PEARL RIVER PONCHITOLAWA CREEK SALT BAYOU TCHEFUNCTE RIVER W-14 MAIN DIVERSION CANAL W-14 MAIN DIVERSION CANAL
NUTRIENTS	POLLUTION SOURCE TRACKING SEWER SYSTEM INSPECTION PROGRAM DECENTRALIZED MANAGEMENT PROGRAM QUARTERLY non-FRANCHISE INSPECTION PROGRAM HOT SPOT MONITORING DEMONSTRATION POND SAMPLING POND VEGETATIVE PLANTING TIE-INS TO COMMUNITY SEWER REGULATORY CONTROLS ON NEW DEVELOPMENT WATER QUALITY IMPACT MODELING PUBLIC PARTICIPATION ILLICT DISCHARGE DETECTION & ELIMINATION	ABITA RIVER BAYOU BONFOUCA BAYOU CANE BAYOU LIBERTY BAYOU PAQUET BOGUE FALAYA PONCHITOLAWA CREEK TCHEFUNCTE RIVER W-14 MAIN DIVERSION CANAL
TURBIDITY/TSS	COMPLAINT RESPONSE CONSTRUCTION SITE BMPs DETENTION REQUIREMENTS ESCALATED ENFORCEMENT ILLICT DISCHARGE DETECTION & ELIMINATION POLLUTION SOURCE TRACKING QUARTERLY non-FRANCHISE INSPECTION PROGRAM TIE-INS TO COMMUNITY SEWER POND VEGETATIVE PLANTING POST-CONSTRUCTION CONTROLS PUBLIC EDUCATION PUBLIC PARTICIPATION REGULATORY CONTROLS ON NEW DEVELOPMENT WATER QUALITY IMPACT MODELING STORMWATER INSPECTIONS STORMWATER PLAN REVIEW	ABITA RIVER BAYOU BONFOUCA BAYOU CASTINE BAYOU LACOMBE BAYOU LIBERTY BAYOU PAQUET BAYOU VINCENT BEDICO CREEK BLACK RIVER BOGUE FALAYA E & W PEARL RIVER PONCHITOLAWA CREEK TCHEFUNCTE RIVER MORGAN RIVER WILSON SLOUGH
ENTEROCOCCUS	POLLUTION SOURCE TRACKING SEWER SYSTEM INSPECTION PROGRAM DECENTRALIZED MANAGEMENT PROGRAM QUARTERLY non-FRANCHISE INSPECTION PROGRAM HOT SPOT MONITORING DEMONSTRATION POND SAMPLING POND VEGETATIVE PLANTING TIE-INS TO COMMUNITY SEWER REGULATORY CONTROLS ON NEW DEVELOPMENT WATER QUALITY IMPACT MODELING PUBLIC EDUCATION PUBLIC PARTICIPATION ILLICT DISCHARGE DETECTION & ELIMINATION	FONTAINEBLEAU STATE PARK



B.3.c. MS4 Regulated Areas And Impaired Streams

Urbanized Areas of St. Tammany Parish
Boundaries based on 2010 Census



Legend

- Streams
- Impaired Streams
- Major Roads
- Subdivisions
- Municipal Boundaries
- MS4 Regulated Areas - 2010
- Parish Land Boundary



MapID: 2018abg-018 Map Date: 02/09/2018



This map was produced by St. Tammany Parish Information Services.
Note: This map is for planning purposes only. It is not a legally recorded
plan, survey, official tax map or engineering schematic, and it is not
intended to be used as such. Map layers were created from different
sources at different scales, and the actual or relative geographic position
of any feature is only as accurate as the source information.
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B.3.d 303(d) List 2018

Appendix G: Louisiana's 2018 Section 303(d) List November 21, 2018

Description of Codes and Acronyms:

Water Body

Types: R = Rivers; L = Lakes; E = Estuaries; W = Wetlands; C = Coastal Waters

Water Body

Sizes: R = Miles; L = Acres; E = Square Miles; W = Acres; C = Miles

Designated PCR = Primary Contact Recreation (swimming)

Use SCR = Secondary Contact Recreation (boating)

FWP = Fish and Wildlife Propagation (fishing)

ONR = Outstanding Natural Resource

DWS = Drinking Water Supply N/A

OYS = Oyster Propagation N/A

AGR = Agriculture N/A

LAL = Limited Aquatic Life and Wildlife N/A

Use Support Codes for Designated Uses:

F = Fully supporting designated use

N = Not supporting designated use

I = Insufficient data to make reliable determination

X = No data

Follow-up Data Comments:

CTM Full: Lead = Follow-up metals sampling indicates full support

IR Category for Suspected Causes:

IRC 5 = 303(d) List

IRC 5-Alt = 303(d) List, LDEQ implement alternative corrective strategies

IRC 5RC = 303(d) List, Revised Criteria (RC) planned

IRC 4a = TMDL completed

IRC 4b = Other corrective actions in place

IRC 3 = Insufficient data to make a reliable determination

IRC 1 = No impairment, fully supporting all uses

Subsegment Number	Subsegment Description	Water Body Type	Size	PCR	SCR	FWP	ONR	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Priority	Suspected Sources of Impairment
LA040802_00	Ponchitolawa Creek-From headwaters to US Hwy 190 Scenic	R	8.0	F	F	N	N	FWP ONR	TURBIDITY	IRC 5	L	CONSTRUCTION

Subsegment Number	Subsegment Description	Water Body Type	Size	PCR	SCR	FWP	ONR	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Priority	Suspected Sources of Impairment
LA040803_00	Tchefuncte River- From Hwy 22 to Lake Pontchartrain Estuarine	R	2.1	N	F	N		FWP	MERCURY - FISH CONSUMPTION ADVISORY	IRC 5	L	ATMOSPHERIC DEPOSITION & SOURCE UNKNOWN
LA040803_00	Tchefuncte River- From Hwy 22 to Lake Pontchartrain Estuarine	R	2.1	N	F	N		PCR	TEMPERATURE	IRC 5	L	DROUGHT RELATED IMPACTS & NATURAL SOURCES
LA040804_00	Bogue Falaya River-From headwaters to Tchefuncte River Scenic	R	30.5	F	F	N	F	FWP	MERCURY - FISH CONSUMPTION ADVISORY	IRC 5	L	ATMOSPHERIC DEPOSITION & SOURCE UNKNOWN
LA040808_00	Tchefuncte River- From Bogue Falaya River to Hwy 22 Scenic	R	8.5	F	F	N	N	FWP	MERCURY - FISH CONSUMPTION ADVISORY	IRC 5	L	ATMOSPHERIC DEPOSITION & SOURCE UNKNOWN

Subsegment Number	Subsegment Description	Water Body Type	Size	PCR	SCR	FWP	ONR	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Priority	Suspected Sources of Impairment
LA040808_00	Tchefuncte River- From Bogue Falaya River to Hwy 22 Scenic	R	8.5	F	F	N	N	ONR	TURBIDITY	IRC 5	L	CONSTRUCTION
LA040901_00	Bayou Lacombe- From headwaters to I-12 Scenic	R	16.1	N	F	N	N	FWP	TOTAL DISSOLVED SOLIDS (TDS), SULFATE & CHLORIDE	IRC 5	L	NATURAL SOURCES
LA040901_00	Bayou Lacombe- From headwaters to I-12 Scenic	R	16.1	N	F	N	N	PCR	TEMPERATURE	IRC 5	L	DROUGHT- RELATED IMPACTS
LA040901_00	Bayou Lacombe- From headwaters to I-12 Scenic	R	16.1	N	F	N	N	ONR	TURBIDITY	IRC 5	L	NATURAL SOURCES
LA040902_00	Bayou Lacombe- From CDM Ecoregion boundary to Lake Pontchartrain Scenic/Estuarine	R	2.8	F	F	N	F	FWP	TOTAL DISSOLVED SOLIDS (TDS), SULFATE & CHLORIDE	IRC 5	L	NATURAL SOURCES

Subsegment Number	Subsegment Description	Water Body Type	Size	PCR	SCR	FWP	ONR	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Priority	Suspected Sources of Impairment
LA040903_00	Cane Bayou-From headwaters to Hwy 190 Scenic	R	3.5	N	F	N	N	FWP	CHLORIDE	IRC 5	L	NATURAL SOURCES
LA040903_00	Cane Bayou-From headwaters to Hwy 190 Scenic	R	3.5	N	F	N	N	PCR	TEMPERATURE	IRC 5	L	DROUGHT RELATED IMPACTS & NATURAL SOURCES
LA040903_00	Cane Bayou-From headwaters to Hwy 190 Scenic	R	3.5	N	F	N	N	FWP	TOTAL DISSOLVED SOLIDS (TDS)	IRC 5	L	NATURAL SOURCES
LA040904_00	Cane Bayou-From CDM Ecoregion boundary to Lake Pontchartrain Scenic/Estuarine	R	0.7	F	F	N	F	FWP	COPPER	IRC 5	L	NATURAL SOURCES
LA040905_00	Bayou Liberty-From headwaters to LMRAP Ecoregion boundary	R	5.0	F	F	N		FWP	TOTAL DISSOLVED SOLIDS (TDS), SULFATE & CHLORIDE	IRC 5	L	NATURAL SOURCES

Subsegment Number	Subsegment Description	Water Body Type	Size	PCR	SCR	FWP	ONR	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Priority	Suspected Sources of Impairment
LA040907_00	Bayou Bonfouca- From headwaters to Hwy 433	R	5.9	N	F	N		FWP	TOTAL DISSOLVED SOLIDS (TDS), SULFATE, CHLORIDE & COPPER	IRC 5	L	NATURAL SOURCES
LA040908_00	Bayou Bonfouca- From CDM Ecoregion boundary to Lake Pontchartrain Estuarine	R	3.7	N	F	N		FWP	DISSOLVED OXYGEN	IRC 5	L	ON-SITE TREATMENT SYSTEMS (DECENTRALIZED SYSTEMS), PACKAGE PLANT, & PERMITTED SMALL FLOW DISCHARGES
LA040909_00	W-14 Main Diversion Canal- From headwaters to Salt Bayou	R	6.3	F	F	N		FWP	DISSOLVED OXYGEN	IRC 5	L	MUNICIPAL POINT SOURCE DISCHARGES & SANITARY SEWER OVERFLOWS

Subsegment Number	Subsegment Description	Water Body Type	Size	PCR	SCR	FWP	ONR	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Priority	Suspected Sources of Impairment
LA040910_00	Salt Bayou-From headwaters to Lake Pontchartrain Estuarine	R	5.1	F	F	N		FWP	DISSOLVED OXYGEN	IRC 5	L	ON-SITE TREATMENT SYSTEMS (DECENTRALIZED SYSTEMS), PACKAGE PLANT, & PERMITTED SMALL FLOW DISCHARGES
LA040912_00	Bayou LaCombe- from I-12 to US Hwy 190 Scenic	R	5.1	N	F	N	N	FWP	TOTAL DISSOLVED SOLIDS (TDS), SULFATE & CHLORIDE	IRC 5	L	NATURAL SOURCES
LA040912_00	Bayou LaCombe- from I-12 to US Hwy 190 Scenic	R	5.1	N	F	N	N	PCR	TEMPERATURE	IRC 5	L	NATURAL SOURCES
LA040912_00	Bayou LaCombe- from I-12 to US Hwy 190 Scenic	R	5.1	N	F	N	N	ONR	TURBIDITY	IRC 5	L	NATURAL SOURCES

Subsegment Number	Subsegment Description	Water Body Type	Size	PCR	SCR	FWP	ONR	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Priority	Suspected Sources of Impairment
LA040913_00	Bayou Lacombe- From Hwy 190 to CDM Ecoregion boundary Scenic/Estuarine	R	4.1	X	X	F	N	ONR	TURBIDITY	IRC 5	L	NATURAL SOURCES
LA040915_00	Bayou Liberty- From LMRAP Ecoregion boundary to Hwy 433	R	8.6	F	F	N		FWP	TOTAL DISSOLVED SOLIDS (TDS), SULFATE & CHLORIDE	IRC 5	L	NATURAL SOURCES
LA040916_00	Bayou Paquet- From headwaters to Bayou Liberty Estuarine	R	5.1	X	X	N		FWP	DISSOLVED OXYGEN	IRC 5	L	PACKAGE PLANT OR OTHER PERMITTED SMALL FLOWS DISCHARGES
LA041001_00 1	Fontainebleau State Park Beach- For advisory purposes only (not a sub-segment as defined by LAC 33:IX.1123.A)	C	0.1	N				PCR	ENTERO-COCCUS	IRC 5	L	SOURCE UNKNOWN

Subsegment Number	Subsegment Description	Water Body Type	Size	PCR	SCR	FWP	ONR	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Priority	Suspected Sources of Impairment
LA090101_00	Pearl River-From Mississippi state line to Pearl River Navigation Canal	R	40.9	F	F	N		FWP	SULFATE	IRC 5	L	NATURAL SOURCES, INDUSTRIAL POINT SOURCE DISCHARGES & SOURCES OUTSIDE STATE JURISDICTION BORDERS
LA090102_00	E. Pearl River-From Holmes Bayou to I-10	R	23.7	F	F	N		FWP	CHLORIDE & SULFATE	IRC 5	L	NATURAL SOURCES
LA090102_00	E. Pearl River-From Holmes Bayou to I-10	R	23.7	F	F	N		FWP	DISSOLVED OXYGEN	IRC 5	L	NATURAL SOURCES, WILDLIFE OTHER THAN WATERFOWL, & WATERFOWL
LA090103_00	E. Pearl River-From I-10 to Lake Borgne Estuarine	R	15.4	F	F	N		FWP	DISSOLVED OXYGEN	IRC 5	L	NATURAL SOURCES

Subsegment Number	Subsegment Description	Water Body Type	Size	PCR	SCR	FWP	ONR	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Priority	Suspected Sources of Impairment
LA090106_00	Holmes Bayou-From Pearl River to W. Pearl River Scenic	R	4.0	F	F	N	N	FWP	SULFATE	IRC 5	L	INDUSTRIAL POINT SOURCE DISCHARGE & NATURAL SOURCES
LA090107_00	Pearl River-From Pearl River Navigation Canal to Holmes Bayou	R	38.2	F	F	N		FWP	SULFATE	IRC 5	L	INDUSTRIAL POINT SOURCE DISCHARGE & NATURAL SOURCES
LA090202_51 26	Morgan River-From Porters River to W. Pearl River Scenic	R	2.2	F	F	N	N	ONR	TURBIDITY	IRC 5	L	NATURAL SOURCES
LA090204_00	Pearl River Navigation Canal from below Lock No.3	R	14.6	F	F	N		FWP	DISSOLVED OXYGEN	IRC 5	L	ON-SITE TREATMENT SYSTEMS (DECENTRALIZED SYSTEMS)

[illegible]



St. Tammany Parish 2018 MS4 Annual Report B.4 MS4 Discharges to TMDL Waters

B.4 MS4 Discharges to TMDL Waters

- a. St. Tammany Parish
TMDL List
- b. TMDL Priority Areas
Map



B.4.a St. Tammany Parish TMDL List

Subsegment	TMDL	Watershed	Acceptance Date	Agency	Impairment
40908	Bayou Bonfouca 040908 Biological Oxygen Demand TMDL	Bayou Bonfouca	Oct-19-2011	LDEQ/EPA	Biological Oxygen Demand
40907	Bayou Bonfouca 040907 Biological Oxygen Demand TMDL	Bayou Vincent	Oct-19-2011	LDEQ/EPA	Biological Oxygen Demand
40903	Bayou Cane 040903 Total Suspended Solids TMDL	Bayou Cane	Mar-28-2012	EPA	Total Suspended Solids
40903	Bayou Cane 040903 Biological Oxygen Demand TMDL		Jun-10-2011	LDEQ/EPA	Biological Oxygen Demand
40904	Bayou Cane 040904 Biological Oxygen Demand TMDL				
40901	Bayou Lacombe 040901 Biological Oxygen Demand TMDL	Bayou Lacombe	Mar-02-2012	EPA	Biological Oxygen Demand
40902	Bayou Lacombe 040902 Biological Oxygen Demand TMDL				
40905	Bayou Liberty 040905 Biological Oxygen Demand TMDL	Bayou Liberty	Oct-19-2011	LDEQ/EPA	Biological Oxygen Demand
	Bayou Liberty 040905 Mercury TMDL		Mar-28-2012	EPA	Mercury
40906	Bayou Liberty 040906 Biological Oxygen Demand TMDL	Bayou Paquet	Oct-19-2011	LDEQ/EPA	Biological Oxygen Demand
	Bayou Liberty 040906 Mercury TMDL		Mar-28-2012	EPA	Mercury
90102	East Pearl River 090102 Mercury TMDL	East Pearl River	Oct-28-2008	EPA	Mercury
90103	East Pearl River 090103 Mercury TMDL				

B.4.a St. Tammany Parish TMDL List

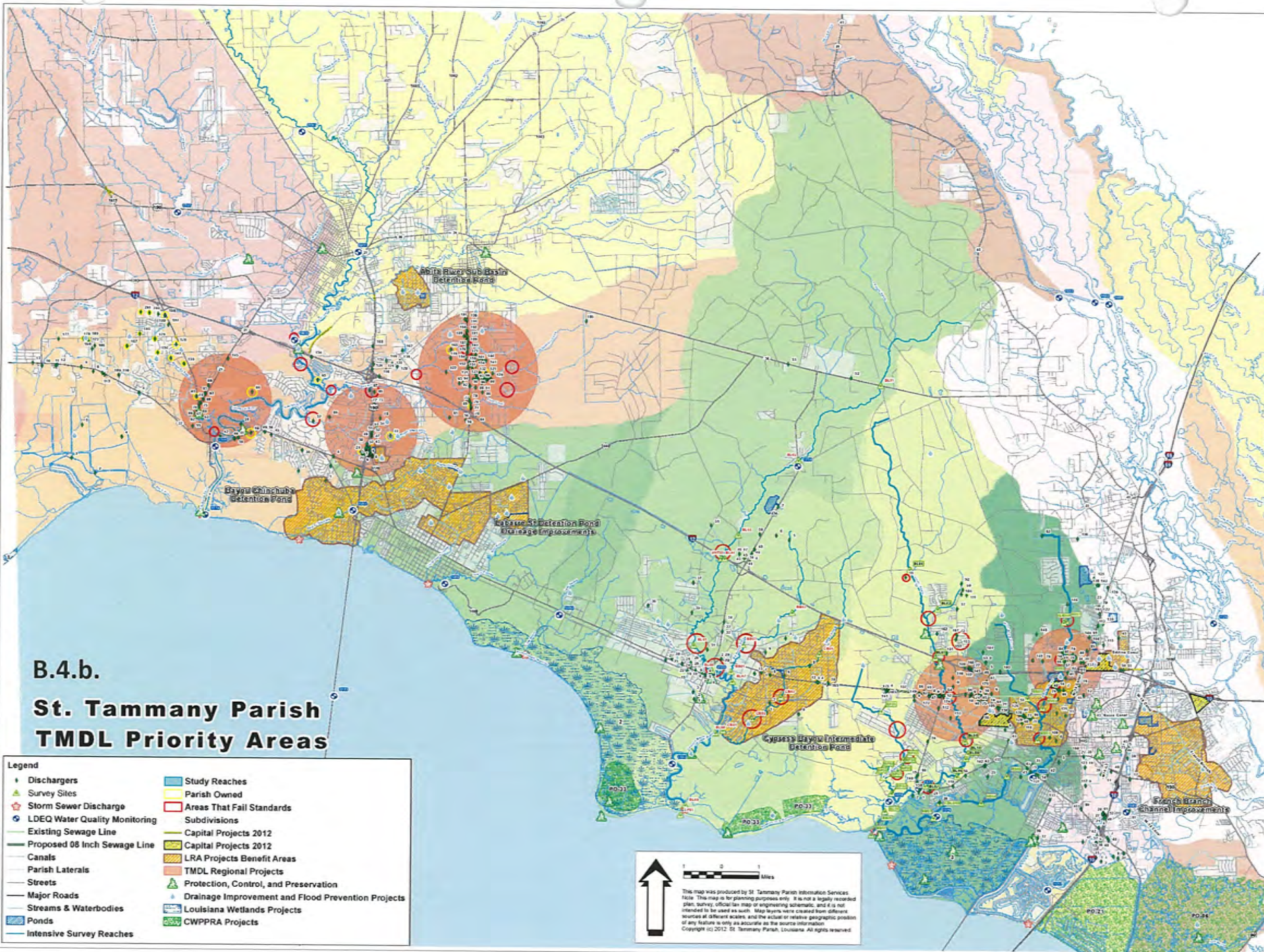
Subsegment	TMDL	Watershed	Acceptance Date	Agency	Impairment
90106	Holmes Bayou 090106 Turbidity & Mercury TMDL	Holmes Bayou	Oct-28-2008	EPA	Mercury
	Holmes Bayou 090106 Turbidity & Mercury TMDL				Turbidity
90207	Middle River & West Middle River 090207 Dissolved Oxygen And Mercury TMDL	Middle & West Middle River	Oct-28-2008	LDEQ/EPA	Biological Oxygen Demand
	Middle Pearl River & West Middle Pearl River 090207 Fecal Coliform TMDL		Mar-07-2011	LDEQ/EPA	Fecal Coliform
	Middle River & West Middle River 090207 Dissolved Oxygen And Mercury TMDL		Oct-28-2008	EPA	Mercury
	Middle River & West Middle River 090207 Dissolved Oxygen And Mercury TMDL				Nitrate
90202	West Pearl River 090202 Turbidity TMDL	Morgan River	Oct-28-2008	EPA	Turbidity
90101	Pearl River 090101 Fecal Coliform And Mercury TMDL	Pearl River	Oct-28-2008	EPA	Fecal Coliform
90101	Pearl River 090101 Fecal Coliform And Mercury TMDL				Mercury
90107	Pearl River 090107 Mercury TMDL				Mercury

B.4.b. St. Tammany Parish TMDL Priority Areas

- Legend**
- Dischargers
 - Survey Sites
 - Storm Sewer Discharge
 - LDEQ Water Quality Monitoring
 - Existing Sewage Line
 - Proposed 66 Inch Sewage Line
 - Canals
 - Parish Laterals
 - Streets
 - Major Roads
 - Streams & Waterbodies
 - Ponds
 - Intensive Survey Reaches
 - Study Reaches
 - Parish Owned
 - Areas That Fail Standards
 - Subdivisions
 - Capital Projects 2012
 - Capital Projects 2012
 - LRA Projects Benefit Areas
 - TMDL Regional Projects
 - Protection, Control, and Preservation
 - Drainage Improvement and Flood Prevention Projects
 - Louisiana Wetlands Projects
 - CWPPRA Projects

1 0 1 Miles

This map was produced by St. Tammany Parish Information Services
 Note: This map is for planning purposes only. It is not a legally recorded
 plan, survey, official map or engineering schematic, and it is not
 intended to be used as such. Map layers were created from different
 sources at different scales, and the actual or relative geographic position
 of any feature is only as accurate as the source information.
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St. Tammany Parish 2018 MS4 Annual Report B.5 MS4 Waste Load Allocations (WLAs)

B.5 MS4 Waste Load Allocations (WLAs)

- a. TMDL/WLA Spreadsheet
- b. UAA Map



B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040705_00	Bedico Creek-From headwaters to Tangipahoa River	N/A	N/A	N/A	N/A	N/A
LA040801_00	Tchefuncte River-From headwaters to US Highway 190; includes tributaries (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ	N/A
LA040801_00	Tchefuncte River-From headwaters to US Highway 190; includes tributaries (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN			N/A
LA040802_00	Ponchitolawa Creek-From headwaters to US Highway 190 (Scenic)	DISSOLVED OXYGEN	PACKAGE PLANT OR OTHER PERMITTED SMALL FLOWS DISCHARGES	Point Sources: 851 lbs BOD/day STP MS4: 3,194 lbs-BOD/day	LDEQ	STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed. STP will continue to provide quarterly non-franchise facility inspections.
LA040802_00	Ponchitolawa Creek-From headwaters to US Highway 190 (Scenic)	TURBIDITY	CONSTRUCTION	N/A	LDEQ	STP will continue to review construction plans for stormwater BMPs, monitor & inspect construction activities for BMPs and enforce the Stormwater Ordinance
LA040803_00	Tchefuncte River-From LA-22 to Lake Pontchartrain	BOD	Individual Sewer Systems; Sanitary Sewer Overflows (Collection System Failures)	13,476 lbs/day (19 lbs/day STP MS4)	STP, LDEQ, LPBF & CPRA	DO= 4.0 mg/L standard. STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, and pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040803_00	Tchefuncte River-From LA-22 to Lake Pontchartrain	Fecal Coliform	Drought-related Impacts	Not Available	STP, LDEQ, LPBF & CPRA	N/A, naturally occurring.
LA040803_00	Tchefuncte River-From LA-22 to Lake Pontchartrain	Fecal Coliform	Individual Sewer Systems	Not Available	STP, LDEQ, LPBF & CPRA	STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, and pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed.
LA040803_00	Tchefuncte River-From LA-22 to Lake Pontchartrain (Estuarine)		Sanitary Sewer Overflows (Collection System Failures)			STP will continue to provide quarterly non-franchise facility inspections
LA040803_00	Tchefuncte River-From LA-22 to Lake Pontchartrain	Mercury - Fish Consumption Advisory	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ	N/A
LA040803_00	Tchefuncte River-From LA-22 to Lake Pontchartrain (Estuarine)	N/A	SOURCE UNKNOWN	N/A	N/A	N/A
LA040803_00	Tchefuncte River-From LA-22 to Lake Pontchartrain	Temperature (water)	Drought-related Impacts	N/A	STP, LDEQ, LPBF & CPRA	N/A, naturally occurring.
LA040803_00	Tchefuncte River-From LA-22 to Lake Pontchartrain (Estuarine)	Total Dissolved Solids	Natural Sources	N/A	STP, LDEQ, LPBF & CPRA	N/A, naturally occurring.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of Impairment:	Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040804_00	Bogue Falaya River-From headwaters to Tchefuncte River (Scenic) [12]	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ	N/A
LA040804_00	Bogue Falaya River-From headwaters to Tchefuncte River (Scenic) [12]	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN			N/A
LA040805_00	Chinchuba Swamp Wetland- Forested wetland located 0.87 miles southwest of Mandeville, southeast of Sanctuary Ridge, and north of Lake Pontchartrain	CAUSE UNKNOWN	SOURCE UNKNOWN	N/A	LDEQ	N/A
LA040806_00	East Tchefuncte Marsh Wetland-Freshwater and brackish marsh located just west of Mandeville, bounded on the south by Lake Pontchartrain, the west by Tchefuncte River, the north by La. Highway 22, and the east by Sanctuary Ridge	N/A	N/A	N/A	LDEQ	N/A

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of Impairment:	Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040807_00	Tchefuncte River from US Highway 190 to Bogue Falaya River; includes tributaries (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	N/A	LDEQ	N/A
LA040807_00	Tchefuncte River from US Highway 190 to Bogue Falaya River; includes tributaries (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN			N/A
LA040808_00	Tchefuncte River-From Bogue Falaya River to La. Highway 22 (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ	N/A
LA040808_00	Tchefuncte River-From Bogue Falaya River to La. Highway 22 (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN			N/A
LA040808_00	Tchefuncte River-From Bogue Falaya River to La. Highway 22 (Scenic)	TURBIDITY	CONSTRUCTION	N/A	LDEQ	STP will continue to review construction plans for stormwater BMPs, monitor & inspect construction activities for BMPs and enforce the Stormwater Ordinance
LA040809_00	Black River-From headwaters to La. Highway 22	N/A	N/A	N/A	N/A	N/A

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	BOD	N/A	Point Sources: 45 lbs-BOD/day STP MS4: 5 lbs-BOD/day	LDEQ	DO std is 5.0 mg/L in summer. STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed. STP will continue to provide quarterly non-franchise facility inspections.
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	Chloride	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	DISSOLVED OXYGEN	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	Sulfates	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	Total Dissolved Solids	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	TURBIDITY	Natural Sources	N/A	LDEQ	N/A, naturally occurring.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040902_00	Bayou Lacombe-From US-190 to Lake Pontchartrain (Scenic) (Estuarine)	BOD	N/A	Point Sources: 120 lbs-BOD/day STP MS4: 2,179 lbs-BOD/day	LDEQ	DO std is 2.3 mg/L in summer. DO Limits were lowered in the headwaters of the watershed due to the 2016 Use Attainability Analysis (UAA) of the Lower Mississippi Alluvial Plain Ecoregion. STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed. STP will continue to provide quarterly non-franchise facility inspections.
LA040902_00	Bayou Lacombe-From US-190 to Lake Pontchartrain (Scenic) (Estuarine)	Chloride	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA040902_00	Bayou Lacombe-From US-190 to Lake Pontchartrain (Scenic) (Estuarine)	Sulfates	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA040902_00	Bayou Lacombe-From US-190 to Lake Pontchartrain (Scenic) (Estuarine)	Total Dissolved Solids	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA040903_00	Bayou Cane-From headwaters to US-190 (Scenic)	Chloride	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA040903_00	Bayou Cane-From headwaters to US-190 (Scenic)	Temperature, water	Drought-related Impacts	N/A	LDEQ	Drought-related Impacts
LA040903_00	Bayou Cane-From headwaters to US-190 (Scenic)	Temperature, water	Natural Sources	N/A	LDEQ	N/A, naturally occurring.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040903_00	Bayou Cane-From headwaters to US-190 (Scenic)	Total Dissolved Solids	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA040903_00	Bayou Cane-From headwaters to US-190 (Scenic)	TSS (Turbidity)	Natural Sources	95,183.61 lbs/day	EPA	Drainage/Filling of wetlands; site clearance (land development or redevelopment); sources unknown
LA040903_00	Bayou Cane-From headwaters to US-190 (Scenic)	Oxygen, Dissolved	ON-SITE TREATMENT SYSTEMS (SEPTIC SYSTEMS AND SIMILAR DECENTRALIZED SYSTEMS)	75 lbs/day (no MS4 allocation)	LDEQ	DO std is 5.0 mg/L in summer & winter. DO Limits were lowered in the headwaters of the watershed due to the 2016 Use Attainability Analysis (UAA) of the Lower Mississippi Alluvial Plain Ecoregion. The headwaters may still not be attaining the minimum criteria. STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed.
LA040904_00	Bayou Cane-From US-190 to Lake Pontchartrain (Scenic, Estuarine)	Oxygen, Dissolved	N/A	Point Source: 0 lbs-BOD/day STP MS4 allocation: 0 lbs-BOD/day	LDEQ	DO std is 2.3 mg/L in summer/ 4.0 mg/L in winter. DO Limits were lowered in the headwaters of the watershed due to the 2016 Use Attainability Analysis (UAA) of the Lower Mississippi Alluvial Plain Ecoregion. The headwaters may still not be attaining the minimum criteria. STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed. STP will continue to provide quarterly non-franchise facility inspections
LA040904_00	Bayou Cane-From US-190 to Lake Pontchartrain (Scenic, Estuarine)	Copper	Source Unknown	WLA incomplete	LDEQ	Implementation of the Clean Marinas program to educate marinas and boat yards in methods of pollutant reduction for Copper.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040905_00	Bayou Liberty-From headwaters to LA-433	Oxygen, Dissolved	ON-SITE TREATMENT SYSTEMS (SEPTIC SYSTEMS AND SIMILAR DECENTRALIZED SYSTEMS)	STP MS4 allocation: 270 lbs/day	LDEQ	STP will continue to utilize decentralized sewer management, community sewer tie-ins, and/or construction of and vegetative planting of dry detention ponds in the watershed.
LA040905_00	Bayou Liberty-From headwaters to LA-433	Oxygen, Dissolved	PACKAGE PLANT OR OTHER PERMITTED SMALL FLOWS DISCHARGES	Point Sources: 215 lbs-BOD/day	LDEQ	STP will continue to work with LDEQ and provide non-franchise facility quarterly inspections.
LA040905_00	Bayou Liberty-From headwaters to LA-433	Chloride	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA040905_00	Bayou Liberty-From headwaters to LA-433	Sulfates	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA040905_00	Bayou Liberty-From headwaters to LA-433	Total Dissolved Solids	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA040906_00	Bayou Liberty-From LA-433 to Bayou Paquet	Oxygen, Dissolved	ON-SITE TREATMENT SYSTEMS (SEPTIC SYSTEMS AND SIMILAR DECENTRALIZED SYSTEMS)	392 lbs/day STP MS4 allocation	LDEQ	DO std is 2.3 mg.L in summer/ 4.0 mg/L in winter. STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed.
LA040906_00	Bayou Liberty-From LA-433 to Bayou Paquet	Oxygen, Dissolved	PACKAGE PLANT OR OTHER PERMITTED SMALL FLOWS DISCHARGES	2.154 lbs/day	LDEQ	DO std is 2.3 mg.L in summer/ 4.0 mg/L in winter. STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed. STP will continue to provide quarterly non-franchise facility inspections

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040906_00	Bayou Liberty-From La. Highway 433 to Bayou Bonfouca; includes Bayou de Chien (Estuarine)	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ	N/A
LA040906_00	Bayou Liberty-From La. Highway 433 to Bayou Bonfouca; includes Bayou de Chien (Estuarine)	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN	EPA TMDL	LDEQ	N/A
LA040907_00	Bayou Bonfouca-From headwaters to LA-433	Oxygen, Dissolved	ON-SITE TREATMENT SYSTEMS (SEPTIC SYSTEMS AND SIMILAR DECENTRALIZED SYSTEMS)	STP MS4 allocation: 134 lbs-BOD/day	LDEQ, CPRA	DO std is 2.3 mg/L in summer/ 5.0 mg/L in winter. DO Limits were lowered in the headwaters of the watershed due to the 2016 Use Attainability Analysis (UAA) of the Lower Mississippi Alluvial Plain Ecoregion. STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed.
LA040907_00	Bayou Bonfouca-From headwaters to LA-433	Oxygen, Dissolved	MUNICIPAL (URBANIZED HIGH DENSITY AREA)	Point Sources: 57 lbs-BOD/day	LDEQ, CPRA	DO std is 2.3 mg/L in summer/ 5.0 mg/L in winter. DO Limits were lowered in the headwaters of the watershed due to the 2016 Use Attainability Analysis (UAA) of the Lower Mississippi Alluvial Plain Ecoregion. STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040907_00	Bayou Bonfouca-From headwaters to LA-433	Oxygen, Dissolved	SANITARY SEWER OVERFLOWS (COLLECTION SYSTEM FAILURES)	Point Sources: 57 lbs-BOD/day	LDEQ, CPRA	DO std is 2.3 mg/L in summer/ 5.0 mg/L in winter. DO Limits were lowered in the headwaters of the watershed due to the 2016 Use Attainability Analysis (UAA) of the Lower Mississippi Alluvial Plain Ecoregion. STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed. STP will continue to provide quarterly non-franchise facility inspections.
LA040907_00	Bayou Bonfouca-From headwaters to LA-433	Copper	Source Unknown	N/A	LDEQ, CPRA	Implementation of the Clean Marinas program to educate marinas and boat yards in methods of pollutant reduction for Copper.
LA040907_00	Bayou Bonfouca-From headwaters to LA-433	CHLORIDE	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA040907_00	Bayou Bonfouca-From headwaters to LA-433	SULFATE	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA040907_00	Bayou Bonfouca-From headwaters to LA-433	TOTAL DISSOLVED SOLIDS (TDS)	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA040907_00	Bayou Bonfouca-From headwaters to LA-433	BENZO[A]PYRENE (PAHS)	CERCLA NPL (SUPERFUND) SITES	N/A	LDEQ	N/A
LA040907_00	Bayou Bonfouca-From headwaters to LA-433	BENZO[A]PYRENE (PAHS)	CONTAMINATED SEDIMENTS	N/A	LDEQ	N/A

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040908_00	Bayou Bonfouca-From LA-433 to Lake Pontchartrain (Estuarine)	Oxygen, Dissolved	Package Plant or Other Permitted Small Flows Discharges	Point Sources: 86 lbs-BOD/Day	LDEQ	DO std is 2.3 mg/L in summer/ 4.0 mg/L in winter. DO Limits were lowered in the headwaters of the watershed due to the 2016 Use Attainability Analysis (UAA) of the Lower Mississippi Alluvial Plain Ecoregion. STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed. STP will continue to provide quarterly non-franchise facility inspections.
LA040908	B. Bonfouca- From Hwy 433 to Lake Pontchartrain (Estuarine)		Source Unknown			
LA040908_00	Bayou Bonfouca-From LA-433 to Lake Pontchartrain (Estuarine)	Oxygen, Dissolved	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	STP MS4: 1,375 lbs-BOD/day	LDEQ	DO std is 2.3 mg/L in summer/ 4.0 mg/L in winter. DO Limits were lowered in the headwaters of the watershed due to the 2016 Use Attainability Analysis (UAA) of the Lower Mississippi Alluvial Plain Ecoregion. STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed.
LA040908_00	Bayou Bonfouca-From CDM Ecoregion boundary to Lake Pontchartrain (Estuarine)	BENZO[A]PYRENE (PAHS)	CERCLA NPL (SUPERFUND) SITES	N/A	LDEQ	N/A
LA040908_00	Bayou Bonfouca-From CDM Ecoregion boundary to Lake Pontchartrain (Estuarine)	BENZO[A]PYRENE (PAHS)	CONTAMINATED SEDIMENTS	N/A		N/A

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040909_00	W-14 Main Diversion Canal- From headwaters to Salt Bayou	Fecal Coliform	On-site treatment systems (septic systems and similar decentralized systems), sanitary sewer overflows (collection system failures), and municipal (urbanized high density area)	5.19x10 ¹⁰ MPN/day	EPA	Hot spot monitoring, pollution source tracking, decentralized sewer management, community sewer tie-ins, and upgrades to existing treatment plants to prevent sanitary sewer overflows.
LA040909_00	W-14 Main Diversion Canal- From headwaters to Salt Bayou	Oxygen, Dissolved	Municipal Point Source Discharges	N/A	LDEQ	DO std is 5.0 mg/L in summer/ 5.0 mg/L in winter. Hot spot monitoring, pollution source tracking, decentralized sewer management, community sewer tie-ins, and upgrades to existing treatment plants to prevent sanitary sewer overflows.
LA040909_00	W-14 Main Diversion Canal- From headwaters to Salt Bayou		Sanitary Sewer Overflows (Collection System Failures)			
LA040910_00	Salt Bayou-From headwaters to Lake Pontchartrain (Estuarine)	Oxygen, Dissolved	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	N/A	EPA	Hot spot monitoring, pollution source tracking, decentralized sewer management, community sewer tie-ins, and upgrades to existing treatment plants to prevent sanitary sewer overflows.
LA040910_00	Salt Bayou-From headwaters to Lake Pontchartrain (Estuarine)		Package Plant or Other Permitted Small Flows Discharges			

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040910_00	Salt Bayou-From headwaters to Lake Pontchartrain (Estuarine)	Fecal Coliform	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	5.23x10 ⁸ MPN/day	EPA	Hot spot monitoring, pollution source tracking, decentralized sewer management, community sewer tie-ins, and upgrades to existing treatment plants to prevent sanitary sewer overflows.
LA040911_00	Grand Lagoon; includes associated canals (Estuarine)	N/A	N/A	N/A	N/A	N/A
LA040912_00	Bayou LaCombe-From Interstate Highway 12 to US Highway 190 (Scenic)	CHLORIDE	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA040912_00	Bayou LaCombe-From Interstate Highway 12 to US Highway 190 (Scenic)	SULFATE	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA040912_00	Bayou LaCombe-From Interstate Highway 12 to US Highway 190 (Scenic)	TOTAL DISSOLVED SOLIDS (TDS)	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA040912_00	Bayou LaCombe-From Interstate Highway 12 to US Highway 190 (Scenic)	TURBIDITY	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA040912_00	Bayou LaCombe-From Interstate Highway 12 to US Highway 190 (Scenic)	TEMPERATURE	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040913_00	Bayou LaCombe-From US Highway 190 to CDM Ecoregion boundary (Scenic) (Estuarine)	TURBIDITY	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA040914_00	Bayou Cane-From US Highway 190 to CDM Ecoregion boundary (Scenic) (Estuarine)	N/A	N/A	N/A	LDEQ	N/A
LA040915_00	Bayou Liberty-From LMRAP Ecoregion boundary to La. Highway 433	CHLORIDE	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA040915_00	Bayou Liberty-From LMRAP Ecoregion boundary to La. Highway 433	DISSOLVED OXYGEN	ON-SITE TREATMENT SYSTEMS (SEPTIC SYSTEMS AND SIMILAR DECENTRALIZED SYSTEMS)	This is a newly designated subsegment. Not sure how the TMDL applied to this subwatershed.	LDEQ	STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed.
LA040915_00	Bayou Liberty-From LMRAP Ecoregion boundary to La. Highway 433	DISSOLVED OXYGEN	PACKAGE PLANT OR OTHER PERMITTED SMALL FLOWS DISCHARGES	This is a newly designated subsegment. Not sure how the TMDL applied to this subwatershed.	LDEQ	STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA040915_00	Bayou Liberty-From LMRAP Ecoregion boundary to La. Highway 433	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA040915_00	Bayou Liberty-From LMRAP Ecoregion boundary to La. Highway 433	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A
LA040915_00	Bayou Liberty-From LMRAP Ecoregion boundary to La. Highway 433	SULFATE	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA040915_00	Bayou Liberty-From LMRAP Ecoregion boundary to La. Highway 433	TOTAL DISSOLVED SOLIDS (TDS)	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA040916_00	Bayou Paquet-From headwaters to Bayou Liberty (Estuarine)	DISSOLVED OXYGEN	PACKAGE PLANT OR OTHER PERMITTED SMALL FLOWS DISCHARGES	This is a newly designated subsegment. Not sure how the TMDL applied to this subwatershed.	LDEQ	STP will continue pollution source tracking, decentralized sewer management, community sewer tie-ins, pond retrofits such as vegetative planting of dry detention ponds and aeration in wet detention ponds in the watershed.
LA040917_00	Bayou Bonfouca-From La. Highway 433 to CDM Ecoregion boundary (Estuarine)	BENZO[A]PYRENE (PAHS)	CERCLA NPL (SUPERFUND) SITES	N/A	LDEQ	N/A
LA040917_00	Bayou Bonfouca-From La. Highway 433 to CDM Ecoregion boundary (Estuarine)	BENZO[A]PYRENE (PAHS)	CONTAMINATED SEDIMENTS	N/A	LDEQ	N/A

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA041001_00	Lake Pontchartrain-West of US- 11 bridge (Estuarine)	N/A	N/A	N/A	LDEQ	N/A
LA041001_001	Fontainebleau State Park Beach - Located within subsegment LA041001_00. Added for advisory purposes only & is not a sub-segment as defined by LAC 33:IX.1123.A. No other assessment is made for this water-body.	ENTEROCOCCUS	SOURCE UNKNOWN	N/A	LDEQ	STP will continue to implement pollution source tracking based upon Hot spot monitoring results, decentralized sewer management, community sewer tie-ins, and/or construction of and vegetative planting of dry detention ponds and aeration of wet detention ponds in the watershed.
LA041002_00	Lake Pontchartrain-East of US Highway 11 bridge (Estuarine)	N/A	N/A	N/A	LDEQ	N/A
LA090101_00	Pearl River-From Mississippi state line to Pearl River Navigation Canal	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090101_00	Pearl River-From Mississippi state line to Pearl River Navigation Canal	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A
LA090101_00	Pearl River-From MS state line to Pearl River Navigation Canal	Sulfates	Industrial Point Source Discharge	N/A	LDEQ	N/A. Industrial point source discharges are regulated by LDEQ & the subsegment is not located within the MS4 boundaries for STP.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA090101_00	Pearl River-From Mississippi state line to Pearl River Navigation Canal	Sulfates	NATURAL SOURCES	N/A	EPA	N/A, naturally occurring.
LA090101_00	Pearl River-From Mississippi state line to Pearl River Navigation Canal	Sulfates	Sources Outside State Jurisdiction or Borders	N/A	EPA	N/A. Interjurisdictional impairments are regulated by EPA. The subsegment is not located within the MS4 boundaries for STP.
LA090102_00	East Pearl River-From Holmes Bayou to I-10	Chloride	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090102_00	East Pearl River-From Holmes Bayou to I-10	Oxygen, Dissolved	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA090102_00	East Pearl River-From Holmes Bayou to I-10	Oxygen, Dissolved	WATERFOWL	N/A	LDEQ	N/A, naturally occurring.
LA090102_00	East Pearl River-From Holmes Bayou to I-10	Oxygen, Dissolved	WILDLIFE OTHER THAN WATERFOWL	N/A	LDEQ	N/A, naturally occurring.
LA090102_00	East Pearl River-From Holmes Bayou to I-10	Sulfates	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090102_00	East Pearl River-From Holmes Bayou to I-10	Total Dissolved Solids	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090103_00	East Pearl River-From I-10 to Lake Borgne (Estuarine)	Oxygen, Dissolved	Freshets or Major Flooding	N/A	LDEQ	N/A. Industrial point source discharges are regulated by LDEQ & the subsegment is not located within the MS4 boundaries for STP.
LA090103_00	East Pearl River-From I-10 to Lake Borgne (Estuarine)	Oxygen, Dissolved	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090103_00	East Pearl River-From I-10 to Lake Borgne (Estuarine)	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090103_00	East Pearl River-From I-10 to Lake Borgne (Estuarine)	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA090104_00	Peters Creek-From headwaters to Pearl River	N/A	N/A	N/A	LDEQ	N/A
LA090105_00	Pearl River Navigation Canal-From Pools Bluff to Lock No. 3	DISSOLVED OXYGEN	ON-SITE TREATMENT SYSTEMS (SEPTIC SYSTEMS AND SIMILAR DECENTRALIZED SYSTEMS)	N/A	LDEQ	N/A. the subsegment is not located within the MS4 boundaries for STP.
LA090105_00	Pearl River Navigation Canal-From Pools Bluff to Lock No. 3	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090105_00	Pearl River Navigation Canal-From Pools Bluff to Lock No. 3	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A
LA090106_00	Holmes Bayou-From Pearl River to West Pearl River (Scenic)	Sulfates	Industrial Point Source Discharge	N/A	LDEQ	N/A. Industrial point source discharges are regulated by LDEQ & the subsegment is not located within the MS4 boundaries for STP.
LA090106_00	Holmes Bayou-From Pearl River to West Pearl River (Scenic)	Sulfates	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090106_00	Holmes Bayou-From Pearl River to West Pearl River (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090106_00	Holmes Bayou-From Pearl River to West Pearl River (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A
LA090106_00	Holmes Bayou-From Pearl River to West Pearl River (Scenic)	TURBIDITY	NATURAL SOURCES	N/A	LDEQ, EPA	N/A, naturally occurring.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA090106_00	Holmes Bayou-From Pearl River to West Pearl River (Scenic)	TURBIDITY	SOURCES OUTSIDE STATE JURISDICTION OR BORDERS	N/A	LDEQ, EPA	N/A. Industrial point source discharges are regulated by LDEQ & the subsegment is not located within the MS4 boundaries for STP.
LA090107_00	Pearl River-From Pearl River Navigation Canal to Holmes Bayou	Sulfates	Industrial Point Source Discharge	N/A	LDEQ	N/A. Industrial point source discharges are regulated by LDEQ & the subsegment is not located within the MS4 boundaries for STP.
LA090107_00	Pearl River-From Pearl River Navigation Canal to Holmes Bayou	Sulfates	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA090107_00	Pearl River-From Pearl River Navigation Canal to Holmes Bayou	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090107_00	Pearl River-From Pearl River Navigation Canal to Holmes Bayou	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A
LA090201_00	West Pearl River-From headwaters to Holmes Bayou (Scenic)	Sulfates	Industrial Point Source Discharge	N/A	LDEQ	N/A. Industrial point source discharges are regulated by LDEQ & the subsegment is not located within the MS4 boundaries for STP.
LA090201_00	West Pearl River-From headwaters to Holmes Bayou (Scenic)	Sulfates	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090201_00	West Pearl River-From headwaters to Holmes Bayou (Scenic)	Sulfates	Sources Outside State Jurisdiction or Borders	N/A	LDEQ	N/A. Interjurisdictional impairments are regulated by EPA. The subsegment is not located within the MS4 boundaries for STP.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA090201_00	West Pearl River-From headwaters to Holmes Bayou (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090201_00	West Pearl River-From headwaters to Holmes Bayou (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A
LA090201_00	West Pearl River-From headwaters to Holmes Bayou (Scenic)	TURBIDITY	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA090201_00	West Pearl River-From headwaters to Holmes Bayou (Scenic)	TURBIDITY	SEDIMENT RESUSPENSION (CLEAN SEDIMENT)	N/A	LDEQ	N/A, naturally occurring.
LA090202_00	West Pearl River-From Holmes Bayou to The Rigolets; includes east and west mouths (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090202_00	West Pearl River-From Holmes Bayou to The Rigolets; includes east and west mouths (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A
LA090202_5126	Morgan River-From Porters River to West Pearl River (Scenic)	Turbidity	Natural Sources	N/A	LDEQ	N/A, naturally occurring.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

**Sources of
Impairment:**

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA090202_5126	Morgan River-From Porters River to West Pearl River (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090202_5126	Morgan River-From Porters River to West Pearl River (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A
LA090203_00	Lower Bogue Chitto-From Pearl River Navigation Canal to Wilsons Slough	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090203_00	Lower Bogue Chitto-From Pearl River Navigation Canal to Wilsons Slough	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A
LA090204_00	Pearl River Navigation Canal-from below Lock No.3	DISSOLVED OXYGEN	ON-SITE TREATMENT SYSTEMS (SEPTIC SYSTEMS AND SIMILAR DECENTRALIZED SYSTEMS)	N/A	LDEQ	N/A. the subsegment is not located withing the MS4 boundaries for STP.
LA090204_00	Pearl River Navigation Canal-from below Lock No.3	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090204_00	Pearl River Navigation Canal-from below Lock No.3	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA090205_00	Wilson Slough-From Bogue Chitto to West Pearl River (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090205_00	Wilson Slough-From Bogue Chitto to West Pearl River (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A
LA090205_00	Wilson Slough-From Bogue Chitto to West Pearl River (Scenic)	Sulfates	Industrial Point Source Discharge & Unknown Sources	N/A	LDEQ	N/A. Industrial point source discharges are regulated by LDEQ & the subsegment is not located withing the MS4 boundaries for STP.
LA090205_00	Wilson Slough-From Bogue Chitto to West Pearl River (Scenic)	Sulfates	Industrial Point Source Discharge	N/A	EPA	N/A. Interjurisdictional impairments are regulated by EPA. The subsegment is not located within the MS4 boundaries for STP.
LA090205_00	Wilson Slough-From Bogue Chitto to West Pearl River (Scenic)	Sulfates	Natural Sources	N/A	LDEQ	N/A, naturally occuring.
LA090205_00	Wilson Slough-From Bogue Chitto to West Pearl River (Scenic)	Sulfates	Source Unknown	N/A	LDEQ	N/A. the subsegment is not located withing the MS4 boundaries for STP.
LA090205_00	Wilson Slough-From Bogue Chitto to West Pearl River (Scenic)	Turbidity	Natural Sources	N/A	LDEQ	N/A, naturally occuring.
LA090205_00	Wilson Slough-From Bogue Chitto to West Pearl River (Scenic)	Turbidity	Sediment Resuspension (Clean Sediment)	N/A	LDEQ	N/A. the subsegment is not located withing the MS4 boundaries for STP.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

**Sources of
Impairment:**

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA090205_00	Wilson Slough-From Bogue Chitto to West Pearl River (Scenic)	Turbidity	Sources Outside State Jurisdiction or Borders	N/A	EPA	N/A. Interjurisdictional impairments are regulated by EPA. The subsegment is not located within the MS4 boundaries for STP.
LA090205_00	Wilson Slough-From Bogue Chitto to West Pearl River (Scenic)	Turbidity	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090205_00	Wilson Slough-From Bogue Chitto to West Pearl River (Scenic)	Turbidity	Sediment Resuspension (Clean Sediment)	N/A	LDEQ	N/A. the subsegment is not located withing the MS4 boundaries for STP.
LA090205_00	Wilson Slough-From Bogue Chitto to West Pearl River (Scenic)	Turbidity	Sources Outside State Jurisdiction or Borders	N/A	EPA	N/A. Interjurisdictional impairments are regulated by EPA. The subsegment is not located within the MS4 boundaries for STP.
LA090206_00	Bradley Slough-From Bogue Chitto to West Pearl River (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090206_00	Bradley Slough-From Bogue Chitto to West Pearl River (Scenic)	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN	N/A	LDEQ, EPA	N/A
LA090206_00	Bradley Slough-From Bogue Chitto to West Pearl River (Scenic)	Sulfates	Industrial Point Source Discharge & Unknown Sources	N/A	LDEQ	N/A. Industrial point source discharges are regulated by LDEQ & the subsegment is not located withing the MS4 boundaries for STP.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

**Sources of
Impairment:**

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA090206_00	Bradley Slough-From Bogue Chitto to West Pearl River (Scenic)	Sulfates	Industrial Point Source Discharge	N/A	LDEQ	N/A. Industrial point source discharges are regulated by LDEQ & the subsegment is not located within the MS4 boundaries for STP.
LA090206_00	Bradley Slough-From Bogue Chitto to West Pearl River (Scenic)	Sulfates	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090206_00	Bradley Slough-From Bogue Chitto to West Pearl River (Scenic)	Sulfates	Source Unknown	N/A	LDEQ	N/A. the subsegment is not located within the MS4 boundaries for STP.
LA090206_00	Bradley Slough-From Bogue Chitto to West Pearl River (Scenic)	Turbidity	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090206_00	Bradley Slough-From Bogue Chitto to West Pearl River (Scenic)	Turbidity	Sediment Resuspension (Clean Sediment)	N/A	LDEQ	N/A. the subsegment is not located within the MS4 boundaries for STP.
LA090206_00	Bradley Slough-From Bogue Chitto to West Pearl River (Scenic)	Turbidity	Sources Outside State Jurisdiction or Borders	N/A	EPA	N/A. Interjurisdictional impairments are regulated by EPA. The subsegment is not located within the MS4 boundaries for STP.
LA090206_00	Bradley Slough-From Bogue Chitto to West Pearl River (Scenic)	Turbidity	Natural Sources	N/A	LDEQ	N/A, naturally occurring.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

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Sources of
Impairment:

Municipal	Industrial	Sewer	Construction
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Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA090206_00	Bradley Slough-From Bogue Chitto to West Pearl River (Scenic)	Turbidity	Sediment Resuspension (Clean Sediment)	N/A	LDEQ	N/A. the subsegment is not located withing the MS4 boundaries for STP.
LA090206_00	Bradley Slough-From Bogue Chitto to West Pearl River (Scenic)	Turbidity	Sources Outside State Jurisdiction or Borders	N/A	EPA	N/A. Interjurisdictional impairments are regulated by EPA. The subsegment is not located within the MS4 boundaries for STP.
LA090207_00	Middle Pearl River and West Middle Pearl River-From West Pearl River to Little Lake	Chloride	Natural Sources	N/A	LDEQ	N/A, naturally occuring.
LA090207_00	Middle Pearl River and West Middle Pearl River-From West Pearl River to Little Lake	DISSOLVED OXYGEN	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occuring.
LA090207_00	Middle Pearl River and West Middle Pearl River-From West Pearl River to Little Lake	DISSOLVED OXYGEN	WILDLIFE OTHER THAN WATERFOWL	N/A	LDEQ	N/A, naturally occuring.
LA090207_00	Middle Pearl River and West Middle Pearl River-From West Pearl River to Little Lake	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090207_00	Middle Pearl River and West Middle Pearl River-From West Pearl River to Little Lake	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

**Sources of
Impairment:**

Municipal	Industrial	Sewer	Construction
-----------	------------	-------	--------------

Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA090207_00	Middle Pearl River and West Middle Pearl River-From West Pearl River to Little Lake	Sulfates	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090207_00	Middle Pearl River and West Middle Pearl River-From West Pearl River to Little Lake	Total Dissolved Solids	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090207_5112	Morgan Bayou-From headwaters near I-10 to Middle River	Chloride	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090207_5112	Morgan Bayou-From headwaters near I-10 to Middle River	DISSOLVED OXYGEN	NATURAL SOURCES	N/A	LDEQ	N/A, naturally occurring.
LA090207_5112	Morgan Bayou-From headwaters near I-10 to Middle River	DISSOLVED OXYGEN	WATERFOWL	N/A	LDEQ	N/A, naturally occurring.
LA090207_5112	Morgan Bayou-From headwaters near I-10 to Middle River	DISSOLVED OXYGEN	WILDLIFE OTHER THAN WATERFOWL	N/A	LDEQ	N/A, naturally occurring.

B.5.a TMDL/WLA Spreadsheet with Measurable Goals for Pollutant Reduction

Note: Pollutants resulting from air deposition or natural sources were excluded from this list.

Sources of Impairment:	Municipal	Industrial	Sewer	Construction
------------------------	-----------	------------	-------	--------------

Subsegment Number	Subsegment Description	Pollutants of Concern	Suspected Sources of Impairment	TMDL Total WLA (Measurable Goal)*	Water Quality Monitoring Data	Control Method (BMP)
LA090207_5112	Morgan Bayou-From headwaters near I-10 to Middle River	MERCURY - FISH CONSUMPTION ADVISORY	ATMOSPHERIC DEPOSITION - TOXICS	EPA TMDL	LDEQ, EPA	N/A
LA090207_5112	Morgan Bayou-From headwaters near I-10 to Middle River	MERCURY - FISH CONSUMPTION ADVISORY	SOURCE UNKNOWN		LDEQ, EPA	N/A
LA090207_5112	Morgan Bayou-From headwaters near I-10 to Middle River	Sulfates	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
LA090207_5112	Morgan Bayou-From headwaters near I-10 to Middle River	Total Dissolved Solids	Natural Sources	N/A	LDEQ	N/A, naturally occurring.
* For water bodies with a WLA, the WLA is the compliance goal for the MS4.	* For water bodies with no WLA, antidegradation is the compliance goal for the MS4.					

Use Attainability Analysis (UAA)

08/19/2015



St. Tammany Parish Government
P.O. Box 628
Covington, LA 70434

Legend

LPBF Monthly Monitoring Sites

LDEQ Water Quality Stations

Roads

Major Roads

Streams

Dissolved Oxygen

2.3 mg/L

2.3/4.0 mg/L

2.3/5.0 mg/L

4.0 mg/L

5.0 mg/L

Parish Boundary

Eastern Lower Mississippi River Alluvial Plains

ECO Regions

Mississippi Alluvial Plain

Southeastern Plains

Southern Coastal Plain

MapID: 2015abg-103

Created: 7/29/2015



0 1 2 3 4 5

Miles

This map was produced by St. Tammany Parish Government GIS.
Note: This map is for planning purposes only. It is not a legally recorded plan, survey, official tax map or engineering schematic, and it is not intended to be used as such. Map layers were created from different sources at different scales, and the actual or relative geographic position of any feature is only as accurate as the source information.
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St. Tammany Parish 2018 MS4 Annual Report B.6 Water Quality Monitoring

B.6 Water Quality Monitoring

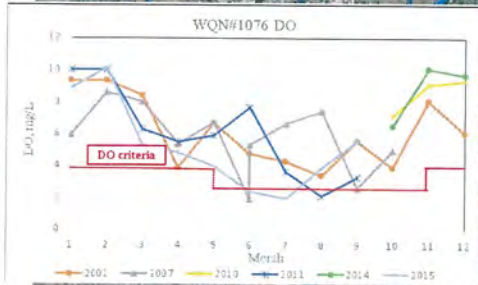
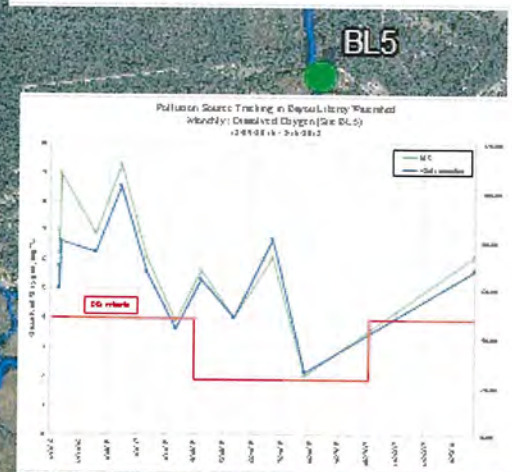
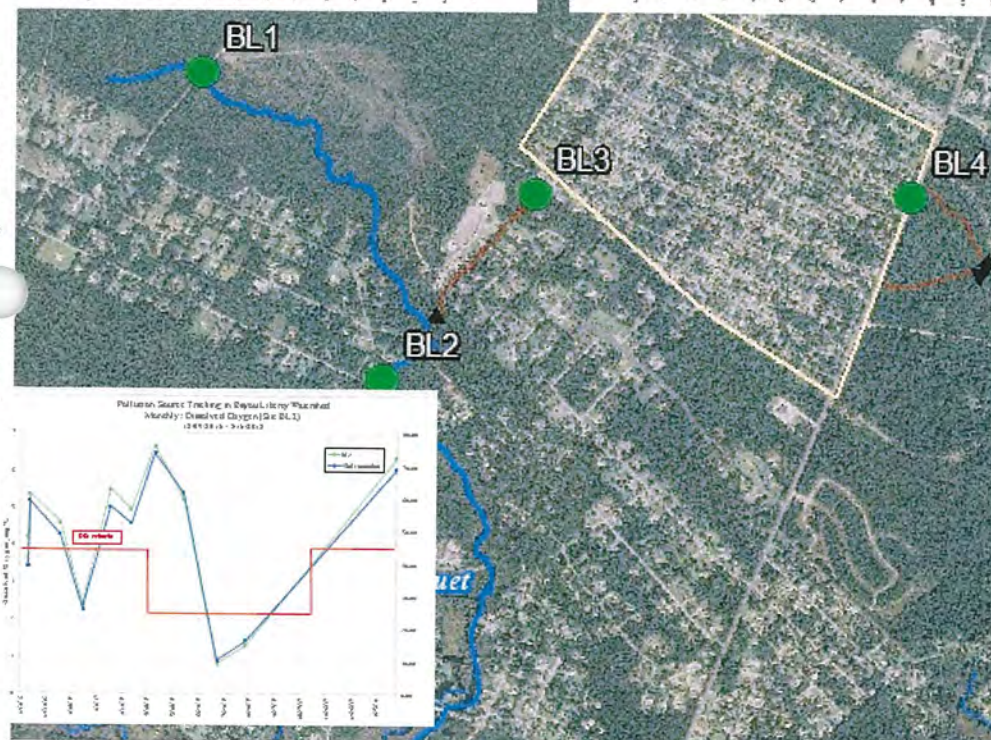
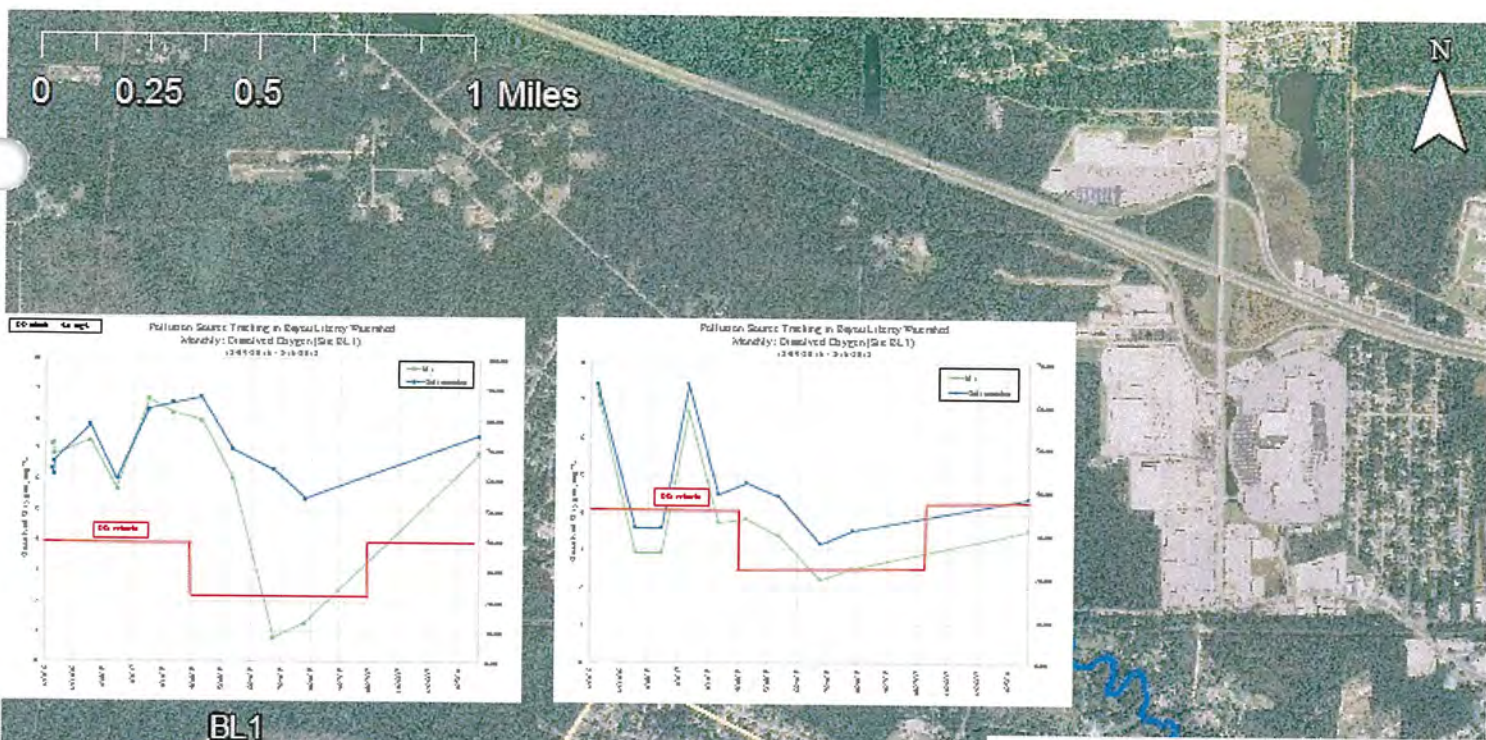
- a. Water Quality Improvement Table
- b. Water Quality Sampling Map
- c. Sewer Inspection Program Results



B.6.a WQ Improvement Table

Abita River Watershed

	AB4 internal (pre-pond)			AB3 outfall (post-pond)			%Change across Vegetated Dry Pond (Post- Inspection)
ANALYTE	Median		% Change	Median		% Change	
	Pre- Inspection	Post- Inspection		Pre- Inspection	Post- Inspection		
DO	6.21	7.24	16.59	4.88	5.55	13.73	-23.3%
%DOsat	68.98	70.85	2.71	52.82	64.14	21.43	-9.5%
pH	7.19	7.03	-2.23	7.01	7.08	1.00	0.7%
Conductivity	0.37	0.35	-3.29	0.36	0.25	-29.69	-28.9%
Turbidity	7.19	7.03	-2.23	7.01	7.08	1.00	0.7%
BOD5	15.70	6.50	58.60	9.70	4.90	-49.48	-24.6%
FC (log10 CFU/100ml)	2.77	3.54	27.91	2.76	3.49	26.34	-1.5%
NH4-N	2.06	0.37	-82.04	3.11	0.69	-77.81	86.5%
NO2+NO3-N	2.74	3.28	19.71	2.75	1.21	-56.00	-63.1%
TN	5.01	9.30	85.63	6.74	3.18	-52.82	-65.8%
TP	1.02	1.38	35.29	1.17	0.67	-42.74	-51.4%
TOC	15.29	13.39	-12.43	16.20	16.87	4.14	26.0%
TSS	58.67	14.67	-75.00	6.00	9.33	55.50	-36.4%
TN:TP Ratio	4.91	6.74	37.20	5.76	4.75	-17.61	-29.6%



WQN
1077

WQN
1076



ID	lat	long	Description
BL1	30.296473	-89.860339	Bayou Paquet Upstream
BL2	30.286162	-89.854226	Bayou Paquet Downstream
BL3	30.292431	-89.849195	Neighborhood output to Bayou Paquet
BL4	30.292462	-89.836564	Neighborhood output to Bayou Liberty
BL5	30.281894	-89.823018	Bayou Liberty Downstream

Legend

- Monitoring Sites
- Streams
- Drainage Flow
- Ozone Woods

Sources: ESRI, USDA

B.6.c Sewer Inspection Program Results

Abita Home Sewer Inspection Program January 1 to December 31

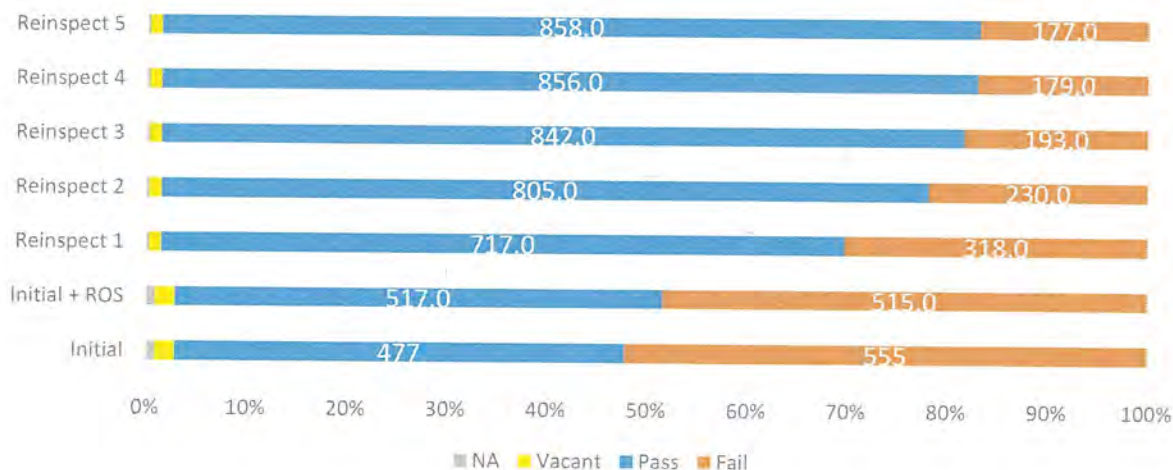
Inspections

From January 1st to December 31st there were 1070 total inspections performed under the program. Of those inspections, 574 were re-inspections and 496 initial inspections. Of the initial inspections 249 passed and 247 failed for an initial failure rate of 50%.

In Situ Data

Site	Date	Temp. (C)	D.O. (mg/L)	Cond. (ms)	pH	Turb. (NTU)	Sal. (ppt)	% DO
AB 1	10/29/2018	18.7	4.9	0.0844	6.83	17.9	0.047	52.52
AB 2	10/29/2018	20.6	4.2	0.0166	7.93	6.14	0.009	46.75
AB 3	10/29/2018	18.9	4.6	0.2731	7.73	16.8	0.152	49.53
AB 4	10/29/2018	20.1	2.9	0.317	7.59	11.4	0.177	31.99
AB 5	10/29/2018	18.3	7.8	0.047	7.35	12.6	0.026	82.91
AB 1	11/19/2018	11.3	9.8	0.0623	6.99	18.7	0.035	89.51
AB 2	11/19/2018	13.9	5.5	0.4123	7.21	6.85	0.230	53.33
AB 3	11/19/2018	12.2	6.9	0.282	7.04	13.6	0.157	64.38
AB 4	11/19/2018	15.6	4.5	0.514	7.64	31.9	0.287	45.28
AB 5	11/19/2018	11.5	10.6	0.0347	7.06	11.3	0.019	97.25
AB 1	12/17/2018	11.8	8.4	0.0499	7.05	20.3	0.028	77.60
AB 2	12/17/2018	13.4	4.9	0.3897	7.11	5.45	0.217	46.98
AB 3	12/17/2018	11.1	8.6	0.2132	7.18	18.1	0.119	78.23
AB 4	12/17/2018	13.7	5.2	0.4107	7.88	25.6	0.229	50.20
AB 5	12/17/2018	11.4	9.6	0.0249	7	12.2	0.014	87.87

Abita Reinspection Pass/Fail: 02/06/2018





St. Tammany Parish

2018 MS4 Annual Report

C. Stormwater Management Program Status

C. Stormwater Management Program Status:

1. Public Education & Outreach
2. Public Involvement & Participation
3. Illicit Discharge Detection & Elimination
4. Construction Site Stormwater Controls
5. Post-Construction Stormwater Controls
6. Municipal Good Housekeeping & Pollution Prevention
7. Stormwater Enforcement
8. Funding for Stormwater Program
9. Stormwater Management Program Review
10. Water Quality Programs to Address TMDLs & WLAs





St. Tammany Parish

2018 MS4 Annual Report

C.1 Public Education & Outreach



C.1 Public Education & Outreach

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency (completed, ongoing, in progress, not started)
Public Education & Outreach regarding SW & WQ	Presentations, handouts, etc.	Increased Public Awareness regarding SW & WQ		2018-2023	Ongoing/Continuous or as needed to increase public awareness regarding SW & WQ, etc. Pamphlets such as The "Green Guide" available on website.
Public Education & Outreach regarding SW & WQ	Media	Deliver SW & WQ educational messages via media		2018-2023	Ongoing/Continuous or as needed to increase public awareness regarding SW & WQ projects, issues, etc.
Public Education & Outreach regarding SW & WQ	Education for homeowners	Provide homeowners with information about lawn care BMPs, ATU and/or septic tank maintenance, proper waste disposal, etc.	X	2018-2023	Ongoing/Continuous or as needed to increase public awareness regarding lawn care, ATU/Septic tank maintenance, Pollution Source Tracking Program, Decentralized Management Program, Household Hazardous Waste Days, etc.
Public Education & Outreach regarding SW & WQ	Clean Marinas Outreach	Meetings with Marinas regarding the Clean Marinas Program		2018-2023	As needed/ Address TMDLs for Copper and other related pollutants on impaired waterways.
Public Education & Outreach regarding SW & WQ	SW Pond Retrofit Projects existing SW retention and/or detention ponds with SW BMPs	Improve WQ quality & quantify removal efficiencies. WQ Protection Area signs to be installed on site.	X	2018-2023	As needed/ Educate the development community regarding methods to address SW discharges to TMDL or 303(d) listed impaired waterways.
Public Education & Outreach regarding SW & WQ	SW Pond Prioritization for WQ Improvement and BMP retrofit projects	Utilizing recommendations from SW Pond Demonstration projects (above), Parish SW ponds are prioritized for BMP retrofits/installation	X	2018-2023	In progress/As needed to educate the development and residential community regarding methods to address TMDLs on impaired waterways.

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency (completed, ongoing, in progress, not started)
Public Education & Outreach regarding SW & WQ	Water Quality Improvement Signage	Place WQ signs at all hot spot monitoring sites, demonstration ponds, & WQ projects	X	2018-2023	Ongoing/ Increased public awareness of WQ improvement projects in the Parish.
Public Education & Outreach regarding SW & WQ	Sewer System Inspection Signage & Door Hangers	Place signage & door-hangers regarding Pollution Source Tracking Program	X	2018-2023	Ongoing/ Inform residents in targeted watersheds prior to initiating Pollution Source Tracking in their neighborhood.
Public Education & Outreach regarding SW & WQ	Student & Teacher enrichment & participation in pond planting projects	Increased awareness of indigenous plant material, beneficial use of wetlands, stormwater management & WQ improvement	X	2018-2023	Continuing/Student education & camp sessions for STP middle and high school students at Camp Salmen. WQ monitoring & Adopt-a-Pond program for student & citizen volunteers.
Public Education & Outreach regarding SW & WQ	Stormwater website	Provide stormwater & WQ information on the STP stormwater website		2018-2023	Ongoing/Continuous-the stormwater website educates the public regarding stormwater, pollution prevention, & water quality protection.
Public Education & Outreach regarding SW & WQ	Water Quality Task Force Meetings	Interagency meeting is open to LDEQ, other regulators, MS4s, non-profits, and stakeholders		2018-2023	Ongoing/Continuous bimonthly meetings for interagency awareness and cooperation regarding water quality & stormwater issues and the MS4.
Public Education & Outreach regarding SW & WQ	Other Parish web pages	Provide environmental & WQ information on the STP website	X	2018-2023	Ongoing/ The Parish website educates the public on various webpages to increase awareness of WQ & the environment.
Public Education & Outreach regarding SW & WQ	Use various media methods and fliers	Inform public about Household Hazardous Waste Days to be held	X	2018-2023	Annually or Biannually/ Inform the public regarding Household Hazardous Waste Days held by the Parish.

C.1.

Water Quality Protection Area Signage

Increases public awareness
regarding water quality
protection & parish
programs to protect and/or
improve water quality.



GO GREEN ST. TAMMANY

A GREEN LIVING GUIDE FOR ST. TAMMANY



PRODUCED BY
ST. TAMMANY PARISH GOVERNMENT
DEPARTMENT OF ENVIRONMENTAL SERVICES
www.stpgov.org/Green-Living



DOS AND DON'TS OF HOUSEHOLD HAZARDOUS WASTE

To make sure you are recycling and disposing of Household Hazardous Waste correctly, take a minute to read over these topics. You may discover that you have been doing something wrong all along.

■ DO

Look carefully for a natural, non-hazardous substitute before buying.

■ DON'T

Mix chemical products or wastes. Dangerous, toxic reactions can occur.

■ DO

Select water-based products over solvent-based products when available.

■ DO

Read the label and follow use, storage and disposal directions carefully.

■ DO

Completely finish products in containers before disposal.

■ DON'T

Store corrosives, flammables and poisons together.

■ DO

Keep all chemicals out of the reach of children and pets.

■ DON'T

Re-purpose pesticide or other chemical containers.

■ DO

Choose the pump spray or other alternatives rather than aerosol sprays.

FLAMMABLE SOLIDS ARE DANGEROUS!

These are solid wastes that pose a fire threat. Flammable solids are materials that have the potential to ignite by friction or heat sources, or by contact with other chemicals. The danger associated with flammable solids is that they have the potential to combust. Flammability is one of the more common dangers of hazardous wastes and must be watched carefully. Examples of flammable solids are charcoal, matches, candles and silicon based caulking products.





DID YOU KNOW...

USED MOTOR OIL IS A HAZARDOUS WASTE?

Used motor oil is a hazardous waste and cannot go into your curbside garbage or trash for pickup. Do not pour used motor oil into storm drains or water systems. One gallon of motor oil can contaminate 1 million gallons of water, so it is important to dispose of oil properly. When changing your car's motor oil and filter, take it to one of the local household hazardous waste recyclers or to your local mechanic. They will be able to assist with the proper disposal of used motor oil.



62% Of all petroleum pollution in the United States comes from used lubrication oil.



10% Of do-it-yourself auto mechanics recycle their waste oil properly.



40% Of the pollution in America's waterways is from used engine oil.



FLUORESCENT LIGHT BULBS

The bulbs are perfectly safe as long as the glass is not broken and for that reason it is important to be especially careful when disposing of spent fluorescent bulbs. Since they contain mercury, fluorescent bulbs should be recycled in order to ensure that they stay out of landfills where they could contaminate the air, soil and/or groundwater. Recycling prevents the release of mercury into the environment.

MANAGING HHW

01 WHAT MAKES A PRODUCT HAZARDOUS?

Household Hazardous Waste (HHW)

Hazardous waste is waste that is dangerous or potentially harmful to our health or the environment. Hazardous waste can be liquids, solids, gases, or sludges. They can be discarded commercial products, like cleaning fluids or pesticides, or the by-products of manufacturing processes.

NON-TOXIC CLEANING PRODUCTS 02

How are these any better for the environment?

Using non-toxic commercial cleaning products and products like vinegar and baking soda minimizes exposure to toxins and provides a healthier indoor environment. Buying concentrated cleaners saves money and creates fewer large plastic containers to dispose of. Eco labels help guide consumers in purchasing products with reduced environmental impact.

03 WHY BRING TO A COLLECTION DAY?

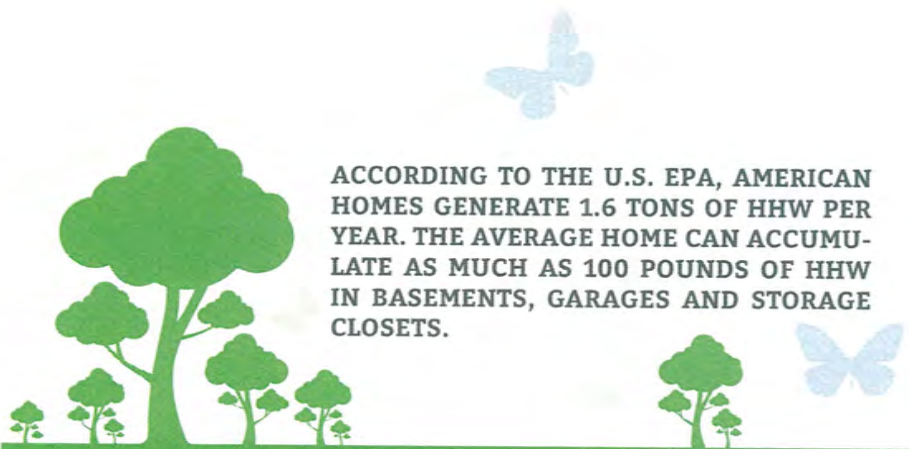
What's the point? Can't I throw them in the trash?

When handled or disposed of improperly, HHW materials can harm the environment and pose health and safety threats to you, your family, your pets and sanitation workers. Never throw HHW products in the garbage, sink or toilet, into a storm drain, or on the ground.

I MISSED THE COLLECTION DAY 04

Do I have to hold onto them until next year?


Many household hazardous materials can be recycled locally year-round. (For a list of businesses and materials accepted, see the index in the back of this guide.) Items that can be donated for recycling include batteries, building materials and paint, clothes and household goods, and several other miscellaneous items.



ACCORDING TO THE U.S. EPA, AMERICAN HOMES GENERATE 1.6 TONS OF HHW PER YEAR. THE AVERAGE HOME CAN ACCUMULATE AS MUCH AS 100 POUNDS OF HHW IN BASEMENTS, GARAGES AND STORAGE CLOSETS.


HHW IS SOMETIMES DISPOSED OF IMPROPERLY

When people dispose of hazardous materials by pouring them pouring wastes down the drain, on the ground, into storm sewers, or putting them out with the trash, they are exposing themselves and others to dangers that have the potential to:

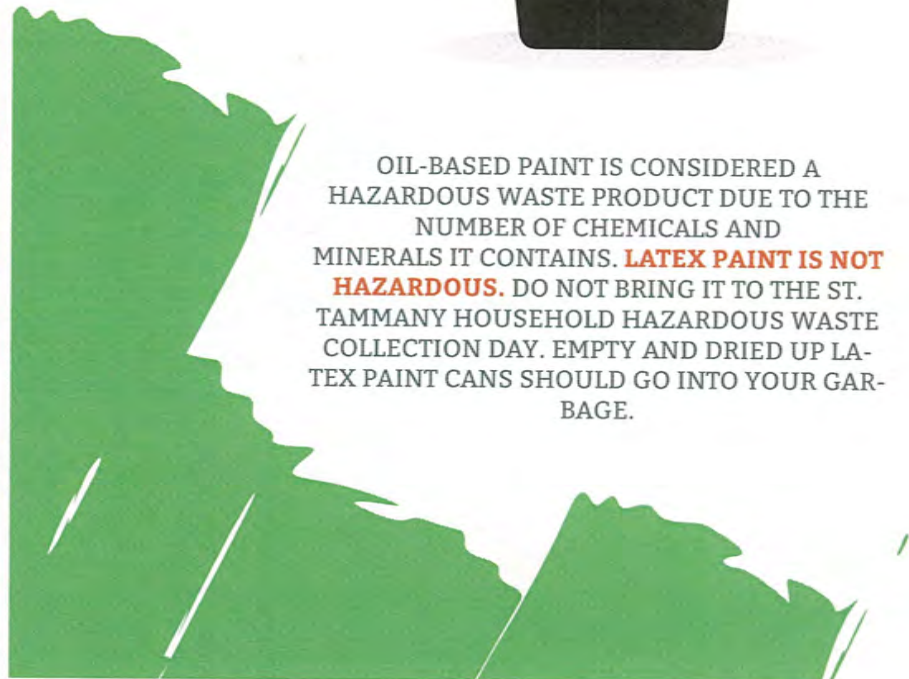
1. Present hazards to children if left around the house
 2. Contaminate septic tanks or wastewater treatment systems if poured down drains or toilets
 3. Pollute bodies of water if poured into storm sewers
 4. Cause physical injury to sanitation workers
 5. Contaminate ground water and surface water that is used as a source of drinking water if sent to the unprotected landfills.
- 

WHAT IS HOUSEHOLD HAZARDOUS WASTE?

Household hazardous waste is any product labeled toxic, poisonous, corrosive, flammable, combustible or any irritant that requires proper disposal. You'd be surprised at the amount of toxic chemicals that are hiding in your closet, garage or shed! These items present a danger to both your health and your environment.



HOW TO **SAFELY** DISPOSE OF LEFTOVER PAINT



OIL-BASED PAINT IS CONSIDERED A HAZARDOUS WASTE PRODUCT DUE TO THE NUMBER OF CHEMICALS AND MINERALS IT CONTAINS. **LATEX PAINT IS NOT HAZARDOUS.** DO NOT BRING IT TO THE ST. TAMMANY HOUSEHOLD HAZARDOUS WASTE COLLECTION DAY. EMPTY AND DRIED UP LATEX PAINT CANS SHOULD GO INTO YOUR GARBAGE.

REDUCE LEFTOVER PAINT

1. Buy only what you need.

Retailers can help calculate the right amount of paint for your project. Typically, one gallon of paint will provide one coat for 300 square feet.

2. Buy less for the next project.

Use leftover paint as a base coat on another project.

3. Save it for future use.

If stored properly, paint will stay good for a long time. To prevent paint from drying out, cover the surface with plastic wrap, then replace the lid securely. Finally, store the paint can upside down in an area where it cannot freeze.

4. Give it away.

Only give away paint that is in good condition and in its original container with an intact lid.



LATEX PAINT

How to dry out latex paint for home disposal:

- Some latex paint may contain mildew protection, which means it's made with pesticides. This makes it hazardous and it should be disposed of in a proper HHW collection center.
- If you have an inch or less of paint left in the can, remove the lid and let the paint dry out. Store it away from children and animals and protect it from rain and freezing temperatures. This method works best in warm, dry weather.
- If there's more than an inch of paint in the can, mix paint with equal amount of cat litter, stir and let it dry before placing in garbage cart.
- After latex paint has dried, place the open cans in your garbage cart.

OIL PAINT

- If your oil-based paint can is completely empty, remove the lid and place it out for garbage pickup. Partially full or full cans of oil-based paint must be taken to a household hazardous collection site for disposal. Do NOT put cans of oil-based paint out for pick up.
- Unlike latex paint, oil based paint should not be dried out or solidified. Oil-based paint is flammable or combustible whether wet or dry.
- Never put flammable products, such as oil-based paint or thinner, down any drain or into the garbage.

REDUCE POLLUTION — RECYCLE.

When you choose to recycle, you reduce the amount of waste that your produce. This helps keep the environment and air we breathe clean. Waste must be disposed of properly, to help save energy and contribute to the reduction in the harmful gases in the environment.

LITTER DECOMPOSITION RATES

PAPER	2-5 MONTHS	FOAMED PLASTIC CUPS, PLATES	50 YEARS
ORANGE PEEL	1-6 MONTHS	DISPOSABLE DIAPER	75 YEARS
CIGARETTE BUTT	5-6 YEARS; WHILE LEACHING CHEMICALS	TIN CAN	50-100 YEARS
MILK CARTON (CARDBOARD)	5 YEARS	SOFT DRINK CAN	200-500 YEARS
PLASTIC BAG	10 YEARS	MONO-FILAMENT FISHING LINE	600 YEARS
PLASTIC CUPS, LIDS AND UTENSILS	20-30 YEARS	GLASS BEVERAGE BOTTLE	1 MILLION YEARS
METAL BOTTLE CAP	50 YEARS	STYROFOAM	NEVER



DID YOU KNOW?

CIGARETTE BUTTS ARE TOXIC.

Cigarette butts are poisonous to children, pets and wildlife. They are the #1 item found on beaches and roadsides, and are a major litter item at parks. Cigarette butts leach toxic chemicals into the environment including lead, arsenic and nicotine — the same toxic chemicals found in secondhand smoke.

REDUCE YOUR WASTE



NO. 1

Lunch Smart

Vow to use reusable containers, utensils and straws, like those made out of bamboo and stainless steel. And remember those reusable bottles!



NO. 2

Change the way you gift and wrap.

Help loved ones celebrate the year with more eco-friendly gifts and experiences. When you do wrap a gift, look for reusable wrap, which can be a gift in itself.



NO. 3

Refuse!

Turn down the napkins and throw-away chop sticks with your take-out dinner, or that unwanted mail you never read. Sometimes less is more!



NO. 4

Bring reusable bags to the store.

Using your own bags means less plastic bags in the landfill or other places where wildlife can become entangled in them or eat them.

WHAT IS E-WASTE?

E-waste products are electronic products that are unwanted, non-working or obsolete, and have essentially reached the end of their useful life. Because technology advances at such a high rate, many electronic devices become "trash" after a few short years of use. Certain components of some electronic products contain materials that render them hazardous, depending on their condition and density.



The use of electronic products has grown substantially over the past two decades, changing the way and the speed in which we communicate and how we get information and entertainment. According to the Consumer Electronics Association (CEA), Americans now own approximately 24 electronic products per household. Donating used electronics for reuse extends the lives of valuable products. Recycling electronics prevents valuable materials from going into the waste stream.

Consumers now have many options to recycle or donate their used electronics or reuse. Many computer, TV, and cell phone manufacturers, as well as electronics retailers offer some kind of take back program or sponsor recycling events. About half of the states currently have laws on disposal and recycling of electronics and several other states are considering the passage of similar laws.



■ IT'S TOXIC

Trace materials from e-waste account for 70% of toxic waste in landfills. These materials can leach out and contaminate our soil and drinking water sources.



■ LOST MONEY

82% of discarded electronics are thrown away. One million cell-phones would recover 50 lbs of gold, 550 lbs of silver, 20 lbs of palladium and 20,000 lbs of copper.



■ RECYCLED

Only 13% of disposed e-waste is recycled. 20-50 million metric tons of e-waste is disposed of worldwide each year, leaving behind lead, cadmium, mercury and other hazardous waste.

E-WASTE IS A BIG PROBLEM!



29.2%

In 2012, 3.412 million tons of e-waste was generated in the U.S. Only one million tons or 29.2% was recycled.



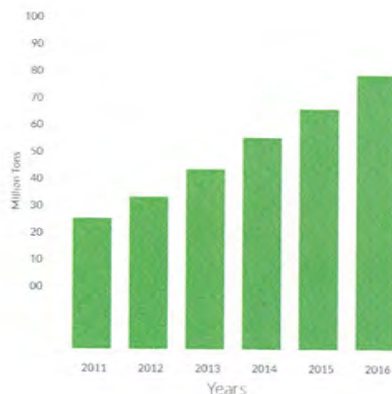
70%

Trace materials from e-waste in landfills accounts for 70% of toxic waste in those landfills.

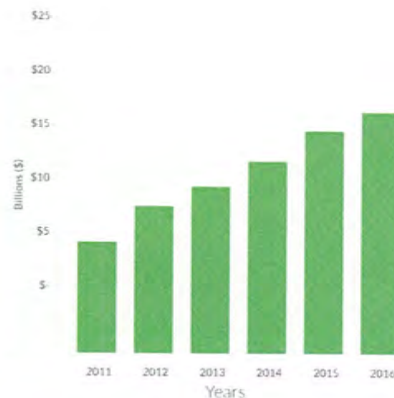


70%

The average person replaces their cell phone every 18 months. 70% of cell phones can be recycled for reuse.



E-Waste Volume Growth since 2011



E-Waste Revenue Growth since 2011

E-WASTE VOLUME & REVENUE GROWTH THROUGH 2016

The annual global volume E-waste generates is expected to reach 93.5 million tons by 2016, according to a new report from Research and Markets. This estimate is more than double the 41.5 million tons generated in 2011. Also, the revenue generated from the sale and processing of end-of-life electronics has doubled from its current \$9.15 billion per year to over \$20 billion over the next five years.



20+ YEARS LIFESPAN

\$100+ PER YEAR IN SAVINGS

HOW DO THEY WORK?

TANKLESS WATER HEATERS

Tankless water heaters deliver hot water as needed, eliminating the need for storage tanks. Tankless water heaters, also known as demand-type or instantaneous water heaters, provide hot water only as it is needed. They can save money because they don't produce the standby energy losses associated with storage water heaters, which can save you money.

AN ECO FRIENDLY LIFESTYLE

Tankless water heaters minimize carbon emissions.

ENERGY STAR RATING

Advanced tankless water heaters qualify for this vital certification.

REDUCED LANDFILL WASTE

Tankless hot water heater units last up to twice as long as old tank water heaters.

FOR HOMES THAT USE 41 GALLONS OR LESS OF HOT WATER DAILY, DEMAND WATER HEATERS CAN BE 24%-34% MORE ENERGY EFFICIENT THAN CONVENTIONAL STORAGE TANK WATER HEATERS. YOU CAN ACHIEVE EVEN GREATER ENERGY SAVINGS OF 27%-50% IF YOU INSTALL A DEMAND WATER HEATER AT EACH HOT WATER OUTLET. ENERGY STAR® ESTIMATES THAT A TYPICAL FAMILY CAN SAVE \$100 OR MORE A YEAR WITH AN ENERGY STAR® QUALIFIED TANKLESS WATER HEATER.

WHAT IS STORMWATER RUNOFF?

When rain flows across the ground it is called stormwater runoff. Storm water can pick up debris, chemicals, dirt and other pollutants. Porous surfaces such as grass, allow the storm water to be naturally filtered as it soaks into the ground. However, surfaces like driveways, sidewalks, and streets cannot filter or absorb these pollutants. Stormwater that is not absorbed will flow into a stormwater drainage system or directly to a local waterway such as Lake Pontchartrain.

Runoff or nonpoint source water pollution happens when contaminants are carried into rivers, lakes, wetlands, coastal waters and ground waters. Pollution may come from lawn fertilizers, improperly managed construction sites, or oil and grease from highways. Remember, anything that enters a stormwater drainage system will flow untreated into the waterways that we use for activities such as boating, fishing and swimming.

DO'S AND DON'TS OF STORMWATER SAFETY

■ Don't

Blow grass and leaves into storm drains. Whenever possible compost or mulch yard waste.

■ Do

Properly dispose of household hazardous waste at designated places and **NOT** in manholes or storm drains.

■ Do

Use organic mulch or alternative pest control methods whenever possible.

■ Don't

Let improperly treated sewerage flow into ditches. Don't dump or pour anything into the storm drain.

■ Don't

Over water your lawn. Consider using a soaker hose instead of a sprinkler.

■ Do

Keep sediment laden stormwater from flowing off of construction sites.



WATER CONSERVATION

30,000,000

30 million plastic bottles per day end up in landfills or the ocean. Only 5% of plastic water bottles are recycled in the U.S.

10,000x

Bottled water costs 10,000 times more than tap water in the United States. This is more cost by volume than gasoline or soda.

+90%

Of manufacturer's costs is from making the bottle, label, and cap. Bottled water costs between \$0.25 and \$2 per bottle.

2000x

On averaged, bottled water consumes around 2,000 times more energy than tap water.

THREE BILLION

One out of five water bottles are recycled. The remaining bottles contribute to the three billion pounds of plastic waste per year.

22%

22% of bottled water has shown chemical contaminants at levels above those allowed by strictly regulated tap water.

DON'T OPEN THAT BOTTLE! TURN ON THE TAP!

- It is estimated that over 80% of all single use water bottles used in the U.S. simply becomes litter.
- U.S. landfills are overflowing with two million tons of discarded water bottles.
- It is estimated that three liters of water is used to create one liter of bottled water.
- It takes over 1.5 million barrels of oil to meet the demand of U.S. water bottle manufacturing. This amount far exceeds the amount need to power 100,000 homes for a year, which does not include fossil fuel and emissions costs of greenhouse gases needed to transport the final product to market.
- Only PET bottles can be recycled. All other bottles are discarded. Only 1 out of 5 bottles are sent to the recycle bin.





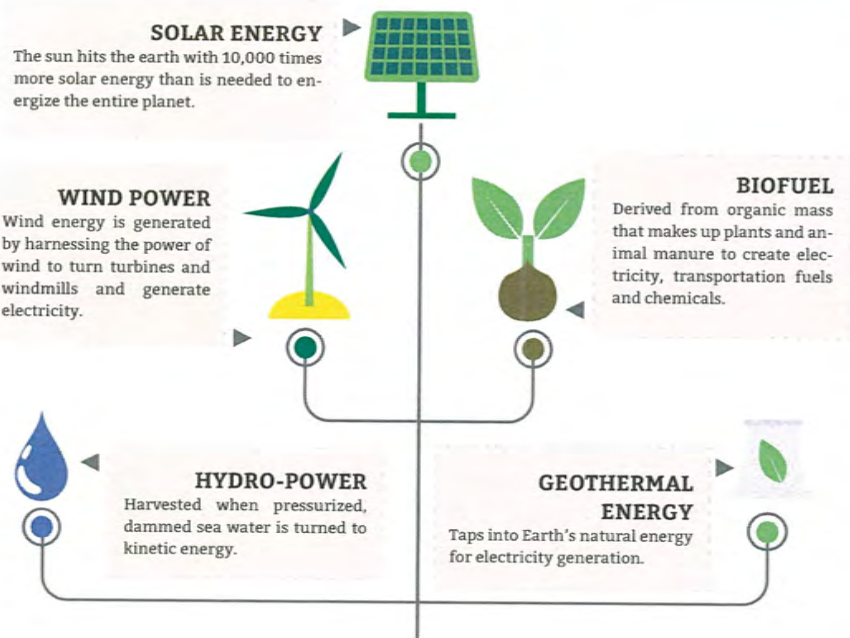
DID YOU KNOW?

BY 2050 RENEWABLE ENERGY

from solar, wind and other renewable resources will account for 1/3 of the world's energy. Climate change, population growth, and fossil fuel depletion mean that renewables will need to play a bigger role in the future than they do today.

ALTERNATIVE ENERGY

Everyday, the world produces carbon dioxide that is released into the earth's atmosphere and will stay there for the next 100 years. This increased content of carbon dioxide increases the warmth of our planet and is the main cause of the so called "Global Warming Effect". One answer to global warming is to replace and retrofit current technologies with alternatives that have comparable or better performance, but do not emit carbon dioxide. We call this Alternative Energy.



WHY BUY ENERGY STAR® APPLIANCES

01 IT PAYS!

Often ENERGY STAR® appliances pay for themselves with a lifetime of savings on your energy bill. There are also a variety of incentives and rebates available to consumers when purchasing new ENERGY STAR® certified appliances. Check with your utility provider or visit: www.energystar.gov for more information.

02 IT'S GREEN

ENERGY STAR® certified appliances use less energy and reduce impact on the environment. When you install ENERGY STAR® certified appliances, you're doing your share to combat climate change.

03 IT HELPS

ENERGY STAR® appliances aren't just good for your pocketbook. According to sources as varied as the Washington Post, the National Resources Defense Council (NRDC) and the U.S. Government, they reduce greenhouse gas emissions, water consumption, and our reliance on dwindling fossil fuel resources and foreign oil.

04 IT SAVES

According to the U.S. Department of Energy, ENERGY STAR® appliances can reduce your home appliance energy usage, and costs, by as much as 10 to 50 percent. While specific savings vary from home to home, the NRDC estimates that energy efficiency standards have already saved American homeowners in the neighborhood of \$200 billion to date, or about \$2,000 per household.

05 IT'S MORE CONVENIENT

ENERGY STAR® appliances are also more convenient. For example, according to information provided by the NRDC and the Washington Post, purchasing an ENERGY STAR® washer and dryer means that you can wash more clothes in a single load, and dry them faster. In other words, you'll do more laundry, in less time, if you shop with ENERGY STAR® labels in mind.

ST. TAMMANY PARISH RECYCLES

ANIMAL ASSISTANCE LEAGUE

2700 Terrace Ave.
Slidell, LA 70458
646-6178

Linens: towels, bathmats, blankets only. No sheets. Pet toys, pet cleaning products.

AT&T

1102 N Hwy 190
Covington, LA 70433
985-875-1993

AT&T

Pinnacle Pkwy.
Covington, LA 70433
985-809-6784

AT&T

796 I-10 Service Rd.
Slidell LA
985-847-9900

AT&T

61103 Airport Rd.
Slidell, LA
985-781-4786

Used cell phones (they will be refurbished and sent to American Soldiers)

BATTERY WORLD

51 Park Place Dr.
Covington, LA 70433
985-809-9300

All types of batteries, large & small, including auto batteries

BEST BUY

69344 Hwy 21
Covington, LA 70433
985-892-2457

BEST BUY

200 Town Center Pkwy.
Slidell, LA 70458
985-639-2239

Computers, monitors, small TVs, cell phones, MP3 players, laptops, tablets, all types of batteries used in electronics, including AA, AAA, C, D, etc.

THE BOOK SACK

1234 Bayou Ln.
Slidell, LA
985-649-6136

All books in good condition

CARTRIDGE WORLD

808 N. Hwy 190
Covington, LA 70433
985-373-6752

Ink & toner cartridges, fuser kits, imaging kits

COMMUNITY CHRISTIAN CONCERN

2515 Carey St.
Slidell, LA 70458
985-646-0357

Clothing, shoes, furniture, household goods, linens, Mardi Gras beads, toys, sporting goods

ELLIS RECYCLING

151 Industrial Dr.
Slidell, LA 70460
985-649-2940

Aluminum, radiators, metals: copper, brass, a/c coils, steel cans. No aerosols or paint cans. Vehicle batteries only.

FLORIDA PARISHES SCRAP INDUSTRIES

11361 Highway 190 W.
Hammond, LA 70401
985-892-2322

Recycling centers, scrap metals

GOLF CART WORLD

843 N. Collins Blvd.
Covington, LA 70433
985-892-2322

Auto batteries, lawn mower batteries

THE GREEN PROJECT

2831 Marais St.
New Orleans, LA 70117
504-945-0240
www.thegreenproject.org
Large and small quantities of latex paint; paint is mixed and resold.

HABITAT FOR HUMANITY (WEST)

1400 North Lane
Mandeville, LA 70471
985-898-0642

HABITAT FOR HUMANITY (EAST)

747 Old Spanish Trail
Slidell, LA 70458
985-649-0067
Appliances in working condition, building materials, furniture and household goods. NO oil based paints or hazardous materials

HOME DEPOT

874 I-10 Service Rd.
Slidell, LA 70561
985-643-6604

HOME DEPOT

143 N. Shore Blvd.
Slidell, LA 7060
985-643-6604
Unbroken fluorescent light bulbs only. Rechargeable batteries only.

LOWES

39184 Natchez Loop
Slidell, LA 70461
985-645-2660

LOWES

1280 North Highway 190
Covington, LA
985-645-3001
Cell phones, Unbroken compact fluorescent light bulbs and rechargeable batteries only. Clean, dry, & empty plastic shopping bags, dry cleaning bags, & newspaper bags.

OFFICE DEPOT

401 N. U.S. Hwy 190
Covington, LA 70433
985-893-4142

OFFICE DEPOT

1847 N. Causeway Blvd.
Mandeville, LA 70471
985-626-7739

OFFICE DEPOT

1583 Gause Blvd.
Slidell, LA 70460
985-781-2505
Cell Phones, Rechargeable batteries only, printer cartridges

P&W INDUSTRIES, LLC

68668 Highway 59
Mandeville, LA 70471
985-892-2461

Recycling centers, Pipe, Scrap Metals

RADIO SHACK

1595 Gause Blvd.
Slidell, LA 70458
985-641-0215

RADIO SHACK

3323 Highway 190
Mandeville, LA 70471
985-626-9314
Electronics trade-in: cell phones, cameras, tablets, laptops.

ROUSES

All Locations
Clean, dry, & empty plastic shopping bags, dry cleaning bags, & newspaper bags.

ST. TAMMANY PARISH

ANIMAL SERVICES

31078 Highway 36
Lacombe, LA 70445
985-809-0183
Newspapers

TARGET

All Locations
Glass, plastic, plastic bags, aluminum cans, MP3 players, cellphones, ink cartridges

VERIZON

1170 N. Hwy 190
Covington, LA 70433
985-893-7039

VERIZON

125 Gause Blvd.
Slidell, LA 70460
985-641-3299

Used cell phone batteries, used cell phones (refurbished and donated to Battered Women & Shelters)

WALMART

880 N. Highway 190
Covington, LA 70433
985-867-8701

WALMART

167 Northshore Blvd.
Slidell, LA 70460
985-690-0123

Plastic bags, auto batteries, marine batteries, auto batteries, motor oil, oil filters

WINN DIXIE

ALL LOCATIONS
Plastic bags only

KEEP MANDEVILLE BEAUTIFUL & PROGRESSIVE WASTE SOLUTIONS DROP OFF LOCATION

Girod & General Pershing Mandeville, LA and Tammany Trace) HWY 22 Rouse's Supermarket Mandeville, LA
Newspapers, clean paper, magazines, clean plastics (#1-7), glass, aluminum, tin & steel cans. Important Note: Should these containers become full, please do not drop off your recyclables on the ground. Take your recyclables back home or travel to the second location. These containers are serviced on Monday, Wednesday & Friday mornings.)



SALVATION ARMY

100 Jefferson Hwy.
New Orleans, LA
504-835-9755

Clothing, household items, toys,
electronics, books, equipment, small
furniture, bikes and left over garage
sale items. **FREE** pick-up available at
your home or business contact www.pickupplease.org to schedule

GOODWILL INDUSTRIES

790 Hwy 190
Covington, LA 70433
985-892-3937

GOODWILL INDUSTRIES

4940 Hwy. 22
Mandeville, LA 70471
985-845-1465

GOODWILL INDUSTRIES

184 Gause Blvd.
Slidell, LA 70460
985-649-2909
All clothes, Shoes and garments,
household furniture, kitchen wares
and consumer items, toys, games and
computer related software

WASTE MANAGEMENT

843 N. Collins Blvd.
Covington, LA 70433
985-905-8898
Recycling Centers, Garbage
collection

**LOUISIANA TEEN
CHALLENGE**

(DROP BOX LOCATIONS)
New and used clothes and shoes.
Home Pick-up available for
household items (except
mattresses) call for scheduling.

VALERO

2060 Old Spanish Trail
Slidell, LA

CHARLOTTE'S WEB

1700 Old Spanish Trail
Slidell, LA

SKATER'S PARADISE

1421 Gause Blvd. W.
Slidell, LA

QUICK EZ

500 Brownswitch
Slidell, LA

GOODBEE QUICK STOP

13029 Hwy. 190
Covington, LA

SUPER BEE AUTO SPA

627 Boston St.
Covington, LA

WHEREHOUSE GRILL

1105 N. Collins Blvd.
Covington, LA

CHARLIE MAESTRI'S

1037 W. R.R. Blvd.
Covington, LA

DAWSEY HARDWARE

78481 Hwy. 437
Covington, LA

NORTHLAKE ASSEMBLY

958 N. Lee Rd.
Covington, LA

CITGO GAS

20150 Hwy 36
Covington, LA

ENVIRONMENTAL PROVIDERS

20393 Hwy 36
Covington, LA

FRABBIELI'S

22697 Hwy. 435
Abita Springs, LA

AUTO SALVAGE

69459 Hwy. 59
Mandeville, LA

PRO CLEANERS

2185 Hwy. 59
Mandeville, LA

LOCK ONE

71013 Hwy 41
Pearl River, LA

HAPPY JACK'S

39422 Hwy 41-Spur
Pearl River, LA

FRIENDLY FRED'S

66182 Hwy 41
Pearl River, LA

EVAN'S PHARMACY

64288 Hwy 41
Pearl River, LA

JUBILEE FOODS

61461 Hwy 1090
Pearl River, LA

RIVER LIFE FELLOWSHIP

63433 Hwy 11
Pearl River, LA



ST. TAMMANY PARISH GOVERNMENT
DEPARTMENT OF ENVIRONMENTAL
SERVICES
21490 KOOP DRIVE
MANDEVILLE, LA 70471
(985)898-5243





St. Tammany Parish

2018 MS4 Annual Report

C.2 Public Involvement & Participation



C.2 Public Involvement & Participation

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, ongoing, in progress, not started)
Public Involvement & Participation	Volunteer Litter Abatement Program	Adopt-a-Road, Community Service, & Keep St Tammany Beautiful clean litter from roadways, shoulders, & ditches.	X	2018-2023	Ongoing/ In cooperation with Keep St Tammany Beautiful program with litter abatement & Adopt-a-Road program utilizing Community Service volunteers.
Public Involvement & Participation	Individual Sewer Inspection Program	Homeowners provide sewer pump-outs, repairs, or replacements to obtain permit and electricity.		2018-2023	Ongoing/ Performed by STP Department of Environmental Services.
Public Involvement & Participation	SW Pond planting projects & Adopt-a-Pond Program	Volunteers plant native vegetation in stormwater ponds to increase pollutant removal efficiencies (and provide urban habitat).	X	2018-2023	Ongoing/ Student & other citizen volunteers plant & monitor WQ in parish SW ponds in targeted watersheds.
Public Involvement & Participation	SW Ponds Retrofits with SW BMPs	Developers will use removal efficiencies from SW retrofitted ponds to aid in BMP selection.	X	2018-2023	Ongoing/ Dry ponds are vegetated wet pods are aerated to assess effluent qualities & and removal efficiencies (%RE). WQ sampling & DO profiles at outfall during summer-critical conditions will continue to be monitored for WQ improvement. Effluent qualities & % reduction are utilized in Water Quality Modeling Program to determine impacts of proposed developments.

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, ongoing, in progress, not started)
Public Involvement & Participation	SW Pond Prioritization for WQ Improvement and BMP retrofit projects	Utilizing recommendations from SW Pond Demonstration projects, Parish SW ponds are prioritized for BMP retrofits/installation	X	2018-2023	Ongoing/ Retrofit/install BMPs in Parish maintained SW. Summer-critical outfall WQ sampling continued for Parish-maintained wet-ponds. Funding continues to be provided for the retrofit/sampling program.
Public Involvement & Participation	Camp Salmen Nature Park, Tammany Trace, Fishing Pier, etc.	Citizens participate in activities at parks and other recreational sites & to protect the beauty of STP's natural habitats & waterways	X	2018-2023	Ongoing and new programs at STP parks & recreation sites provide opportunities to involve citizens to be good stewards of natural habitats & waterways.
Public Involvement & Participation	Student volunteers	Middle school & high school students perform plantings & WQ monitoring on parish ponds.		2018-2023	Ongoing/ Students becoming involved and participate in the community regarding beneficial use of vegetative plantings & water quality monitoring on local ponds.
Public Involvement & Participation	Household Hazardous Waste Days	Citizens volunteer to work the event and participate in proper disposal of Household Hazardous Waste.	X	2018-2023	Annually or biannually/ Events to be held as needed.
Public Involvement & Participation	Citizens reports & complaints	Reports/complaints are investigated & corrective action taken as needed		2018-2023	Ongoing/Citizen involvement is key to augmenting STP staff limitations & improving water quality in the Parish.
Public Involvement & Participation	Water Quality Volunteers from Area Schools	Planning new school program to involve students in water quality & stormwater BMPs	X	2018-2023	Ongoing/The program was implemented in 2016 with a pond planting project & water quality monitoring at Camp Salmen. Summer camps continue.
Public Involvement & Participation	SW Ordinance Revisions	Public comment & stakeholder participation in revisions of the stormwater ordinance.	X	2018-2023	As needed/ Current SW Ordinance was adopted in 2016, after vetting by developers and local stakeholders (See Appendix E.2 for a copy of the SW Ordinance).

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, ongoing, in progress, not started)
Public Involvement & Participation	Pollution Source Tracking Program	Targeted watersheds provide grant funds to facilitate homeowners in the pump-out, repair, or replacement of failing sewer system. Performed by Environmental Services and Planning & Development.	X	2018-2023	Ongoing/ Home inspections in the Bayou Liberty watershed with repair/replace companion grant for low-to-moderate income residents. Bayou Liberty. Additional targeted watersheds include Ponchitolawa Creek and the Abita River.
Public Involvement & Participation	Decentralized Management Program	In-house inspection program for residential individual sewer treatment systems educates homeowners of proper operation and maintenance of their systems. Program requires timely homeowner maintenance and/or replacement of units.	X	2018-2023	Ongoing/ Parish in-house program launched in 2017 utilizing results from the Pollution Source Tracking projects. In general, the program is well received by homeowners and percent compliance is close to 100%. Watersheds inspected include Bayou Castine, Bayou Chinchuba, the Lower Tchefuncte River, etc.
Public Involvement & Participation	Water Quality Impact Modeling (WQIM) on new & redevelopments, particularly Scenic Rivers & TMDL and/or WLA waterways	Based on the modeling, developers select additional BMPs to protect WQ and/or meet WLA limits.	X	2018-2023	Continuing/ In-house program that was first implemented in 2016. WQIM is utilized to answer public questions about WQ impacts from new developments and for future planning. Ordinance includes antidegradation policy for all parish waterways.
Public Involvement & Participation	WQ Protection Area signs	Signs were placed near WQ sites of interest (monitoring sites, ponds, projects)	X	2018-2023	Ongoing/ Sign designs completed. Budget for signs approved. Signage continues to be installed in Water Quality Protection Areas (targeted watersheds).

SAVE THE DATE

2018 Household Hazardous Waste Collection Day

November 17, 2018
8 AM - 12 PM

FRITCHIE PARK
905 W. HOWZE BEACH RD.
SLIDELL, LA



www.keepsttammanybeautiful.org





Volunteers Plant Tree Saplings in Retention Pond to Improve Water Quality





St. Tammany Parish

2018 MS4 Annual Report

C.3 Illicit Discharge Detection & Elimination



C.3 Illicit Discharge Detection & Elimination

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Illicit Discharge Detection & Elimination	Inspections of non-exclusive franchise sewer treatment plants	Quarterly inspections are performed such that each facility is inspected annually.		2018-2023	Ongoing inspection program performed by the STP Department of Environmental Service to detect sanitary sewer failures, bypasses, overflows.
Illicit Discharge Detection & Elimination	Individual sewer systems inspected for new electrical service or transfer.	Failed sewer systems are required to pump-out, repair, or replace with a new system.		2018-2023	Ongoing inspection program performed by the STP Department of Environmental Services to identify & eliminate illicit discharges from failed sewer systems
Illicit Discharge Detection & Elimination	Pollution Source Tracking Program to inspect and upgrade individual sewer systems	Grant funds facilitate homeowners in the pump-out, repair, or replacement of failing sewer systems.	X	2018-2023	Ongoing/Inspections of individual sewer systems in targeted watersheds are performed coincident with repair/replace grants for approved low-to-moderate income homeowners. The program was to include an additional 3000 inspections. Additional targeted watersheds include the Tchefuncte River, Ponchitolawa Creek and the Abita River.
Illicit Discharge Detection & Elimination	Decentralized Management Program (DMP) to inspect and upgrade individual sewer systems	STP Department of Environmental Services (DES) has utilized the methods & lessons from the Pollution Source Tracking grant-funded projects to develop an in-house DMP program.	X	2018-2023	Ongoing/DES inspectors conduct about 400 inspections/month on homeowner on-site treatment systems. An inventory of unsewered subdivisions was developed and the inspection schedule for targeted watersheds/subdivisions has been developed. Public Service Announcements and website announcements were issued, prior to implementation.
Illicit Discharge Detection & Elimination	Enforce Ordinance	Enforcement of the prohibition of illicit discharges will facilitate detection & elimination.		2018-2023	Ongoing/Escalated enforcement includes voluntary compliance, Notice of Violations, Cease & Desist orders, Administrative Hearings, & fines/fees/court costs.
Illicit Discharge Detection & Elimination	Pamphlets, fliers, & brochures	Educate homeowners regarding the proper O&M of individual sewer systems.		2018-2023	Ongoing program to educate the general public regarding the maintenance of individual sewer systems to reduce the failures of systems due to poor operation & maintenance.

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Illicit Discharge Detection & Elimination	Connection to community sewer required	New home construction within 300' of sewer treatment plant is required to tie-in.		2018-2023	Ongoing program regulated by ordinance limits the number of new individual sewer systems in the Parish.
Illicit Discharge Detection & Elimination	New subdivisions required to provide community sewer	Required to tie-in to existing plant or install community sewer.		2018-2023	Ongoing program regulated by ordinance limits the number of new individual sewer systems in the Parish.
Illicit Discharge Detection & Elimination	WQ Monitoring and Pollution Source Tracking	Monitoring results will quantify, track & reduce pollutant loads.		2018-2023	Ongoing/Monitoring program to provide information that may reduce or eliminate pollutant of concern in targeted watersheds. WQ Monitoring and Pollution Source Tracking datasets are used to target watersheds for planning of future projects to improve WQ.
Illicit Discharge Detection & Elimination	Water Quality Impact Modeling (WQIM) on new & redevelopments, particularly Scenic Rivers & TMDL and/or WLA waterways	Based on the modeling, STP can predict WQ improvements from implementing BMPs, projects and programs.	X	2018-2023	Ongoing/ Water Quality Impact Modeling (WQIM) provides model projections of WQ improvement through BMP/WQ Projects & programs. WQIM implemented for new & redevelopments to maintain compliance with antidegradation policy and DO standards as required by TMDLs & WLAs.

ST. TAMMANY PARISH GOVERNMENT
LITTER ABATEMENT



Elizabeth D. Smythe

From: St. Tammany Parish Government - Parish News <noreply@stpgov.org>
Sent: Wednesday, December 12, 2018 4:15 PM
To: Elizabeth D. Smythe
Subject: St. Tammany Parish Government will Accept Christmas Trees for Recycling



Parish News

St. Tammany Parish Government will Accept Christmas Trees for Recycling
Wednesday, December 12, 2018

St. Tammany Parish Government will begin accepting Christmas trees to recycle for use in a cooperative effort with the U.S. Fish and Wildlife Service to rebuild the Big Branch Marsh. Trees can be brought to the St. Tammany Parish Fairgrounds at 1515 North Florida Street in Covington and The Old Levee Board Property at 61134 Military Road in Slidell, during daylight hours. Trees must be stripped of all decorations —ornaments, lights, tinsel, etc. and the stands must be removed completely to be eligible for the program. Flocked trees cannot be accepted at the drop-off sites as they cannot be used for the project.

###

To learn more about where your tax dollars are invested, visit www.stpgov.org/initiatives. Stay up-to-date on what's happening in Parish Government when you sign up for email updates at www.stpgov.org. Follow us on social media on [Facebook](#) and [Twitter](#).

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Our mailing address is:

21490 Koop Drive, Mandeville, LA 70471

Want to change how you receive these emails?

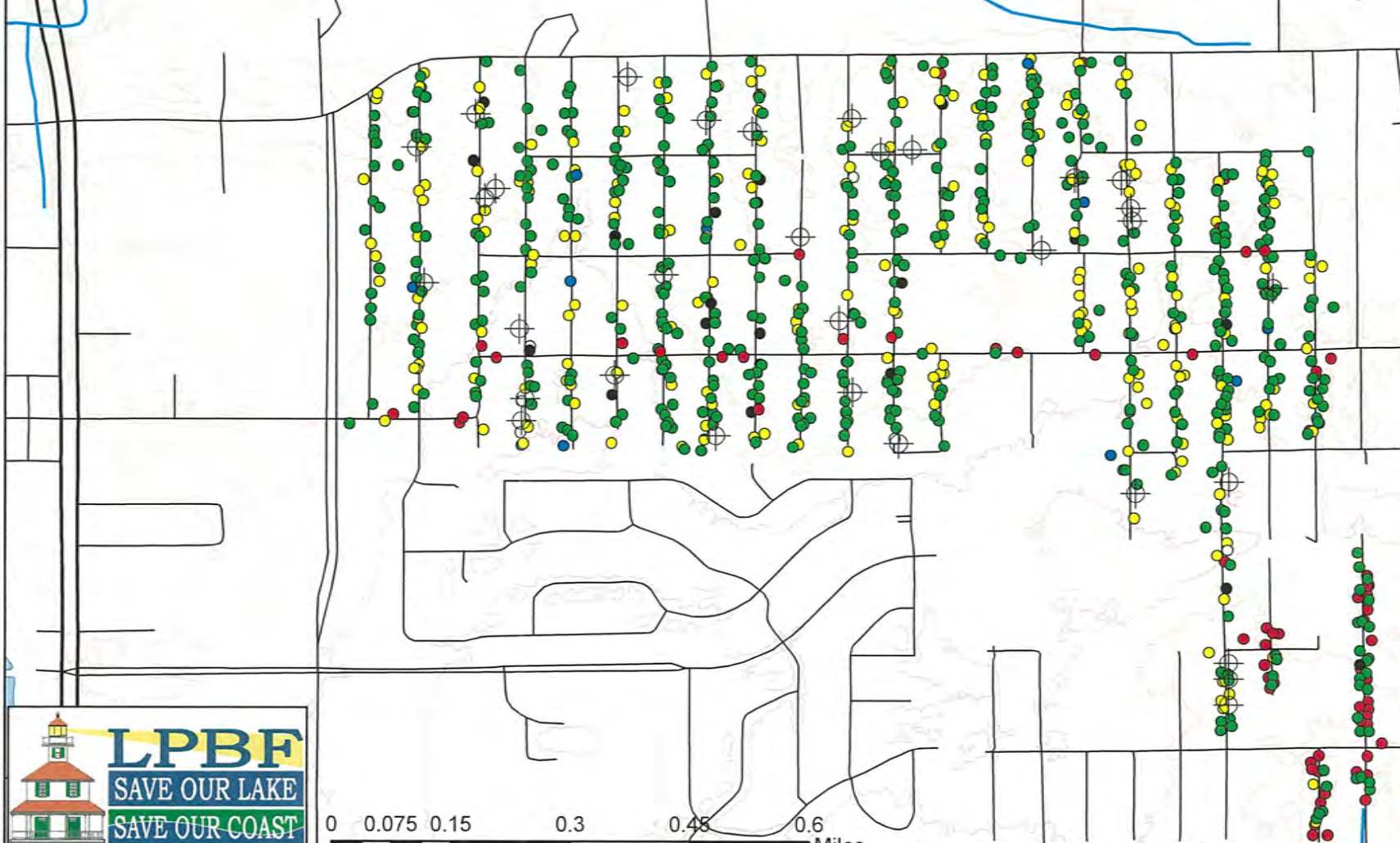
You can [update your preferences](#) or [unsubscribe from this list](#)

Tammany Hills Inspections

Date: 2/6/2019

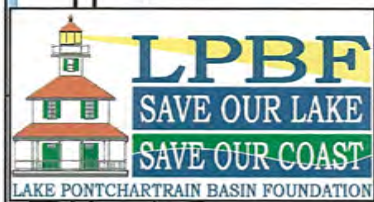


Abita River



Legend

- SEPTIC (32)
- CDBG (10)
- FAIL (71)
- NA (6)
- PASS (478)
- REPAIR (237)
- VACANT (20)
- Streams



0 0.075 0.15 0.3 0.45 0.6 Miles

Service Layer Credits: U.S. Census Bureau - TIGER/Line, National Hydrography Dataset, National Elevation Dataset, LPBF



Abita Home Sewer Inspection Program January 1 to December 31

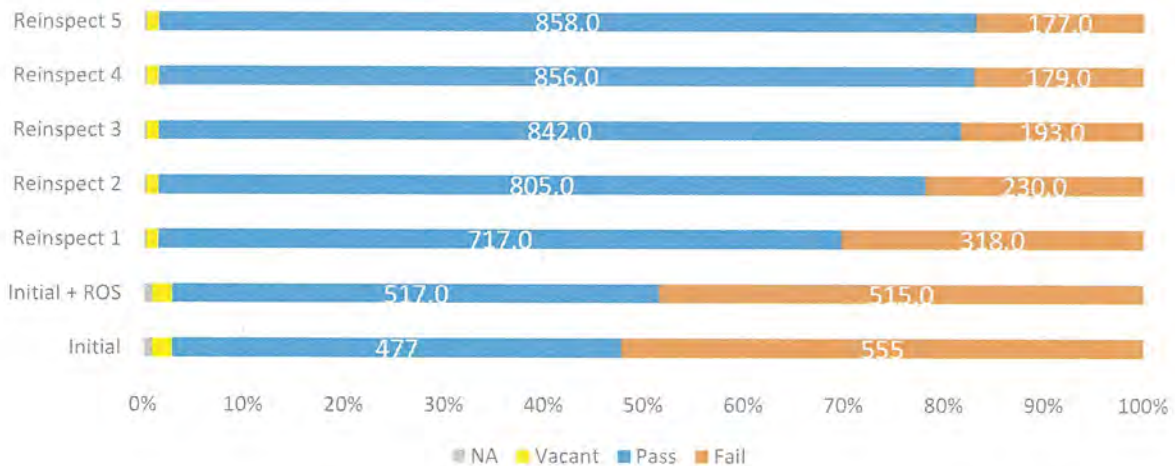
Inspections

From January 1st to December 31st there were 1070 total inspections performed under the program. Of those inspections, 574 were re-inspections and 496 initial inspections. Of the initial inspections 249 passed and 247 failed for an initial failure rate of 50%.

In Situ Data

Site	Date	Temp. (C)	D.O. (mg/L)	Cond. (ms)	pH	Turb. (NTU)	Sal. (ppt)	% DO
AB 1	10/29/2018	18.7	4.9	0.0844	6.83	17.9	0.047	52.52
AB 2	10/29/2018	20.6	4.2	0.0166	7.93	6.14	0.009	46.75
AB 3	10/29/2018	18.9	4.6	0.2731	7.73	16.8	0.152	49.53
AB 4	10/29/2018	20.1	2.9	0.317	7.59	11.4	0.177	31.99
AB 5	10/29/2018	18.3	7.8	0.047	7.35	12.6	0.026	82.91
AB 1	11/19/2018	11.3	9.8	0.0623	6.99	18.7	0.035	89.51
AB 2	11/19/2018	13.9	5.5	0.4123	7.21	6.85	0.230	53.33
AB 3	11/19/2018	12.2	6.9	0.282	7.04	13.6	0.157	64.38
AB 4	11/19/2018	15.6	4.5	0.514	7.64	31.9	0.287	45.28
AB 5	11/19/2018	11.5	10.6	0.0347	7.06	11.3	0.019	97.25
AB 1	12/17/2018	11.8	8.4	0.0499	7.05	20.3	0.028	77.60
AB 2	12/17/2018	13.4	4.9	0.3897	7.11	5.45	0.217	46.98
AB 3	12/17/2018	11.1	8.6	0.2132	7.18	18.1	0.119	78.23
AB 4	12/17/2018	13.7	5.2	0.4107	7.88	25.6	0.229	50.20
AB 5	12/17/2018	11.4	9.6	0.0249	7	12.2	0.014	87.87

Abita Reinspection Pass/Fail: 02/06/2018



Environmental Services 2018

Monthly Report	Jan-18	Feb-18	Mar-18	1st Qtr. Totals	Apr-18	May-18	Jun-18	2nd Qtr. Totals	Jul-18	Aug-18	Sep-18	3rd Qtr. Totals	Oct-18	Nov-18	Dec-18	4th Qtr. Totals	2018 Annual Totals
Well Permits Issued	14	22	33	69	30	30	25	85	39	42	21	102	36	15	19	70	326
Well Permits Approved	23	11	20	54	27	11	23	61	18	22	15	55	35	30	20	85	255
D.E.S. Inspections (Field Insp)	1	3	0	4	3	7	1	11	4	0	1	5	1	1		2	22
S.I.P. Issued	150	148	171	469	190	212	215	617	222	210	159	591	189	110	114	413	2090
New Systems Installed	11	8	7	26	11	15	24	50	20	20	13	53	12	14	11	37	166
Tchefuncte Watershed Inspections (Three Rivers Heights)															108	108	108
Tchefuncte Watershed Inspections (Shady Lake)				0				0			62	62	60	26	37	123	185
Tchefuncte Watershed Inspections (Evergreen Acres)													14	33	14	61	61
Abita River Watershed Inspections (Tammany Hills)	142	138	46	326	59	34	39	132	19	32	0	51	1	0	47	48	557
Bayou Castine Watershed Inspections (Hidden Pines)	0	0	0	0	1	0	0	1	0	0	0	0	0	0		0	1
Bayou Castine Watershed Inspections (Town of Mandeville)	24	3	111	138	169	102	66	337	0	1	0	1	0	0		0	476
Bayou Castine Watershed Inspections (Mandeville Annex)	107	98	0	205	0	0	10	10	0	0		0					215
Bayou Chinchuba Watershed Inspections (Deval Estates)							44	44	35	0	0	35	0	0			79
Bayou Chinchuba Watershed Inspections (Heritage Heights)									32	119	0	151	0	0		0	151
Franchise Water/Sewer Insp.				25				0				13				0	38
Sewer Customers Added to TU Systems	*	*	*		*	*	*		*	*	*		*	*	*		317
Bags Of Litter Collected	753	882	1130	2765	1267	1396	881	3544	1211	922	904	3037	751	729	887	2367	11713
Miles of Road Covered	54.3	40.95	79.35	174.6	102.1	95	47.8	244.9	66.5	41.6	51.7	159.8	39.8	44.6	58.9	143.3	722.6
Number of Tires Collected	31	44	35	110	95	57	31	183	13	26	9	48	14	49	30	93	434
Number of Inmates/Volunteers	69	67	101	237	124	137	106	367	123	128	83	334	138	124	118	380	1318
Total Pounds of Garbage Collected				*				*				*				*	200805



St. Tammany Parish 2018 MS4 Annual Report C.4 Construction Site Stormwater Controls



C.4 Construction Site Stormwater Controls

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Construction Site Stormwater Controls	SW inspections performed on construction sites	Qualified staff to perform inspections on construction sites	X	2018-2023	As Needed/In-house training to qualify inspectors. Drainage-Stormwater & Code Enforcement inspectors will continue to be trained to inspect construction sites for SW requirements.
Construction Site Stormwater Controls	SW training for developers and stakeholders	Informed developers & stakeholders to correctly install & maintain SW BMPs.	X	2018-2023	As needed for contractors & developers to use new training materials purchased for in-house SW training for STP staff.
Construction Site Stormwater Controls	Funding programs	Review SWPPP for compliance during Drainage-SW inspections.	X	2018-2023	Ongoing inspection program will improve after in-house training as inspectors will be qualified to review the SWPPP and use it as a resource during SW inspections.
Construction Site Stormwater Controls	Stormwater Plan review for all new construction	Review Stormwater Site Plan for compliance prior to issuance of permit.	X	2018-2023	SW Ordinance requires SW Agreement, SW Guide, & SW Site Plan for all new construction permits, regardless of size or location in the parish.
Construction Site Stormwater Controls	Fill restrictions in Critical Drainage Areas	Fill controls reduce potential for erosion and prevent silting.		2018-2023	Ongoing with no net fill restrictions in Critical Drainage Areas monitored during permit review and inspections.
Construction Site Stormwater Controls	Water Quality Impact Modeling (WQIM) on new & redevelopments, particularly Scenic Rivers & TMDL and/or WLA waterways	Based on the modeling, developers select additional BMPs to protect WQ and/or meet WLA limits.	X	2018-2023	Ongoing/ Water Quality Impact Modeling (WQIM) provides model projections of WQ improvement through BMP/WQ Projects & programs. WQIM implemented for new & redevelopments to maintain compliance with antidegradation policy and DO standards as required by TMDLs & WLAs.

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Construction Site Stormwater Controls	Stormwater Agreements	SW Agreements are signed by permit applicants stating that they have been instructed about SW BMPs and will implement and maintain them throughout their project.	X	2018-2023	Ongoing/ SW Agreements are completed and signed by permit applicants and reviewed/approved by the Watershed staff.
Construction Site Stormwater Controls	Water Quality Certification (WQC) Letters	WQC letters are requested by various agencies prior to their release of agency permits.	X	2018-2023	Ongoing/Program in which the Watershed Coordinator provides the requested WQC letters based upon State and STP-specific requirements. WQIM modeling is also utilized for additional WQC documentation.
Construction Site Stormwater Controls	Stormwater website	SW information for contractors, including SWPPP guidance, & LDEQ Permits link.	X	2018-2023	Ongoing/The website will be updated and improved as needed. The SW website also provides links to water quality, watershed, environmental services, & Keep St. Tammany Beautiful pages.
Construction Site Stormwater Controls	Stormwater Site Plan	SW site plan for all new construction, regardless of lot size project location.	X	2018-2023	SW Site Plans are reviewed with each permit application for new construction projects.



ST. TAMMANY PARISH
PATRICIA P. BRISTER
PARISH PRESIDENT

GUIDE TO STORMWATER REQUIREMENTS FOR NEW CONSTRUCTION¹

Small Construction Sites that are less than 1 acre and are not of part of a common plan of development

- [No LPDES General Stormwater Permit required](#)
- St. Tammany Parish Stormwater Agreement and Stormwater Site Plan required

Small Construction Sites that are at least 1 acre to less than 5 acres and are not a part of a larger common plan of development):

- [LPDES Stormwater General Permit LAR200000 required](#)
- Make SWPPP available on site for scheduled Parish drainage/stormwater inspections
- Post notice at construction site noting location of SWPPP, contact name, telephone, LDEQ Permit number, and a brief description of the project
- St. Tammany Parish Stormwater Agreement and Stormwater Site Plan required

Small Construction Sites that are part of a common plan of development:

- [LPDES Stormwater General Permit LAR100000 or LAR200000 required²](#)
- Make SWPPP available on site for scheduled Parish drainage/stormwater inspections
- Post notice at construction site noting location of SWPPP, contact name, telephone, LDEQ Permit number, and a brief description of the project
- St. Tammany Parish Stormwater Agreement and Stormwater Site Plan required

Large Construction Sites (5 Acres or More):

- [LPDES Stormwater General Permit LAR100000 Required](#)
- Make SWPPP available on site for scheduled Parish drainage/stormwater inspections
- Post notice at construction site noting location of SWPPP, contact name, telephone number, LDEQ permit, Agency Interest Number, and a brief description of project
- St. Tammany Parish Stormwater Agreement and Stormwater Site Plan required

For more information:

- St. Tammany Parish Stormwater Website: www.stpgov.org/stormwater-information
- St. Tammany Parish Department of Development/Engineering
 - Phone: 985-809-7448
 - E-mail: stormwater@stpgov.org
- LDEQ Website: www.deq.louisiana.gov

¹ This is for guidance purposes only. It is the responsibility of the owner/contractor to comply with all state, federal, & local stormwater requirements.

² LPDES permit type is based on the total amount of disturbed area within the common plan of development. See LPDES General Permits and/or LDEQ website for additional guidance regarding definitions of large construction sites, small construction sites, and common plan of development.



ST. TAMMANY PARISH

PATRICIA P. BRISTER
PARISH PRESIDENT

St. Tammany Parish Stormwater Agreement

Contractor: _____ Business Name: _____

Email: _____ Phone: _____

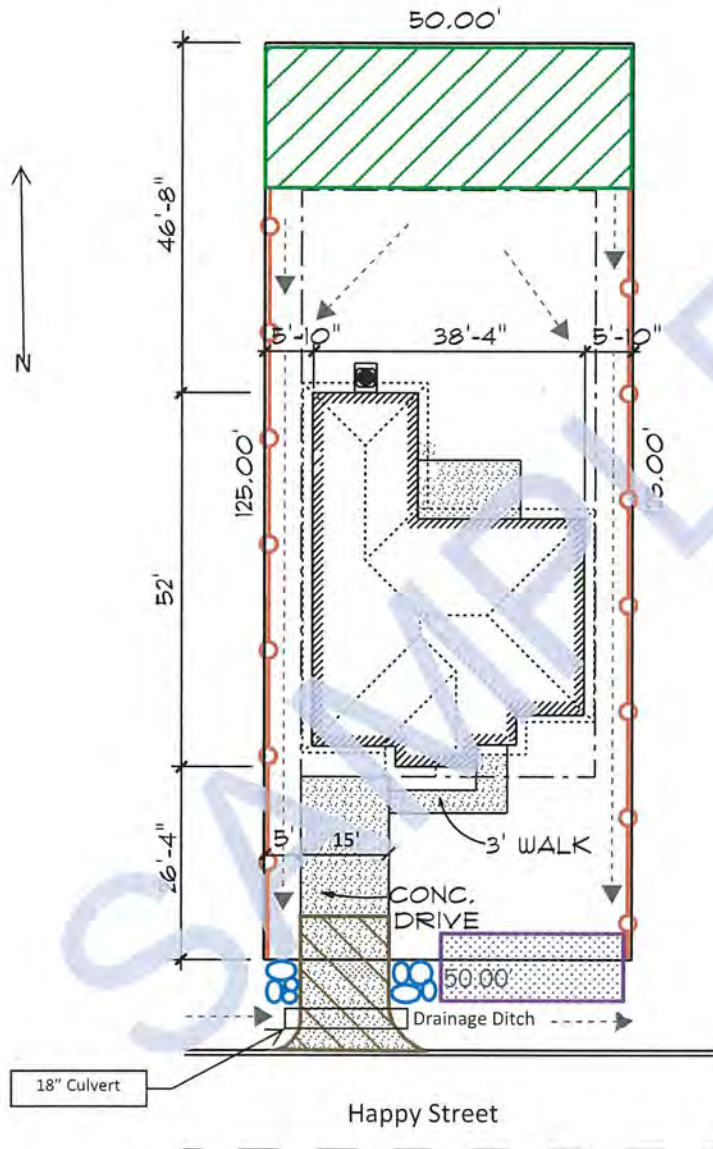
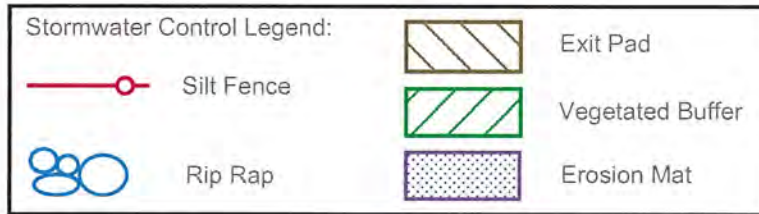
- I will maintain compliance with the St. Tammany Parish Stormwater Ordinance, Chapter 7, Section 7-042.00 on all new construction projects in St. Tammany Parish.¹
- I will allow reasonable access on my project site for both scheduled and unscheduled St. Tammany Parish stormwater and/or drainage inspections.
- I will employ adequate stormwater Best Management Practices (BMPs) on my new construction projects to control erosion, contain sediment on site, and prevent construction pollutants from entering stormwater conveyances and waterways.
- I will perform regular inspections and maintenance on stormwater BMPs to prevent adverse stormwater impacts related to my project.
- When applicable to my project, I will maintain compliance with either the LPDES General Permit for Discharges of Stormwater from Construction Activities Five Acres or More, for large construction activities, as defined by LDEQ in Master General Permit LAR100000 or the LPDES Stormwater General Permit for Small Construction Activities, one to less than five acres, as defined by LDEQ in Master General Permit LAR200000.²
- I will make the Stormwater Pollution Prevention Plan (SWPPP) available on site for scheduled Parish stormwater and/or drainage inspections, if the project is a small or large construction site, as defined by LDEQ in the permits identified above.
- I have read the Guide to Stormwater Requirements for New Construction provided on the reverse side of the St. Tammany Parish Stormwater Agreement and initialed the Guide in the area indicated.

Signature


Date

¹ Please refer to St. Tammany Parish Ordinance Chapter 7, Section 7-042.00 for an explanation regarding the relationship between state and parish stormwater requirements.

² LPDES Master General Permits for Stormwater Discharges from Construction Activities (Large and Small) are available on the LDEQ website; the LDEQ website address is provided on the reverse side of this document.



PLOT PLAN/STORMWATER SITE PLAN

	Home Design by:	PLANS FOR:				SHEET 1 of 1			
	Home Sweet Home Design Service, LLC www.homesweethomedesign.com 985-555-1234	Imagination Builders 1234 EZ Street/Covington, LA 70435 Lot 14, Happy Life Subdivision, Phase 1 ST. TAMMANY PARISH, LA				Scale: 1" = 20' 10/10/2016			
NOTES:	1. This property is not located in the floodplain. 2. All drainage to roadside ditch. 3. Ultimate discharge to Lake Pontchartrain via Cane Bayou.					CODE	LIV AREA	AREA U.B.	INDEX
						A3	- 1422	- 1456	- 6097



ST. TAMMANY PARISH
PATRICIA P. BRISTER
PARISH PRESIDENT

Stormwater Site Plan Checklist

Owner Name: _____ Date: _____

Construction Co: _____ Permit: _____

Site Address: _____ Phone: _____

E-Mail: _____ Cell Phone: _____

**Please fill in Checklist & Stormwater Site Plan for submission with permit application.*

1. _____ Show North arrow
2. _____ Label property/lot dimensions
3. _____ Show proposed structures/development with distances from lot lines (including driveways).
4. _____ Show all natural and manmade drainages such as drainage ditches, canals, bodies of water, and swales, with distances from building/grading pad sites.
5. _____ Indicate drainage flow across property
6. _____ Show all storm drains, yard drains, culverts, catch basins, etc.
7. _____ Show all dirt stockpiles, material storage areas, portable toilets, and trash containers..
8. _____ Define limitation of grading area and/or grassy buffers (see questions below)
 - a. Is entire lot to be graded and/or filled? _____ YES or _____ NO
 - b. Will any grassy buffer remain around perimeter of graded/filled area? _____ YES or _____ NO
If yes, please indicate location and size on plan.
9. _____ Show all proposed erosion and sediment protection measures or Best Management Practices (BMPs) utilized to protect drainage infrastructure, roadways, and neighboring properties from sedimentation, erosion, construction debris, or construction related pollutants.
10. _____ A stabilized construction entrance/exit is required on all sites to prevent sediment tracking onto roadway.

NOTE: See attached sample stormwater site plan for guidance in creating a stormwater site plan specific to your site.



St. Tammany

Stormwater/Drainage Inspections

2018 Stormwater Failures

Inspection Type	Work Order	Permit Number	Date & Time	Inspector Name	Comments
Preliminary Stormwater & Drainage Inspection	11222377	2018-42920	12/28/2018 8:59:00 AM	Jim O'Berry	Need silt barrier. Remove sand from street.
	11217008	2018-42951	12/21/2018 1:23:00 PM	Jim O'Berry	Need sand on driveway. Right swale holding lots of water.
	11210511	2018-42675	12/20/2018 2:14:00 PM	Jim O'Berry	Need silt barrier.
	11212691	2018-42902	12/20/2018 11:24:00 AM	Jim O'Berry	No silt barrier installed. Need sand all the way to street.
	11204976	2018-42160	12/18/2018 11:17:00 AM	Jim O'Berry	Need silt barrier. The silt barrier that is there is not adequate
	11201843	2018-42546	12/17/2018 1:22:00 PM	Jim O'Berry	Sand blocking culvert. Remove sand protect ditch.
	11202233	2018-42160	12/17/2018 10:54:00 AM	Jim O'Berry	Clean street. Install correct silt barrier
	11194877	2018-42160	12/13/2018 1:22:00 PM	Jim O'Berry	Clean all streets and protect catch basins. Suitable staked
	11193446	2018-42427	12/12/2018 2:22:00 PM	Jim O'Berry	Need sand/rock on exit pad. Protect ditch w/ silt barrier.
	11193451	2018-42428	12/12/2018 2:17:00 PM	Jim O'Berry	Need sand/rock on exit pad. Protect ditch w/ silt barrier.
	11189350	2018-42096	12/11/2018 1:29:00 PM	Jim O'Berry	Must install swale on both sides of lot to kee water from going
	11186171	2018-42160	12/10/2018 10:34:00 AM	Jim O'Berry	Need silt barrier across front. Clean all roads in area.
	11186068	2018-42507	12/10/2018 9:03:00 AM	Jim O'Berry	Tuck in silt barrier. Remove trash and debris.
	11184772	2018-42884	12/7/2018 8:50:00 AM	Jared Hingle	Must clean street. Sand/rock required on exit pad.
	11182485	2018-42136	12/6/2018 10:48:00 AM	Jim O'Berry	Need sand/rock on exit pad. No silt fence. Clean street.
	11170992	2018-42170	12/3/2018 10:14:00 AM	Jared Hingle	Must clean street.
	11146367	2018-42143	11/20/2018 9:03:00 AM	Jared Hingle	Must clean street.
	11142765	2018-40361	11/16/2018 10:17:00 AM	Danny Martin	Need sand/rock on exit pad.
	11140593	2018-41966	11/15/2018 10:52:00 AM	Jim O'Berry	Replace silt barrier. Clean out ditch.
	11131159	2018-39924	11/13/2018 12:50:00 PM	Jim O'Berry	Need sand or gravel on driveway.
	11000720	2018-41002	11/7/2018 10:02:00 AM	Jim O'Berry	Tuck in silt barrier. Need exit pad. Clean street.
	10996551	2018-42058	11/5/2018 1:10:00 PM	Jared Hingle	Sand or rock required on exit pad.
	10979824	2018-41989	10/26/2018 12:56:00 PM	Glenn Delatte	Silt fence not installed properly along wood fence.
	10965200	2018-42040	10/22/2018 3:54:00 PM	Jared Hingle	sand must be removed from street.
	10968195	2018-42031	10/22/2018 9:45:00 AM	Jim O'Berry	No culvert. No silt barrier.
	10959341	2018-42054	10/17/2018 12:35:00 PM	Jim O'Berry	Need swale on left to keep SW off adjacent lot.
	10939806	2018-41322	10/9/2018 1:56:00 PM	Jim O'Berry	Need sand or gravel on driveway. Clean street.
	10856432	2018-40387	9/12/2018 1:04:00 PM	Jared Hingle	Rd dirty. Sand/rock required on exit pad. Need silt fence.
	10810003	2018-40542	8/23/2018 1:36:00 PM	Jim O'Berry	Sand or gravel required on exit pad.

Inspection Type	Work Order	Permit Number	Date & Time	Inspector Name	Comments
	10790658	2018-38720	8/15/2018 2:08:00 PM	Danny Martin	Mud in street. Need sand/rock on exit pad.
	10788222	2018-39952	8/14/2018 1:07:00 PM	Jim O'Berry	Need swale on left to keep SW off adjacent lots.
	10782585	2018-40727	8/10/2018 12:26:00 PM	Jared Hingle	Need BMP at ditch/driveway. Need sand/rock on exit pad.
	10759557	2018-40955	8/2/2018 12:45:00 PM	Jim O'Berry	Must clean silt off driveway.
	10753473	2018-40518	7/31/2018 11:54:00 AM	Jared Hingle	Silt fence required. Need sand/ rock on driveway.
	10754283	2018-40472	7/31/2018 8:42:00 AM	Jared Hingle	Sand/rock required on exit pad. Remove debris.
	10740718	2018-40688	7/25/2018 9:47:00 AM	Jim O'Berry	Clean street and replace silt barrier around culvert.
	10714928	2017-36070	7/17/2018 11:37:00 AM	Glenn Delatte	Need to reinstall silt fence properly.
	10667801	2018-39723	6/22/2018 11:02:00 AM	Jared Hingle	Need sand/rock on exit pad.
	10667796	2018-39950	6/22/2018 11:00:00 AM	Jared Hingle	Need sand/rock on exit pad. Need swales installed.
	10667778	2018-40019	6/22/2018 10:57:00 AM	Jared Hingle	Culvert not set. No silt fence installed. Need right swale. Need
	10634288	2018-39400	6/7/2018 1:27:00 PM	Jim O'Berry	Silt barrier turned around backwards and not tucked into soil.
	10625701	2018-38674	6/5/2018 10:51:00 AM	Jim O'Berry	Clean road. Silt barrier failing.
	10625694	2018-38673	6/5/2018 10:48:00 AM	Jim O'Berry	Dirt in road. Silt barrier failing.
	10616131	2018-39569	6/1/2018 9:15:00 AM	Jim O'Berry	No culvert no silt barrier in front or rear. Left side swale
	10566297	2018-38893	5/9/2018 11:45:00 AM	Jared Hingle	Silt fence required around culvert.
	10548519	2018-37804	5/1/2018 9:20:00 AM	Jared Hingle	Swales must be installed according to drainage plan.
	10549433	2018-38785	5/1/2018 8:36:00 AM	Jared Hingle	Swales must be installed.
	10534200	2018-38048	4/24/2018 8:37:00 AM	Jim O'Berry	Both swales should be roughed in and drain to front.
	10525220	2018-38622	4/19/2018 2:19:00 PM	Jared Hingle	Road dirty. Must clean.
	10520707	2018-37694	4/18/2018 10:06:00 AM	Jim O'Berry	Must channelize water away from adjacent lot.
	10479901	2018-37782	3/29/2018 10:49:00 AM	Jared Hingle	Clean sand off road.
	10465667	2018-38181	3/22/2018 9:39:00 AM	Jim O'Berry	Clean street.
	10465695	2018-38309	3/22/2018 9:38:00 AM	Jim O'Berry	Clean street.
	10465740	2018-38180	3/22/2018 9:37:00 AM	Jim O'Berry	Clean street.
	10465732	2018-38311	3/22/2018 9:36:00 AM	Jim O'Berry	Clean street.
	10449626	2018-37993	3/15/2018 9:31:00 AM	Danny Martin	Need silt fence.
	10449983	2018-38182	3/14/2018 10:30:00 AM	Danny Martin	Need silt fence. Clean street.
	10449994	2018-37995	3/14/2018 10:29:00 AM	Danny Martin	Need silt fence. Clean street.
	10442422	2017-32982	3/12/2018 11:13:00 AM	Jared Hingle	Swales must be installed. Sand/rock required on exit pad. Silt
	10439977	2018-37994	3/9/2018 2:02:00 PM	Danny Martin	No silt screen. Mud in the street. No swale.
	10439981	2018-37993	3/9/2018 1:55:00 PM	Danny Martin	No silt screen. mud in the street. No swale.
	10258629	2017-36214	3/1/2018 9:29:00 AM	Glenn Delatte	Silt fencing incomplete. Need catch basin BMPs.
	10252586	2017-37318	2/27/2018 10:38:00 AM	Glenn Delatte	Need silt fencing, hay bales, and catch basin filters.
	10245268	2018-37915	2/23/2018 10:24:00 AM	Jared Hingle	Need exit pad with sand/rock. Need silt fence.

Inspection Type	Work Order	Permit Number	Date & Time	Inspector Name	Comments
	10239570	2017-37388	2/21/2018 3:06:00 PM	Jim O'Berry	No swales, Clean street.
	10233095	2017-37060	2/20/2018 12:33:00 PM	Jim O'Berry	Replace silt barrier at stree & clean mud from street.
	10230147	2017-36744	2/20/2018 11:09:00 AM	Jim O'Berry	Must stabilize fill on driveway to keep dirt out of ditch.
	10228416	2017-37213	2/16/2018 10:15:00 AM	Jared Hingle	Road dirty. Silt fence required.
	10227807	2017-37434	2/16/2018 9:07:00 AM	Jim O'Berry	Clean streets.
	10227811	2017-37435	2/16/2018 9:07:00 AM	Jim O'Berry	Clean streets.
	10227799	2017-37433	2/16/2018 9:05:00 AM	Jim O'Berry	Clean streets.
	10227428	2017-37432	2/16/2018 8:57:00 AM	Jim O'Berry	Clean streets.
	10227434	2018-37480	2/16/2018 8:51:00 AM	Jim O'Berry	Clean streets.
	10148861	2016-27270	2/2/2018 10:26:00 AM	Jim O'Berry	No swales on lot.
	10148738	2017-37435	1/30/2018 8:43:00 AM	Jim O'Berry	Clean roads.
	10148733	2017-37434	1/30/2018 8:43:00 AM	Jim O'Berry	Clean roads.
	10121011	2017-36846	1/19/2018 4:17:00 PM	Jared Hingle	Need exit pad with sand/rock. Install silt fence properly.
	10115235	2017-37107	1/12/2018 9:06:00 AM	Jared Hingle	Sand/ rock required on exit pad
	10115228	2017-37108	1/12/2018 9:05:00 AM	Jared Hingle	Sand/rock required on exit pad
Final Stormwater & Drainage Inspection	11208209	2018-40779	12/19/2018 3:13:00 PM	Jim O'Berry	Need swale on left side to keep SW off adjacent lots.
	11207473	2018-39244	12/19/2018 2:24:00 PM	Jim O'Berry	Need defined swales on both sides of lot.
	11209284	2016-28847	12/19/2018 11:42:00 AM	Jim O'Berry	Remove dumpster & trash/debris. Grade lot & ditch.
	11199464	2018-38847	12/17/2018 2:26:00 PM	Jim O'Berry	Need swale sthat drains water away from neighbors.
	11201521	2016-31339	12/17/2018 2:00:00 PM	Jim O'Berry	Must have lot final graded and clean ditch blockage.
	11200559	2018-40709	12/17/2018 11:46:00 AM	Jim O'Berry	Need swale on right side to send water to front ditch. Finish
	11196271	2017-36160	12/13/2018 2:46:00 PM	Jim O'Berry	No swale on left side of lot. SW must drain to ditch.
	11194927	2018-39978	12/13/2018 1:30:00 PM	Jim O'Berry	Clean street and stabilize fill.
	11161336	2018-39973	11/28/2018 9:54:00 AM	Jared Hingle	Need final grade & swales. Clean street.
	11152535	2017-33571	11/21/2018 11:16:00 AM	Jared Hingle	Debris must be cleaned up. Clean diert from street, ditch, and
	11150263	2018-39208	11/20/2018 1:39:00 PM	Jared Hingle	Ditch silted in. Must clean ditch.
	11146434	2018-38324	11/20/2018 10:59:00 AM	Jared Hingle	Must be final graded. Ditch silted in.
	11148975	2018-37660	11/20/2018 10:39:00 AM	Jared Hingle	Clean street. Clean swales to drain properly.
	11141579	2018-40166	11/16/2018 8:39:00 AM	Jared Hingle	Lot must be final graded. Remove trash, debris, & dirt.
	11125585	2018-38234	11/8/2018 2:12:00 PM	Jim O'Berry	No swale on left side of lot.
	11000547	2018-40068	11/7/2018 2:36:00 PM	Jim O'Berry	Ditch must be stabilized as to not wash and erode.
	11000537	2018-39965	11/7/2018 2:31:00 PM	Jim O'Berry	Clean ditches all the way to intersection.
	10989546	2018-37772	10/31/2018 8:59:00 AM	Jim O'Berry	Remove all trash and debris.
	10974101	2018-38754	10/25/2018 10:42:00 AM	Jared Hingle	Drainage swales required. Clean street.

Inspection Type	Work Order	Permit Number	Date & Time	Inspector Name	Comments
	10970867	2018-37827	10/23/2018 9:37:00 AM	Jim O'Berry	Need swales on both sides of lot.
	10880260	2018-39632	9/24/2018 8:46:00 AM	Jim O'Berry	No swale on left. Spread and grade fill dirt or remove.
	10872458	2017-32982	9/19/2018 9:37:00 AM	Jared Hingle	Must remove trash & debris. Must have swales.
	10869029	2017-35492	9/18/2018 2:06:00 PM	Jim O'Berry	Need final grading. Need swales. Clean ditch.
	10854691	2018-39004	9/11/2018 11:48:00 AM	Jim O'Berry	No swale on right. Clean street. Final grade property. Remove
	10831177	2018-39738	9/6/2018 12:04:00 PM	Jim O'Berry	Ditch silted in. Clean ditch & remove trash/debris from site.
	10814629	2017-34773	8/27/2018 1:29:00 PM	Jim O'Berry	Lot must be final graded to a seed or sod ready condition.
	10778821	2018-38882	8/9/2018 8:47:00 AM	Jim O'Berry	Clean street & ditch.
	10778817	2018-38679	8/9/2018 8:42:00 AM	Jim O'Berry	Clean ditch & road.
	10778770	2017-36553	8/9/2018 8:38:00 AM	Jared Hingle	Must be final graded. Remove trash/debris. Clean culvert.
	10778838	2018-38595	8/9/2018 8:34:00 AM	Jim O'Berry	Clean ditch. Clean road. Final grade lot.
	10774023	2018-38703	8/7/2018 11:08:00 AM	Jim O'Berry	Catch basin must be protected and cleaned.
	10747818	2018-38703	7/30/2018 1:36:00 PM	Jim O'Berry	Clean street. Keep silt out of SW system with BMPs.
	10739668	2017-37192	7/30/2018 12:21:00 PM	Jim O'Berry	Trash at corner of lot must be picked up.
	10743377	2018-37935	7/26/2018 9:27:00 AM	Jim O'Berry	Remove all trash and debris.
	10739012	2018-38461	7/25/2018 9:21:00 AM	Jim O'Berry	Clean streets & culvert. Culvert full of mud.
	10739007	2018-38681	7/25/2018 9:19:00 AM	Jim O'Berry	Clean roads.
	10739005	2018-38433	7/25/2018 9:18:00 AM	Jim O'Berry	Clean roads.
	10710580	2017-36829	7/12/2018 10:50:00 AM	Jared Hingle	Remove dirt piles. Need final grading.
	10707841	2017-36492	7/11/2018 9:06:00 AM	Jim O'Berry	Clean culvert (full of silt).
	10699349	2018-38378	7/9/2018 10:38:00 AM	Jim O'Berry	Remove trash and debris. Final grade lot. Culvert crushed.
	10677051	2017-36311	6/26/2018 10:14:00 AM	Jim O'Berry	Need swale on left. Lot must be final graded.
	10669372	2018-38644	6/22/2018 8:44:00 AM	Jared Hingle	Need final grading. All trash/debris must be removed.
	10656076	2018-37996	6/18/2018 12:22:00 PM	Jared Hingle	Sand in street. Ditches silted in.
	10656127	2018-37997	6/18/2018 12:21:00 PM	Jared Hingle	Sand in street. Ditches silted in.
	10656229	2018-37777	6/18/2018 12:14:00 PM	Jared Hingle	Sand in street. Ditches silted in.
	10652420	2017-36846	6/15/2018 9:03:00 AM	Jim O'Berry	No swale on either side of lot. Must install swales to send
	10645106	2017-33111	6/12/2018 9:34:00 AM	Jared Hingle	Not ready. Lot must be final graded to a seed or sod ready
	10631130	2018-37456	6/6/2018 11:56:00 AM	Jared Hingle	Culvert crushed. Must be replaced
	10588726	2018-37513	5/21/2018 9:32:00 AM	Jared Hingle	Swales must be installed. Clean street.
	10588724	2018-37485	5/21/2018 9:31:00 AM	Jared Hingle	Swales must be installed. Clean street.
	10584358	2017-35640	5/17/2018 9:09:00 AM	Jared Hingle	Need final graded. Clean ditch & culvert. Need swales.
	10580850	2017-37053	5/16/2018 9:19:00 AM	Jim O'Berry	No swale on left. Clean ditch and culvert.
	10565329	2017-37175	5/8/2018 9:39:00 AM	Jim O'Berry	Clean streets.
	10542911	2017-36444	4/27/2018 10:53:00 AM	Jared Hingle	Road dirty.

Inspection Type	Work Order	Permit Number	Date & Time	Inspector Name	Comments
	10538560	2017-36592	4/25/2018 8:59:00 AM	Jared Hingle	Need final grade.
	10538638	2017-36180	4/25/2018 8:55:00 AM	Jared Hingle	Remove trash and final grade lot. Install swales.
	10533180	2018-37798	4/24/2018 8:58:00 AM	Jared Hingle	Lot must be final graded. All debris must be removed.
	10528278	2017-34210	4/20/2018 1:37:00 PM	Jared Hingle	Not final graded. Ditch sited in. Concrete wash out in ditch.
	10510377	2017-37169	4/17/2018 1:14:00 PM	Jim O'Berry	Clean street clean ditches final grade lot.
	10510209	2017-36999	4/17/2018 1:13:00 PM	Jim O'Berry	Clean street clean ditches final grade lot.
	10510290	2017-37001	4/17/2018 1:12:00 PM	Jim O'Berry	Clean street clean ditches final grade lot.
	10510235	2017-36995	4/17/2018 1:11:00 PM	Jim O'Berry	Clean street clean ditches final grade lot.
	10510252	2017-36996	4/17/2018 1:10:00 PM	Jim O'Berry	Clean street clean ditches final grade lot.
	10510273	2017-36997	4/17/2018 1:09:00 PM	Jim O'Berry	Clean street clean ditches final grade lot.
	10480459	2017-35025	4/11/2018 3:59:00 PM	Jim O'Berry	Clean streets.
	10487621	2017-36007	4/11/2018 3:57:00 PM	Jim O'Berry	Roads dirty. Clean silt from ditch.
	10492967	2017-36999	4/10/2018 8:54:00 AM	Jim O'Berry	Clean street.
	10465373	2017-36068	3/22/2018 12:45:00 PM	Jared Hingle	Ditch silted in. Drop Inlet not visible.
	10465646	2017-35855	3/22/2018 12:39:00 PM	Jared Hingle	Need final graded. Remove trash. Clean drop inlet.
	10449491	2017-36047	3/14/2018 10:23:00 AM	Danny Martin	Clean street & lot.
	10256310	2017-34052	2/28/2018 8:14:00 AM	Jim O'Berry	Must have swales on both sides of lot. Remove debris.
	10130160	2017-35589	2/7/2018 9:12:00 AM	Jim O'Berry	Clean roads
	10205501	2017-35094	2/5/2018 10:55:00 AM	Glenn Delatte	Road side ditch needs to be cleaned.
	10206190	2017-34590	2/5/2018 8:40:00 AM	Jim O'Berry	Need swale on left side of lot. Need catch basin.
	10140413	2017-35608	1/25/2018 9:26:00 AM	Danny Martin	Mud in street. No swale.
	10117970	2017-34959	1/16/2018 10:24:00 AM	Jared Hingle	Road dirty. Ditches silted in.
	10117624	2017-34960	1/16/2018 10:21:00 AM	Jared Hingle	Road dirty. Ditch silted in.
	10116849	2017-35404	1/12/2018 9:29:00 AM	Jim O'Berry	Clean streets in subdivision!



St. Tammany Parish

2018 MS4 Annual Report

C.5 Post-Construction Stormwater Controls

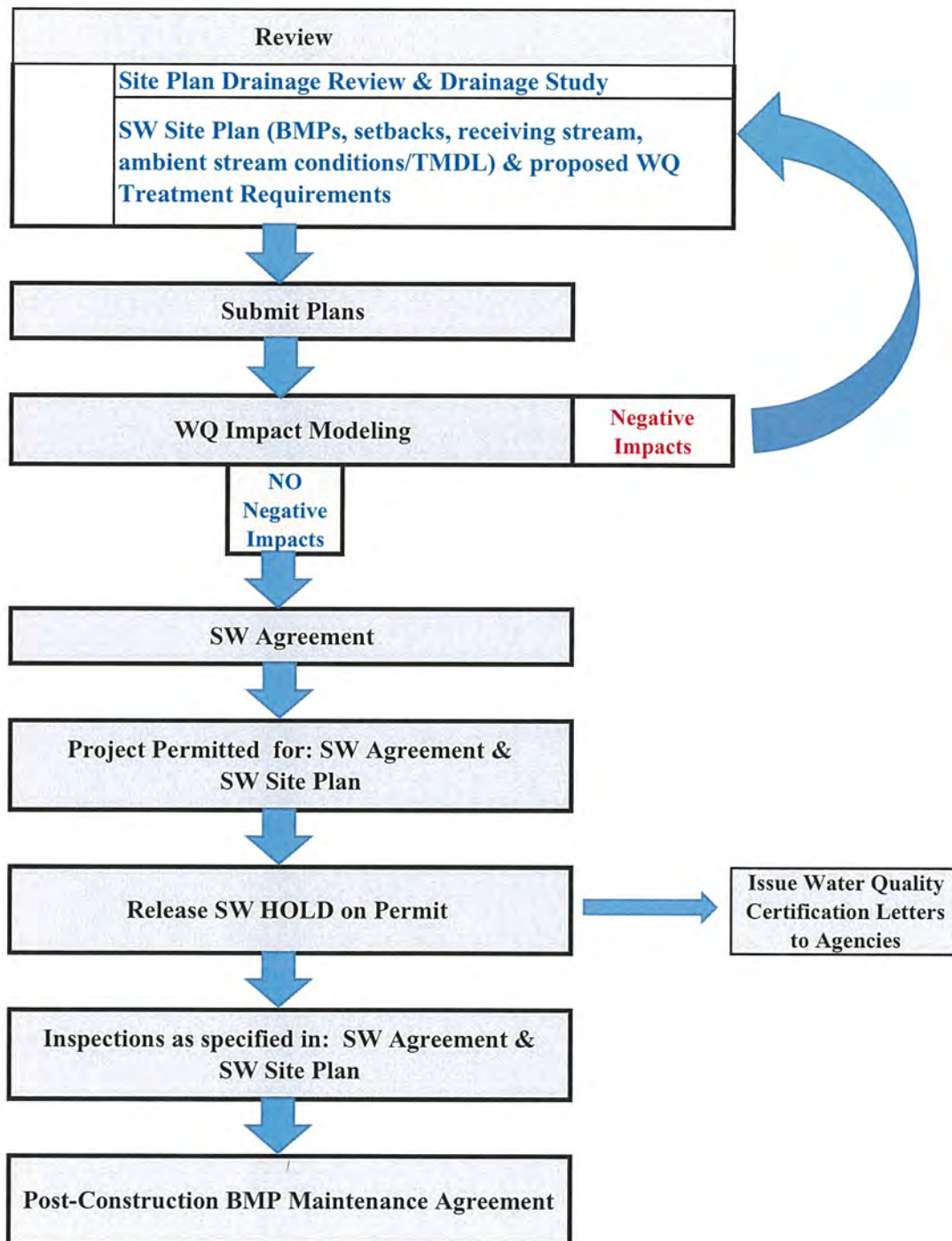


C.5 Post-construction Stormwater Controls

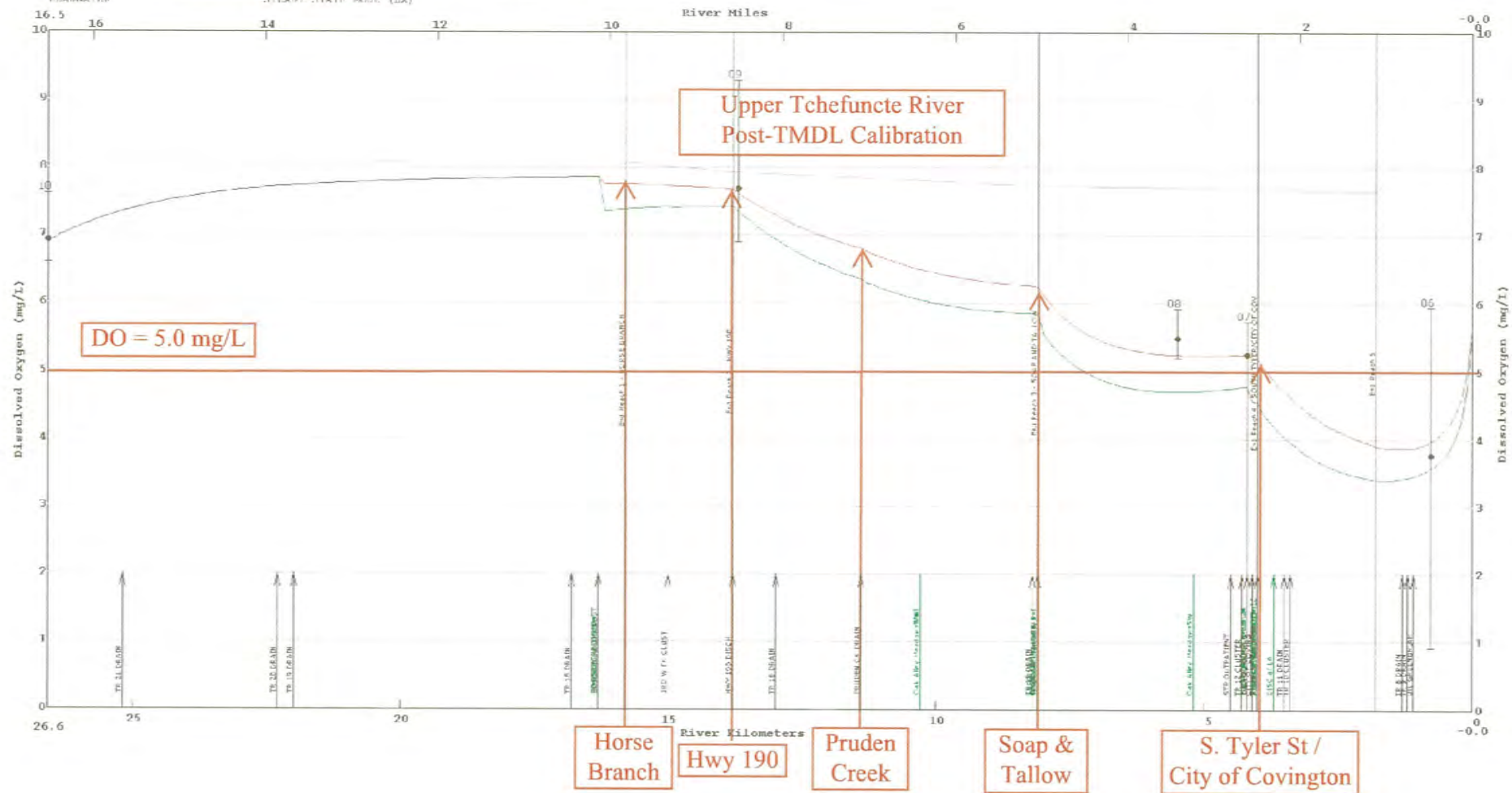
Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Post Construction Stormwater Controls	Retention requirements for subdivisions & commercial developments	Up to 25% reduction of peak runoff SW reduction of 100-Yr discharge in all commercial/industrial/institutional and subdivision developments.		2018-2023	Ongoing/ The subdivision and commercial drainage requirements are reviewed prior to construction & monitored by inspections during the construction process.
Post Construction Stormwater Controls	Grassy swales required for lots 90' wide, or less.	Permanent BMP to facilitate stormwater drainage & prevent adverse impacts,		2018-2023	Continuous/The swale requirement is reviewed/approved prior to construction and monitored by inspections during the construction process.
Post Construction Stormwater Controls	Stormwater Inspections	Confirm the site is in compliance with SW requirements.		2018-2023	Continuous/Stormwater inspections during the construction phase confirm compliance with post-construction BMPs.
Post Construction Stormwater Controls	Stormwater ordinance revision, implementation, and enforcement.	Quantify WQ improvement related to Post Construction BMPs required for new developments.		2018-2023	Ongoing/STP SW Ordinance was adopted 10/2016. It prohibits degradation of WQ and requires permanent BMPs based on standards set forth in the ordinance. Revised as needed.
Post Construction Stormwater Controls	SW Pond retrofits with BMPs	Developers will use effluent qualities and removal efficiencies from demonstration ponds to aid in BMP selection.	X	2018-2023	Ongoing/Dry ponds are vegetated and wet pods are aerated to assess effluent qualities and removal efficiencies (%RE). WQ sampling & DO profiles at outfall during summer-critical conditions will continue to be monitored for WQ improvement. Effluent qualities and % reduction are utilized in Water Quality Modeling Program to determine impacts of proposed developments. Results and reports are available on STP SW website.

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Post Construction Stormwater Controls	WQ Pond Prioritization and BMP retrofit projects	Ponds in STP maintenance system prioritized for WQ improvement to address Scenic Rivers, TMDLs, & WLAs.	X	2018-2023	Ongoing/SW ponds in the Parish maintenance system have been inventoried and prioritized for WQ improvement to address Scenic Rivers, TMDLs, & WLAs. Priority 1 ponds discharge into Scenic or TMDL Rivers, are surrounded by unsewered SDs, and have a WQ monitoring station nearby. A budget for BMP implementation (Vegetated Planting of dry ponds and aeration for wet ponds) was adopted for 2018. WQ sampling/monitoring will continue to be conducted to determine effluent qualities and removal efficiencies. Results will be added to the Parish database).
Post Construction Stormwater Controls	Water Quality Impact Modeling (WQIM) on new & redevelopments, particularly Scenic Rivers & TMDL and/or WLA waterways	Based on modeling, developers select additional BMPs to prevent WQ degradation on Scenic Rivers and/or meet WLA limits.	X	2018-2023	Ongoing/WQIM implemented for new and redevelopments (SDs & commercial/industrial/institutional) to maintain compliance with antidegradation policy and DO standards as required by TMDLs & WLAs.
Post Construction Stormwater Controls	Stormwater website	SW information for contractors, including information on BMP removal efficiencies.	X	2018-2023	As needed/Plans to update and improve stormwater website with the addition of effluent quality and removal efficiency results of SW retrofits & other BMPs.

**STP Watershed Management:
Water Quality Impact Modeling Process**



LA-QW... version 9.30 Run at 04:44 on 10/18/2018 File T:\deBette (Regulatory)\STP WQ Impact Modeling Program\Development Impacts Models\Upper Tchefuncte River\003_Azalea Gardens\003_Azalea Gardens21.txt
 UPPER TCHFUNCTE RIVER WATERSHED MODEL Predicted min= 3.89 max= 7.86
 UPPER TCHFUNCTE RIVER WATERSHED Retail Center D.O. Sat
 HEADWATER STEADY-STATE MODE (LA)



Water Quality Impact Modeling Program
 Model Results for Azalea Gardens

DEVELOPMENT 12/12/2017	SCOPE	LOCATION	UTILITIES PROVIDER	WATERSHED MODEL	Dev. Size	BMP Treatment Train to Receiving Stream [4]	DO Standard (Pass/ Fail)		
					acres		Anti Deg	EPA Standard	Watershed
Abita Lakes. Ph. 3-B-2	Residential; 17 Units	On the south side of Grand Lake Drive, east of Lowe Davis Rd. east of LA Hwy 59 and West of LA Hwy 1083 (a.k.a. Allen Rd), northeast of Abita Springs, LA	Tammany Utilities	Abita River	33.01	d-> Wp-> branch-> Abita River(LA59)	Pass	Pass	Pass
Abita Ridge (formerly Abita River Park)	Residential; 138 total lots	Entrances are located on the n side of Harrison Ave. approximately 1/2 mile east of LA HWY 190	UIL	Abita River	46.32 (Modeled 11/14/2016)	Wp-d	Pass	Pass	Fail
Alexander Ridge (Pending approval 2/14/2017) Formerly Terra Mariae Phase 3	Residential; 103 Lots	West of LA 1081 north of Thibodeaux Rs., Covington	Tammany Utilities	Bogue Falaya	48.0 (Modeled 11/14/2016)	d-Wp-d	Pass	Pass	Fail
Angelic Estates Phase 1-B-2 (Sherry Court and April Court)	Residential; 12 Lots: AKA "The Birg"	Helenburg Rd., Covington Sherry Court and April Court	Tammany Utilities	Ponchitolawa	1.51+0.762= 2.272 (Modeled 11/14/2016)	Dp-d	Pass	Pass	Fail
Artesia Apartments @ Watercross	Residential; Multi-Family; Apartment Complex; 264 Units; 19 Total Buildings	Northside of I-12; Pinnacle Parkway to Westshore Drive behind Hobby Lobby	UIL; Approved	LTR	14.33 (w/ offsite roadway)	d-> Wp -> wetland	Pass	Pass	Fail
Arundel	Residential; 26 Lots	Located on the south side of Brewster Rd. and west of LA Hwy 21, north of Madisonville	Tammany Utilities	LTR	16.77	d-> Wp-> d -> NE fork of Blk River -> LTR	Pass	Pass	Pass
Ashton Parc, 2nd & 3rd Filings	Residential; 122 Lots	Off of Hwy 11 & Haas Rd	Resolve	W-15	196.4				
ASSOCIATED WHOLE GROCERS (Complete)	139K SF expansion of existing facility in Pearl River	Old Military Rd., Pearl River	Town of Pearl River	W. Pearl River					
Audubon Funeral Home	Commercial; Funeral Home (5.8 acres)	61101 Hwy 11; Hwy 11 & Frickie Road (In J. Smith Memorial Business Park)	Resolve (?)	Bayou Vincent	5.8	Dp-d	Pass	Pass	Fail
AUDUBON TRAIL (Formerly known as Audubon Oaks) (Recorded on 1/5/2016 File No. 5479)	Residential; 76 Lots	North of I-12, east of US 190, south of Hollycrest Blvd. Covington	UIL	Ponchitolawa	17.896	d-Wp-ddd -> Ponchatolawa Creek (at Confluence w/TR)	Pass	Pass	Fail
AVANTI NURSING HOME 2016-27098 (Completed)	New Nursing Home Facility; Construction completion anticipated for Spring 2017	2234 Watercross Blvd-Covington (Ochsner Blvd to rounds about 1/4 mile to Watercross Blvd)		LTR	1.79 (Modeled 11/14/2016)	d	Pass	Pass	Pass
Azelea Gardens Retail Center (Fat Spoon Restaurant (Building 1))	Commercial Retail (Vanilla Box-Building -5 Potential Tenants)	71170 Hwy 21-bt Bootlegger & Bridge @ Greenbrier	???	UTR	1.25	SS-> Dry pond/veg. buffer-> roadside ditch (Greenbrier) -> Flowers Bayou -> UTR	Pass	Pass	Fail
BEDICO CREEK Phase 11 (Recorded)	Residential; 84 Lots	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
BEDICO CREEK Phase 1-D2 (Recorded per file)	Residential; Lots 56-65		Bedico Creek	Bedico Creek					
BEDICO CREEK Phase 1-D3 (Recorded per file)	Residential; 25 Lots 74-98	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
BEDICO CREEK Phase 1-E2 (Formerly 1-D2A) (RECORDED 2/2/15)	Residential; 13 Lots 66-73, 233-237	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
BEDICO CREEK Phase 4 (6/10/2014 - Recorded Sept 14)	Residential	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
Bedico Creek Bubble 2-1	Residential; 54 Lots	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
Bedico Creek Bubble 2-2	Residential; 47 Lots	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
BEDICO CREEK Parcel "F" (Recorded 12/12/2016, File No 5594)	Residential; 27 Lots	East side of Audubon Pkwy, south of I-12 and north of LA Hwy 1085, west of Covington, LA	Bedico Creek	Bedico Creek					
BEDICO CREEK Parcel "F" (RECORDED 12/12/2016 File No. 5594)	Residential; 27 Lots			Bedico Creek					
Bedico Creek Parcel 13	Residential; 61 Lots; 21.50 Acres	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
BEDICO CREEK PARCEL 16 (RECORDED 4/15/2015)	Residential; 34 Lots (618-623, 651-678)	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
Bedico Creek Parcel 3	Residential; 10 Lots (181 - 190)	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
BEDICO CREEK PARCEL 8 (Recorded 9/22/2016 File#5571)	Residential; 11 Lots; 4.87 Acres	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
BEDICO CREEK PARCEL B "Heron Point" (Formerly 1-A) (Recorded 9/4/2015 File No 5425)	Residential; 16 Lots	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
BEDICO CREEK Parcel B "Heron Point" (Formerly 1-A) (Recorded 9/1/2015 File No 5425)	Residential; 16 Lots	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area		Bedico Creek					
Bedico Creek Parcel C	Residential; 50 Lots; 39.069 Acres	In the southwest quadrant of Bedico Creek	Bedico Creek	Bedico Creek					
BEDICO CREEK Phase 11 (Recorded 9/22/2016 File No. 5569)	Residential; 84 Lots	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
Bedico Creek Phase 12	Residential; 56 Lots	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
BEDICO CREEK Phase 12B (8/17/17 File No. 5665)	Residential; 56 Lots	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
Bedico Creek Phase 15	Residential; 26 Lots (249 - 574)	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
BEDICO CREEK Phase 5 (8/12/14 - RECORDED)	Residential; 28 Lots (252 - 279)	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
BEDICO CREEK Phase 9 (Deer Park) (RECORDED 1/8/15)	Residential	Hwy. 1085 off of I-12. 1077 / Madisonville / Goodbee area	Bedico Creek	Bedico Creek					
BERKSHIRE (Recorded on 1/5/2016 File No. 5479)	Residential; 91 Lots	West of I-59, on Robert Rd. North of Haas Rd. Pearl River	Resolve	W. Pearl River					
BLIND TIGER (2016-29412 complete)	Commercial; Restaurant	West End Blvd. Slidell; Off of Oak Harbor Exit to Marina/Boat Yard		Lake Pontchartrain					
Brentwood Estates	PUD; 102 Lots	located on the North side of Sharp Road, & East of Westwood Drive	H2O	Tete L'Ours	107.635	d->Wp->d->pool	Pass	Pass	Fail
Car Max (12/12/2017)	Commercial; Retail	Hwy 190 Service Road next to Toyota Dealership	Tammany Utilities	Ponchitolawa Creek		d->Dp->d->	Pass	Pass	Fail
Carwash Revive	Car Wash	1810 N Hwy 190 South of Harrison Ave. Next to Baldwin Motors	UIL	Abita River	1.515 acres	SS & sheetflow from concrete->veg. buffer-> Hwy 190 ditch-> AR	Pass	Pass	Fail
CHRISTIAN BROTHERS AUTOMOTIVE (2016-29115 (Building Permit) Completed, 2016-30353 (Landclearing Completed)	Commercial; Mechanic Shop	Dalwill Dr. (NEAR FIRST AMERICAN BANK AND TRUST) Mandeville, LA	Approved	Chinchuba	0.781	(SS)-Dp-d-> Chinchuba (@ W. Causeway Extension)	Pass	Pass	Pass
COAST Council on Aging Not enough information to model	Commercial; Parking Lot addition in rear of building for outdoor storage and bus yard	Ramos Street Covington near Climborne Hill	application made, DES will have no issue for water & sewer for parking lot for flat work permit only)	Bogue Falaya					

DEVELOPMENT 12/12/2017	SCOPE	LOCATION	UTILITIES PROVIDER	WATERSHED MODEL	Dev. Size	BMP Treatment Train to Receiving Stream [4]	DO Standard (Pass/ Fail)		
					acres		Anti Deg	EPA Standard	Watershed
Cobblestone Court	Commercial; 40 Lots		UIL	LTR	5.755	N ₂ internal ditches→ Dry Pond/park→ excavated Canal→ S ₂ internal ditches→ Canal through Emerald Forest→ roadside ditch (Hwy 190) → headwaters of Bayou Monge → LTR	Pass	Pass	Fail
Copperstill	Retail on La 1077; 60,000 sq. foot development; developer considering expansion of grocery square footage from 35,000 to 43,000	Southeast Corner of 1085/1077 intersection	Tammany Utilities - USA completed, lift station ordered; awaiting response for revised COS issued for proposed expansion of grocery	UTR	1.3774 (Modeled 11/14/2016)	SS→ d	Pass	Pass	Pass
COQUILLE Phase 2 (RECORDED)	Residential; 23 Lots (33-55)	Madisonville LA, south of LA 22 east of Trapagnier Rd.	Guste Island	LTR	11.57	d-d(Hwy22)→ Black River → LTR	Pass	Pass	Pass
Coquille Phase 3A	Residential; 48 Lots (48-95)	Madisonville LA, south of LA 22.	Guste Island	LTR	Modeled 11/14/2016	Black River → LTR	Pass	Pass	Pass
COUNTRYSIDE Phase 1A (Recorded 10/20/2015 Map File No. 5443)	Residential; 8 Lots	Northwest corner of Hwy 190 and Hwy 1077 Covington		E Bedico Creek					
Cultural Arts District	3 Lots, 48 Acres, Cultural Arts District, Children's Museum, Amphitheater, Hotel, Convention Center	Northeast of intersection of Pinnacle Pkwy and I-12. East of Nor de Lac, West of Tchefuncte River	UIL	LTR	82.3 (Modeled 11/14/2016)	d-Wp-Wp-d-BF-LTR	Pass	Pass	Fail
Deer Crossing	Residential; 107 Lots; 23.37 Acres	SW intersection of I-12 & Hwy 1085 across from Perriloux Rd; Madisonville	Tammany Utilities	Bedico Creek	23.379	Wp→Bootlegger d→Fox Branch→Bedico Creek			
Diaz Gas Station	Retail; Convenience Store and Gas Station (4500 ft2 convenience store w/ 11,000 ft2 retail center and paved parking; Impervious surface = 81,234 ft2).	Corner of Hwy 21 & Greenbrier Blvd.		UTR	2.8	SS→ Dp→ roadside ditch (Hwy21 & Greenbrier Blvd)→ Flowers Bayou→ UTR	Pass	Pass	Fail
DISC Of Louisiana (Inv-vood Dr hydro-mech, Phase I → Bayou Jacques Pelout)	Doctor's Office	Innwoods Drive; Hwy 21; Covington		UTR	2 (estimate)	(Dp holds water, so functions as Wp) d→Wp→ d	Pass	Pass	Fail
Diversified Foods-Freezer Building	Industrial-Additional Freezer Building	109 Hwy 1085 - Madisonville-Existing Campus (Alamosa Park, Compass Way East, Mandeville)	H2O	LTR	1 acre (40,138 ft2)	SS→ Little Creek→ Ponchitolawa Creek→ LTR This commercial SD is already in the TMDL model	Pass	Pass	Fail
Diversified Foods-Mechanical Building	Mechanical Building to house motors & other machinery	109 Hwy 1085 - Madisonville-Existing Campus (Alamosa Park, Compass Way East, Mandeville)							
Diversified Foods-Wastewater Treatment Plant	UPGRADE BUILDING FOR DIVERSIFIED FOODS & SEASONINGS	109 Hwy 1085-Madisonville-Existing Campus							
Doux Maison	Residential; 8 Lots (10.921 Acres)	West side of LA Hwy 41, Bush, LA		W. Pearl River					
Dove Park Estates (PUT)	Residential; 84 Lots; 57.72 Acres	Dove Park Road	TU (STP Preferred Equities) upgraded 35,000 GPD by developer)	Ponchitolawa Creek	58.45	Veg. swales→ SS→ Wp→ drainage servitude→ Little Creek→LTR	Pass (barely)	Pass	Fail
East Court Warehouse (No information available 9/20/18)		51 East Ct. Hwy 59, North of I-12 to South St., to East Ct.							
Elan @ Terra Bella	"Luxury" Apartment Complex	520 Myrtle Drive; Terra Bella Subdivision	Tammany Utilities	UTR	0.92	SS-Wp → roadside ditch→ Soap&Tallow → LTR	Pass	Pass	Fail
First Baptist Church of Covington	Commercial/Suburban District: New Worship & Administrative Centers	16333 Hwy 1085; Northeastern corner of Hwy 21 & Hwy 1085	Approved	LTR	1.491	Wp→d→ LTR	Pass	Pass	Fail
FLORIDA MARINE TRANSPORTERS BUILDING (Complete)	Commercial/Office building: expansion and redesign	US 190 East service rd. - Mandeville		Tete L'Ours	1 est. (Modeled 11/14/2016)	d	Pass	Pass	Pass
Fort Knox Climate Controlled Storage Facility	3 Story Climate Controlled Storage Facility	Orleans Street in Mandeville @ Hwy 59	Tammany Utilities	LTR	1.4818	SS → Dp→ SS→ roadside ditch (Orleans St) →			
GARDENWALK Phase 1A (Filed 8-13-2015 File No. 5413)	Residential; 25 Lots	East of Hwy. 190, northeast of Walmart, south of Crestwood Blvd., Covington	UIL	Ponchitolawa	6.44	d-Dp-d → Ponchitolawa Creek	Pass	Pass	Fail
Gardenwalk, Phase 1B	Residential; 40 Lots	East of Hwy. 190, northeast of Walmart, south of Crestwood Blvd., Covington	UIL	Ponchitolawa	15.43 (Modeled 11/14/2016)	d-Dp-d	Pass	Pass	Fail
Goodbee Square, Phase 1	Residential; 82 Lots	Northwest corner of US 190B and LA 1077, Covington	Tammany Utilities	UTR	21.29 (Modeled 11/14/2016)	Dp-d	Pass	Pass	Fail
Grand Champions of Oak Harbor, Filing 4	Residential; 130 Lots	West of I-10, north of Oak Harbor, Slidell	Coast	Lake Pontchartrain	39.21				
GRAND MAISON, Ph 3B (6/23/2017; File No. 5650)	Residential; 97 Lots	Just South of I-12 off of Hwy 59 next to Heritage Heights	Tammany Utilities	Chinchuba	44.70 (Modeled 11/14/2016)	d-Dp-d	Pass	Pass	Fail
GRAND OAKS Ph 2-B (Filed 3-23-16 - File #5497)	Residential; 44 Lots; 17.16 Acres	North of LA 22 across from Guste Island, Madisonville	SELA	LTR	33.22	Black River → LTR	Pass	Pass	Pass
Grand Oaks, Phase 2C	Residential; 48 Lots; 26.18 Acres	North of LA 22 and east of LA 1085 and West of Town of Madisonville	Guste Island	LTR		Black River → LTR			Pass
GREYSTONE, The (Annexed into the City of Mandeville) (2016-28720 Land clearing Complete, 2016-26940 Building Permit)	Banquet Hall	935 Clausel Street, Mandeville; at the intersection of Clausel & America Street	City of Mandeville	Little Bayou Castine					
Guste Island Parcel B	Residential; 72 Lots	South of LA 22 on Guste Island Rd., west of Trapagnier Rd., Madisonville	Guste Island	LTR	27.27	d-Wp-wetland (nr Black River) → LTR	Pass	Pass	Pass
GUSTE ISLAND Parcel D-2 (8/12/14; RECORDED)	Residential; 43 Lots	South of LA 22 on Guste Island Rd., west of Trapagnier Rd., Madisonville	Guste Island	LTR	13.78	d-Wp-d → Black River → LTR	Pass	Pass	Pass
GUSTE ISLAND ESTATES Parcel D-3 "The Oaks" (4/10/2017 File No. 5628)	Residential; 35 Lots; 13 Acres	West of Perriloux Rd and west of Town of Madisonville	Guste Island	LTR	13.089 (Modeled 11/14/2016)	d→Wp→d→ Blk River → LTR	Pass	Pass	Pass
Guste Island Estates Parcel D-3B "The Oaks"	Residential; 12 Lots	east of LA Hwy 1085 and south of Hwy 22 at Guste Island Road; west of the Town of Madisonville	Guste Island	LTR	13.089 (Modeled 11/14/2016)	d→Wp→d→ Blk River → LTR	Pass	Pass	Pass
HARBOR FREIGHT TOOLS- Claiborne Shopping Center (Completed)	Retail Center (Discount Tool and Equipment Retail Store). 16,933 sq. ft. of Interior Renovations, New Offices, Restrooms, Breakroom, Auto Entry/Exit Doors	Claiborne Hill Shopping Center, near Covington by-pass	Model assuming Regional WW						

DEVELOPMENT 12/12/2017	SCOPE	LOCATION	UTILITIES PROVIDER	WATERSHED MODEL	Dev. Size acres	BMP Treatment Train to Receiving Stream [4]	DO Standard (Pass/ Fail)		
							Anti Deg.	EPA Standard	Watershed
Helm Patti Retail Center	12,000 - Commercial Retail Center	6th Street @ N Causeway Approach, Mandeville (Chinchuba SD)		Bayou Chinchuba	1.24 acres	SS-->2 Dry ponds (E&W)--> SS--> internal ditch--> roadside ditch (W-5th st. E. 6th St - not constructed-->N Causeway)--> Bayou Chinchuba--> Lake	Pass	Pass	Pass
HIDDEN CREEK Phase 2 (Recorded 1/10/2017; File No. 5601)	Residential; 55 Lots	North side of LA Hwy 1085 (Bootlegger Road) at the intersection with Arbre Ct, west of Covington, LA	Tammany Utilities	UTR	30.9	d-Wp-d(Hwy1085)--> Hidden Creek--> Swamp&Tallow Creek (N of Del Sol)--> UTR	Pass	Pass	Pass
Highland Park Center	Retail Center; 11,631 sq ft	70515 Hwy 21; Lot 1A: Between Greenbrier & Hwy 1085	Approved	UTR	1.563	ditches along Hwy 21- > N side Flowers Bayou@ S. Tyler St.- > UTR	Pass	Pass	Fail
Holy Trinity / St. Anthony's Garden	112 Acres: Church, retirement center	South of Dove Park Rd., east of Westwood Dr., Covington	Tammany Utilities: Approved by DES	Ponchitola Bayou	112 (Modeled 11/14/2016)	d-Dp-d	Pass	Pass	Fail
Holy Trinity / St. Anthony's Garden	Acres: funeral home								
Holy Trinity / St. Anthony's Garden	Acres: cemetery								
Houltonville (Now Hunter's Haven)	Residential; 47 Lots; 90,619 Acres	South side of Hwy 22 Near Fairview Oaks Drive							
Hunter's Haven, Phase 1 (formerly Houltonville Estates) Name change up for approval @ 12/14/17 PCM	Residential; 32 Lots	The property is located south of LA Hwy 22 at Penn's Chapel Road and east of Madisonville (east of Hidden Acres SD)		LTR	14.512	Veg swales (between homes)--> internal ditches--> green space/wetlands-- > roadside ditch (Penn's Chapel Rd)--> LTR nr Hwy 1077	Pass	Pass	Fail
HWY 21 MARKET PLACE (Starbucks & Aspen Clinic)	5,507 Sq Ft Shell for future tenants: Starbucks & Aspen Clinic	Hwy 21 Market Place near Winn Dixie		UTR	3.49	SSdetention--> d (Hwy21)--> FlowersBayou@ S. Tyler St.-->UTR	Pass	Pass	Fail
HWY 21 MARKET PLACE (Oyster House) outfall 1	Restaurant and Retail	Hwy 21; near north Azalea	DES Approved Shell	LTR	1.81	SSdetention-- d(Hwy21)- FlowersBayou--> LTR	Pass	Pass	Fail
HWY 21 MARKET PLACE (Oyster House) outfall 2	Restaurant and Retail	Hwy 21; near north Azalea	DES Approved Shell	LTR	0.4	sheetflow-d(Hwy21)- FlowersBayou--> LTR	Pass	Pass	Fail
Hwy 21 Planned Corridor Not enough information to model	Retail Center; 14,090 sq ft	Parcel located at South West intersection of LA Hwy 21 & Highland Park Entrance, North of Greenbrier Blvd		LTR					
IRONWOODS SD (RECORDED 1/20/2015)	Residential; 14 Lots	Hwy. 435 near Money Hill, Abita Springs		Abita River	103.45	d-Dp-d (Hwy 435)--> Jacks Branch --> Abita River(Hwy 35)	Fail	Pass	Fail
J.F. Smith Memorial Business Park: Phase 2	Commercial; 7 Lots	Near the northwest corner of I-12 and US 11, Slidell	Resolve	Bayou Vincent	37.11 (Modeled 11/14/2016)	Dp-d	Pass	Pass	Fail
JF Smith Memorial Business Park-Flex Space Development	2 Buildings - Flex Space	Hwy 11 just North of I-12, east side of Hwy 11	Resolve	Bayou Vincent		Dp-d	Pass	Pass	Fail
Jackson Court	Residential; 46 Lots; 17.81 Acres	The property is located on the north side of Hwy 22 approx. 5mile east of the intersection of Hwy 22 and 1085	1120	LTR	21.5	subsurface--> d--> Blk River (above Hwy 22) --> LTR	Pass	Pass	Pass
Jefferson Muslim Association	Mosque	2235 9th Street(9th St between Iberville & Marquette)	Approved	Chinchuba	1.068	d(internal) --> d(roadside Hwy 22)-- > Chinchuba	Pass	Pass	Pass
Lake Ramsey Ph 5	Residential; 68 lots	Phase 5 abuts Lake Ramsey Road and runs along the northern side of Lake Ramsey, east to west, north of Covington	Artesian	UTR	53.6194	d-->Wp--> d (long traverse)--> Horse Branch (hw)--> UTR	Pass	Pass	Fail
LAKESHORE DODGE, CHRYSLER, JEEP, RAM (2016- 29412)	Dealership (Old Kia Dealership Location); 8,513 sq ft	Howze Beach Road- Slidell		Lake Ponchartraine					
Lakeshore Motor Coach Resort	Commercial; 99 Lots, 5 Parcels	Southeast corner of Lakeshore Blvd. and Oak Harbor Blvd. Intersection, Slidell	Oak Harbor East	Lake Ponchartraine	28.8483				
Liberty Park	Baseball/Recreation Center	Bayou Liberty, between Logan's Trace & Ozone Acres (paper). LDEQ AWP198742 (Curtis Environmental Subsegment # 040905, 8,000 gpd, 5BOD5/2NH4/5DO		Bayou Liberty	17.75	pork-ballfields-Dp- wetlands/green space -- > B Narcisse --> BL (@HW of Reach 26)	Pass	Pass	Pass
Logan's Trace	Residential; 97 Lots	South of US 190, on east side of Hwy. 433 (Thompson Rd.), Slidell	Water: Bayou Liberty; Sewer: NEES	Bayou Liberty	60.129 (Modeled 11/14/2016)	Dp-d	Pass	Pass	Fail
LONE OAK PARK, Phase 1 (1986)	Residential; 18 Lots	Property is bisected by Lone Oak Drive, west of U.S. Hwy 11 & North of Slidell, LA	TESI (Cherrywood)	W-14	5.39	interior ditches--> roadside d (US Hwy 11)	in TMDL		
Lone Oak Park, Phase 2	Residential; 75 Mobile Home Lots	Property is bisected by Lone Oak Drive, west of U.S. Hwy 11 & North of Slidell, LA	TESI (Cherrywood)	W-14	13.92	Veg swales --> interior ditches--> Dp-d --> roadside d (US Hwy 11) --> W- 14	Pass	Pass	Fail
Longleaf Estates	Residential; 165 Lots; 82,759 Acres	Southwest of LA 1077 & US Hwy 190 intersection	Tammany Utilities	Bedico Creek					
LOPA (Louisiana Organ Procurement Agency)	Organ Procurement Agency	68190 Hwy 190 Service Rd-Covington	Approved	Ponchitola Bayou	2 acres (assume)	internal grassy swales-- > wooded buffer--> Wp (Little Creek Commercial) --> d	Pass	Pass	Fail
MADISONVILLE MARKETPLACE (Marucci) (2017-32363)Completed (Marucci Hitters House Northshore Bating Cage Facility with merchandising area at front 2017-34969 (Job Trailer) 2017-35469 (LC- Completed).	Retail	70327 HWY 1077; Near intersection of Hwy 1077 and Belington Drive, just north of Brewster Road	Approved (Holding Occupancy)	LTR	3 acres (assume)	discharge into HW of NE fork of Blk River -- > LTR	Pass	Pass	Pass

DEVELOPMENT 12/12/2017	SCOPE	LOCATION	UTILITIES PROVIDER	WATERSHED MODEL	Dev. Size acres	BMP Treatment Train to Receiving Stream [4]	DO Standard (Pass/Fail)		
							Anti Deg	EPA Standard	Watershed
MADISONVILLE MARKETPLACE (Sign fabrication shop) (2017-32363/Completed (Marucci Hitters House, Northshore Baiting Cage Facility with merchandising area at front 2017-34969 (Job Trailer); 2017-32469 (LC-Completed))	Retail	70301 Hwy 1077 Rear lot of Mad.Marketplace behind Marucci Sports. Left side of PJ	Approved (Holding Occupancy)	LTR		discharge into HW of NE fork of Blk River -> LTR			Pass
Magnolia Mound (formerly Tantella Ranch) NOW Preserves at Goodbee (9/18)	Residential, 220 Lots (Individual Sewer 110,000 gpd)	East side of LA 1077 and Tantella Ranch Rd, north of Magee Rd.	None - Individual	UTR	219.4 (Modeled 11/14/2016)	d-Dp-d	Fail	Fail	Fail
MAISON du LAC Phase 1	Residential	Located on the South Side of Hwy 1085	Tammany Utilities (Timber Branch II)	UTR	150.31 (SW components added to the model as NPS)	Veg swales -> d-> Wp-> d -> Timber Branch (upstream of Weston Way outfall) -> UTR	Pass	Pass	Fail
MAISON du LAC Phase 2	Residential, 36 Lots	Located on the South Side of Hwy 1085	Tammany Utilities (Timber Branch II)	UTR	11.148	Veg Swales-> d-> Wp-> d -> Timber Branch (upstream of Weston Way outfall) -> UTR	Pass	Pass	Fail
Maison du Lac Phase 3	Residential, 50 Lots	Main entrance is off of LA 1085, west of LA 22 and South of Covington	Tammany Utilities (Timber Branch II)	UTR	11.148	Veg Swales-> d-> Wp-> d -> Timber Branch (upstream of Weston Way outfall) -> UTR	Pass	Pass	Fail
MARRIOTT TOWN PLACE SUITES (Completed)	New Hotel, Fremieux Town Center	I-10/ Fremieux - Slidell	City of Slidell	W-14	1.9 (Modeled 11/9/2016)	Wp-d	Pass	Pass	Fail
McALMAN OFFICE BUILDING (Complete)	Commercial; Multi-tenant facility, 47,333 sq. ft.	1155 US 190 East service rd. - Mandeville		Ponchitolawa	1.51 (Modeled 11/9/2016)	Wp-d	Pass	Pass	Fail
Mercedes Benz (in Pinnacle North du Lac)	Commercial, Car Dealership	8080 Westshore Dr. At the intersection of Westshore Drive and Pinnacle Pkwy	Approved	LTR	5.117	landscape buffer -> Wp-> d-> LTR @ #12	Pass	Pass	Fail
Middendorf's	Commercial; Restaurant	1951 Oak Harbor Blvd		Lake Pontchartrain	4.52	gravel parking lot -> Pond-> ditch (Oak Harbor Blvd & I-10)			
MONEY HILL Phase 6, Part 4 (Recorded 8/19/2016, File No 5562)	Residential, 23 Lots, 7.27 Acres		H2O	Abita River	9.081	d-Wp-d-d-d (I Hwy) -> Jacks Branch -> Abita River	Pass	Pass	Fail
MONEY HILL PLANTATION Phase 7A (9/9/2014, RECORDED)	Residential, 25 Lots	North of Hwy. 435, east of Hwy. 21, Covington	H2O	Abita River	23.097	d-Wp-d -> Jacks Branch -> Abita River	Pass	Pass	Fail
Money Hill Plantation, Ph 7B "Halden Lake"	Residential, 24 Lots	Located at the intersection of Campbell Drive and Fox Trot, west of Money Hill Parkway, near Talisheek, Louisiana	H2O	Abita River	24.907	d-> park-> greenspace -> d-> w to Abita Creek-> Abita River (Hwy 435/ (Talisheek Hwy))	Pass	Pass	Fail
NATCHEZ TRACE Phase 4 (Recorded 9/2/2015 File No 5425)	Residential, 23 Lots		central	LTR	6.78	d-Wp-d (Pine Crest Dr) -> LTR (@ Riverside Dr just s of I-12)	Pass	Pass	Pass
Neurorecovery Medical Facility	Commercial; Medical	648 Crestwood Blvd; off of hwy 190		Ponchitolawa Creecreek	1.701	SS-> roadside ditches (Crestwood) -> Ponchitolawa Creek (north of Garden Walk)	Pass	Pass	Fail
New Orleans Mission-Women's Pavilion	Commercial - 5 Acre Parcel (Old K Bar B Ranch in Lacombe) 31294 Hwy 190, Lacombe, LA	31294 Hwy 190, Lacombe, S. Side of I-12, East of Hwy 434, South of Hwy 190 on K Bar B Road.	Approved	Bayou Liberty	5.0 (Modeled 11/14/2016)	Wp-d	Pass	Pass	Fail
Nor du lac Shopping Center (Bldgs. A, H, J)	Commercial - Recently purchased and redeveloped by Cypress Equities	Northeast of intersection of I-12 and LA 21, Covington	UTL - Submitted number of units to TU for COS calculation, USA amendment signed but still needs revision to include master meter	LTR	Assume 3 among bldgs A, J & H	internal d-Wp-d -> LTR	Pass	Pass	Fail
Northpark; Lot 12 (Northpark Apartments)	Residential; 5.10 Acre; 218 Unit 4-Story w/4 Level Ramp Parking Apartment Complex	2021 Sullivan Lane., Covington	SELA: Approved	LTR	5.1 (Modeled 11/14/2016)	Wp-d	Pass	Pass	Fail
Northpark - Chevron - Project on hold indefinitely	Commercial; 8 Lots, 30,1348 acres; Additional 316,070 sq. feet for 860 additional employees; new parking for 1110	West of US 190 north of Holiday Blvd., Covington	SELA: Approved for work order	LTR	7.256 (Modeled 11/14/2016)	Wp-d	Pass	Pass	Fail
Northpark Phase 4B (Resubmitted)	1 Lot, Multi Family, 5.1 Acres	Located on w side of US Hwy 190, just north of Village Lane, south of Covington, LA	SELA	LTR	6.148 (Modeled 11/14/2016)	d-Wp-d	Pass	Pass	Fail
NORTHPOINTE Phase 4* (Fedex Distribution Center) (CO Issued 8/20/2015)	Commercial; 2 Lots (Fedex comprises one)	Northwest of LA 1077 and LA 1085, Covington			2 (assume)				
Oak Alley Meadows	Residential, 204 Residential Lots-2 Commercial Lots	Located on the north side of Hwy 190 approximately half a mile east of Hwy 25 US Hwy 190 (aka Ronald Regan Hwy) East of Covington High School	TRD (assume existing central)	UTR	87.06	d-> Wp-> d -> Rattlesnake Branch -> UTR	Pass	Pass	Fail
Oak Ridge / Southern Oaks (4/06/2016)	Residential; 133 Lots (Individual-Sewer-Guste Island WW)	Southwest corner of Hwy. 22 & Trapagnier Rd, Madisonville (just upstream of Coquille)	Bayou Liberty Water, Guste Island WW	LTR	69.78	d-Dp-d-HW of finger of Black River -> LTR	Pass	Pass	Pass
Oaklawn Trace	Residential; 160 Lots	South of 190, east of Transmitter Rd., Slidell	NEES	Cypress Bayou	81.73 (Modeled 11/14/2016)	d-Wp-d	Pass	Pass	Pass
Ochsner Clinic Expansion	Commercial, 58,100 Sq Ft addition- new clinic, business suites & 33,100 sq gym & atrium	Ochsner Blvd off of Hwy 21	Approved	LTR	66.13	d-> Wp-> d	Pass	Pass	Fail
Ochsner Boulevard - Office Building	4,031 sq ft	1311 Ochsner Blvd (off of hwy 21)	Approved	LTR		< 0.1 acre... too small to impact			
O'Reilly Auto Parts	Commercial Auto Parts Store; 10,000 sq ft (Individual LPDES)	Gause Blvd, Slidell, near Amber St/Pearl Acres	Approved	W. Pearl River					
PENN MILL PLACE (7/6/17 File No 5654)	Residential; 58 Lots; 32 acres	North Side of hwy 190, Covington, near Pruden Road	H2O-Water & Tammany Utilities-Sewer	UTR	32	veg swales between homes-> SS & partial internal ditches-> Dp Wex-> SD ditch-> Pruden Creek-> Horse Branch-> UTR	Pass	Pass	Fail
PERRILOUX TRACE	Residential, 25 Lots	East side of Perilloux Rd and south of Brewster Rd, west of Madisonville, LA	Tammany Utilities	LTR	10	(disch into NW HW finger of Black River at NW corner of Pine Creek SD) -> LTRP -> d -> LTR	Pass	Pass	Pass
Pet Cemetery (NEED better site plan & buffer study)	Public Facilities	Located on the north side of Harrison Avenue, west of Flowers Drive	Approved for site work only 12/12/2017	Abita River	11.08	overland flow on sites & gravel parking-> roadside ditch (Harrison Blvd) -> Abita River	Pass	Pass	Fail

DEVELOPMENT 12/12/2017	SCOPE	LOCATION	UTILITIES PROVIDER	WATERSHED MODEL	Dev. Size	BMP Treatment Train to Receiving Stream (4)	DO Standard (Pass/ Fail)		
					acres		Anti Deg	EPA Standard	Watershed
Pet Suites of America (West area)	Pet Resort & Spa		Approved (Tammany Utilities)	Ponchitolawa Creek	West Area: 1.62 acres	West area: low-flow chaquonell (pond) -> offsite wetland area/ditch -> PC	Pass	Pass	Fail
Pet Suites of America (East area)	Pet Resort & Spa	975 Hwy 190 East Service Road; northwest quadrant of I-12 across from lowes	Approved (Tammany Utilities)	Ponchitolawa Creek	East Area: 0.38 acres	sheet flow from pad -> ditch -> Ponchitolawa Creek -> LTR	Pass	Pass	Fail
PINE CREEK Ph 2B & 2C (2B RECORDED 1/14/15, 2C RECORDED 7/30/2015)	Residential; 2B 27 Lots. 2C 34 Lots	North of LA 22, east of Perilloux Rd., Mandeville		LTR	2B: 11.881 2C: 16.439	d - conservancy -> finger Blk River -> LTR	Pass	Pass	Pass
Planet Fitness	Interior Remodel	409 N Hwy 190; in old Rooms to Go Building next to 2nd and Charles Bookstore		n/a					
Pontchartrain Medical Park	Residential; 165 Lots	The property is bounded on the south by Lakeview Drive on the north by Hickory Drive, north of Mandeville, Louisiana	Tammany Utilities	Tete L'Ours	16.2	N: d -> Dp -> d along Hickory St -> d (Hwy 190) -> BTL	Pass	Pass	Fail
Preston Vineyard (Formerly Long Leaf)	Residential; 165 Lots; 82.759 Acres	Located on Hwy 190, west of Hwy 1077 and north of the Town of Madisonville	Tammany Utilities	E. Bedico Creek	82.76	S: Wp -> wetland -> Hw EBC			
Preston Vineyard (Formerly Long Leaf)	Residential; 165 Lots; 82.759 Acres	Located on Hwy 190, west of Hwy 1077 and north of the Town of Madisonville	Tammany Utilities	E. Bedico Creek		N: Wp -> Hw EBC			
Preston Vineyard (Formerly Long Leaf)	Residential; 165 Lots; 82.759 Acres	Located on Hwy 190, west of Hwy 1077 and north of the Town of Madisonville	Tammany Utilities	E. Bedico Creek		E: P -> wetland -> EBC			
Preston Vineyard (Formerly Long Leaf)	Residential; 165 Lots; 82.759 Acres	Located on Hwy 190, west of Hwy 1077 and north of the Town of Madisonville	Tammany Utilities	E. Bedico Creek		W: Wp -> piped betw houses -> Hw EBC			
PRUDEN CREEK SD (Recorded 4/05/2016, File No. 5571)	Residential; 60 Lots	South of Penn Mill Rd., east of Tchefuncte River, North of US 190N, Covington	H20	UTR	34.88 (Modeled 11/19/2016)	d-Wp-d -> Horse Branch -> UTR	Pass	Pass	Fail
Redemption Church	Commercial; 17,344 sq ft Church	62060 HWY 434; 1 mile south of I-12 on Hwy 434 on the east side of Hwy 434	Approved	Bayou Lacombe	20.65	Concrete parking -> veg. swale -> Wp -> roadside ditch (Hwy 434) -> Bayou Lacombe	Pass	Pass	Pass
Retail Center (Need additional information)	Commercial Retail Center (Vanilla Box Building-5 potential tenants)	71170 HWY 21 and 71174 HWY 21; Between Boolegger Road and Bridge	Approved						
Rigolets Estates Phase 3-A1	Residential; 35 Lots (16.89 Acres)	Located on the south side of LA Hwy 433 and approximately 1 Mile West of U.S. Hwy 90 intersection, southeast of Shidell, LA		Lake Pontchartrain					
RIVER CHASE	Commercial, Residential, Multi Family	1776 Continental Dr., South side of Brewster Rd., east of River Chase Drive	UIL	LTR	177 (Modeled 11/19/2016)	Wp-Wp-dry canal -> LTR	Pass	Pass	Fail
RIVER CHASE Parcel 9 (2016-28306 12 Story - (Shell Only - Completed); 2017-32166 (Tenant Build out for DDG- Completed); 2017-32636 (Monument Sign-Completed); 2017-32826 (Tenant Build out for Vanilla Box-Completed)	Office Space; 44,500 Sq. Ft.	16564 E Brewster Road, South side of Brewster Rd., east of River Chase Drive	UIL	LTR	1,022 (Modeled 11/19/2016)	Wp-Wp-dry canal -> LTR	Pass	Pass	Fail
RIVER CLUB Phase 1 (Formerly called River Place) (11/18/2015 File#5462)	Residential; 57 Lots	Located on southside of Tchefuncte Interchange, Covington	Utilities, Inc.	LTR	48.75	d-Wp-d -> LTR (just below I-12)	Pass	Pass	Fail
RIVER CLUB, Ph 4A (Recorded 3/28/2018)	PUD; 37 Lots	This property is located south of East Brewster Road and east of LA Hwy 21, north of Madisonville, LA	Utilities, Inc.	LTR	8,064	d -> canal/oxbow/Wp -> Wp -> LTR	Pass	Pass	Fail
RIVER PARK CROSSING Phase 1 (approved 8/9/13/16 PCM (formerly Planche Estates) (Recorded 2/06/2017; File No. 5606)	Residential; 49 Lots	South side of MP Plance Rd, west of LA Hwy 25, and northwest of Covington, LA	H20	Bogue Falaya	38.15 (Modeled 11/19/2016)	d-Dp-d	Pass	Pass	Fail
RIVER PARK ESTATES Ph. 1 (RECORDED 3/1/2017 File No. 5613)	Residential Lots; 81	Located on the west side of Hwy 25 off of MP Planche Road & North of the City of Covington	Individual Water and Sewer	Bogue Falaya	22.69 (Modeled 11/19/2016)	d-Dp-d -> BFR	Pass	Pass	Fail
ROOMS TO GO @ River Chase (2016-27661 Building Permit; Occupancy Granted on 4/11/2017)	Commercial, Retail	69631 Stirling Blvd; South side of Brewster Rd., east of River Chase Drive	UIL	LTR	3,252 (Modeled 11/19/2016)	Wp-Wp-dry canal -> LTR	Pass	Pass	Fail
RUELLE COURT (Recorded 7/30/2016, File No. 5554)	Residential; 12 Lots	On southside of Brewster Rd., west of Perilloux Rd., east of LA 1085, Madisonville	SELA	LTR	4.67	d-Dp-d (Hwy 22) -> Blk River -> LTR	Pass	Pass	Pass
Saltgrass Steak House	Commercial; Restaurant	7947 Pinnacle Parkway @ corner of Westshore Drive, Covington	central	LTR	1 (est.)	SS -> dry planted detention areas -> TR @ I-12	Pass	Pass	Fail
SIMPSON FARMS	Residential; 106 Lots	North of US 190B, east of Pruden Rd., Covington	H20	UTR	51.28 (Modeled 11/19/2016)	d-Dp-d -> Horse Branch -> UTR	Fail	Pass	Fail
Southern Gardens PUD	Residential; 50 Lots	NW corner of LA Hwy 21 and Lallanne Rd. N of Madisonville	Tammany Utilities 1085	LTR	15.5	veg. swale (brow homes) -> SS -> Wp -> roadside ditches -> Black River -> LTR	Pass	Pass	Pass
Southern Oaks Phase I (formerly Oak Ridge)	Residential; 444-446-34 conventional, 24 garden	South Side of Hwy 22, west of Trepagnier Rd and east of Helen Dr.	Guste Island	LTR	60.78 - 27.61 Total	SS (27.81) d -> Wp -> d -> Black River -> LTR N: (44.90); d -> Wp -> d -> Black River -> LTR	Pass	Pass	Pass
SPRING HAVEN Phases 1 & 2 (Once called Autumn Creek) (Lemire SD was approved & modeled for impacts as a whole. Ph1 RECORDED 12/19/2014)	Residential; 141 Lots	North of Hwy. 22, West of LA 21, Madisonville	Water: Tammany Utilities; Sewer: Guste Island	LTR	23.31 (Modeled 11/14/2016)	d-Wp-d -> Black River -> LTR	Pass	Pass	Pass
SPRING LAKE (formerly Bedico Ranch) (Recorded 7/10/2015)	Residential; 260 Lots	North of I-12 off of LA 1077 along Taniella Ranch Rd., Folsom		E Bedico Creek					
SPRINGS @ River Chase 2015-24565 thru 24579, Buildings 1-14 (Completed); 2015-24580 Clubhouse (Completed)	Commercial, Residential, Multi Family			LTR					
STP Hospital Outpatient Rehabilitation Building	Commercial; Institutional	1 N Azalea Drive; <u>Flowers Estates</u>		UTR	1.28	Concrete parking -> SS -> Dry Ponds (N & S) - outfall from S pond) Gardemia Dr. -> Flowers Bayou -> UTR north of I-12	Pass	Pass	Fail
Tamandend Business Park	Commercial, Residential, Industrial, Retail STAC	West of LA 434, north of I-12, Lacombe	Tammany Utilities	Bayou Lacombe	40 (Modeled 11/14/2016)	d-d	Pass	Pass	Pass

DEVELOPMENT 12/12/2017	SCOPE	LOCATION	UTILITIES PROVIDER	WATERSHED MODEL	Dev. Size acres	BMP Treatment Train to Receiving Stream [4]	DO Standard (Pass/ Fail)		
							Anti Deg	EPA Standard	Watershed
Tammany Phase 1* (Including STAC)	Commercial, Residential, Industrial, Retail, STAC	65296 Hwy 434 East of LA 434, north of I-12, Lacombe	Sewer/Water lines being installed presently/Water Tower Installed/Well to be drilled soon. Treatment plant options being looked into in Phases.	Bayou Lacombe		Wp-Wp-dry canal -> B Lacombe	Pass	Pass	Pass
TERRA BELLA Phase 1-A-3 (RECORDED)	Retail: State Bank	On LA 1085 east of Rousseau Rd., Covington	Tammany Utilities	UTR	0.74	d-ddd-d -> Soap&Tallow -> UTR	Pass	Pass	Fail
TERRA BELLA Phase 1-A-5 (Recorded 10/23/2015 File number 5449)	Residential; 18 Lots	On LA 1085 east of Rousseau Rd., Covington	Tammany Utilities	UTR	6.644	d-Wp-Soap&Tallow-UTR	Pass	Pass	Fail
TERRA BELLA Phase 1-A-6 (RECORDED 1/9/15)	Residential: Multi-family for 172 units: Studio - 12; 1 bedroom - 73; 2 bedroom - 87; 3 bedroom - 6	On LA 1085 east of Rousseau Rd., Covington	Tammany Utilities	UTR	12.65	SS-Wp -> Soap&Tallow -> UTR	Pass	Pass	Fail
TERRA BELLA Phase 1-A-7 (9/11/2015 File No. 5428)	Residential; 18 Lots	On LA 1085 east of Rousseau Rd., Covington	Tammany Utilities	UTR	6.717	d-Wp -> Soap&Tallow -> UTR	Pass	Pass	Fail
TERRA BELLA Phase 1-A-8	Residential; 2 Lots	On LA 1085 east of Rousseau Rd., Covington	Tammany Utilities	UTR	5.77 (Modeled 11/14/2016)	d-Wp-d	Pass	Pass	Fail
TERRA BELLA Phase 1-A-9	Residential; 32 Lots	On LA 1085 east of Rousseau Rd., Covington	Tammany Utilities	UTR	10.557	d-Wp-d			Fail
TERRA BELLA Phase 1-A-10	Residential; 23 Lots	On LA 1085 east of Rousseau Rd., Covington	Tammany Utilities	UTR	7.18				Fail
Terra Mariae Phase 3 (Now Alexander Ridge 2/14/2017)	Residential; 103 Lots	West of LA 1081 north of Thibodeaux Rs., Covington	Tammany Utilities	Bogue Falaya	48.0 (Modeled 11/14/2016)	d-Wp-d	Pass	Pass	Fail
THE ESTATES of WATERCROSS, Phase 1A (Recorded 11/21/2016, File No. 5589)	Residential; 26 Lots	Northeast corner of I-12 and LA 21, east of Nor du Lac shopping center, west of Tchecfunctue River, Covington	UIL	LTR	10.01	d-wetland-trib -> LTR	Pass	Pass	Fail
THE ESTATES of WATERCROSS, Phase 1B	Residential; 30 lots; 9.38 Acres	The property is located on the northern end of Westshore Drive and east of LA Hwy 21, south of Covington, LA	UIL	LTR	9.38 (Modeled 11/14/2016)	d-Dp -> wetland -> LTR	Pass	Pass	Fail
The Landings of Cross Gates Phase 5	Residential; 50 Lots	Northeast corner of I-10 and LA 1090, Slidell	Cross Gates	W. Pearl River					
The Preserve at River Chase (S outfall)	Residential; 76 Lots	south side of East Brewster Rd., west of the Tchecfunctue River and south of Covington, LA	UIL	LTR	19	S-Wp -> south to d/Christwood -> LTR	Pass	Pass	Fail
The Preserve at River Chase (N outfall)	Residential; 76 Lots	south side of East Brewster Rd., west of the Tchecfunctue River and south of Covington, LA	UIL	LTR	11.28	N: Wp -> d - d (north to I-12 service Rd) -> LTR	Pass	Pass	Fail
The Village at Pelican Trace	Residential; 49 Lots/6.11 Acres	South of LA Hwy 1088, West of I-12, and east of the City of Mandeville	Tammany Utilities	Bayou Castine	4.97	N: Wp -> d (roadside) - d (Hwy 1088) -> BC	Pass	Pass	Pass
The Willows	Residential; 25 Lots	Northeast of I-12 and 1085 overpass	Tammany Utilities	Bedico Creek	17.055				
TIMBER BRANCH, Phase1 (recorded 1/6/1993)	Residential 31, comm 5	Northeast of I-12 and 1085 overpass	central	UTR	25.383	d -> Wpond -> veg swale -> Timber Branch	Coded into Calibration Model		
TIMBER BRANCH, Phase2 (recorded 3/18/1998)	Residential 5 lots	Northeast of I-12 and 1085 overpass	central	UTR	1.703	d -> Wpond -> veg swale -> Timber Branch	Coded into Calibration Model		
TIMBER BRANCH, Phase3 (recorded 9/15/1998)	Residential 29 lots	Northeast of I-12 and 1085 overpass	central	UTR	16.583	d -> Wpond -> veg swale -> Timber Branch	Coded into Calibration Model		
TIMBER BRANCH, Phase4 (recorded 7/2/1998)	Residential 2 lots	Northeast of I-12 and 1085 overpass	central	UTR	1.667	d -> Wpond -> veg swale -> Timber Branch	Coded into Calibration Model		
TIMBER BRANCH, Phase5 (recorded 5/19/1999)	commercial 14 lots	Northeast of I-12 and 1085 overpass	central	UTR	20.475	d -> Wpond -> veg swale -> Timber Branch	Coded into Calibration Model		
TIMBER BRANCH, Phase6 (recorded 10/12/1999)	Residential 22 lots	Northeast of I-12 and 1085 overpass	central	UTR	8.271	d -> Wpond -> veg swale -> Timber Branch	Coded into Calibration Model		
TIMBER BRANCH, Phase7 (recorded 9/14/2000)	Residential 25 lots	Northeast of I-12 and 1085 overpass	central	UTR	9.35	d -> Wpond -> veg swale -> Timber Branch	Coded into Calibration Model		
Timber Branch II			central	UTR	69.19 WQC (144 acres Full development)	SS -> Wpond -> veg swale -> Timber Branch -> UTR	Fail	Pass	Fail
Tolowa Place Subdivision NEED site plan, Hydro study & size of development	Commercial, Additional Parking for Zennoh Grain Corporation	On Hwy 190 Service Rd. SE of I-12. Runs North off of Bodet Lane		Ponchitolowa					
Turtle Creek Apartments	Commercial-Apartment Complex	4424 Hwy 22 (Mandeville-Near Dalwell Drive)	Cross Gates	W. Pearl River					
TURTLE CREEK Phase 5-2 (RECORDED 10/16/14)	Residential: 30 Lots	East of LA 1090, north of US 190B, South of I 10, Slidell	Cross Gates	W. Pearl River					
Valero Gas Station (On hold per Chris Tisser)	Commercial; Gas Station	Southwest corner of Hwy 59 & Lonesome Road.	Not yet submitted	Tele L'Ours					
VERSAILLES BUSINESS PARK* LC 2015-24763 (Portion of Lot 16) Complete; LC 2015-23348 (clearing of roads) Complete. RECORDED 8/3/2016 File No. 5586	Commercial	Northwest corner of I-12 and US 190, Covington	UIL	LTR	61.65 (Modeled 11/14/2016)	Wp-d	Pass	Pass	Fail
Versailles Business Park-Lot 7	Apartment Complex; 272 Units	Northwest corner of I-12 & Us Hwy 190	UIL	LTR	24.512				
Versailles Business Park-Lot 10A (Globalstar)	Commercial; 3 Story Office Building; first two levels-build-outs, 3rd level-completed shell for future use	1313 Holiday Blvd; Northwest corner of I-12 & Us Hwy 190	UIL	LTR					
Versailles Business Park, Phase 2 (Globalstar)	Commercial; 1 Lot	Located in the northwest quadrant of I-12, and Hwy 190 just east of Ave De Bellevue and south of Covington	UIL	LTR					
Versailles Business Pkwy Apartments (22 Apt. Buildings, 1 Club House, 3 Garages, 1 Maint Bldg)	Under Review; Commercial; Apartment Complex	1612 Versailles Buis. Pkwy. By Homewood Suites off of holiday sq blvd	UIL	LTR					
Versailles-Multi Family(Proposed Versailles Business Park)	Residential-Multi Family; 302 Units; 21: 8 Lots	Northwest corner of I-12 & Us Hwy 190, Covington	UIL; Approved	LTR	12.61 (Modeled 11/14/2016)	Wp-d	Pass	Pass	Fail
VILLAGE of NORMANDY OAKS (Warranty was released 2/08/2017)		Issue is whether the fountain installed by Wainver (developer) can remain in the pond if it is under ownership of the Parish. Plat is being checked to see if maintenance servitude can replace the ownership by Parish Government. The maintenance servitude will preclude the need for insurance, etc. to protect the Parish.		LTR	No need to be modeled		In Model		
VILLAGE of NORMANDY OAKS Phase 2C (Approved 10/14/14 - RECORDED)	Residential; 17 Lots	Near the northwest corner of LA21 and Ochsner Blvd. Covington	Utilities, Inc.	LTR	5.5	d-Wp -> Flowers Bayou -> LTR	Pass	Pass	Fail
VILLAGES of BOGAGE Phase III (RECORDED 4/16/2015)	Residential; 65 Lots			E Bedico Creek					
WADSWORTH* (Recorded 6/30/2016, File No. 5550)	Industrial	North side of the I-12 / LA 1088 interchange, Lacombe		Bayou Castine	160.0587	d-Wp-Wp-ddd-d(1-12) -> BC	Pass	Pass	Pass
WALK-ONS@ RIVER CHASE (2016-30455; Occupancy Certificate = 09/25/2017)	Commercial, Restaurant	69796 Stirling Blvd. In River Chase Shopping Center, at the intersection of Stirling and Brewster Road across from Sam's	UIL	LTR	2 (assume)	Wp-Wp-dry canal -> LTR	Pass	Pass	Fail

DEVELOPMENT 12/12/2017	SCOPE	LOCATION	UTILITIES PROVIDER	WATERSHED MODEL	Dev. Size	BMP Treatment Train to Receiving Stream [4]	DO Standard (Pass/ Fail)		
					acres		Anti Deg	EPA Standard	Watershed
WESTON GLEN, Phase 2A (Recorded 2/21/2017 file no. 5610)	Residential; 24 Lots; 10 Acres	Off of Hwy 1085	Tammany Utilities	UTR	32.535 (Modeled 11/14/2016)	d-Wp-d --> Timber Branch --> UTR	Pass	Pass	Fail
Whispering Forest (Resubmitted)	Residential; 13 Lots; .45 Acres	South side of Joiner Wymer Rd., West of 1077	Tammany Utilities	Bedico Creek	7.98				
Wingfield (Revised PUD)	Residential; 47 Lots	Located on n side of Joiner Wymer Rd and bisected by Bedico Creek. w of Covington, LA	Tammany Utilities	Bedico Creek	163.45				



St. Tammany Parish 2018 MS4 Annual Report C.6 Municipal Good Housekeeping & Pollution Prevention



C.6 Municipal Good Housekeeping & Pollution Prevention

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Municipal Good Housekeeping & Pollution Prevention	Maintenance of roads, ditches, & storm sewers	Complete work orders for road & drainage infrastructure		2018-2023	Ongoing. The STP Department of Public Works performs maintenance & repairs as needed.
Municipal Good Housekeeping & Pollution Prevention	Maintenance of SW Ponds, wet & dry detention	Complete work orders for pond maintenance.		2018-2023	Ongoing. The STP Department of Public Works performs maintenance & repairs as needed.
Municipal Good Housekeeping & Pollution Prevention	BMP retrofits to Parish barns	Installation of WQ & environmental upgrades to maintenance barns	X	2018-2023	As Needed. Maintenance barn wash bays to be retrofitted with pretreatment BMPs for pollution prevention.
Municipal Good Housekeeping & Pollution Prevention	Complaint response	Investigations of SW & WQ complaints by STP inspectors		2018-2023	Ongoing. Pollution prevention results from corrective actions following a violation of SW or WQ.
Municipal Good Housekeeping & Pollution Prevention	SW and MS4 training	In-house training to qualify appropriate staff and MS4 liaisons in SW & MS4 compliance.	X	2018-2023	As Needed. Training staff in-house. Key staff will be trained to inspect municipal facilities for SW & MS4 requirements.
Municipal Good Housekeeping & Pollution Prevention	Capital projects that have WQ & SW benefits.	Capital projects are reviewed for potential WQ & SW benefits.		2018-2023	Ongoing. Projects include detention (dry)/retention (wet) ponds, grassy swales, wastewater to wetlands, drainage infrastructure, SWPPPs required for subdivision/ commercial/ industrial/ institutional development road/ bridge/ drainage projects.
Municipal Good Housekeeping & Pollution Prevention	Indoor vehicle maintenance	Keep vehicles running efficiently to prevent oil leaks, etc.		2018-2023	Ongoing. The STP Department of Public Works performs maintenance & repairs as needed.
Municipal Good Housekeeping & Pollution Prevention	Facilitate Interdepartmental communication	MS4 Liaisons from STP departments to participate in reporting procedures.	X	2018-2023	Ongoing. Implemented MS4 report to the Watershed Coordinator projects or protocols implemented in their respective departments.

C.6 Municipal Good Housekeeping & Pollution Prevention continued

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Municipal Good Housekeeping & Pollution Prevention	Municipal facility maintenance & covered storage for chemicals.	Facility maintenance & covered storage prevent stormwater pollution.		2018-2023	Ongoing. The STP Department of Facility Management performs maintenance & repairs as needed to STP facilities.
Municipal Good Housekeeping & Pollution Prevention	Volunteer Litter Abatement Program	Adopt-a-Road, Community Service, & Keep St Tammany Beautiful clean litter from roadways, shoulders, & ditches.	X	2018-2023	Ongoing. Keep St Tammany Beautiful augments litter abatement by Adopt-a-Road & Community Service volunteers. Volunteer programs reduce workload for Public Works.
Municipal Good Housekeeping & Pollution Prevention	Clean-up & disposal of animal carcasses	Animal carcasses are removed from roads, shoulders, & ditches to be incinerated.		2018-2023	Ongoing. The STP Department of Animal Services performs carcass clean-up as needed with on-site incineration.
Municipal Good Housekeeping & Pollution Prevention	Funds are used for WQ, SW, & MS4 compliance.	Monies are budgeted from appropriate accounts for WQ, SW, & MS4 compliance.		2018-2023	Ongoing. The STP Department of Finance is responsible for the allocating monies from the appropriate accounts.
Municipal Good Housekeeping & Pollution Prevention	Grant funding is secured for WQ, SW, & MS4 compliance.	Grant funding projects include pollution source tracking, drainage and watershed studies, etc.		2018-2023	Ongoing. Grant proposals are facilitated by the STP Grants Department. Funding is provided in targeted watersheds for repairs or replacement of failing individual sewer systems in low to moderate income areas with drainage needs.
Municipal Good Housekeeping & Pollution Prevention	SW Pond retrofits with BMPs	Ponds retrofitted with SW BMPs. BMP selection is based on removal efficiencies.	X	2018-2023	Ongoing. Vegetated planting of dry ponds & floating wetlands or aeration added to wet ponds. WQ sampling/ monitoring conducted to determine effluent quality and quantify removal efficiencies. Final reports are available on the STP SW website.

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Municipal Good Housekeeping & Pollution Prevention	WQ Pond Prioritization and BMP retrofit projects	Ponds in STP maintenance system prioritized for WQ improvement to address Scenic Rivers, TMDLs, & WLAs.	X	2018-2023	Ongoing. SW ponds in the Parish maintenance system have been inventoried and prioritized for WQ improvement to address Scenic Rivers, TMDLs, & WLAs. Priority 1 ponds discharge into Scenic or TMDL Rivers, are surrounded by unsewered SDs, and have a HS monitoring station nearby. BMP implementation (vegetated Planting of dry ponds and aeration of wet ponds) continued to be funded. WQ sampling & monitoring continued to determine effluent qualities and removal efficiencies. Results will be added to the Parish BMP database).
Municipal Good Housekeeping & Pollution Prevention	Water Quality Impact Modeling (WQIM) on new & redevelopments, particularly Scenic Rivers & TMDL and/or WLA waterways	Based on modeling, BMPs are selected to prevent degradation on Scenic Rivers &/or meet WLA limits.	X	2018-2023	Ongoing. WQIM implemented for new and redevelopments (SDs/ commercial/ industrial/ institutional) to maintain compliance with antidegradation policy and DO standards as required by TMDLs & WLAs.
Municipal Good Housekeeping & Pollution Prevention	SWMP Evaluation	Evaluate measureable goals, MCMs, & the effectiveness of SWMP BMPs		2018-2023	Annually. Evaluate and assess annually and perform SWMP revisions as needed to facilitate MS4 compliance & water quality improvement.
Municipal Good Housekeeping & Pollution Prevention	Pollution Source Tracking Program	To improve WQ on targeted watersheds.	X	2018-2023	Ongoing. Targeted watersheds include Bayou Liberty, Ponchitolawa Creek, the Lower Tchefuncte River, Bayou Castine, Bayou Chinchuba, & the Abita River watersheds.



Complaint Log by Action ()
Date Range: 01/01/2018 - 12/31/2018
Department of Public Works
01/31/2019 16:29

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 7830

Complaint

Date 12/22/2018 Type Sewer Source Public Works
District(s) Follow-up Date: 1/6/2019 Date Completed

External System Numbers

Work Order No: Code Enforcement Case No:

Resident's Name Connie Burkenstock

Address 1525 Regatta Cove

Phone # (504) 377-7270

Email Address bgburke1@bellsouth.net

Subdivision Clipper Estates

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description 1/8/19: There is a broken pipe in her front yard. She is afraid someone is going to fall and get hurt. 12/22/18: Water main broken, water turned off and now not potable. Need this situation investigated immediately before someone in this area gets ill. There have been no "boil water" orders, nor has the outage been reported to your department. We were told by Coast Water Works, to just drain our hot water heaters and lines before using. This is an OUT RAGE!! I have a sample from interior faucet this morning.

Assigned To Environmental Services

Action Resolved

Resolutions 12/26/18: I contacted Ms. Burkenstock and will forward this message to LDH. Tina St.Clair Environmental Services Coordinator St. Tammany Parish Government 21454 Koop Drive, Mandeville, LA 70471 p: 985-898-2535: e: tstclair@stpgov.org www.stpgov.org

Entered By:	Date:	Modified By:	Date:
ajburke	12/26/2018	ajburke	1/11/2019

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 7684

Complaint

Date 12/2/2018 Type Sewer Source Public Works
District(s) 6 Follow-up Date: 12/17/2018 Date Completed

External System Numbers

Work Order No: Code Enforcement Case No:

Resident's Name David Daroca

Address 371 Long Lake Dr.

Phone # (985) 209-0706

Email Address djdsr@att.net

Subdivision Abita Lakes

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description No fresh water , no pressure. Cannot flush commodes. Why no information provided via gace book or web blast?????

Assigned To Environmental Services

Action Resolved

Resolutions

Entered By:	Date:	Modified By:	Date:
ajburke	12/4/2018	ajburke	12/4/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 7625

Complaint

Date 11/26/2018 Type Sewer Source STP Council Office
District(s) 14 Follow-up Date: 12/11/2018 Date Completed

External System Numbers

Work Order No:

Code Enforcement Case No:

Resident's Name Jennifer Williams

Address 1403 Dunkirk St.

Phone # (504) 300-6010

Email Address

Subdivision

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description She's having sewerage back up in her home. She had someone go out to her home to make sure it was not an internal issue and they advised her to contact St. Tammany Parish. Can someone please call Ms. Williams back as soon as possible.

Assigned To Tammany Utilities

Action Resolved

Resolutions From: Tim Brown<tbrown@stpgov.org> Sent: Monday, November 26, 2018 3:01 PM To: Ashley Gonzales<agonzales@stpgov.org> ; drainagecomplaint<drainagecomplaint@stpgov.org> Cc: Thomas J. Smith (External Email) <aloe_vera@att.net> ; Thomas J. Smith<tjsmith@stpgov.org> ; Katrina L. Buckley<kbuckley@stpgov.org> Subject: RE: 1403 Dunkirk Street - sewerage backup into home Ashley, I called and spoke to Ms. Williams. Her service provider is Utilities, Inc. (UIL) I let her know that I would pass her information on to them and that she should call them with any sewer issues.

Entered By:	Date:	Modified By:	Date:
ajburke	11/27/2018	ajburke	11/27/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 7433

Complaint

Date 10/30/2018 Type Sewer Source STP Council Office
District(s) 5 Follow-up Date: 11/14/2018 Date Completed

External System Numbers

Work Order No:

Code Enforcement Case No:

Resident's Name Charles Acosta

Address Colonial Court and Hickory

Phone #

Email Address charles.a.acosta@charter.net

Subdivision Colonial Court

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description Please ensure they replace this broken fence. It is an eyesore. The 6' fence and gate must be replaced. It is designed to keep fumes up and away from neighbors. The horrific fumes are permeating and disburseing throughout the neighborhood as a result of this broken fence. It must be replaced ASAP.

Assigned To Tammany Utilities

Action Resolved

Resolutions 11/1/18 Tim Brown: The broken fence boards have been replaced. Also, a notice to proceed will be issued within the next few weeks for the upgrade of this lift station. Additional fence needs will be addressed at that time.

Entered By:	Date:	Modified By:	Date:
ajburke	10/30/2018	ajburke	11/1/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 7420

Complaint

Date 10/29/2018 Type Sewer Source Public Works
District(s) 5 Follow-up Date: 11/13/2018 Date Completed

External System Numbers

Work Order No:

Code Enforcement Case No:

Resident's Name Kelly Saunier

Address 101 and 107 Remmy Court

Phone # (337) 274-5114

Email Address KELMARPET70@gmail.com

Subdivision Remington Court

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description The sewer lid adjacent to the mailbox is submerged with water. A distinct sewer smell and puddles are present.

Assigned To Tammany Utilities

Action Resolved

Resolutions

Entered By:	Date:	Modified By:	Date:
ajburke	10/29/2018	ajburke	10/29/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 7398

Complaint

Date 10/25/2018 Type Sewer Source Public Works
District(s) 11 Follow-up Date: 11/9/2018 Date Completed 10/26/2018

External System Numbers

Work Order No: 313485

Code Enforcement Case No:

Resident's Name John Kirkpatrick

Address 5701 Wesley Lane

Phone # (918) 576-1235

Email Address johnlk2@netscape.net

Subdivision Belair

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description Sewer is overflowing sewage in my front yard, please get it fixed.

Assigned To Area 3 Barn Airport

Action Resolved

Resolutions

Entered By:	Date:	Modified By:	Date:
ajburke	10/26/2018	ajburke	10/26/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 7359

Complaint

Date 10/22/2018 Type Sewer Source Public Works
District(s) 1 Follow-up Date: 11/6/2018 Date Completed

External System Numbers

Work Order No:

Code Enforcement Case No:

Resident's Name Richard Cyr

Address 668 Longue View Place

Phone # (985) 966-8047

Email Address dcyr@stirlingprop.com

Subdivision Arbor Walk

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description As a board member of the Home Owners Association at Arbor Walk I am requesting that the leaking domestic water line at 608 Longue View Place, Madisonville, LA 70447 be repaired now that it has been three weeks since a Tammany Utilities vehicle stopped and spray painted a white box around the leaking line that has been draining water into the street unchecked since before his arrival.

Assigned To Environmental Services

Action Resolved

Resolutions

Entered By:	Date:	Modified By:	Date:
ajburke	10/23/2018	ajburke	10/23/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 6910

Complaint

Date 9/13/2018 Type Sewer Source Area 1 Barn Covington
District(s) 5 Follow-up Date: 9/28/2018 Date Completed 9/14/2018

External System Numbers

Work Order No: 309954

Code Enforcement Case No:

Resident's Name Mark Roberts

Address 19186 5th Avenue

Phone # (985) 635-9305

Email Address

Subdivision

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description His sewer is backing up.

Assigned To Area 1 Barn Covington

Action Resolved

Resolutions

Entered By:	Date:	Modified By:	Date:
ajburke	9/17/2018	ajburke	9/19/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 6569

Complaint

Date 8/18/2018 Type Sewer Source Public Works
District(s) 7 Follow-up Date: 9/2/2018 Date Completed 8/24/2018

External System Numbers

Work Order No: 308582

Code Enforcement Case No:

Resident's Name Karly Segrave

Address 2230 Tortoise Dr.

Phone # (985) 705-8857

Email Address Ke3grav3@gmail.com

Subdivision Tailwood

RIN - Cross Street Nelson St.

☐ Resident Contacted ☐ New Construction

☐ Already reported? To:

Description The sewage treatment plant is stinking really really bad and seems like it's seeping into the ditch.

Assigned To Area 3 Barn Keller

Action Resolved

Resolutions

Entered By:	Date:	Modified By:	Date:
ajburke	8/23/2018	ajburke	8/27/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 5589

Complaint

Date 6/14/2018 Type Sewer Source Area 1 Barn Hwy. 59
District(s) 4 Follow-up Date: 6/29/2018 Date Completed 6/14/2018

External System Numbers

Work Order No: 302991

Code Enforcement Case No:

Resident's Name Thomas Evenson

Address 109 Bayou Perez Drive

Phone # (985) 635-1178

Email Address

Subdivision

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description Sewer dumping into drainage ditch/culvert adjacent to 111 and 109 Bayou Perez Dr.

Assigned To Tammany Utilities

Action Resolved

Resolutions 6/25/18 Carl Singletary: Sewer leak, called Allen Jube Tammany Utilities, he is sending crew to site. 6/18/18: Carl Singletary: Called into Tammany Utilities.

Entered By:	Date:	Modified By:	Date:
ajburke	6/18/2018	ajburke	6/25/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 4977

Complaint

Date 4/17/2018 Type Sewer Source Public Works
District(s) 5 Follow-up Date: 5/2/2018 Date Completed

External System Numbers

Work Order No:

Code Enforcement Case No:

Resident's Name Kelly Spencer

Address 1533 Franklin Street

Phone # (985) 516-9749

Email Address kelly.l.spencer1337@gmail.com

Subdivision

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description I am requesting a evaluation to see if my house can be con ected to city water and sewage that is avaiable.

Assigned To Environmental Services

Action Resolved

Resolutions

Entered By:	Date:	Modified By:	Date:
ajburke	4/20/2018	ajburke	4/20/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 4471

Complaint

Date 2/21/2018 Type Sewer Source Area 2 Barn Bush
District(s) 6 Follow-up Date: 3/8/2018 Date Completed 3/2/2018

External System Numbers

Work Order No: 294195

Code Enforcement Case No:

Resident's Name Judy Ball

Address 82151 Charles Kelly Rd.

Phone #

Email Address

Subdivision

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description Repair sewer line.

Assigned To Area 2 Barn Bush

Action Resolved

Resolutions

Entered By:	Date:	Modified By:	Date:
ajburke	3/15/2018	ajburke	3/15/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 3824

Complaint

Date 1/29/2018 Type Sewer Source Area 1 Barn Brewster
District(s) 1 Follow-up Date: 2/13/2018 Date Completed 1/30/2018

External System Numbers

Work Order No: 292222

Code Enforcement Case No:

Resident's Name Sandra Murphy

Address 429 Galatas Road

Phone # (985) 276-2739

Email Address

Subdivision

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description The sewer is backing up into her house, because of new builds. She said you told her to give you a call, if this happen again.

Assigned To Area 1 Barn Brewster

Action Resolved

Resolutions Also WO#293135

Entered By:	Date:	Modified By:	Date:
ajburke	1/30/2018	ajburke	1/31/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 3775

Complaint

Date 1/23/2018 Type Sewer Source Area 1 Barn Hwy. 59
District(s) 7 Follow-up Date: 2/7/2018 Date Completed

External System Numbers

Work Order No: 292802

Code Enforcement Case No:

Resident's Name Kenneth Dragon

Address 23010 2nd Street

Phone # (985) 237-0053

Email Address

Subdivision

RIN - Cross Street Corner of Walnut and 2nd Street

☐ Resident Contacted ☐ New Construction

☐ Already reported? To:

Description Water coming up out of the ground. Located at the corner of Walnut & 2nd Street. He's not sure who to contact in reference to this issues.

Assigned To Area 1 Barn Hwy. 59

Action Resolved

Resolutions 1/23/18: Water is leaking in his yard, its coming from his septic tank. I called and let him know he needs a plumber. Carl Singletary Groupleader – HWY 59 Barn, Public Works Department St. Tammany Parish Government P.O Box 628, Covington, La 70434 p: 985.871.9248 e: cdsingletary@stpgov.org www.stpgov.org

Entered By:	Date:	Modified By:	Date:
ajburke	1/23/2018	ajburke	1/24/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 3691

Complaint

Date 1/9/2018 Type Sewer Source Public Works
District(s) 1 Follow-up Date: 1/24/2018 Date Completed

External System Numbers

Work Order No:

Code Enforcement Case No:

Resident's Name Stephen Laubscher

Address 689 Milikens Bend

Phone # (985) 381-5764

Email Address larry.laubscher@gmail.com

Subdivision Natchez Trace

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description 1/26/18: Mr. Laubscher has called back this afternoon and stated that nothing has been done with his request. 1/9/18: I'm not sure if I'm contacting the correct department in the St. Tammany Parish government, so I thought I'd begin with you. I'm a home owner in the Natchez Trace Subdivision off of HWY 21 here in Covington. I live at 689 Millikens Bend in the newer section on the pond. I've been concerned since I moved in that the sewer line that feeds my home and my neighbor's was never buried underground at the time the infrastructure was being implemented. I was told that it would be addressed and fixed, but that was several years ago and nothing has been done. I would like for one of your inspectors to take a look at this issue and get a professional assessment of my concern. I'm sure all sewer lines should be buried at a certain depth underground and this is the only one I've noticed in the entire subdivision. Since it is located in a ditch in front our our homes and above ground, it is restricting water flow through the ditch for rain water drainage. To help you get a visual of all this, I've attached two images for you to review. Thank you for hearing my concern and I look forward to hearing back from your department.

Assigned To Environmental Services

Action Resolved

Resolutions

Entered By:	Date:	Modified By:	Date:
ajburke	1/11/2018	ajburke	3/15/2018

St. Tammany Parish Complaint Log

Action field containing: * Date Range: 1/1/2018 - 12/31/2018

ID: 3600

Complaint

Date 1/2/2018 Type Sewer Source Public Works
District(s) 11 Follow-up Date: 1/17/2018 Date Completed

External System Numbers

Work Order No:

Code Enforcement Case No:

Resident's Name Georgette Dunn

Address 2020 Swan Street

Phone # (985) 502-4590

Email Address jedik8607@gmail.com

Subdivision Ozone Woods

RIN - Cross Street

☐ ResidentContacted ☐ New Construction

☐ Already reported? To:

Description The Ozone Woods Subdivision as a whole has had many issues over the past few months with our water service from Bayou Liberty Water. I need to know who I can speak with about getting them inspected by the parish. Our water is brown, it smells like bleach, it can't be safe to bathe in or use in the kitchen... many of us have called and we hear the same thing every time "we fixed it with chlorine". Using bottled water and installing whole home filters should not have to be an option when we pay for safe water.

Assigned To Environmental Services

Action Resolved

Resolutions

Entered By:
ajburke

Date:
1/8/2018

Modified By:
ajburke

Date:
1/8/2018



St. Tammany Parish 2018 MS4 Annual Report C.7 Stormwater Enforcement



C.7 Stormwater Enforcement

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Stormwater Enforcement	SW Inspection & Reinspection	Method for escalated enforcement.		2018-2023	Ongoing. Failed inspection requires reinspection with fees doubling for each subsequent reinspection.
Stormwater Enforcement	Stormwater Ordinance	Improved methods of enforcement included in the SW Ordinance.	X	2018-2023	Ongoing. Current SW Ordinance adopted October 6, 2016.
Stormwater Enforcement	Code Enforcement & Inspections Department	Improved compliance. Quantified via number of inspections & resolved cases.	X	2018-2023	Ongoing. Enforcement & Inspections merged to improve compliance and enforcement.
Stormwater Enforcement	Citizen reports & complaints are investigated with corrective action taken as needed	Voluntary compliance or escalated enforcement to achieve compliance.		2018-2023	Ongoing. Escalated enforcement may include a Notice of Violation, Cease & Desist Order, Administrative Hearing, fines, fees, court costs, etc.
Stormwater Enforcement	STP Code of Ordinances	Ordinances regulate illicit discharges, illegal dumping, construction site controls, water quality, stormwater, junk/trash/debris, etc.	X	2018-2023	Ongoing. Ordinances are reviewed for effectiveness during the annual evaluation process. The Development Code, which includes the Stormwater Ordinance, continued to be available online via Municode.
Stormwater Enforcement	Administrative Hearings	Adjudication of SW & WQ violations during an administrative hearing officiated by a judge.		2018-2023	As needed. Administrative hearings are an effective tool utilized to enforce SW & WQ regulations.
Stormwater Enforcement	Tracking of complaints & complaint resolution.	Investigation & actions taken to resolve complaints	X	2018-2023	Ongoing. The STPG online permit database (MPN) continues to track complaints, actions, & resolutions for Enforcement & Inspections.



St. Tammany Parish

2018 MS4 Annual Report

C.8 Stormwater Projects & Funding



C.8 Stormwater Projects & Funding

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Stormwater Projects & Funding Sources	SW detention ponds, wet or dry	Obtain funding for new detention ponds and SW retrofits.		2018-2023	Ongoing. Continue funding SW, WQ, & MS4 projects that support attainment of measurable goals.
Stormwater Projects & Funding Sources	Drainage projects	Obtain funding for drainage projects.		2018-2023	Ongoing. Continue funding SW, WQ, & MS4 projects that support attainment of measurable goals.
Stormwater Projects & Funding Sources	Community sewer system upgrades	Obtain funding for community sewer system upgrades		2018-2023	Ongoing. Continue funding SW, WQ, & MS4 projects that support attainment of measurable goals.
Stormwater Projects & Funding Sources	Unsewered subdivision tie-ins to WWTPs.	Obtain funding for tie-ins to community sewer.		2018-2023	Ongoing. Continue funding SW, WQ, & MS4 projects that support attainment of measurable goals.
Stormwater Projects & Funding Sources	Pollution source tracking	Obtain funding to repair or replace failed individual sewer systems.		2018-2023	Ongoing. Continue funding SW, WQ, & MS4 projects that support attainment of measurable goals.
Stormwater Projects & Funding Sources	Decentralized Management Program	Obtain funding for continued inspections and enforcement of individual sewer systems		2018-2023	Ongoing. Continue funding SW, WQ, & MS4 projects that support attainment of measurable goals.
Stormwater Projects & Funding Sources	SW Training & Education	Obtain funding for SW training materials for in-house training.		2018-2023	Ongoing. Continue funding SW, WQ, & MS4 projects that support attainment of measurable goals.
Stormwater Projects & Funding Sources	Water Quality monitoring	Obtain funding for WQ monitoring & demonstration projects		2018-2023	Ongoing. Continue funding SW, WQ, & MS4 projects that support attainment of measurable goals. STP budgeted funds for 2018 to sample Parish-maintained ponds effluents and DO profiles, pre-and post-BMP retrofits.
Stormwater Projects & Funding Sources	Watershed studies	Obtain funding for watershed studies.		2018-2023	Ongoing. Continue funding SW, WQ, & MS4 projects that support attainment of measurable goals.

Project Name	Grant Name	Grantor	Grant Award	Current Year Revenue	Current Year Expenses	Start Date	Grant Expiration	Project Scope	Monthly Project Update
Lower W-15 Area Drainage Improvements	Hazard Mitigation Grant Program (HMGP)	FEMA GOHSEP	\$976,950	\$33,371	\$43,179	2012	2017	Reduce flood risk by widening & improving channel conveyances & the W-15.	Funding approved. Reviewing LAPAC proposal for phase 2.
Ben Thomas Road Pond	Hazard Mitigation Grant Program (HMGP)	FEMA GOHSEP	\$505,404	\$216,291	\$220,911	2009	2017	Construct detention pond to reduce flood risk & increase storm water storage	Once funds are received and STP gets permit, we will forward into FEMA to review and release phase 2 funding
Northwood Village, Whisperwood & Eddins Canal	Hazard Mitigation Grant Program (HMGP)	FEMA GOHSEP	\$549,065	See Above	See Above	2009	2017	Reduce flood risk by improving s/s conveyance to W-15 in Eddins Canal & adding outfall at Heather Drive	Once funds are received and STP gets permit, we will forward into FEMA to review and release phase 2 funding

Project Name	Grant Name	Grantor	Grant Award	Current Year Revenue	Current Year Expenses	Start Date	Grant Expiration	Project Scope	Monthly Project Update
Lapin Street Pond Ph. 1	CDBG Disaster Recovery Program	State of LA OCD/DRU	\$2,071,426	\$528,793	\$528,793	2008	2018	Aid in the reduction of flooding within St. Tammany Parish	The project is complete. Project is in 45 day retainage period.
Sharp Road Drainage Improvements	CDBG Disaster Recovery Program	State of LA OCD/DRU	\$2,270,541	\$383,393	\$383,393	2008	2018	Aid in the reduction of flooding within St. Tammany Parish	Project complete. Final change order reduced CO#1; Stranco refused to sign it. Legal resolving issue.
Fritchie Marsh Hydraulic Restoration (W-14)	Hazard Mitigation Grant Program (HMGP)	FEMA GOHSEP	\$1,006,500	\$0.00	\$0.00	2015	2017	Widen the W14 and marsh creation	DDG has began the modeling and surveying on the project.

Project Name	Grant Name	Grantor	Grant Award	Current Year Revenue	Current Year Expenses	Start Date	Grant Expiration	Project Scope	Monthly Project Update
Reno Hills Sewer Collection System	CDBG Disaster Recovery Program	CDBG - State of LA OCD/DRU	\$3,575,525	\$707,705	\$707,705	2008	2018	Install Sewer collection system and provide sewer tie-ins for homes located in the Reno Hills area.	Project is 90% completed. 5 lift stations added for total cost \$160,468. Remaining grant balance \$465,589.
Riverwood Drainage Study and Statewide Flood Application	Statewide Flood Control Program	State of LA OCD - Office of State Parks	\$685,851	\$0.00	\$0.00			Construction ONLY of Drainage Infrastructure	Parish awarded 2016 FY funding \$525,850. Requested \$800,000 local funds to begin project next year. Design 60% complete. Engineering currently working on ROW.
Little Bayou Castine	Hazard Mitigation Grant Program (HMGP)	FEMA GOHSEP	\$298,936	\$132,036	\$134,909	2010	2019	improve drainage at headwaters of Little Bayou Castine, Labarre Street crossing to Hwy 1088	Currently at 95% design. Submitted new BCA data to GOHSEP taking out the private subdivision.

Project Name	Grant Name	Grantor	Grant Award	Current Year Revenue	Current Year Expenses	Start Date	Grant Expiration	Project Scope	Monthly Project Update
Local Coastal Restoration	Local Coastal Zone	LA Dept of Natural Resources	\$35,260	\$0.00	\$0.00	2016	2017	Levee Board	Mailed LCZ agreement 8/24/16. Once executed copy returned, budget to be set up. Earmarking funds for Levee District
Pollution Source Tracking for Bayou Liberty	Lake Pontchartrain Basin Restoration Program	UNO Research & Technology Foundation	\$82,500	\$0.00	\$0.00	2015	2018	Pollution Source Tracking to improve water quality & providing homeowner education	Baseline sampling completed, home inspections commenced.
Pollution Source Tracking for Abita River Watershed	USEPA Gulf of Mexico Program	USEPA	\$300,000	\$0.00	\$0.00	2016	2019	Pollution Source Tracking to improve water quality & providing homeowner education	QAPP sent to USEPA for review

Project Name	Grant Name	Grantor	Grant Award	Current Year Revenue	Current Year Expenses	Start Date	Grant Expiration	Project Scope	Monthly Project Update
Pollution Source Tracking for Ponchitola wa Watershed	Lake Pontchartrain Basin Restoration Program	UNO Research & Technology Foundation	\$300,000	\$0.00	\$0.00	2016	2019	Pollution Source Tracking to improve water quality & providing homeowner education	Awaiting CEA from Legal
B-WET Camp Salmen Education	NOAA Gulf Education & Training	NOAA	\$30,253	\$0.00	\$0.00	2016	2017	Camp Salmen Education Program for 4th and 5th grade students.	MOU signed by all parties. LPBF will administer the program and invoice the Parish for it.



St. Tammany Parish

2018 MS4 Annual Report

C.9 Stormwater Management Program Review



C.9 Stormwater Management Program Review

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Stormwater Management Program Review	Evaluate Public Education & Outreach Program	Revise program as needed to accomplish measurable goals.		2018-2023	Completed for 2018. Evaluate annually and revise program as needed to accomplish measurable goals.
Stormwater Management Program Review	Evaluate Public Participation Program	Revise program as needed to accomplish measurable goals.		2018-2023	Completed for 2018. Evaluate annually and revise program as needed to accomplish measurable goals.
Stormwater Management Program Review	Evaluate Illicit Discharge & Detection Program	Revise program as needed to accomplish measurable goals.		2018-2023	Completed for 2018. Evaluate annually and revise program as needed to accomplish measurable goals.
Stormwater Management Program Review	Evaluate Construction Site Stormwater Controls	Revise program as needed to accomplish measurable goals.		2018-2023	Completed for 2018. Evaluate annually and revise program as needed to accomplish measurable goals.
Stormwater Management Program Review	Evaluate Post-Construction Stormwater Controls	Revise program as needed to accomplish measurable goals.		2018-2023	Completed for 2018. Evaluate annually and revise program as needed to accomplish measurable goals.
Stormwater Management Program Review	Evaluate Municipal Good Housekeeping & Pollution Prevention	Revise program as needed to accomplish measurable goals.		2018-2023	Completed for 2018. Evaluate annually and revise program as needed to accomplish measurable goals.
Stormwater Management Program Review	Evaluate Ordinance & Enforcement Program	Revise program as needed to accomplish measurable goals.		2018-2023	Completed for 2018. Evaluate annually and revise program as needed to accomplish measurable goals.
Stormwater Management Program Review	Evaluate Water Quality Monitoring & TMDL/WLA.	Revise program as needed to accomplish measurable goals.		2018-2023	Completed for 2018. Evaluate annually and revise program as needed to accomplish measurable goals.
Stormwater Management Program Review	Evaluate SWMP	Revise program as needed to accomplish measurable goals.		2018-2023	Completed for 2018. SWMP was revised in 2017 to accomplish measurable goals and will be revised again in 2019 to address requirements of the new general permit for small MS4s.

Annual Stormwater Evaluation Checklist

St. Tammany Parish 2018

Evaluation Issue (Answer Yes or No to the following questions)	Yes	No
1. Have inspections been completed as required?	X	
2. If required, has storm water sampling been completed as required?		N/A*
3. Were the BMPs implemented for the year effective?	X	
4. Do new storm water sources or pollutant exposures indicate a need for additional BMPs?	X	
5. Has this Plan been updated to include recommended changes resulting from previous inspections or annual evaluation?	X	
6. If sampling required, were pollutants in storm water sampling data present above LPDES permit limitations?		N/A
7. Are additional BMPs warranted? If yes, describe below:	X**	
BMPS OR BMP Improvements Needed		
*Baseline and monthly monitoring/sampling during Pollution Source Tracking.		
** Continue Pollution Source Tracking & Decentralized Management for individual sewer systems by watershed.		
** Continue Water Quality Impact Modeling for new subdivision & commercial developments.		
** Continue retrofits to plant and/or aerate parish ponds for water quality improvement.		
Notes: Budget & staffing constraints may limit the extent to which these programs are implemented.		



St. Tammany Parish

2018 MS4 Annual Report

C.10 Water Quality Programs to Address TMDLs & WLAs



C.10 Water Quality Programs to Address TMDLs & WLAs

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Water Quality Programs to Address TMDLs & WLAs	Hot spot monitoring	Improve WQ and/or meet WLAs for pollutants of concern	X	2018-2023	Completed. To target watersheds for WQ improvement.
Water Quality Programs to Address TMDLs & WLAs	SW Pond Demonstration projects with BMP retrofits	Improve WQ and/or meet WLAs for pollutants of concern	X	2018-2023	Completed. To target watersheds for WQ improvement.
Water Quality Programs to Address TMDLs & WLAs	WQ Pond Prioritization and BMP retrofit projects	Improve WQ and/or meet WLAs for pollutants of concern	X	2018-2023	In progress to target watersheds for WQ improvement.
Water Quality Programs to Address TMDLs & WLAs	Pond Planting & Adopt-a-Pond Programs	Improve WQ and/or meet WLAs for pollutants of concern	X	2018-2023	Ongoing. In watersheds targeted for WQ improvement.
Water Quality Programs to Address TMDLs & WLAs	Pollution source tracking	Improve WQ and/or meet WLAs for pollutants of concern	X	2018-2023	In progress to target watersheds for WQ improvement.
Water Quality Programs to Address TMDLs & WLAs	Decentralized Management Program	Improve WQ and/or meet WLAs for pollutants of concern	X	2018-2023	In progress (in-house) to target watersheds for WQ improvement.
Water Quality Programs to Address TMDLs & WLAs	WQ impact modeling (WQIM)	Improve WQ and/or meet WLAs for pollutants of concern	X	2018-2023	In progress to target watersheds for WQ improvement.
Water Quality Programs to Address TMDLs & WLAs	Watershed studies	Improve WQ and/or meet WLAs for pollutants of concern		2018-2023	As needed to determine watersheds to target for WQ improvement.
Water Quality Programs to Address TMDLs & WLAs	SW ordinance adoption	Improve WQ and/or meet WLAs for pollutants of concern	X	2018-2023	Completed. To codify requirements for WQ improvement. Ongoing review/assessment for continued compliance.
Water Quality Programs to Address TMDLs & WLAs	SW Agreements for new construction	Improve WQ and/or meet WLAs for pollutants of concern	X	2018-2023	In progress since to target watersheds for WQ improvement.

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New or Revised	Start Date/ Achievement Date	Implementation Status/ Frequency/ (completed, in progress, not started)
Water Quality Programs to Address TMDLs & WLAs	WQ Meetings w/ administration, directors, staff, consultants, etc.	Improve WQ and/or meet WLAs for pollutants of concern	X	2018-2023	Monthly to determine watersheds to target for WQ improvement. Meetings implemented in 2015.
Water Quality Programs to Address TMDLs & WLAs	Tie-ins to community sewer	Improve WQ and/or meet WLAs for pollutants of concern		2018-2023	As needed in targeted watersheds for WQ improvement.

Name _____

Science



Team Members Names _____ Water Quality Testing

Site Name _____ Date _____ Time _____

QUANTITATIVE OBSERVATIONS

<i>Location</i>	<i>Date #1</i>	<i>Date #2</i>	<i>Water Quality</i>	<i>Date #1</i>	<i>Date #2</i>
<i>Salinity</i>			<i>pH</i>		
<i>Temp</i>			<i>DO</i>		
<i>Turbidity</i>			<i>Water depth [1]</i>		
<i>Velocity [3]</i>			<i>Stream Width [2]</i>		
<i>Culvert [4]</i>			<i>Color</i>		
Convert °C to °F ($\#^{\circ}\text{C} \times 1.8$ then add 32 (line up decimal) = _____ ° F SHOW WORK next to your GRAPH					

QUALITATIVE OBSERVATIONS

Weather characteristics (clouds, wind, sky)

D1 _____

D2 _____

Water (color, motion)

D1 _____

D2 _____

Type of water bottom [5] (type, texture)

D1 _____

D2 _____

Sinuosity (stream's tendency to move back and forth over the pond bottom) [6]

D1 _____

D2 _____

Flora/Plants (species, size, flowers)

D1 _____

D2 _____

Fauna/Animals (types, how many, where)

D1 _____

D2 _____

General/Overall site findings

D1 _____

D2 _____

[1] ex: 2" vs 2' of water? Is water flowing or stagnant?

[2] ex: wide, narrow, deep, shallow, exposed pond bottom

[3] ex: is the water moving at all?

[4] ex: restricting flow, causing pooling

[5] ex: culvert inverted (upside down, turned around)

[6] ex: stream has wide bends or straight-channeled



Water Quality Investigation Rubric

Date Due _____

#pts. Day 1 Observations

#pts. Day 2 Observations

#pts. Data Bar Graph

#pts. Conclusion Questions

#pts. Participation/Effort

ongoing & teacher determined

#pts. total

Data Bar Graph #pts.: Create a bar graph that shows the of the measurements over time. Include a title, label the X-axis, label the Y-axis, and a key and staple to this paper.

Conclusion Questions: Use complete sentences and supporting evidence. (#pts. each)

1. Describe two pieces of data that changed or remained the same between the 1st pond visit to the 2nd. In your answer, make a claim **why those two pieces of data are important** for the STPgov to monitory in the pond. Be sure to use evidence from your pond visits to support your claim.

2. Compare your data/observations to data collected in (1st pond trip date) to (2nd pond trip date). Make a claim to describe two pond data changes/remained the same. In you answer, be sure to explain **what could have caused those changes/data consistencies**. Use evidence from your pond visits to support your claim.

Planting Tentative Date	School	Teacher(s)	Pond Location	Approximate Acreage to be Planted	Pond Condition (Wet/Dry)	Planting Location	Tree	
							Numbers	Types
	Boyett Jr. High		Meadow Lake	0.75	Wet	Island	200	Bald Cypress
							100	Tupelo Gum
	Boyette Jr. High		Meadow Lake	0.75	Dry	Perimeter	100	Bald Cypress
							100	Cow Oak
							25	Live Oak
							100	Willow Oak
	Slidell Jr. High	Carol Triola	Ashton Oaks Pond #1	0.8	Dry	Interior	100	Bald Cypress
							100	Cow Oak
							25	Live Oak
							100	Persimmon
	St. Tammany Jr. High	Rocki (7-8th grade gifted science)	Ashton Oaks Pond #2	0.75	Dry	Interior	100	Bald Cypress
							100	Cow Oak
							25	Live Oak
							100	Persimmon
	Covington High	Donna & Jimmi (AP Biology & Envriornmental Science)	Marquette	1.25	Dry	Interior	100	Green Ash
							100	Bald Cypress
							100	Cow Oak
							25	Live Oak
							100	Nuttall Oak
							25	Plum
							100	Willow Oak
	Fontainebleau Jr. High	Denise & Margaret	Casa Bella #1 & #2	0.65	Wet	Perimeter	50	Green Ash
							50	Bald Cypress
							100	Cow Oak
							25	Live Oak
							50	Nuttall Oak
							25	Plum

	Madisonville Jr. High		Pine Creek Acres	0.8	Dry	Interior	100	Bald Cypress
							100	Cow Oak
							25	Live Oak
							100	Nuttall Oak
							25	Plum
	Fontainebleau High	Jenny Fontleroy (AP Environmental Science) [1]						
TOTALS			6	5.75			2,475	
[1]	Newly joined STPSB, formerly from Hammon			Spaff will have to plan this planting				

Cypress
Bayou





Bald Cypress Planting

St. Tammany Parish Government and volunteers from the U.S. Fish and Wildlife Services, planted 200 Bald Cypress saplings in the Bradford Place detention pond near Slidell, as part of ongoing water quality initiatives.

SAVE THE DATE

2018 Household Hazardous Waste Collection Day

November 17, 2018
8 AM - 12 PM

FRITCHIE PARK
905 W. HOWZE BEACH RD.
SLIDELL, LA



www.keepsttammanybeautiful.org



HOUSEHOLD HAZARDOUS WASTE DAY STATS

901
households

748
VEHICLES





St. Tammany Parish 2018 MS4 Annual Report D. Certification Statement





St. Tammany Parish

2018 MS4 Annual Report

D. Certification Statement

Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A handwritten signature in blue ink, appearing to read "Patricia P. Brister", written over a horizontal line.

Signature

A handwritten date "3/8/19" in blue ink, written over a horizontal line.

Date

A handwritten name "PATRICIA P. BRISTER" in blue ink, written over a horizontal line.

Name (printed)

A handwritten title "PRESIDENT" in blue ink, written over a horizontal line.

Title

Our Vision

St. Tammany Parish will be the place to be along the I-12 Corridor. Through EFFICIENT, TRANSPARENT and ACCOUNTABLE operations, St. Tammany Parish Government will promote a STRONG ECONOMY with INNOVATIVE DEVELOPMENT, while investing in our natural environment and cultural diversity, to preserve the QUALITY OF LIFE that makes St. Tammany Parish vibrant and unique.



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ST. TAMMANY PARISH



WATER QUALITY PROTECTION AREA

DEVELOPMENT-ENGINEERING

985.809.7448
stormwater@stpgov.org