BATON ROUGE SSO PROGRAM

2002 CONSENT DECREE

2012 ANNUAL REPORT

January 29, 2013

January 29, 2013

CERTIFIED – RETURN RECEIPT REQUESTED

Chief,
Water Enforcement Branch (6EN-W)
Compliance Assurance and Enforcement Division
U.S. Environmental Protection Agency, Region VI
1445 Ross Avenue
Dallas, Texas 75202-2733

Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
Annual Report - **Period Ending December 31, 2012**

Gentlemen:

Pursuant to Paragraph 52 of the Consent Decree, the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) hereby submits the Annual Report covering activities for the year ending December 31, 2012. This report addresses the following items:

- Remedial Measures Action Plan (RMAP)
- Treatment Facility Assessment
- Environmental Results Monitoring (ERM)
- Interim Relief Measures Activities
- Outreach and Public Awareness Program
- Plan Modification Needs
- Stipulated Penalties

These items are described in Sections XII, XIII, XIV, XVI, XV and XXI of the Consent Decree.

I certify that the information contained in or accompanying this document is true, accurate and complete. As to identified portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate and complete.

Sincerely,

David Guillory, PE
Interim Director of Public Works

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
Mr. William B. Daniel, IV, Chief Administrative Officer
Mr. Michael Donnellan, US DOJ
Mr. John Blevins, US EPA Region 6 Compliance Division Director (CEN)
Ms. Jerry Saunders, US EPA (6EN-W)
Ms. Carol Peters-Wagnon, US EPA (6EN-WM)
Ms. Paulette Johnsey, US EPA (6EN-WC)
Ms. Peggy Hatch, LDEQ
Ms. Cheryl Nolan, LDEQ
Ms. Celena Cage, LDEQ
Mr. Mary Roper, Parish Attorney
Mr. Bob Abbott, Parish Attorney's Office
Mr. Bryan Harmon, DPW
Mr. Greg Wiley, DPW
Mr. Jim Ferguson, DPW
Mr. Mark LeBlanc, DPW
Ms. Amy Schulze, DPW
Mr. Mitch O'Brien, DPW
Ms. Cheryl Berry, DPW
Mr. Joshua Crowe, CH2M HILL

CITY-PARISH DEPARTMENTAL MEMORANDUM

WASTEWATER TREATMENT AND DISPOSAL DIVISION

2444 River Road
Baton Rouge, LA 70802

Date: January 29, 2013

To: Mr. Bryan Harmon, DPW

From: Mrs. Karen E. Johnson, CH2M HILL

Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
2012 Annual EPA Report
Data Review

Draft copies of the above referenced report have been submitted for your review. This review is to ensure that the data submitted under your direction, has been stated in a truthful and accurate manner in the 2012 Annual EPA Report. Once the review of the data is complete and corrected, please sign below the paragraph stating that fact and return for processing.

Sincerely,
Karen Johnson, PE
Regulatory Coordinator/CH2M HILL

I certify that the information contained in or accompanying the portion of the 2012 Annual EPA Report that I am responsible for is true, accurate, and complete. As to those identified portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate and complete.

Bryan K Harmon

1/29/2013

cc: Document Control

CITY-PARISH DEPARTMENTAL MEMORANDUM

WASTEWATER TREATMENT AND DISPOSAL DIVISION

2443 River Road
Baton Rouge, LA 70802

Date: January 29, 2013

To: Ms. Cheryl Berry, DPW

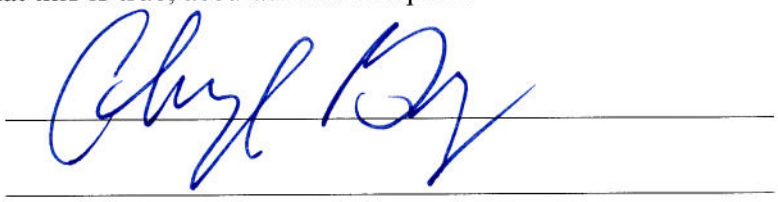
From: Mrs. Karen E. Johnson, CH2M HILL

Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
2012 Annual EPA Report
Data Review

Draft copies of the above referenced report have been submitted for your review. This review is to ensure that the data submitted under your direction, has been stated in a truthful and accurate manner in the 2012 Annual EPA Report. Once the review of the data is complete and corrected, please sign below the paragraph stating that fact and return for processing.

Sincerely,
Karen Johnson, PE
Regulatory Coordinator/CH2M HILL

I certify that the information contained in or accompanying the portion of the 2012 Annual EPA Report that I am responsible for is true, accurate, and complete. As to those identified portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate and complete.



cc: Document Control

BATON ROUGE SSO PROGRAM
2002 CONSENT DECREE

2012 ANNUAL REPORT

January 29, 2013

Contents

Baton Rouge Consent Decree
2012 Annual Report

This Annual Report for the period from January 1, 2012 to December 31, 2012 is submitted in accordance with Section XVIII, Reporting Paragraph 52, of the Consent Decree. This report addresses all items identified in Consent Decree Exhibit I regarding the Annual Report format and content.

During the past year, there continues to be significant progress made towards achieving Second Remedial Measures Action Plan (RMAP2) compliance. By the end of 2012, the City of Baton Rouge/Parish of East Baton Rouge (City/Parish) had thirty-two (32) RMAP2 projects functionally completed (ahead of schedule), twenty-eight (28) projects under construction, and thirty- three (33) projects under design, in order to strive to achieve the compliance schedules set forth in Tables 2, 3, and 4 of this Annual Report. Additionally, as of December 31, 2012, there have been 59 Consent Decree reporting deliverables submitted on or ahead of schedule.

1. Remedial Measures Action Plan

In 1998, the City/Parish originally developed a comprehensive Remedial Measures Action Plan (RMAP) for the collection system during consent decree negotiations, identified as Alternative 1 (the original Sanitary Sewer Overflow [SSO] Plan) in the Consent Decree. A Value Engineering (VE) study was commissioned in early 2000 to explore cost-saving alternatives. The VE study identified seven options based on the original SSO Plan for further consideration. Three of those alternatives (specifically 3, 4, and 7) were considered equivalent low-cost options that deemed further examination. Through a series of Metro Council and public meetings, Alternative 7, the Composite Plan, was selected. At the time, the Program Manager for the work associated with the Composite Plan was Montgomery Watson Harza (MWH). The focus of this plan was to utilize deep tunnels in order to store flows throughout the wastewater collection system during high flow/wet weather conditions in order to eliminate SSOs throughout the City/Parish during the design storm condition (2 year - 12 hour). The Composite Plan consisted of two parts: the First Remedial Measures Action Plan (RMAP1) and Second Remedial Measures Action Plan (RMAP2).

1.1 RMAP1 Summary

The First RMAP (or RMAP1), submitted on January 10, 2001, consisted of the projects that were common to all three of the lowest cost VE options (3, 4, and 7) being evaluated. These RMAP1 projects listed in Exhibit F of the Consent Decree were those projects common to the alternatives presented in Section XII - Remedial Measures: Collection System Remedial Program of the Consent Decree. There were a total of 19 "common" projects identified through various modeling and VE efforts associated with the original SSO Corrective Action Plan developed by MWH in 1998. These projects were common to the alternative plans presented in the Consent Decree that focused on utilizing deep tunnels/storage to control the SSOs throughout the City/Parish's wastewater collection system. The phased implementation of these RMAP1 projects began at the end of 1999 and the beginning of 2000. These projects were planned to start

and finish at different times due to funding constraints and the need for easements and permits. Since the date of entry into the Consent Decree, the City/Parish has been diligently working on the design and construction of these RMAP1 projects; all of these projects have been completed. During the planned execution of these projects, significant events occurred with the change in technical approach of the Collection System Remedial Program and, as such, some RMAP1 projects have been affected. Any such changes have been reported in previous reports.

In 2004 and 2005, the City/Parish decided to re-evaluate the planned technical approach of their Collection System Remedial Program, while implementing RMAP1 projects. This review resulted in a consequential change in technical approach from deep tunnels and storage, to a focus on sewer rehabilitation. At that point, the original RMAP1 projects that had not begun were re-examined. Some of these projects were shelved and others were re-evaluated to see if they fit into the new plan. During this time period, the City/Parish's consultants that were hired to help plan and execute these projects changed. Camp Dresser & McKee (CDM) was hired to develop an alternative plan not dependent on deep tunnels with an emphasis on rehabilitation of sewers to remove infiltration and inflow, and conveyance system improvements. CDM completed the initial conceptual reevaluation of the sewer rehabilitation plan, and CH2M HILL was later contracted to serve as the Program Manager and charged to perform a more thorough and detailed engineering and evaluation of the revised approach. CH2M HILL is currently the City/Parish's consultant/Program Manager for the Sanitary Sewer Overflow (SSO) Control and Wastewater Facilities Program which was initiated to meet the goals of the Consent Decree.

In December 2007, the City/Parish and CH2M HILL submitted a detailed *RMAP1 Status Report* to the EPA that summarized the status of all of the RMAP1 projects. This report included a formal "Request for Time Extension" for those RMAP1 projects not yet completed, and a corresponding schedule for project completion. This report was submitted as the milestone requirement pursuant to Section XVIII – Reporting of the Consent Decree. This report and the request for a time extension were verbally approved by the U.S. Environmental Protection Agency (EPA) during a conference call on February 12, 2008. Since no formal approval was granted from the EPA or Louisiana Department of Environmental Quality (LDEQ) for the RMAP1 projects that were outstanding which were highlighted in the report, the City/Parish re-submitted the revised RMAP1 milestones as outlined in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008).

In late 2008, an Agreement and Order Regarding the Modification of the Consent Decree was submitted to the court and was approved by the Department of Justice (DOJ), EPA, and LDEQ in April 2009. This approval formally accepted the RMAP1 milestones presented in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). Although with this approval a new technical approach to resolve SSOs was approved which made the old tunnel plan obsolete, the City/Parish and CH2M HILL are actively moving forward with the execution of the remaining RMAP1 projects included herein based on the approved revised schedule.

The current status of the RMAP1 projects in progress is presented in Table 1 and is current through December 31, 2011. All 14 RMAP1 projects are functionally completed, and 13 of the 14 were done either on, or ahead of schedule. The RMAP1 - Industriplex has had several issues arise during the construction phase pertaining to unavoidable utility conflicts, difficult easement acquisitions, alignment changes, and permitting and other utility coordination issues

that have caused significant delays with the project which could not be overcome by reasonable actions by the City/Parish and its construction contractor. This project has been functionally complete and in operation since 1st quarter 2011. The City/Parish asserts that this project is not susceptible to stipulated penalties due to the circumstances of the delay beyond the control of the City/Parish. The circumstances behind the delay are explained in detail below and have been also mentioned in the previous Quarterly EPA Reports. The *RMAP1 Completion Report* is included in the *2011 Annual EPA Report* in *Attachment 1: Updated Outreach and Public Awareness Plan and RMAP1 Completion Report* and is attached at the end of the *36th Quarterly EPA Report*.

TABLE 1
EPA Consent Decree RMAP1 Milestones

Milestone Date		RMAP1 Projects Completed May 4, 2007	RMAP1 Projects Completed Proposed on September 1, 2008	Project Status Summary
Construction Status		**Complete**	**Complete**	
Consent Decree Projects	**Corresponding City/Parish Projects**			
RMAP1 Projects				
N-05 PS 24 Area Upgrades	*PS 24/43 Area Upgrade (01-RMP-N05)	✓		
N-06 PS 43 Area Upgrades				
N-09 PS 44/46 Area Upgrades	PS 44/46 Area Upgrades (01-RMP-N09)	✓		
N-10 PS 240 Area Upgrades	PS 240 Area Upgrades (01-RMP-N10)	✓		
***N-99 North Further Investigations	NTSN SS Eval. Study (99-RMP-N-99)	✓		
	**Bellingrath Rehab. (03-RMP-N14) (NSRP)	✓		
	**Frenchtown Road Sewer Rehab. (03-RMP-N15)	✓		
	**North Area Comprehensive Rehab. (03-RMP-N23)	✓		
	**PS 45 Area Rehab. (00-RMP-N31)	✓		
C-03 PS 2 Area Rehabilitation	PS 2 Area Upgrades (01-RMP-C03)	✓		
S-01B SWWTP Influent PS	SSO SWWTP Infl. PS Upgrade (99-RMP-SO1B)	✓		
S-11 PS 40 Area Rehabilitation	S-11 PS 40 Area Rehabilitation	✓		
***S-99 South Further Investigations	SSO Engr-South (99-RMP-S99)	✓		
	PS 944 Area Upgrade Grv Sewer (99-RMP-S99)	✓		
	PS 944 Area Upgrade (99-RMP-S99)	✓		
	PS 177 Area Upgrade (99-RMP-S99)	✓		

TABLE 1
EPA Consent Decree RMAP1 Milestones

Milestone Date		RMAP1 Projects Completed May 4, 2007	RMAP1 Projects Completed Proposed on September 1, 2008	Project Status Summary
Construction Status		**Complete**	**Complete**	
Consent Decree Projects	**Corresponding City/Parish Projects**			
RMAP1 Projects				
	**PS 211 Area Upgrades (99-RMP-S11)	✓		
N-01 Choctaw Basin Return System	Choctaw Area Storage (04-RMP-N22)			RMAP1 project suspended. Project is included as RMAP2: Choctaw Storage.
N-13 North Choctaw Basin System	S-05 PS 58B Area Upgrades MWH RMAP2			RMAP1 project suspended. Project is included as RMAP2: Choctaw Storage PS.
N-04 PS 47 Area Upgrades	N-04 PS 47 Area Upgrades			RMAP1 project suspended. Project is included as RMAP2: Group Project 1B – Veterans Memorial Parkway PS FM.
N-07 PS 39/55 Area Upgrades	N-07 PS 39/55 Area Upgrades			RMAP1 project suspended. Project is included as RMAP2: Group Project 1B – Veterans Memorial Parkway PS FM.
N-11 PS 65 Area Upgrades	PS 65 and 65A Area Upgrades (01-RMP-N11)			Project suspended. Evaluated for inclusion in RMAP2 and Master Plan. Project proposed as a part of the Master Plan.
N-02 PS 49/52 Area Upgrades	PS 49/52 Area Upgrade (01-RMP-N02)		4th Quarter 2008	**Project completed – 4th quarter 2008** (at 80% complete with construction). Project was in dispute with construction contractor. Both parties reached an agreement on terms and job was closed at 80% complete.
N-12 North Sewer Rehab Projects	North Sewer Rehab Projects (03-RMP-N12)		4th Quarter 2007	**Project completed – 4th quarter 2007.**
S-08 Industriplex Area Upgrades	Industriplex Area PS 355 and FM Upgrades (99-RMP-S08)		2nd Quarter 2010	**Project completed – 1st quarter 2011.**
S-14 Kleinpeter Area Upgrades	Kleinpeter Area Upgrades (03-RMP-S14)		2nd Quarter 2010	**Project completed – 2nd quarter 2009.**
S-16 PS 136 Area Upgrades	PS 136 Area Upgrades (99-RMP-S16)		2nd Quarter 2010	**Project completed – 2nd quarter 2010.**

TABLE 1
EPA Consent Decree RMAP1 Milestones

Milestone Date		RMAP1 Projects Completed May 4, 2007	RMAP1 Projects Completed Proposed on September 1, 2008	Project Status Summary
Construction Status		**Complete**	**Complete**	
Consent Decree Projects	**Corresponding City/Parish Projects**			
RMAP1 Projects				

* This project was executed as a combination of two RMAP1 projects

** These projects were added as RMAP1 projects by the City/Parish after entry into the Consent Decree

*** This RMAP1 project was split up into multiple projects for better execution

1.2 RMAP2 Summary

The Second RMAP (RMAP2), which was originally submitted on November 19, 2002 by the City/Parish and their consultants at that time, MWH, consisted of the projects required to complete the selected overall remedial action plan, or Alternative 7. As the planning and design activities for the RMAP2 projects progressed, it was apparent that modifications to the project definitions and schedules were necessary. On December 3, 2004, proposed RMAP modifications were submitted for review and approval.

In early 2005, the City/Parish began re-evaluating Alternative 7 of the original Composite Plan, due to large budget over runs of several projects that were indicative of total project cost increases of 50% or more. CDM was hired to do a preliminary evaluation of alternatives and the City/Parish developed an "updated" Second RMAP approach, or revised RMAP2, based on more aggressive sewer rehabilitation and comprehensive upgrades of pumping stations. The City/Parish, in conjunction with CDM, submitted a written request with proposed RMAP2 modifications for review and approval to the EPA and LDEQ on July 29, 2005. The City/Parish conducted a telephone conference with EPA and LDEQ on August 1, 2005 in order to present the program status. That presentation included the requested revision to the RMAP2 with the sewer system rehabilitation focus that CDM helped to develop. The requested plan modification represented a material change in the currently approved RMAP2 (based on the change from Alternative 7 of the tunnel plan), though the requested revision to the RMAP2 did not actually extend the final compliance date beyond the January 1, 2015 which was the original deadline for Alternative 7, listed in the Consent Decree. At that time, the City/Parish made every reasonable effort to complete the work to meet the original deadlines and focused additional efforts and resources to accelerate wastewater treatment plant improvements to achieve consistent permit compliance at the earliest date possible.

The revised RMAP2, submitted by the City/Parish and CDM, had not yet been approved by the EPA and LDEQ in early 2006 when the City/Parish engaged CH2M HILL to conduct a peer review to address issues about elements of the alternative plan including an assessment of costs and schedules and a reassessment of the South Wastewater Treatment Plant (WWTP) proposed work. Based on the peer review recommendations, a re-submittal, and the second request for approval, of the Revised RMAP2 modifications (including CDM's plan and CH2M HILL's updated plan for South WWTP compliance projects) was submitted by the City/Parish in conjunction with CH2M HILL on December 12, 2006. CH2M HILL was also selected as the new Program Manager, or City/Parish consultant, for this work during this timeframe. Per EPA and

LDEQ request, a more descriptive follow-up report entitled *Addressing Existing Noncompliance Issues and Future Wet-Weather Flow Management Requirements for the South Wastewater Treatment Plant – Summary of Findings and Recommendations* was submitted in January 2007 that specifically addressed work at the South WWTP. This report detailed the recommendations outlined in the previous Revised Second RMAP submittal in December 2006. On July 10, 2007, the EPA and LDEQ sent a formal letter of approval to the City/Parish endorsing the December 2006 Revised Second RMAP proposal.

Since that time, a huge planning and engineering effort was undertaken by the City/Parish and the new Program Manager, CH2M HILL, and others in order to develop and implement a detailed RMAP2 submittal based on three types of projects: comprehensive sewer rehabilitation, pump station and transmission (capacity) improvements, and wastewater treatment/storage improvements. This planning and engineering effort consists of refined modeling and calibration, detailed calculations, review of field data, and project development, prioritization, and cost estimating. This RMAP2 submittal outlines the projects planned to eliminate SSOs throughout the City/Parish, in addition to describing the projects planned to meet permit requirements at the wastewater treatment plants. *The Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* report was submitted to the DOJ, EPA, and LDEQ for review and approval in September 2008. The proposed plan represents a substantial commitment to try to meet the original demanding schedule required by the Consent Decree (January 1, 2015). The City/Parish and CH2M HILL will continually refine and perform quality control reviews of the hydraulic model of the sewer system, incorporating new information as it becomes available. These refinements may technically alter some aspects of the RMAP2 projects. However, with the EPA and LDEQ approval, the City/Parish regularly documents all RMAP2 project changes (scope changes, project additions, and project deletions) in the Quarterly and Annual EPA Reports.

During the review and approval process of *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008), an Agreement and Order related to the Modification of the Consent Decree (Agreement and Order) was lodged with the Court on November 10, 2008. The Agreement and Order adopts the City/Parish's September 2008 *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program*. This RMAP2 submittal is consistent with current industry standards and the 2002 Consent Decree, including Section V – Objectives. The RMAP2 submittal also does not extend the schedule beyond the January 1, 2015 deadline already imposed in the Court approved 2002 Consent Decree, and adheres to Section XXXIV - Modification – Paragraph 118. The Agreement and Order was to be lodged with the Court for public notice and comment for a period of not less than 30 days in accordance with DOJ policy and in 28 C.F.R. § 50.7, and 45 days in accordance with the LDEQ La. R.S. 30:2050.7. The City/Parish was e-mailed two public comments received by the DOJ in regards to the Agreement and Order on January 5, 2009.

Since that time, the City/Parish and CH2M HILL developed a technical memorandum titled *Response to Public Comments of the Agreement and Order Regarding the Modification of the Consent Decree - Civil Action No. 01-978-B-M3 (M.D. La.)* which included the City/Parish's response to the two public comments received by the DOJ on December 17, 2008 from Mr. Steve Irving and Ms. Kathryn Lewis. The memorandum was initially submitted on January 23, 2009, was later updated based on comments received by DOJ, and was submitted as a final version of the memorandum on February 27, 2009. The City/Parish believes that it provided a comprehensive

response to the public comments received, and also highlighted the extensive progress that has been achieved to date associated with the Consent Decree. Additionally, many actions to address the concerns expressed in the public comments received were already either completed or underway. The City/Parish requested that the Court timely approve the modification, as the City/Parish had multiple projects that were currently ready to begin design as soon as the Consent Decree modification is approved. On April 22, 2009, the DOJ, EPA, and LDEQ approved the Agreement and Order which specifically adopts the City/Parish's *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008).

The City/Parish and CH2M HILL are actively moving forward with the execution of the RMAP2 projects included herein, as outlined in the *April 2009 Consent Decree Modification* by DOJ, EPA, and LDEQ that adopts the corresponding *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). In preparing this report, the locations of known overflows were given the highest priority in order to reduce the frequency of these overflows, in addition to those projects required to get the wastewater treatment plants in compliance with their National Pollution Discharge Elimination System (NPDES) permits. Areas of the collection system that were found to have excessive levels of infiltration or inflow were identified for rehabilitation. Hydraulic capacity improvement projects were sized to accommodate the predicted designed peak wet weather flows and anticipated growth in the project areas. Peak wet weather flows were predicted based on the previously selected/inherited (2002) 2-year frequency, 12-hour duration design storm approved by the EPA prior to 2006. Many of these RMAP2 projects are currently underway due to the very tight schedule required by the Consent Decree. The RMAP2 project milestone schedules are extremely compressed. To this end, given that it takes approximately 2 to 4 years for a typical project to be completed through the pre-design, design, and construction phases, most projects are being worked on simultaneously.

As of December 31, 2012 there are 32 RMAP2 projects functionally completed (ahead of schedule), 28 projects under construction, and 33 projects under design, and the City/Parish is at the peak of construction activities in this quarter. There is growing concern that the sheer number of projects actively under construction from 2012-2014 will overwhelm administrative capacity and ability to manage projects efficiently with reasonable impacts on the public. Efforts are being made to look at schedule adjustments that provide for better project management and use of resources.

The City/Parish is seeing many of the affects from the ramping up of the design and construction activities. In recent quarters, contractor availability and high bid prices have become issues of trepidation, however in the last quarter this has remained in check. In addition, the capacity of both internal and external support functions is becoming an issue of growing concern. Particularly due to the stresses already placed on several key support roles specifically with regards to the City/Parish procurement system, easement and right-of-way acquisition, and state/local permit acquisitions/approvals. All of these support systems are already strained and the peak of RMAP2 work is yet to come in sometime later in 2012.

Bidding, constructing and closing out so many projects at the same time to meet a milestone schedule that was done before significant project design, requires administrative and technical resources to be stretched, and project management is more difficult than if the schedule were driven by technical and best management approaches. Impacts of the large number of projects

under construction on local traffic and neighborhoods are also a serious concern. The City/Parish and CH2M HILL are evaluating strategies to manage the potential impacts as more projects are bid and contractor bonding capacity may be exceeded. The City/Parish is working hard to keep projects on schedule and to maintain the financing plan in spite of significant impacts from previous hurricanes and US and regional economic conditions. It is possible that these conditions may potentially impact projects in the future.

The City/Parish continues documenting the impact of force majeure events that have affected the Baton Rouge Area (including Hurricanes Katrina, Rita, and Gustav, the Gulf of Mexico oil spill, Mississippi River flood, Tropical Storm Lee, and most recently Hurricane Isaac, and other extreme storm events). The Consent Decree schedule is very demanding and the time lost recently and in the past years from these force majeure events has affected the critical early planning stages of the program and is affecting project schedules and implementation. The City/Parish keeps track of these events in regards to their potential effect on schedule and compliance, and also effect on the associated construction costs and contractor availability for RMAP2 project work. The City/Parish will continue to regularly document all RMAP2 project changes related to force majeure events, in order to support the request for time extension as proposed.

The City/Parish has also voluntarily begun aggressively implementing several projects outside of the scope of the Consent Decree RMAP2 requirements which will have significant benefits to those living and working throughout the City/Parish at their additional expense. Many of the projects are being undertaken solely to improve the operation and maintenance of the wastewater collection system and treatment facilities which should further help reduce SSO risk throughout the City/Parish. Some of these projects are as follows:

- **Stand-by Power Program –** This project will drastically reduce SSOs caused by power outages at the 400+ pump stations in the system, by providing stand-by power at the pump stations. This program consists of installing generators at every wastewater pump station and wastewater treatment facility throughout the City/Parish that can be put in place during power outages, eliminating the risk of overflows from this cause.

  Status: Generator purchasing began in 2010, and generator installation began in 2011. Program will continue for the duration of SSO Program.

- **SCADA Project -** the SCADA Project will provide telemetry and remote monitoring to all existing pump stations, new pump stations, and those pump stations being replaced. The project provides remote monitoring of operations data & alarms that will be communicated via telemetry to a centralized operations center. The centralized operations center will have control capability for major pump stations and storage facilities in the system, allowing flow control to anticipate and reduce the possibility of overflows and/or reduce their severity. The remote monitoring will help City/Parish staff quickly respond to mechanical and electrical problems at the pump stations.

  Status: SCADA project final design is submitted and reviewed. Advertisement for construction bids underway. Project will continue for the duration of SSO Program.

- **Choctaw Maintenance Facility – t**he Choctaw Administration/Maintenance Facility will consolidate several separate City/Parish facilities to one location. The facility will house the wastewater collections staff, provide warehouse and equipment storage, house the electrical and pump maintenance shops, and include a fueling station for use by City/Parish employees. The site is centrally located in the parish, so the maintenance facility will allow staff to be efficiently deployed to all areas of DPW's sewer network. The pump maintenance shop will include a pump testing pit, which allows the City/Parish to test pumps at the shop rather than testing at the Central WWTP Maintenance/Lab/Control Room.

    - **Status:** Project is currently under design. This project will begin construction in 2013.

- **North Wastewater Treatment Plant Odor Control Project - the North WWTP Odor Control Pr**oject is designed to minimize odors from the WWTP headworks building

    - **Status:** Project is complete.

- **Comite Drive – Foster Road Phase 2 Project - t**his project includes an upgrade to the existing sewer system that runs along Comite Drive. The current sewer system in this area is individual septic systems that discharge into an open ditch along the road. A new sewer collection system is being installed to eliminate these discharges. The project consists of new sewers, forcemains, and pump stations.

    - **Status:** Project is complete.

The City/Parish and CH2M HILL will continually refine and perform quality control reviews of the hydraulic model of the sewer system, incorporating new information as it becomes available. These on-going refinements may alter the RMAP2 projects to improve their effectiveness. However, with the EPA and LDEQ approval, the City/Parish plans to regularly document all RMAP2 project changes (scope changes, project additions, project deletions, and schedule changes) in the Quarterly and Annual EPA Reports.

During the last two quarters of 2009, the RMAP2 projects were being re-evaluated as a part of the Program Delivery Plan Update (2009 PDP Update), and as a result some projects were depicted differently in the tables below. Several construction sequencing issues were discovered, resulting in the combining of several capacity improvement projects to minimize these issues. In addition, several rehabilitation projects have been split up for ease of management and execution of the design and construction work associated with the rehabilitation projects. Also, some project names have been altered so that the commonly used names of the projects are utilized from here forward. There are two capacity projects [Airline Highway – Jefferson Highway and Staring Lane FM B – PS58 Improvements (Highland to Perkins)] whose milestone dates are adversely affected as a result of these project changes. The Airline Highway – Jefferson Highway project was combined with 2 other projects who both had later milestone dates, so it was determined that the later milestone date would be used for the merged project. The City/Parish has already completed several projects ahead of schedule, and it is anticipated that several additional projects will be positively impacted by these modifications and completed ahead of their milestone schedules. Please note that even though the execution and naming of some of these projects has changed that overall no scope of the

RMAP2 has been removed or deleted. The RMAP2 project modifications depicted in the tables below have been approved by the City/Parish so they have been incorporated into this and all other upcoming Quarterly and Annual EPA Reports and those that follow. See the notes in the "Project Status Summary" columns in Tables 2, 3, and 4 for more details.

The 2010 Annual PDP update was completed and all changes approved by the City/Parish for the year ending in 2010. Several projects in 2011 have had minor scope changes due to technical issues, such as re-routing of gravity sewers or forcemains to avoid other utilities or land issues. In addition, there were several projects that have been split up for ease of construction management, and also to help shorten construction durations so that the EPA milestone schedules will be easier to achieve. All changes are reflected in the notes in the "Project Status Summary" columns in Tables 2, 3, and 4.

The 2011 Annual PDP update has been completed and approved by the City/Parish for the year ending in 2011. There have been only minor changes incorporated in the latest version of the report. These changes are due to projects that have been split up for ease of construction management, and also to help shorten construction durations so that the EPA milestone schedules will be easier to achieve. All changes are reflected in the notes in the "Project Status Summary" columns in Tables 2, 3, and 4.

In July 2011, the City/Parish submitted a request for time extension (3 years) *2011 Request for Time Extension/Modification of the Compliance Schedule in the Approved RMAP2 Submittal* for the RMAP2 projects listed below. The City/Parish has begun incorporating schedule modifications in order to take into account the proposed changes included in the request for time extension (currently based on the 3 year extension request) in anticipation of its approval. Other specific projects delayed for cause are noted in the tables.

In October 2012, the City/Parish submitted an updated request for time extension (4 years) for the RMAP2 projects listed below on October 23, 2012 included in the document titled *Modified Request for Time Extension/Modification of the Compliance Schedule in the Approved RMAP2 Submittal*. See ***Attachment A: 2012 Request for Time Extension/Modification of the Compliance Schedule in the Approved RMAP2 Submittal.***

The 2012 Annual PDP update is underway. Once it is completed and has been reviewed/approved by the City/Parish, Tables 2, 3 and 4 will be updated to reflect any changes associated with this process.

The RMAP2 projects are separated into three categories with descriptions and schedules provided for all projects, current through December 31, 2012.

1.2.1 Category 1: Comprehensive Sewer Basin Rehabilitation

Based on sewer system digital model analysis and flow monitoring, 26 sub-basins within the collection system require comprehensive rehabilitation. Sewer system comprehensive rehabilitation projects are implemented to repair or replace components of the system that are defective and may permit excessive infiltration and inflow.

Table 2 presents the Category 1 comprehensive rehabilitation sub-basin projects and anticipated delivery milestone schedules. Status summaries are also provided for those projects already underway. Pump station improvements are included in the projects listed in Category 2, Pump Station and Transmission Improvements on the following pages.

TABLE 2				
EPA Consent Decree RMAP2 Milestones for Category 1 Projects				
All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013				
	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Jefferson Hwy – HooShooToo Road	✓			**Project completed – 3rd quarter 2009.**
Staring Lane - Boone Drive	✓			Now called "Staring Lane – Boone Drive Area Rehabilitation Project". **Project completed – 2nd quarter 2010.**
Gardere Lane - Burbank Road	✓			Now called "Burbank Drive – Gardere Lane Area Rehabilitation Project". **Project completed – 4th quarter 2010.**
Oak Villa Blvd - Choctaw Street	✓			Now called "Oak Villa – Choctaw Street Area Rehabilitation Project". **Project completed – 3rd quarter 2011.**
Scotland Avenue - Progress Road	✓			Now called "Scotland Avenue – Progress Road Area Rehabilitation Project". **Project completed – 2nd quarter 2011.**
Elm Grove Garden Road - Harding Blvd	✓			Now called "Elm Grove Garden Road – Harding Boulevard Area Rehabilitation Project". **Project completed – 3rd quarter 2011.**
Sharp Road - Florida Blvd	✓			Now called "Sharp Road – Florida Boulevard Area Rehabilitation Project". **Project completed – 3rd quarter 2012.**
Kenilworth Blvd - Boone Drive	✓			Now called "Kenilworth Boulevard – Boone Drive Area Rehabilitation Project". **Project completed – 3rd quarter 2012.**
Foster Drive - Government Street	✓			Project split into 2 phases for ease of management during construction. Overall scope the same. Now called "Phase A Foster Drive – Government Street Area Rehabilitation Project, and Phase B Foster Drive – Government Street Area Rehabilitation Project". Phase A – **Project completed – 4th quarter 2011.** Phase B – **Project completed – 3rd quarter 2012.**
Silverleaf Road - Ford Street	✓			Now called "Silverleaf Road – Ford Street Area Rehabilitation Project". **Project completed – 4th quarter 2012.**

TABLE 2

EPA Consent Decree RMAP2 Milestones for Category 1 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Brookstown Road - Evangeline Street	✓			Project split up into 2 phases for ease of management. Overall scope the same. Now called "Brookstown Road - Evangeline Street Phase I Area Rehabilitation Project" and "Brookstown Road – Evangeline Street Phase II Area Rehabilitation Project". Phase I – **Project completed – 4th quarter 2012.** Phase II –**Project completed – 4th quarter 2012.**
Bluebonnet Blvd - Jefferson Hwy		✓		Project split up into 2 phases for ease of execution. Overall scope the same. Now called "Bluebonnet Blvd – Jefferson Hwy Phase I Area Rehabilitation Project" and "Bluebonnet Blvd – Jefferson Hwy Phase II Area Rehabilitation Project". Phase I – **Project completed – 4th quarter 2012.** Phase II –Construction approximately 85% complete and on-going.
Highland Road - Washington Street	✓			Now called "Highland Road – Washington Street Area Rehabilitation Project". Project is experiencing minor delays at this time due to changes with the proposed extension schedule. In addition, the project is experiencing delays due to added repairs that have expanded the original scope and utility conflicts that are in the process of being resolved. At this time the construction contractor is projecting the project to be functionally complete 2nd quarter 2013. Construction approximately 85% complete and on-going.
Stanford Avenue - Morning Glory Road	✓			Now called "Standford Avenue – Morning Glory Road Area Rehabilitation Project". – **Project completed – 4th quarter 2012.**

TABLE 2

EPA Consent Decree RMAP2 Milestones for Category 1 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Airline Highway - Goodwood Blvd		✓		Project split up into 2 phases for ease of execution. Overall scope the same. Now called "Airline Highway – Goodwood Blvd Phase I Area Rehabilitation Project" and "Airline Highway – Goodwood Blvd Phase II Area Rehabilitation Project". Phase I – Construction approximately 5% complete and on-going. Phase II –Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 3rd quarter 2014. Final design submitted and reviewed. Comments in the process of being incorporated. Advertisement for bids for construction expected to begin 2nd quarter 2013.
Acadian Thruway - Claycut Road	✓			Now called "Acadian Thruway – Claycut Road Area Rehabilitation Project". Project is experiencing minor delays at this time due to changes with the proposed extension schedule. In addition, the project is experiencing minor delays at this time due to conflicted repairs, with engineering resolution pending. At this time the construction contractor is projecting the project to be functionally complete 1st quarter 2013. Construction approximately 54% complete and on-going.
Acadian Thruway - Perkins Road	✓			Now called "Acadian Thruway – Perkins Road Area Rehabilitation Project". **Project completed – 4th quarter 2012.**
Antioch Road - Chadsford Drive		✓		Now called "Antioch Road – Chadsford Drive Area Rehabilitation Project". Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 3rd quarter 2014. Survey completed. Design 70% complete and on-going. Design expected to be completed 1st quarter 2013.

TABLE 2

EPA Consent Decree RMAP2 Milestones for Category 1 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Jones Creek Road - Tiger Bend Road		✓		Now call "Jones Creek Road – Tiger Bend Road Area Rehabilitation Project". Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 3rd quarter 2014. Design 64% complete. Design expected to be complete 1st quarter 2013. Design on-going.
Scenic Highway - Spanish Town Road			✓	Project split up into 2 phases for ease of execution. Overall scope the same. Now called "Scenic Highway – Spanish Town Road Phase I Area Rehabilitation Project" and "Scenic Highway – Spanish Town Road Phase II Area Rehabilitation Project". Phase I – Data analysis and report preparation completed. Survey approximately 25% complete and on-going. Design NTP issued. Design expected to be underway 1st quarter 2012. Phase II – Project not started yet. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 1st quarter 2016.
Siegen Lane - Interstate 10		✓		Now called "Siegen Lane – Interstate 10 Area Rehabilitation Project". Project not started yet. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 1st quarter 2016.
Interstate 110 - Hollywood Street		✓		Now called "Interstate 110 – Hollywood Street Area Rehabilitation Project". Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 4th quarter 2014. Find work complete. Data analysis and report development approximately 50% complete and on-going. Design NTP expected 1st quarter 2013.

TABLE 2

EPA Consent Decree RMAP2 Milestones for Category 1 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Ardenwood Drive - Winbourne Street			✓	Now called "Ardenwood Drive – Winbourne Street Area Rehabilitation Project". Project not started yet. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 2nd quarter 2016.
Flannery Road - Florida Blvd			✓	Project split up into 2 phases for ease of execution. Overall scope the same. Now called "Flannery Road – Florida Boulevard Area – Phase I Rehabilitation Project" and "Flannery Road – Florida Boulevard Area – Phase II Rehabilitation Project" Phase I – Project not started yet. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 3rd quarter 2016. Phase II – Project not started yet. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 1st quarter 2017.
East Boulevard - Government Street			✓	Now called "East Boulevard – Government Street Area Rehabilitation Project". Project is projecting delays at this time due to changes with the proposed extension schedule. Find work underway. Data analysis and report expected to begin 4nd quarter 2013. Projected functionally complete date at this time is 2nd quarter 2015.
North 38th Street - Gus Young Avenue			✓	Now called "North 38th Street – Gus Young Avenue Area Rehabilitation Project". Project not started yet. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 1st quarter 2017.

NOTE: Projects that are currently projecting delays at this time due to changes with the proposed extension schedule are noted in the "Project Status Summary" column of the table.

1.2.2 Category 2: Pump Station and Transmission Improvements

The Infoworks digital wastewater model was used to identify necessary increases in the capacity of existing gravity trunk sewers, pump stations, and transmission mains in order to accommodate peak wastewater flows remaining in the rehabilitated collection system. Table 3 presents a list of Category 2 projects with corresponding milestone schedules. Project status summaries are provided for those projects already underway, current through December 31, 2012.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Capitol Lake Drive - Gayosa Street	✓			Now called "Capitol Lake – Gayosa Street Area Capacity Improvements". A portion of 25th and North Acadian Thruway Project is included in this project to eliminate construction conflicts. **Project completed – 2nd quarter 2012.**
Gurney Road - Joor Road	✓			**Project completed – 4th quarter 2009.**
Multiple Pump Stations - Lovett Road Area	✓			Also called "Sullivan Rd./Lovett Rd./Wax Rd. Sewer Upgrades". **Project completed – 1st quarter 2011.**
Comite Road - Foster Road	✓			Now called "Comite Road – Foster Road Sewer Area Upgrades - Phase I". Phase I – **Project completed – 2nd quarter 2010.** Note that there is a "Comite –Foster Road Sewer Area Upgrades - Phase II". **Project completed – 1st quarter 2011.**
Foster Road - Hooper Road	✓			Now called "Foster Road – Hooper Road Sewer Area Upgrade". **Project completed – 4th quarter 2010.**

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Zachary Area Transmission Network Improvements		✓		Project has been split up into 4 phases for ease of execution (Previously called Red Mud Lakes and Hwy 61 Zachary/Baker). Now called "Zachary Area Transmission Network Improvements: Phase I - 3 Pump Stations and Equalization Basin, Phase II – Red Mud Lakes Forcemain to NWWTP, Phase III – Forcemain to Highway 964 to Red Mud Lakes, Phase IV – Zachary Improvements". Phase I – Construction approximately 93% complete and on-going. Phase II – Construction NTP issued. Construction on-going. Phase III – Contractor having difficulty with pipe delivery of large diameter ductile iron pipe, however project still on schedule. Construction approximately 70% complete and on-going. Phase IV –**Project completed – 1st quarter 2012.**
South Boulevard - St. Joseph Street	✓			Now called "South Boulevard – St. Joseph Street Sewer Area Upgrades". Note that a portion of the 25th and North Acadian Thruway Project is included in this project to eliminate construction conflicts. **Project completed – 3rd quarter 2012.**
Downtown Area - PS59 Improvements	✓			Now called "Downtown Area Pump Station Improvements". Project merged with Downtown Area PS15, PS19, and PS60 Improvements. Significant scope addition to project during design. **Project completed – 3rd quarter 2012.**
Downtown Area - PS15, PS19 & PS60 Improvements	✓			Now called "Downtown Area Pump Station Improvements". Project merged with Downtown Area PS59 Improvements. Significant scope addition to project during design. **Project completed – 3rd quarter 2012.**

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Highland Road - Buchanan Street	✓			Now called "Highland Road – Buchanan Street Sewer Area Upgrades". **Project completed - 4th quarter 2011.**
Citiplace/Essen Area - PS119 & Forcemain Improvements	✓			**Project completed – 3rd quarter 2012.**
North Capacity Group 1A - Veterans Memorial Parkway - Gravity Mains		✓		Now called "Group Project 1A (Metro Airport Sewer Upgrades)". Construction contractor has had some issues with manhole coating and delivery due to construction conflicts in area of this project, though project is currently expected to be on schedule. Construction approximately 70% complete and on-going.
North Capacity Group 1B - Veterans Memorial Parkway - PS and FM		✓		Also called "Group Project 1B (Metro Airport Sewer Area Pump Station & Forcemain Upgrades)". Project is projecting delays at this time due to changes with the proposed extension schedule. Also, the project has experienced minor delays due to PS relocation and delays due to land acquisition issues (lot of land with title issues). Project is currently projecting to be functionally completed by 2nd quarter 2014. Construction 1% complete and on-going.
Perkins/Old Perkins Area - Booster PS 514 Improvements		✓		Construction approximately 92% complete and on-going.
Group 2 - Small Pump Stations	✓			Now called "Group Project 2 (Old Perkins – Highland Road Area Upgrades". **Project completed - 2nd quarter 2012.**

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Highland Road - Burbank Drive	✓			Now called "Highland Road – Burbank Drive Capacity Improvements". Project has experienced minor delays at this time due to utility relocation, land acquisition issues, inclement weather, and delayed due to pipe delivery. Also, the project is projecting delays at this time due to changes with the proposed extension schedule. At this time, contractor is projecting to be functionally complete by early 1st quarter 2013. Construction is approximately 77% complete and on-going.
Nicholson Dr - Highland Rd - Perkins Rd		✓		Now called "Nicholson Drive – Highland Road – Perkins Road Capacity Improvements Phase A" and "Nicholson Drive – Highland Road – Perkins Road Capacity Improvements Phase B". Note that a portion of this project (25%) has been separated out into phase A for early construction to eliminate conflicts with a nearby development. Phase A –**Project completed - 1st quarter 2012.** Phase B – Land acquisition and advertisement for bids underway. LSU portion of project to be moved into the Multiple PS – Nicholson – Brightside Project due to land acquisition delays with LSU. Construction NTP expected to be issued 2nd quarter 2013.
Perkins Road - Dahlia Street		✓		Now called "Bayou Duplantier Area Sewer Upgrades". Construction approximately 5% complete and on-going.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
25th Street - North Acadian Thruway	✓			Final design submitted and reviewed. NOTE: Portions of this project to be bid with both the Capital Lake – Gayosa Drive Project, and the South Blvd. – St. Joseph Street Project to eliminate construction conflicts. Since design of 25th – North Acadian Thruway is completed and construction work was combined with these two separate projects, this project has been closed. Please see status construction updates for the two projects mentioned above.
Government St - South Acadian Thruway		✓		Land acquisition on-going. Final design submitted and reviewed. Advertisement for bids expected to be underway 2nd quarter 2013. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 3rd quarter 2014.
Plank Road - Kleinpeter Road		✓		Now called "Plank Road – Kleinpeter Road Sewer Area Upgrades". Project is projecting delays at this time due to changes with the proposed extension schedule. Project has experienced minor delays due to construction conflicts with PS 45 and land acquisition issues. Projected functionally complete date at this time is 3rd quarter 2014. Land acquisition underway. Advertisement for bids underway. Construction NTP expected 2nd quarter 2013.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
O'Neal Lane - Jones Creek Road		✓		Now called "O'Neal Lane Pipeline Improvements – A" and "O'Neal Lane Pipeline Improvements – B". Project originally merged with O'Neal Lane – Tiger Bend Road project for ease of management and limit construction disruption in the area; however the project has been split up into 2 phases to help shorten the contractor construction durations in order to meet the EPA milestone schedules. Phase A - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 2nd quarter 2014. Land acquisition underway. Advertisement for bids expected to be underway 1st quarter 2013. Phase B - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 4th quarter 2014. Final design expected to be submitted and reviewed 1st quarter 2013. Land acquisition underway. Advertisement for bids for construction expected to begin 3rd quarter 2013.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
O'Neal Lane - Tiger Bend Road		✓		Now called "O'Neal Lane Pipeline Improvements – A" and "O'Neal Lane Pipeline Improvements – B". Now called "O'Neal Lane Pipeline Improvements". Project merged with O'Neal Lane – Jones Creek Road project for ease of management and limit construction disruption in the area; however the project has been split up into 2 phases to help shorten the contractor construction durations in order to meet the EPA milestone schedules. Phase A - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 2nd quarter 2014. Land acquisition underway. Advertisement for bids expected to be underway 1st quarter 2013. Phase B - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 4th quarter 2014. Final design expected to be submitted and reviewed 1st quarter 2013. Land acquisition underway. Advertisement for bids for construction expected to begin 3rd quarter 2013.
Multiple PS - Nicholson Dr - Brightside Dr		✓		Project is projecting delays at this time due to changes with the proposed extension schedule. Project has also experienced minor delays due to construction sequencing and LSU land acquisition issues. Projected functionally complete date at this time is 4th quarter 2014. Construction contractor selected. NTP for construction expected 1st quarter 2013.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
PS 58A Overflow Pump Station		✓		Now called "Pump Station 58 Capacity Improvements". Project is projecting delays at this time due to changes with the proposed extension schedule. There have been also some issues with obtaining LSU land which have caused minor delays during design. Projected project functionally complete at this time is 2nd quarter 2014. Construction approximately 2% complete and on-going.
Staring Lane FM A - Burbank to Highland	✓			Now called "Staring Lane FM (Phase I - Burbank Drive to Highland Road)". Constructed with City's Green Light Program project to eliminate potential constructability issues arising in that area. **Project completed – 2nd quarter 2010.**
Staring Lane FM B – PS58 Improvements (Highland to Perkins)	✓			Now called "Staring Lane FM (Phase II - Highland road to Perkins Road)". Project projecting to be delayed at this time, though the City/Parish is working with the contractor to minimize the delay. Project is to be constructed with City's Green Light Program project to eliminate potential constructability issues arising in that area which is the main cause of the delay. There have been also issues with utility relocation during construction phase. The anticipated construction functionally completion date is 3rd quarter 2013. Construction approximately 74% complete and on-going.
Staring Lane FM C - Perkins to PS 58		✓		Now called "Staring Lane FM (Phase III - Perkins to PS58)". Construction approximately 58% complete and on-going.
Multiple PS - Jefferson Hwy - Park Forest Dr		✓		**Project completed – 3rd quarter 2012.**

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Airline Highway - Jefferson Highway		✓		Now called "Airline Highway Pipeline Improvements". Project merged with both the Essen Lane – Interstate 12 project and the Airline Highway – Interstate 12 project for ease of management and to eliminate construction sequencing issues. Project is projecting delays at this time due to changes with the proposed extension schedule. Project has also experienced minor delays at this time due to land acquisition issues. At this time the construction functionally complete date is expected to be 4th quarter 2015. Land acquisition underway. Advertisement for bids expected to begin 2nd quarter 2013.
Essen Lane - Interstate 12			✓	Now called "Airline Highway Pipeline Improvements". Project merged with both the Essen Lane – Interstate 12 project and the Airline Highway – Interstate 12 project for ease of management and to eliminate construction sequencing issues. . Project is projecting delays at this time due to changes with the proposed extension schedule. Project has also experienced minor delays at this time due to land acquisition issues. At this time the construction functionally complete date is expected to be 4th quarter 2015. Land acquisition underway. Advertisement for bids expected to begin 2nd quarter 2013.
Multiple PS - Highland Road - Kenilworth Parkway			✓	Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 1st quarter 2017. Final design submitted. Advertisement for bids expected to begin 4th quarter 2014.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Multiple PS - Florida Blvd - Sherwood Forest Blvd			✓	Now called "Florida Boulevard Pump Station Improvements". Project merged with Airline/Florida Boulevard Area – PS30 Improvements & New PS project for ease of management and to eliminate construction sequencing issues. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 1st quarter 2015. 60% design submitted and under review. 90% design expected to be submitted 1st quarter 2013. Design on-going.
Multiple PS - Plank Road - Thomas Road			✓	Now called "Plank Road PS Improvements". Project merged with Multiple PS – Plank Road – Harding Boulevard project for ease of management and to eliminate construction sequencing issues. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 2nd quarter 2015. 30% design submitted and reviewed. 60% design expected to be submitted 1st quarter 2013. Design on-going.
Multiple PS - Plank Road - Harding Boulevard			✓	Now called "Plank Road PS Improvements". Project merged with Multiple PS – Plank Road – Thomas Road project for ease of management and to eliminate construction sequencing issues. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 2nd quarter 2015. 30% design submitted and reviewed. 60% design expected to be submitted 1st quarter 2013. Design on-going.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Multiple PS - Highway 61 - Plank Road			✓	Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 2nd quarter 2017. 15% design submitted and reviewed. 30% design expected to be submitted 1st quarter 2013. Design on-going.
Multiple PS - Jones Creek Rd - Tiger Bend Rd			✓	Project now split into 2 projects for ease of construction. Now called "O'Neal Lane Pump Station A" and "O'Neal Lane Pump Station B". Was previously called "O'Neal Lane Pump Station Improvements" which was a project that was created from merging 3 projects that included this project and both the Multiple PS – O'Neal Ln – S. Harrells Ferry Rd project and the Multiple PS – O'Neal Ln. – Interstate 10 project for ease of management and to eliminate construction sequencing issues. O'Neal Lane Pump Station A - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 2nd quarter 2015. Land acquisition underway. Final design submitted and reviewed. Advertisement for bids expected to be underway late 1st quarter 2013. Design on-going. O'Neal Lane Pump Station B - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 3rd quarter 2015. 90% design submitted and reviewed. Final design underway and expected to be submitted and reviewed 1st quarter 2013. Design on-going.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Airline Highway - Interstate 12			✓	Now called "Airline Highway Pipeline Improvements". Project merged with both the Essen Lane – Interstate 12 project and the Airline Highway – Interstate 12 project for ease of management and to eliminate construction sequencing issues. . Project is projecting delays at this time due to changes with the proposed extension schedule. Project has also experienced minor delays at this time due to land acquisition issues. At this time the construction functionally complete date is expected to be 4th quarter 2015. Land acquisition underway. Advertisement for bids expected to begin 2nd quarter 2013.
Florida Boulevard - Sherwood Forest Boulevard			✓	Now called "Sherwood Forest Blvd – Goodwood Blvd Pipeline Projects". Project merged with Florida Boulevard - Sherwood Forest Boulevard project for ease of management and to eliminate construction sequencing issues. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 4th quarter 2015. 30% design expected to be submitted and reviewed 1st quarter 2013. Design on-going.
Goodwood Boulevard - South Flannery Road			✓	Now called "Sherwood Forest Blvd – Goodwood Blvd Pipeline Projects". Project merged with Goodwood Boulevard – South Flannery Road project for ease of management and to eliminate construction sequencing issues. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 4th quarter 2015. 30% design expected to be submitted and reviewed 1st quarter 2013. Design on-going.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Joor Road - Greenwell Springs Road			✓	Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 1st quarter 2017. 30% design submitted and reviewed. 60% design expected to be submitted 4th quarter 2012. Design on-going.
Plank Road - Port Hudson Pride Road			✓	Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 1st quarter 2017. 30% design submitted and reviewed. 60% design expected to be submitted 1st quarter 2013. Design on-going.
Essen Lane - Highland Road			✓	Project now split into 2 projects for ease of construction. Now called "Highland Road Pipeline Improvements - A" and "Highland Road Pipeline Improvements – B". Project originally merged with Highland Road – Lee Drive project for ease of management and to eliminate construction sequencing issues; however the project has been split up into 2 phases to help shorten the contractor construction durations in order to meet the EPA milestone schedules. Highland Road Pipeline Improvements –A - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 4th quarter 2016. Final design underway and expected to be submitted 1st quarter 2013. Design on-going. Highland Road Pipeline Improvements – B - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 4th quarter 2016. Final design underway and expected to be submitted 1st quarter 2013. Design on-going.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Oak Villa Boulevard - Monterey Boulevard			✓	Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 4th quarter 2015. 30% and 60% designs submitted and reviewed. 90% design expected to be submitted 1st quarter 2013. Design on-going.
Lovett Road - Greenwell Springs Road			✓	Now called "Lovett Road – Greenwell Springs – A" and "Lovett Road – Greenwell Springs B". This project has been split up into 2 phases to help shorten the contractor construction durations in order to meet the EPA milestone schedules.. Lovett Road – Greenwell Springs – A - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 4th quarter 2015. 90% design expected to be submitted 1st quarter 2013. Design on-going. Lovett Road - Greenwell Springs – B – Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 1st quarter 2016. 60% design reviewed. 90% design expected to be submitted 1st quarter 2013. Design on-going.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Highland Road - Lee Drive			✓	Project now split into 2 projects for ease of construction. Now called "Highland Road Pipeline Improvements - A" and "Highland Road Pipeline Improvements – B". Project originally merged with Essen Lane – Highland Road project for ease of management and to eliminate construction sequencing issues; however the project has been split up into 2 phases to help shorten the contractor construction durations in order to meet the EPA milestone schedules.. Highland Road Pipeline Improvements –A - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 4th quarter 2016. Final design underway and expected to be submitted 1st quarter 2013. Design on-going. Highland Road Pipeline Improvements – B - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 4th quarter 2016. Final design underway and expected to be submitted 1st quarter 2013. Design on-going.
Multiple PS - Hooper Rd - Greenwell Springs Rd			✓	Now called "Hooper Road PS Improvements". Project merged with Multiple Booster PS – Hooper Rd – Lovett Rd project for ease of management and to eliminate construction sequencing issues. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 3rd quarter 2016. 60% design reviewed. 90% design expected to be submitted 1st quarter 2013. Design on-going.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Multiple Booster PS - Hooper Rd - Lovett Rd			✓	Now called "Hooper Road PS Improvements". Project merged with Multiple PS – Hooper Rd – Greenwell Springs Road project for ease of management and to eliminate construction sequencing issues. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 3rd quarter 2016. 60% design reviewed. 90% design expected to be submitted 1st quarter 2013. Design on-going.
Multiple PS - Prescott Rd - Greenwell Springs Rd			✓	Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 2nd quarter 2017. 30% design submitted and under review. 60% design expected to be submitted 1st quarter 2013. Design on-going.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Multiple PS - O'Neal Ln – Interstate 10			✓	Project now split into 2 projects for ease of construction. Now called "O'Neal Lane Pump Station A" and "O'Neal Lane Pump Station B". Was previously called "O'Neal Lane Pump Station Improvements" which was a project that was created from merging 3 projects that included this project and both the Multiple PS – O'Neal Ln – S. Harrells Ferry Rd project and the Multiple PS – O'Neal Ln. – Interstate 10 project for ease of management and to eliminate construction sequencing issues. O'Neal Lane Pump Station A - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 2nd quarter 2015. Land acquisition underway. Final design submitted and reviewed. Advertisement for bids expected to be underway late 1st quarter 2013. Design on-going. O'Neal Lane Pump Station B - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 3rd quarter 2015. 90% design submitted and reviewed. Final design underway and expected to be submitted and reviewed 1st quarter 2013. Design on-going.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Multiple PS - O'Neal Ln - S. Harrells Ferry Rd			✓	Project now split into 2 projects for ease of construction. Now called "O'Neal Lane Pump Station A" and "O'Neal Lane Pump Station B". Was previously called "O'Neal Lane Pump Station Improvements" which was a project that was created from merging 3 projects that included this project and both the Multiple PS – O'Neal Ln – S. Harrells Ferry Rd project and the Multiple PS – O'Neal Ln. – Interstate 10 project for ease of management and to eliminate construction sequencing issues. O'Neal Lane Pump Station A - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 2nd quarter 2015. Land acquisition underway. Final design submitted and reviewed. Advertisement for bids expected to be underway late 1st quarter 2013. Design on-going. O'Neal Lane Pump Station B - Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 3rd quarter 2015. 90% design submitted and reviewed. Final design underway and expected to be submitted and reviewed 1st quarter 2013. Design on-going.
Airline/Florida Boulevard Area - PS30 Improvements & New PS			✓	Now called "Florida Boulevard Pump Station Projects". Project merged with Multiple PS - Florida Blvd - Sherwood Forest Blvd project for ease of management and to eliminate construction sequencing issues. Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 1st quarter 2015. 60% design submitted and under review. 90% design expected to be submitted 1st quarter 2013. Design on-going.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Multiple PS - Burbank Drive - Siegen Lane			✓	Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 1st quarter 2015. 30% design submitted and reviewed. 60% design expected to be submitted 1st quarter 2013. Design on-going.
Central Consolidation - Central PS42		✓		Now called "Pump Station 42". Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 2nd quarter 2014. Contractor mobilization on-going. Construction contractor mobilization delays have occurred due to multiple contractor conflicts. Construction on-going.
Central Consolidation - Central PS42 FM		✓		Now called "Pump Station 42 Forcemain – Phase I" and "Pump Station 42 Forcemain – Phase II". Project divided into 2 projects for ease of management during construction, and so that the downstream south collection system interrelated projects won't be impacted by LSU land acquisition/construction issues. Phase I – Numerous issues with bore pit collapse and incorrect pipe installation. Construction approximately 10% complete and on-going. Phase II –Additional scope added to project (FM from PS1). Contractor mobilization on-going. Construction on-going.
Central Consolidation Eastside PS's - PS 2, 3, 4, 5, 6, 7, & 10		✓		Now called "Central Consolidated Pump Stations". Project is projecting delays at this time due to changes with the proposed extension schedule. Projected functionally complete date at this time is 2nd quarter 2014. Construction approximately 31% complete and on-going.

TABLE 3
EPA Consent Decree RMAP2 Milestones for Category 2 Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Central Consolidation Eastside FM's - FM from PS 2, 3, 7, 10, & 5		✓		Now called "Central Consolidated FM – Phase I and Central Consolidated FM – Phase 2". Project divided into 2 projects for ease of management and to minimize impact to businesses during construction. Phase I - Construction approximately 32% complete and on-going. Phase 2 - Construction on-going.

NOTE: Projects that are currently projecting delays at this time due to changes with the proposed extension schedule are noted in the "Project Status Summary" column of the table.

1.2.3 Category 3: Wastewater Treatment and Storage

This category of projects includes improvements at the City/Parish WWTPs, as well as storage facilities throughout the service area. There are not any RMAP2 projects that have been identified at the North WWTP, but several projects are being done by the City/Parish to improve plant performance and odor control. Based on extensive evaluations in the *Draft Wastewater Master Plan* (May 2008), the existing Central WWTP has insufficient flows to justify the cost of renovation and upgrading for future requirements, and will be retired when the RMAP2 projects are completed at the South WWTP. Flows predicted for the current central service area will be diverted to the South WWTP and adjustments will be made in the South WWTP improvements to handle the increased flows.

Summaries of the WWTP projects that are part of RMAP2 submittal are described below.

- The Immediate Action Plan (IAP) South WWTP Project includes screening, trickling filter recirculation pumping, primary treatment improvements, and bio-solids thickening improvements. Note that this project was made up of three separate projects that were grouped together for ease of execution and construction coordination. Also note that the effluent pumping IAP project has been completed.
- Phase 1 Improvements at the South WWTP for Wet Weather Flow including influent pumping, and screening and grit removal for a predicted flow of 345 million gallons per day (MGD). Phase 1 also includes 64 million gallons of equalization storage at the South WWTP.
- Phase 2 Improvements at the South WWTP include wet weather flow treatment with a peak capacity of 200 MGD (as previously approved in the November 2006 RMAP2).

In addition, there are storage projects sized to reduce peak flows to existing treatment plants that are also a part of this RMAP2 submittal, and are listed as follows and described in Table 4.

- South - Choctaw Storage Facility
- North – Hooper Storage Facility

These storage projects are part of the transmission system that allows for retaining (storage) of peak wet weather flows and permits that stored flow is later released for treatment at the treatment plant. All projects of this type are already underway. The details of the wastewater treatment and storage projects are listed in Table 4 below, and are current through December 31, 2012.

TABLE 4
EPA Consent Decree RMAP2 Milestones for Category 3Projects
All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	**66% Construction Milestone**	**100% Construction Milestone**	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
Project Descriptions				
RMAP2 Projects				
Choctaw Storage, PS 52A, PS 51A, PS 51AA, & FMs, & Return Pipe	✓			Also called "Choctaw Storage and Pump Station Facility". Project has experienced minor delays in processing contracts, inclement weather, and other Metro project conflicts, and is projected to be delayed at this time. At this time the construction contractor is projecting the project to be functionally complete 2nd quarter 2013. Construction approximately 77% complete and on-going.
Hooper Storage	✓			The project has been delayed due to concerns of the residents in this North area of the City/Parish, which resulted in choosing a new location on the BTR Regional Airport land. This land acquisition issue has resulted in significant delays resulting in revised design contracts. Location has changed 3 times due to these unforeseen circumstances beyond control of the City/Parish. The anticipated construction functionally completion date is 3rd quarter 2014. Advertisement for bid underway. Construction NTP expected early 1st quarter 2013.
South WWTP IAP Consolidated – Screening, Primary Treatment, Trickling Filter Recirculation, Sludge Handling	✓			**Project completed – 2nd quarter 2011.**
South WWTP IAP- Effluent Pumping Improvements	✓			**Project completed – 1st quarter 2008.**
South WWTP - Phase 1		✓		Also called "SWWTP Wet Weather Improvements -Phase I".

TABLE 4

EPA Consent Decree RMAP2 Milestones for Category 3Projects

All RMAP2 Projects Will Have Milestone Completion Design Dates - 3rd Quarter 2013

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	
Milestone Date	**4th QTR 2012**	**1st QTR 2014**	**4th QTR 2014**	
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**Project Status Summary**
				Construction is approximately 98% complete and is on-going.
South WWTP - Phase 2			✓	Also called "SWWTP Wet Weather Improvements - Phase II". Construction is approximately 25% complete and is on-going.

1.3 Infiltration and Inflow Reduction Activities Summary

Another part of the Collection System Remedial Program identified in the Consent Decree Section XII is capital infiltration/inflow (I/I) reduction activities. Pursuant to item 35 in Section XII, the City/Parish is required to spend at least $3 million annually for sewer repairs, sewer rehabilitation, and other capital expenditures related to reducing I/I in the North, South, and Central WWTP collection systems. The City/Parish spent approximately $4.78 million, therefore this goal was exceeded during 2012. The City/Parish was in compliance with Section XII Collection System Remedial Program during this reporting period. There were no problems encountered in the Collection System Remedial Program during this reporting period and non-compliance is not anticipated during the next reporting period. Table 5 identifies the funds expended during 2012 to meet this requirement.

TABLE 5

I/I Reduction Activities Summary – Data through December 31, 2012

Project	Description	% Complete	Contract Amount	Expenditures 2012
07-PN-UF-0041	Annual CDR Point Repair Project	100%	$ 450	$ 450
08-PI-UF-051	Sewer Physical Inspection 2011-2012	86%	$ 666,500	$ 575,593
11-MH-UF-0006	Manhole Rehabilitation Contract	56%	$ 1,500,000	$ 843,928
11-CP-UF-0007	Cured-In-Place Pipe Lining	25%	$ 2,000,000	$ 502,737
11-PN-UF-0043	Annual CDR Repair & Replacement Project	36%	$ 1,163,048	$ 422,800
12-PI-MS-0009	Sewer Physical Inspection Contract #1	63%	$ 2,000,000	$ 1,250,310
12-PI-MS-0010	Sewer Physical Inspection Contract #1	59%	$ 2,000,000	$ 1,185,890
TOTAL EXPENDITURES IN 2012			**$ 9,329,998**	**$ 4,781,708**

2. Treatment Facility Assessment

Pursuant to Consent Decree Section XIII, Remedial Measure Treatment Facility Assessment, no later than March 30, 2002 the City/Parish was to submit a Treatment Facility Assessment report which assesses the treatment capabilities of the North, South, and Central WWTPs. The City/Parish submitted *Treatment Facility Assessment Report* on March 26, 2002 in conjunction with MWH. It was determined in the original *Treatment Facility Assessment* Report that all process units and conveyance elements had capacity for current and projected design flows at all three WWTPs and no WWTP facility improvements or expansion were required. The *Treatment Facility Assessment Report* also indicated that the monthly Operators Process Control meetings led by Dr. John J. Sansalone of LSU were having a beneficial impact on plant performance.

Since that time, there have been additional engineering assessments and studies of the WWTPs which resulted in the need for treatment plant improvements at the South WWTP which are now included in the RMAP2 projects presented in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008) and approved by the *Agreement and Order Regarding the Modification of the Consent Decree - Civil Action No. 01-978-B-M3 (M.D. La.)* signed in April 2009.

The City/Parish submitted Municipal Water Pollution Prevention (MWPP) Environmental Audit Reports for the North, South, and Central WWTPs on November 16, 2012 (see ***Attachment B: MWPP Audit Reports - South, North, and Central WWTPs***). These reports contain an evaluation and rating for influent loadings, plant performance, overflows and bypasses, treatment plant age, sludge disposal, new development in collection system, and operator certification training for the North, South and Central WWTPs. The MWPP audit rated the treatment plants on the aforementioned factors for the year following the entry into the Consent Decree. The actions that will be taken to maintain compliance and prevent effluent violations are presented in MWPP resolutions, which were submitted along with the audit. Some of those actions include managing a project to reduce the high concentration of hydrogen sulfide at the North and South treatment plants, in addition to those projects identified in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008) in all three WWTP collection system areas.

3. Environmental Results Monitoring

Pursuant to Consent Decree Section XIV, Remedial Measures – Environmental Results Monitoring Plan, the City/Parish shall implement the Environmental Results Monitoring (ERM) Plan attached in Consent Decree Exhibit G. The objective of the ERM program is to measure the environmental benefits from the Work performed under the Consent Decree through measurement of water quality improvements. The impact of the work throughout the City/Parish is tested by monitoring sewage indicating pollutants in major receiving waters prior to and following completion of remedial measures within each drainage basin. The original plan outlines four sampling locations, including all major tributaries in East Baton Rouge Parish, which enter the Amite River System – and eventually Lake Pontchartrain.

The Phase I Baseline Monitoring was completed during the 2004 reporting period. The Phase II Results Monitoring will begin 6 months following completion of all remedial measures within a specified drainage area contributing to an identified sampling location.

4. Interim Relief Measures Activities

Paragraph 39 of the Consent Decree provides interim effluent limits of 75% removal of BOD and TSS (based on 30-day average removal rates), until completion of all RMAP construction projects, as an interim relief to the 85% removal requirement of the three WWTP National Pollution Discharge Elimination System (NPDES) permits.

4.1 North WWTP

During 2011, the North WWTP has been in compliance with the 75% interim effluent limits for the entire 12 months of the reporting period for both removal of BOD and TSS. In fact, the North WWTP met the permit limit of 85% removal for TSS for 11 months, and it also met the permit limit for 85% removal of BOD for 8 months, as illustrated by Table 6.

During the first quarterly reporting period of 2012 the NWWTP had two final clarifiers out of service which were resolved. In addition there were unusually high flows at the plant from heavy rain events during February and March. There were no compliance issues reported at the North WWTP during the second, third, and fourth quarters of 2012.

4.2 Central WWTP

The Central WWTP has been in compliance with the 75% interim effluent limits for removal of TSS and BOD for all 12 months during this reporting period. The Central WWTP also has met the permit limit of 85% removal of TSS for all 10 months and BOD for 4 months as illustrated by Table 6.

There were not any compliance issues reported at the Central WWTP during the first, second, third and fourth quarters of 2012.

4.3 South WWTP

The South WWTP has been in compliance with the 75% interim effluent limit and 85% limit for TSS all 12 months during this reporting period. The South WWTP also met the 75% effluent limit for BOD for 11 months of the year, and it met the 85% effluent limit for BOD for 5 months.

During the first quarterly reporting period of 2012 Primary Basin (#6) was out of service and two sludge tractors were in need of repair. All repairs were completed by the end of the quarter. In addition the South WWTP experienced unusually high flows in February and March due to heavy rain events.

During the second quarterly reporting period of 2012, specifically during April, the South WWTP experienced an unstable and unusual change in the WWTP influent flows caused by changes in the pump stations upstream of the WWTP. Also, during the month of April and May the South WWTP experienced high flows due to heavy rainfall. Additionally, Trickling Filter #3 was out of service due to mechanical issues, and Primary Basins (#1 and #2) were out of service due to construction going on at the South WWTP which were resolved.

The South WWTP's new sodium hypochlorite feed system went on-line in July during third quarterly reporting period of 2012, and a number of adjustments were required to select the

optimum operating range for the sodium hypochlorite system. In addition, the South WWTP experienced extremely high flows during August due to Hurricane Isaac.

There were not any compliance issues reported at the South WWTP during the fourth quarter of 2012.

More details can be found in the Quarterly EPA Reports from 2012. The South Plant's performance should improve further with the completion of the RMAP2 projects.

TABLE 6
2012 Monthly Average Percent Removal

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
North Plant-LA0036439												
BOD	80	78	82	87	89	86	88	87	88	89	86	82
TSS	86	83	90	89	90	92	93	91	90	91	89	88
Central Plant-LA0036421												
BOD	78	76	80	86	85	84	84	84	83	88	86	83
TSS	86	84	86	85	87	89	86	90	88	88	85	84
South Plant-LA0036412												
BOD	76	74	76	81	86	86	87	84	84	84	85	85
TSS	86	85	85	88	88	89	89	87	89	92	93	92

5. Outreach and Public Awareness Program

Consent Decree Section XV - Outreach and Public Awareness Plan requires the City/Parish DPW to implement and follow the Outreach and Public Awareness Program Plan attached in Exhibit H of the Consent Decree. The Outreach and Public Awareness Program Plan was updated in December 2007 and has been completed and reviewed/approved by the City/Parish, and then submitted in both the 2011 Annual EPA Report and 36th Quarterly EPA Report.

Outreach and Public Awareness Program Plan implementation efforts have been on-going. Public information tools such as the website
http://www.brprojects.com/SSOProgram/Default.aspx

are being continuously updated with new information about the program, public meetings, project information (including monthly progress reports detailing the status of the projects), regulatory information and associated reference documents, and news articles about the SSO Control and Wastewater Facilities Program, etc.

Fact sheets have been developed on the SSO Program and for individual projects, as well as public education brochures giving information about SSOs, and are regularly distributed at public meetings and can be accessed as well via the website. These materials describe pertinent information and aspects about the City/Parish SSO Control and Wastewater Facilities Program. Program staff regularly attends Metro Council meetings, and have given presentations at numerous other public meetings, such as the growth coalition, technical professional societies, and other economic and planning groups throughout the City/Parish. Additionally, prior to

any field work commencing in areas, informational door hangers are hung on those homes where inspection work will be taking place or where residents may experience construction impacts.

Also the SSO Control and Wastewater Facilities Program put together monthly status updates and Quarterly Progress Reports that have been made available and distributed to the public. The Quarterly Progress Reports are available on the program web site posted on the website for the public to download at their convenience and are always distributed to City/Parish and DPW staff. In addition the Monthly Progress Reports are also distributed to a mailing list that includes community and civic leaders and interested members of the public. These reports are distributed at public meetings in Council Districts throughout the Parish and are available to the public as handouts at the City/Parish Department of Public Works office. The plan is for these reports to continue to be distributed to those on the master list and posted on the website; in addition they will also be handed out or mailed to anyone who requests them throughout the duration of the SSO Control and Wastewater Facilities Program.

SSO program communications continue to provide City/Parish residents with time critical information on SSO Control and Wastewater Facility Program projects, educational information on SSOs, and updates on the status of the Program and related projects. In close collaboration with the Office of the Mayor-President and the Department of Public Works, the Program has initiated a construction communication outreach component to complement the Program's current communication activities. The Program Communication Team has designed and distributed a variety of outreach materials. A telephone hotline for residents to call with questions was developed and coordination between the SSO Program and the Parish's 311 call center was established. Additionally, materials including information letters and handouts, door hangers announcing road closures, were developed and are continuing to be distributed.

The information presented in this section demonstrates that the City/Parish has been in compliance with Section XV Outreach and Public Awareness Program during the reporting period.

6. Plan Modification Needs

The City/Parish has not identified any deficiencies in the Cross Connection Elimination Plan, the Preventive Maintenance Program, the Sanitary Sewer Overflow Response Plan, or the Remedial Measures Action Plan.

7. Stipulated Penalties

Table 7 presents a summary of submittal and construction milestone dates subject to stipulated penalties in accordance with Section XXI of the Consent Decree. As of December 31, 2012, no submittal milestone deadlines have been missed.

Non-compliance items, which are subject to stipulated penalties in accordance with Section XXI of the Consent Decree, are identified in each Consent Decree Quarterly EPA Report. A summary of penalties assessed and paid by the City/Parish and a cumulative summary of penalties assessed and potential stipulated penalties reported in past quarterly reports from 2012 are presented in Tables 7 and 8.

TABLE 7
Penalties Assessed and Paid by the City/Parish to Date

Penalties	Assessed	Paid	
		US DOJ	LDEQ
Civil Penalties	$729,500	$364,750	$364,750
Past Stipulated Penalties (1988 Consent Decree)	$216,000	$216,000	

Note: These monetary stipulated penalties have been already paid by the City/Parish in 2002.

TABLE 8
Self-Reported Potential Stipulated Penalties 2012 (SSOs and WWTP violations)

Stipulated Penalties	Number	Cost Per Occurrence	Amount Accrued
Unauthorized Discharges 2012			
Less than 1 MG & Non-Compliance with the Collection System Preventative Maintenance Plan	64	$5,000	$320,000
Less than 1 MG & Non-Compliance with the Sanitary Sewer Overflow Response Plan	1	$5,000	$5,000
1 MG or more	2	$5,000	$10,000
Non-Compliant Discharges (WWTP) 2012			
Weekly Average Limits	9	$1,000	$9,000
Monthly (30-day average) Limits	9	$2,500	$22,500
2012 Total Stipulated Penalties (through December 31, 2012)			**$366,500**

Note: None of these self-reported stipulated penalties in this table have been assessed to the City/Parish by the DOJ/EPA/LDEQ or have been paid by the City/Parish at this time. Historical data utilized in this table was taken from the City/Parish Quarterly EPA Reports.

Attachment A
October 2012 (4 yr) Request for Time Extension/Modification of the Compliance Schedule in the Approved RMAP2 Submittal

Department of Public Works

City of Baton Rouge
Parish of East Baton Rouge

Post Office Box 1471
Baton Rouge, La 70821

October 23, 2012

CERTIFIED – RETURN RECEIPT REQUESTED

Director,
Water Enforcement Branch (6EN-W)
Compliance Assurance and Enforcement Division
U.S. Environmental Protection Agency, Region VI
1445 Ross Avenue
Dallas, Texas 75202-2733

Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
Modified Request for Time Extension/Modification of the Compliance Schedule in the Approved RMAP2 Submittal - Consent Decree Section XII (Remedial Measures – Collection System Remedial Program) Paragraph 34-D-iii, and Section XXII (Force Majeure)

Mr. Blevins

At this time, the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) hereby requests a **four (4) year** schedule extension and corresponding modification of the approved Second Remedial Measures Action Plan compliance schedule submitted by the City/Parish in September 2008 [report titled - *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program*] which was adopted in the *Agreement and Order Regarding the Modification of Consent Decree* (April 2009) by the Department of Justice (DOJ), United States Environmental Protection Agency (EPA), and Louisiana Department of Environmental Quality (LDEQ). This formal modified request is based on meetings and discussions with DOJ, EPA, LDEQ, and third parties during the past year; the most recent of which took place on July 24, 2012.

The City/Parish is now requesting an additional one (1) year, to the previously requested three (3) year extension schedule (submitted July 1, 2011), for a total extension request at this time of **four (4) years**. This modified request comes after one (1) year of its original submission, and is due largely to the delays with court approval, third party lawsuits, and interventions with the original extension request. These significant delays with the original extension approval created a circumstance where the City/Parish couldn't start the NWWTP projects as soon as expected, and as such has pushed other 3rd milestone projects out for up to a year.

The extension request, and corresponding modified compliance schedule, will extend the final compliance date to **December 31, 2018**. This extended compliance date falls within the 10 - 15 year implementation period for RMAP2 completion for a medium burden utility. Note that this request for extension will not change the objectives stated in Section V of the Consent Decree, or the scope of projects originally adopted by the *Agreement and Order Regarding the Modification of Consent Decree* (April 2009) that are described in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow*

Control and Wastewater Facilities Program (September 2008). All of the original projects will be completed (if not already functionally complete), and only the lower priority projects will have schedules that extend beyond the original deadline.

The City/Parish is proposing compliance schedule project adjustments to defer the lower priority rehabilitation projects and those capacity projects in the upper reaches of the system, while accelerating the additional North Wastewater Treatment Plant (NWWTP) Master Plan projects and NWWTP Public Project. The milestones for the major South Wastewater Treatment Plant projects and critical capacity projects that should most effectively reduce overflows and ensure wastewater treatment plant permit compliance will be maintained.

The City/Parish has put together two attachments listed below, which are included with this submittal for the benefit of DOJ, EPA, and LDEQ to help ensure a timely response to the **four (4) year** extension request. It is the intent of the City/Parish that Attachment 1- Proposed EPA Compliance Schedule takes the place of the previously submitted compliance schedule included in the July 1, 2011 original extension request. Additionally, the rest of the reasoning and justification the City/Parish included behind the original extension request still stands true, especially for issues related to force majeure, and affordability. The City/Parish continues to make significant progress on implementation of RMAP2 projects, and as of September 30, 2012 there are 27 RMAP2 projects functionally completed (ahead of schedule), 32 projects under construction, and 35 projects under design, and the City/Parish is in the peak of construction. The City/Parish wants to restate its commitment to implementing in a timely fashion the additional projects listed in Attachment 2 – Proposed Schedule for Additional Projects, especially those at and surrounding the NWWTP which include over $100 Million dollars in additional investments in system improvements.

It is very important that the City/Parish get approval of the extension and updated compliance schedules, in order for the schedule adjustments to have the desired benefits. The City/Parish requests a meeting discussing this submission with DOJ, EPA, and LDEQ as soon as possible, in order to ensure a timely response to this **four (4) year** extension request.

Summary of Attachments

1 – Proposed EPA Compliance Schedule

2 – Proposed Schedule for Additional Projects

I certify that the information contained in or accompanying this document is true, accurate and complete. As to identified portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate and complete.

Sincerely,

Mr. David Guillory
Acting Director of Public Works

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
Mr. William B. Daniel, IV, Chief Administrative Officer
Mr. Michael Donnellan, US DOJ
Dr. Al Amendariz, US EPA Region 6 Regional Administrator
Mr. Lawrence Starfield, US EPA Region 6 Deputy Regional Administrator
Mr. John Blevins, US EPA Region 6 Compliance Division Director (CEN)
Ms. Suzanne Murray, US EPA (6RC)
Ms. Cheryl Seager, US EPA (6RC-E)
Ms. Carol Peters-Wagnon, US EPA (6EN-WM)
Ms. Mona Tates, US EPA Region 6
Mr. Carlos Zequeira, US EPA (6RC-EA)
Ms. Gladys Gooden-Jackson, US EPA (6EN-WC)
Mr. Scott McDonald, US EPA Region 6
Mr. Rusty Herbert, US EPA Region 6
Ms. Peggy Hatch, LDEQ
Ms. Cheryl Nolan, LDEQ
Mr. Perry Theriot, LDEQ
Mr. Ted Broyles, LDEQ
Ms. Mary Roper, Parish Attorney
Mr. Bob Abbott, Parish Attorney's Office
Mr. Bryan Harmon, DPW
Mr. Jim Ferguson, DPW
Mr. Mark LeBlanc, DPW
Mr. Michael Ellis, CH2MHILL
Mr. Jim Hawley, CH2M HILL
Ms. Jennifer Baldwin, CH2M HILL
Mr. Gordon Garner, CH2M HILL
Ms. Karen Johnson, CH2M HILL

Attachment 1

Proposed EPA Compliance Schedule as of October 23, 2012

Attachment 1 – Proposed EPA Compliance Schedule

This attachment is proposed to replace the City/Parish's compliance schedule submitted by the City/Parish in the July 1, 2011 Extension Request and the September 2008 [report titled - *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program*] which was adopted in the *Agreement and Order Regarding the Modification of Consent Decree* (April 2009) by DOJ, EPA, and LDEQ. This revised EPA milestone compliance schedule is depicted in Tables 1, 2, and 3. **Note that no projects have been added or deleted to these tables; all of the original projects included in the previously approved RMAP2 will still be completed.** Only the lower priority projects that fall into the last 100% Milestone column will extend beyond the original deadline.

The City/Parish is proposing compliance schedule project adjustments to defer lower priority rehabilitation projects and those capacity projects in the upper/outer reaches of the system, while accelerating the needed additional North Wastewater Treatment Plant Master Plan projects (see Attachment 2 – Proposed Schedule for Additional Projects), and thereby maintaining the compliance schedules for the major wastewater treatment plant projects and critical capacity projects that should most effectively reduce overflows and ensure wastewater treatment plant permit compliance. Estimated construction costs have been included for those projects that fall into the final 100% Construction Milestone of **4th Quarter 2018**. There is an estimated $260 Million dollars of RMAP2 construction projects included in that milestone.

Category 1: Comprehensive Sewer Basin Rehabilitation

Based on sewer system digital model analysis and flow monitoring, several sub-basins within the collection system require comprehensive rehabilitation. Sewer system comprehensive rehabilitation projects will be implemented to repair or replace components of the system that are defective and permit excessive infiltration and inflow.

Overall, all of the rehabilitation projects were prioritized by working first in the outer areas of the City/Parish and then moving in. However, at the same time those areas with a greater frequency of SSO's were started in advance of those areas with less frequency, so in some cases projects were started closer to the WWTP first if they have high frequencies of SSOs. This logic was continued with the first draft of extension schedule, so those projects that were adjusted with the extension will be in areas with a lesser frequency of SSO's.

Table 1 presents the Category 1 comprehensive rehabilitation projects and anticipated delivery milestone schedules. Note that any pump station improvements are included in the projects listed in Category 2, Pump Station and Transmission Improvements on the following pages.

TABLE 1

Updated EPA Consent Decree RMAP Milestones for Category 1 Projects

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Estimated Construction Cost
Milestone Date	1st QTR 2013	2nd QTR 2015	4th QTR 2018	Millions
Construction Status	Construction Functionally Complete	Construction Functionally Complete	Construction Functionally Complete	(M)
Project Descriptions RMAP2 Projects				
Jefferson Hwy – HooShooToo Road	✓			
Staring Lane – Boone Drive Area Rehabilitation Project	✓			
Burbank Drive – Gardere Lane Area Rehabilitation Project	✓			
Oak Villa –Choctaw Street Area Rehabilitation Project	✓			
Scotland Avenue – Progress Road Area Rehabilitation Project	✓			
Elm Grove Garden Road – Harding Boulevard Area Rehabilitation Project	✓			
Sharp Road – Florida Boulevard Area Rehabilitation Project	✓			
Kenilworth Boulevard – Boone Drive Area Rehabilitation Project	✓			
Foster Drive - Government Street Area Rehabilitation Project Phase A and B	✓			
Silverleaf Road – Ford Street Area Rehabilitation Project	✓			
Brookstown Road - Evangeline Street Phase I Area Rehabilitation Project	✓			
Brookstown Road – Evangeline Street Phase II Area Rehabilitation Project	✓			
Bluebonnet Blvd – Jefferson Hwy Phase I Area Rehabilitation Project		✓		
Bluebonnet Blvd – Jefferson Hwy Phase II Area Rehabilitation Project		✓		
Highland Road – Washington Street Area Rehabilitation Project		✓		
Standford Avenue – Morning Glory Road Area Rehabilitation Project	✓			
Airline Highway – Goodwood Blvd Phase I Area Rehabilitation Project		✓		
Airline Highway – Goodwood Blvd Phase II Area Rehabilitation Project		✓		
Acadian Thruway – Claycut Road Area Rehabilitation Project		✓		
Acadian Thruway – Perkins Road Area Rehabilitation Project	✓			

TABLE 1

Updated EPA Consent Decree RMAP Milestones for Category 1 Projects

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Estimated Construction Cost
Milestone Date	**1st QTR 2013**	**2nd QTR 2015**	**4th QTR 2018**	**Millions**
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**(M)**
Antioch Road – Chadsford Drive Area Rehabilitation Project		✓		
Jones Creek Road – Tiger Bend Road Area Rehabilitation Project			✓	**$12 M**
Scenic Highway – Spanish Town Road Phase I Area Rehabilitation Project			✓	**$9 M**
Scenic Highway – Spanish Town Road Phase II Area Rehabilitation Project			✓	**$9 M**
Siegen Lane – Interstate 10 Area Rehabilitation Project			✓	**$6 M**
Interstate 110 – Hollywood Street Area Rehabilitation Project			✓	**$6 M**
Ardenwood Drive – Winbourne Street Area Rehabilitation Project			✓	**$5 M**
Flannery Road – Florida Boulevard Area Rehabilitation Project			✓	**$6 M**
East Boulevard – Government Street Area Rehabilitation Project			✓	**$6 M**
North 38th Street – Gus Young Avenue Area Rehabilitation Project			✓	**$8 M**

***Note that no projects have changed milestone columns since the original extension request dated July 1, 2011. Only the milestone dates have changed.**

Category 2: Pump Station and Transmission Improvements

The Infoworks™ digital wastewater model was used to identify necessary increases in capacity of existing gravity trunk sewers, pump stations, and force mains in order to accommodate peak wastewater flows remaining in the rehabilitated collection system. Table 2 presents a list of Category 2 projects with corresponding milestone schedules.

TABLE 2

Updated EPA Consent Decree RMAP Milestones for Category 2 Projects

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Estimated Construction Cost
Milestone Date	1st QTR 2013	2nd QTR 2015	4th QTR 2018	Millions
Construction Status	Construction Functionally Complete	Construction Functionally Complete	Construction Functionally Complete	(M)
Project Descriptions RMAP2 Projects				
Capitol Lake – Gayosa Street Area Capacity Improvements	✓			
Gurney Road - Joor Road	✓			
Sullivan Rd./Lovett Rd./Wax Rd. Sewer Upgrades	✓			
Comite Road – Foster Road Sewer Area Upgrades - Phase I	✓			
Foster Road – Hooper Road Sewer Area Upgrade	✓			
Zachary Area Transmission Network Improvements Phase I - 3 Pump Stations and Equalization Basin		✓		
Zachary Area Transmission Network Improvements Phase II – Red Mud Lakes Forcemain to NWWTP		✓		
Zachary Area Transmission Network Improvements Phase III – Forcemain to Highway 964 to Red Mud Lakes		✓		
Zachary Area Transmission Network Improvements Phase IV – Zachary Improvements		✓		
South Boulevard – St. Joseph Street Sewer Area Upgrades	✓			
Downtown Area Pump Station Improvements		✓		
Highland Road – Buchanan Street Sewer Area Upgrades	✓			
Citiplace/Essen Area - PS119 & Forcemain Improvements	✓			
Group Project 1A (Metro Airport Sewer Upgrades)		✓		
Group Project 1B (Metro Airport Sewer Area Pump Station & Forcemain Upgrades)".		✓		

TABLE 2

Updated EPA Consent Decree RMAP Milestones for Category 2 Projects

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Estimated Construction Cost
Milestone Date	1st QTR 2013	2nd QTR 2015	4th QTR 2018	Millions
Construction Status	Construction Functionally Complete	Construction Functionally Complete	Construction Functionally Complete	(M)
Perkins/Old Perkins Area - Booster PS 514 Improvements		✓		
Group Project 2 (Old Perkins – Highland Road Area Upgrades)	✓			
Highland Road – Burbank Drive Capacity Improvements		✓		
Nicholson Drive – Highland Road – Perkins Road Capacity Improvements Phase A		✓		
Nicholson Drive – Highland Road – Perkins Road Capacity Improvements Phase B		✓		
Bayou Duplantier Area Sewer Upgrades		✓		
25th Street - North Acadian Thruway	✓			
Government St - South Acadian Thruway Sewer Area Upgrades		✓		
Plank Road – Kleinpeter Road Sewer Area Upgrades		✓		
O'Neal Lane Pipeline Improvements – Group A		✓		
O'Neal Lane Pipeline Improvements – Group B		✓		
Multiple PS - Nicholson Dr - Brightside Dr		✓		
Pump Station 58 Capacity Improvements		✓		
Staring Lane FM (Phase I - Burbank Drive to Highland Road)	✓			
Staring Lane FM (Phase II - Highland road to Perkins Road)		✓		
Staring Lane FM (Phase III - Perkins to PS58)		✓		
Multiple PS - Jefferson Hwy - Park Forest Dr		✓		
Airline Highway Pipeline Improvements			✓	**$38 M**
Multiple PS - Highland Road - Kenilworth Parkway			✓	**$11 M**
Florida Boulevard Pump Station Improvements			✓	**$16 M**

TABLE 2

Updated EPA Consent Decree RMAP Milestones for Category 2 Projects

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Estimated Construction Cost
Milestone Date	**1st QTR 2013**	**2nd QTR 2015**	**4th QTR 2018**	**Millions**
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**(M)**
Plank Road Pump Station Improvements			✓	**$9 M**
Multiple PS - Highway 61 - Plank Road			✓	**$6 M**
O'Neal Lane Pump Station Improvements – Group A			✓	**$13 M**
O'Neal Lane Pump Station Improvements – Group B			✓	**$10 M**
Sherwood Forest Blvd – Goodwood Blvd Pipeline Improvements			✓	**$12 M**
Joor Road - Greenwell Springs Road Sewer Area Upgrades			✓	**$7 M**
Plank Road - Port Hudson Pride Road Sewer Area Upgrades			✓	**$4 M**
Highland Road Pipeline Improvements - Group A			✓	**$8 M**
Highland Road Pipeline Improvements - Group B			✓	**$9 M**
Oak Villa Boulevard - Monterey Boulevard Sewer Area Upgrades			✓	**$7 M**
Lovett Road – Greenwell Springs Road Sewer Area Upgrades – Group A			✓	**$14 M**
Lovett Road – Greenwell Springs Road Sewer Area Upgrades – Group B			✓	**$8 M**
Hooper Road Pump Station Improvements			✓	**$12 M**
Multiple PS - Prescott Rd - Greenwell Springs Rd			✓	**$5 M**
Multiple PS - Burbank Drive - Siegen Lane			✓	**$4 M**
Pump Station 42		✓		
Pump Station 42 Forcemain - Phase I		✓		
Pump Station 42 Forcemain - Phase II		✓		
Central Consolidated Pump Stations		✓		
Central Consolidated Forcemains		✓		

TABLE 2

Updated EPA Consent Decree RMAP Milestones for Category 2 Projects

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Estimated Construction Cost
Milestone Date	**1st QTR 2013**	**2nd QTR 2015**	**4th QTR 2018**	**Millions**
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**	**(M)**

****Note that no projects have changed milestone columns since the original extension request dated July 1, 2011. Only the milestone dates have changed.**

Category 3: Wastewater Treatment and Storage

This category of projects includes wet weather improvements at the City/Parish wastewater treatment plants (WWTP's), as well as storage facilities throughout the service area. The Wastewater Treatment Projects are summarized below:

- Immediate Action Plan (IAP) South WWTP Project that includes screening, trickling filter recirculation pumping, primary treatment improvements, and bio-solids thickening improvements.
- Phase 1 Improvements at the South WWTP for Wet Weather Flow including influent pumping, screening and grit removal for a predicted flow of 345 MGD. Phase 1 also includes 64 million gallons of equalization storage at the South WWTP.
- Phase 2 Improvements at the South WWTP include wet weather flow treatment with a peak capacity of 200 MGD (as previously approved in the November 2006 RMAP2).

In addition, there are two storage projects included in this category that are sized to reduce peak flows to existing North WWTP which are listed below and depicted as well in Table 3. These storage projects are part of the transmission system which permits storage of wet weather peak flows.

- Choctaw Storage Facility
- Hooper Storage Facility

Table 3 presents a list of Category 3 projects with corresponding milestone schedules. No estimated construction costs are included for this category, since none of these projects are included in the 100% Construction Milestone.

Table 3

Updated EPA Consent Decree RMAP Milestones for Category 3 Projects

	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone
Milestone Date	**1st QTR 2013**	**2nd QTR 2015**	**4th QTR 2018**
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**
Project Descriptions RMAP2 Projects			
Choctaw Storage and Pump Station Facility		✓	
Hooper Storage Facility		✓	
South WWTP IAP (Consolidated – Screening, Primary Treatment, Trickling Filter Recirculation, Sludge Handling)	✓		
South WWTP IAP (Effluent Pumping Improvements)	✓		
SWWTP Wet Weather Improvements -Phase I		✓	
SWWTP Wet Weather Improvements - Phase II (PDP portion)		✓	

Table 3

Updated EPA Consent Decree RMAP Milestones for Category 3 Projects

	33% Construction Milestone	**66%** Construction Milestone	**100%** Construction Milestone
Milestone Date	**1st QTR 2013**	**2nd QTR 2015**	**4th QTR 2018**
Construction Status	**Construction Functionally Complete**	**Construction Functionally Complete**	**Construction Functionally Complete**

***Note that <u>all</u> of these types of projects are of high priority and are expected to stay in the same milestone categories as previously submitted in the original extension request dated July 1, 2011.**

Attachment 2

Proposed Schedule for Additional Projects

Attachment 2 – Proposed Schedule for Additional Projects

This attachment is a listing of the additional projects that the City/Parish has undertaken outside of the Consent Decree. The City/Parish has agreed to implement a number of significant projects that will greatly help improve operation and maintenance of the treatment and collection system beyond the original Consent Decree requirements. These projects include emergency generators at the 400+ pumping stations; and the installation of a state of the art SCADA real time control system to allow the City/Parish to manage wet weather flows to maximize in system storage and treatment to reduce overflows. Other projects that the City/Parish is implementing in addition to the Consent Decree required projects include South Wastewater Treatment Plant (SWWTP) Phase 2 Master Plan Project, the extensive North Wastewater Treatment Plan (NWWTP) Public Project, the extensive NWWTP Master Plan Projects, the NWWTP Odor Control Project, the Choctaw Sewer Collection Maintenance Facility Project, and the Comite Foster Road Phase 2 Project.

Projects Outside of Consent Decree

This category of projects includes several additional projects not required by the Consent Decree Compliance Schedule. Many of these projects will greatly improve the operation and maintenance of the wastewater collection system, WWTP's, and storage facilities. Also note that both the SCADA Project and the Standby Power Program will help optimize the overall operation of the treatment facilities and pump stations, while minimizing risks associated with SSOs. The projects are summarized below:

- **NWWTP Master Plan Projects –** Based on the *Draft Wastewater Master Plan* (CH2M HILL, 2008) and recent plant inspections, the following items were identified to be addressed at the NWWTP:
    - New raw sewage pumping station
    - New preliminary treatment
    - Comprehensive odor control
    - Plant SCADA system
    - Replace gaseous chlorine with sodium hypochlorite
    - General plant rehabilitation (electrical, mechanical, structural)
    - Standby electrical generators
    - Sludge digestion rehabilitation with gas utilization

- **NWWTP Public Project** - includes purchase of property in order to resolve odor control complaints from nearby residents of the NWWTP. The City/Parish has developed a public project for implementation which would create a buffer zone between the North WWTP and the adjacent residential neighborhood. This buffer zone will include plantings as well as stormwater improvements.

- **SWWTP Phase 2 Master Plan Project –** This project includes Master Plan improvements were outlined in the *Draft Wastewater Master Plan (CH2M HILL, May 2008).* The following are project elements that will be included as additive alternates for the SWWTP Phase 2 construction project:

  - Secondary electrical source consisting of on-site engine/generators
  - Improvements to the existing solids thickening and dewatering facilities including new thickened sludge mixing tanks
  - Repair and improvements to existing anaerobic digesters including a new sludge heating system utilizing digester gas and hot water boilers
  - Rehabilitation of existing buildings
  - Construction of a plant SCADA system
  - Construction of new laboratory and administration buildings

- **Stand-by Power Program –** This project will drastically reduce SSOs caused by power outages at the 400+ pump stations in the system, by providing stand-by power at the pump stations. This program consists of installing generators at every wastewater pump station and wastewater treatment facility throughout the City/Parish that can be put in place during power outages, eliminating the risk of overflows from this cause.

- **Supervisory Control and Data Acquisition (SCADA) Project -** The SCADA Project will provide telemetry and remote monitoring to all existing pump stations, new pump stations, and those pump stations being replaced. The project provides remote monitoring of operations data & alarms that will be communicated via telemetry to a centralized operations center. The centralized operations center will have control capability for major pump stations and storage facilities in the system, allowing flow control to anticipate and reduce the possibility of overflows and/or reduce their severity. The remote monitoring will help City/Parish staff quickly respond to mechanical and electrical problems at the pump stations.

- **Choctaw Sewer Collection Maintenance Facility –** The Choctaw Administration/ Maintenance Facility will consolidate several separate City/Parish facilities to one location. The facility will house the wastewater collections staff, provide warehouse and equipment storage, house the electrical and pump maintenance shops, and include a fueling station for use by City/Parish employees. The site is centrally located in the parish, so the maintenance facility will allow staff to be efficiently deployed to all areas of DPW's sewer network. The pump maintenance shop will include a pump testing pit, which allows the City/Parish to test pumps at the shop rather than testing once installed at the pump station.

- **NWWTP Odor Control Project -** the NWWTP Odor Control Project is designed to minimize odors from the WWTP headworks building.
- **Comite Drive – Foster Road Phase 2 Project -** This project includes an upgrade to the existing sewer system that runs along Comite Drive. The current sewer system in this area is individual septic systems that discharge into an open ditch along the road. A new sewer collection system is being installed to eliminate these discharges. The project consists of new sewers, forcemains, and pump stations.

Table 1 below outlines the anticipated schedule and estimated construction cost of the additional projects. Note that the schedule below is based upon time (number or months) from extension approval for the projects involving the NWWTP.

Table 1

Proposed Schedule for Projects Outside of Consent Decree

	Scheduled Start	Scheduled Finish	Estimated Construction Cost
NWWTP Master Plan Projects	6 months from Extension approval	Design – 18 months from start Construction – 3 years from design finish	$50 M
NWWTP Public Project	6 months from Extension approval	Design and Land Purchase – 1 year from start Construction – 1 year from design finish	$6 M
SWWTP Wet Weather Improvements – Phase II (Master Plan portion)	Project Underway	Proposed completion by 4th quarter 2014	$22 M
Sewer System and WWTP Stand-by Power Program	Project Underway	Completion of SSO Program	$30 M
SCADA (Collection System, Operations Data and Control Center)	Project Underway	Completion of SSO Program	$15 M
Choctaw Sewer Collection Maintenance Facility	Design Complete/ Construction start in early 2013	Early 2015	$15 M
NWWTP Odor Control Project	Complete	Complete	$1.5 M
Comite –Foster Road Sewer Area Upgrades - Phase II	Complete	Complete	$0.9 M

Attachment B
Municipal Water Pollution Prevention (MWPP) Environmental Audit Reports – South, North, and Central Wastewater Treatment Plants

Department of Public Works

City of Baton Rouge
Parish of East Baton Rouge

Post Office Box 1471
Baton Rouge, Louisiana
70821

November 16, 2012

Department of Environmental Quality
Office of Environmental Compliance
Permits Compliance Unit
Post Office Box 4312
Baton Rouge, Louisiana 70821-4312

Re: Municipal Water Pollution Prevention (MWPP) Environmental Audit Reports

LPDES PERMIT NUMBERS:
LA0036439 AI# 4843
LA0036421 AI# 4842
LA0036412 AI# 4841

Dear Sirs:

As required by your office, we are submitting the annual Municipal Water Pollution Prevention Environmental Audit reports along with the MWPP Resolutions. These reports represent our North, Central and South Wastewater Treatment Plants from September 1, 2011 to August 31, 2012.

If you have any questions concerning this matter, please contact Mr. Charles M. O'Brien of my staff at (225) 389-3240.

Sincerely yours,

David R. Guillory, P.E.
Interim Director of Public Works

DRG/CB/pas

xc: Mary Roper, Parish Attorney
Charles M. O'Brien, Wastewater Laboratory Supervisor

Attachment(s):

LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP

Facility Name:	**City of Baton Rouge / Parish of East Baton Rouge /** Central **Wastewater Treatment Plant**
LPDES Permit Number:	LA0036421
Agency Interest (AI) Number:	4842
Address:	2443 River Road
	Baton Rouge, LA
Parish:	East Baton Rouge
(Person Completing Form) Name:	Cynthia Thomas
Title:	Assistant Wastewater Laboratory Supervisor
Date Completed:	November 16, 2012

INSTRUCTIONS

1. Complete only the sections of the Environmental Audit which apply to your wastewater treatment system. Leave sections that do not apply blank and enter a "0" for the point value.

2. Parts 1 through 7 contain questions for which points may be generated. These points are intended to communicate to the department and the governing body or owner what actions will be necessary to prevent effluent violations. Place the point totals from parts 1 through 7 on the Point Calculation page.

3. Add up the point totals.

4. Submit the Environmental Audit to the governing body or owner for review and approval.

5. The governing body must pass a resolution which contains the following items:

    a. The resolution or letter must acknowledge the governing body or owner has reviewed the Environmental Audit.

    b. This resolution must indicate specific actions, if any, will be taken to maintain compliance and prevent effluent violations. Proposed actions should address the parts where maximum or close to maximum points were generated in the Environmental Audit.

    c. The resolution should provide any other information the governing body deems appropriate.

Permit #: LA0036421

PART 1: INFLUENT FLOW/LOADINGS (all plants)

A. List the average monthly volumetric flows and BOD loadings received at your facility during the last reporting year.

Column 1 Average Monthly Flow (million gallons per day, MGD)		**Column 2** Average Monthly BOD5 Concentration (mg/l)		**Column 3** Average Monthly BOD5 Loading (pounds per day, lb/day)
12.07	x	130	x 8.34 =	13,086
9.76	x	131	x 8.34 =	10,663
11.25	x	130	x 8.34 =	12,197
10.24	x	128	x 8.34 =	10,931
11.18	x	99	x 8.34 =	9,231
14.40	x	80	x 8.34 =	9,608
13.70	x	84	x 8.34 =	9,598
10.66	x	146	x 8.34 =	12,980
9.94	x	164	x 8.34 =	13,596
11.06	x	108	x 8.34 =	9,962
11.77	x	114	x 8.34 =	11,190
14.90	x	99	x 8.34 =	12,302

BOD loading = Average Monthly Flow (in MGD) x Average Monthly BOD concentration (in mg/l) x 8.34

B. List the design flow and design BOD loading for your facility in the blanks below. If you are not aware of these design quantities, refer to your Operation and Maintenance (O&M) Manual or contact your consulting engineer.

Design Flow, MGD:	32	x 0.90 =	28.80
Design BOD, lb/day:	55,244	x 0.90 =	49,720

C. How many months did the monthly flow (Column 1) to the wastewater treatment facility (WWTF) exceed 90% of design flow? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	0	0	0	0	5	5	5	5	5	5	5	5

Write 0 or 5 in the C point total box [0] C Point Total

D. How many months did the monthly flow (Column 1) to the WWTF exceed the design flow? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	5	5	10	10	15	15	15	15	15	15	15	15

Write 0, 5, 10 or 15 in the D point total box [0] D Point Total

E. How many months did the monthly BOD loading (Column 3) to the WWTF exceed 90% of the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	0	5	5	5	10	10	10	10	10	10	10	10

Write 0, 5,or 10 in the E point total box [0] E Point Total

F. How many months did the monthly BOD loading (Column 3) to the WWTF exceed the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	10	20	30	40	50	50	50	50	50	50	50	50

Write 0, 10, 20, 30, 40 or 50 in the F point total box [0] F Point Total

G. Add together each point total for C through F and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 1: [0] (max = 80)

Also enter this value or 80, whichever is less, on the point calculation table on page 16.

Permit #: LA0036421

PART 2: EFFLUENT QUALITY / PLANT PERFORMANCE

A. List the monthly average effluent BOD and TSS concentrations produced by your facility during the last reporting year.

Month	Column 1 Average Monthly BOD (mg/l)	Column 2 Average Monthly TSS (mg/l)
SEPTEMBER	17	20
OCTOBER	16	18
NOVEMBER	20	20
DECEMBER	20	18
JANUARY	22	21
FEBRUARY	19	20
MARCH	17	19
APRIL	21	21
MAY	24	20
JUNE	17	18
JULY	18	19
AUGUST	16	18

B. List the monthly average permit limits for your facility in the blanks below.

	Permit Limit		90% of Permit Limit
BOD, mg/l	30	x 0.90 =	27
TSS, mg/l	30	x 0.90 =	27

C. Continuous Discharge to Surface Water.

i. How many months did the effluent BOD (Column 1) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	0	10	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the i point total box [0] i Point Total

ii. How many months did the effluent BOD (Column 1) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the ii point total box [0] ii Point Total

iii. How many months did the effluent TSS (Column 2) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	0	10	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the iii point total box [0] iii Point Total

iv. How many months did the effluent TSS (Column 2) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the iv point total box [0] iv Point Total

v. Add together each point total for i through iv and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 2: [0] (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

D. Other Monitoring and Limitations

i. At any time in the past year was there and exceedance of a permit limit for other pollutants such as: ammonia-nitrogen, phosphorus, pH, total residual chlorine, or fecal coliform?

√ Check one box. ☐ Yes ☒ No *If Yes, Please describe:*

ii. At any time in the past year was there a "failure" of a Biomonitoring (Whole Effluent Toxicity) test of the effluent?

√ Check one box. ☐ Yes ☒ No *If Yes, Please describe:*

iii. At any time in the past year was there an exceedance of a permit limit for a toxic substance?

√ Check one box. ☐ Yes ☒ No *If Yes, Please describe:*

Permit #: LA0036421

PART 3: AGE OF THE WASTEWATER TREATMENT FACILITY

A. What year was the wastewater treatment facility constructed or last major expansion/ improvements completed?

1998

Current Year	-	*Answer to A*	=	*Age in years*
2012		1998		14

Enter Age in Part C below.

B. √ Check the type of treatment facility that is employed.

		FACTOR:
✓	Mechanical Treatment Plant (trickling filter, activated sludge, etc...) Specify Type:	(2.5)
____	Aerated Lagoon	2.0
____	Stabilization Pond	1.5
____	Other Specify Type:	1.0

C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determine the total point value for Part 3.

TOTAL POINT VALUE FOR PART 3 =

2.5	x	14	=	35 (max = 50)
Factor		*Age*		

Also enter this value or 50, whichever is less, on the point calculation table on page 16.

D. Please attach a schematic of the treatment plant.

*See attachment

Permit #: LA0036421

PART 4: OVERFLOWS AND BYPASSES

A.

i. List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to heavy rain:

5 √ Check one box.

- ☐ 0 = 0 points
- ☐ 1 = 5 points
- ☐ 2 = 10 points
- ☐ 3 = 15 points
- ☐ 4 = 30 points
- ☑ 5 or more = 50 points

ii. List the number of bypasses, overflows or unpermitted discharges shown in A (i) that were within the collection system and the number at the treatment plant

Collection System: 1 Treatment Plant: 4

B.

i. List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to equipment failure, either at the treatment plant or due to pumping problems in the collection system:

17 √ Check one box.

- ☐ 0 = 0 points
- ☐ 1 = 5 points
- ☐ 2 = 10 points
- ☐ 3 = 15 points
- ☐ 4 = 30 points
- ☑ 5 or more = 50 points

ii. List the number of bypasses, overflows or unpermitted discharges shown in B (i) that were within the collection system and the number at the treatment plant

Collection System: 11 Treatment Plant: 6

C. Specify whether the bypasses came from the city/village/town sewer system or from contract or tributary communities/sanitary districts, etc...

D. Add the point values checked for A and B and place the total in the box below.

TOTAL POINT VALUE FOR PART 4: 100 (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

E. List the person responsible (name and title) for reporting overflows, bypasses or unpermitted discharges to State and Federal authorities:

Charles M. O'Brien, Wastewater Laboratory Supervisor

Describe the procedure for gathering, compiling and reporting:

The procedure for gathering, compiling, and reporting is specified in the permit.

PART 5: SLUDGE STORAGE AND DISPOSAL SITES

A. Sludge Storage

How many months of sludge storage capacity does your facility have available, either on-site or off-site?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	<2	2	3	(4-5)	>6
points	50	30	20	(10)	0

Write 0, 10, 20, 30 or 40 in the A point total box [10] A Point Total

B. For how many months does your facility have access to (and approval for) sufficient land disposal sites to provide proper land disposal?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	<2	6-11	12-23	24-35	(>36)
points	50	30	20	10	(0)

Write 0, 10, 20, 30 or 40 in the B point total box [0] B Point Total

C. Add together the A and B point values and place the sum in the box below at the right:

TOTAL POINT VALUE FOR PART 5: [10] (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

PART 6: NEW DEVELOPMENT

A. Please provide the following information for the total of all sewer line extensions which were installed during the last year.

Design Population: 0

Design Flow: 0 MGD

Design BOD: 0 mg/l

B. Has an industry (or other development) moved into the community or expanded production in the past year, such that either flow or pollutant loadings to the sewerage system were significantly increased (5% or greater)?

√ Check one box. ☐ Yes = 15 points ☑ No = 0 points

If Yes, Please describe:

List any new pollutants:

C. Is there any development (industrial, commercial or residential) anticipated in the next 2-3 years, such that either flow or pollutant loadings to the sewerage system could significantly increase?

√ Check one box. ☐ Yes = 15 points ☑ No = 0 points

If Yes, Please describe:

List any new pollutants you anticipate:

D. Add together the point value checked in B and C and place the sum in the box below.

TOTAL POINT VALUE FOR PART 6: 0 (max = 30)

Also enter this value or 30, whichever is less, on the point calculation table on page 16.

Permit #: LA0036421

PART 7. OPERATOR CERTIFICATION AND EDUCATION

A. What was the name of the operator-in-charge for the reporting year?

Name: Walter Brock

B. What is his or her certification number:

Cert.#: 00638

C. What level of certification is the operator-in-charge required to have to operate the wastewater treatment facility?

Level Required: Wastewater Treatment IV

D. What is the level of certification of the operator-in-charge?

Level Certified: Wastewater Treatment IV

E. Was the operator-in-charge of the report year certified at least at the grade level required in order to operate this plant?

√ Check one box. [X] Yes = 0 points [ ] No = 50 points

Write 0 or 50 in the E point total box [ ] E Point Total

F. Has the operator-in-charge maintained recertification requirements during the reporting year?

√ Check one box. [X] Yes [ ] No

G. How many hours of continuing education has the operator-in-charge completed over the last two calendar years?

√ Check one box. [X] > 12 hours = 0 points [ ] < 12 hours = 50 points

Write 0 or 50 in the G point total box [ ] G Point Total

H. Is there a written policy regarding continuing education an training for wastewater treatment plant employees?

√ Check one box. [X] Yes [ ] No

Explain: 16 hours of continuing education within a two year period.

I. What percentage of the continuing education expenses of the operator-in-charge were paid for:

By the permittee? 100% *By the operator?* 0%

J. Add together the E and G point values and place the sum in the box below at the right.

TOTAL POINT VALUE FOR PART 7: [0] (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

PART 8: FINANCIAL STATUS

A. Are User-Charge Revenues sufficient to cover operation and maintenance expenses?

√ Check one box. ☒ Yes ☐ No. *If No, How are O&M costs financed?*

Same as B

B. What financial resources do you have available to pay for your wastewater improvements and reconstruction needs?

Wastewater improvements and reconstruction needs are funded from four main revenue sources. They are one half percent sales and use tax, sewer user fees, sewer impact fees, and a $4 million subsidy from the general fund supported gaming revenues.

Permit #: LA0036421

PART 9: SUBJECTIVE EVALUATION

A. Collection System Maintenance

i. Describe what sewer system maintenance work has been done in the last year.

SEE ATTACHMENT

ii. Describe what lift station work has been done in the last year.

SEE ATTACHMENT

iii. What collection system improvements does the community have under construction for the next 5 years?

SEE ATTACHMENT

B. If you have ponds please answer the following questions: √ Check one box.

i.	*Do you have duckweed buildup in the ponds?*	☐ Yes	☐ No
ii.	*Do you mow the dikes regularly (at least monthly), to the waters edge?*	☐ Yes	☐ No
iii.	*Do you have bushes or trees growing on the dikes or in the ponds?*	☐ Yes	☐ No
iv.	*Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds?*	☐ Yes	☐ No
v.	*Do you excersise all of your valves?*	☐ Yes	☐ No
vi.	*Are your control manholes in good structural shape?*	☐ Yes	☐ No
vii.	*Do you maintain at least 3 feet of freeboard in all of your ponds?*	☐ Yes	☐ No
viii.	*Do you visit your pond system at least weekly?*	☐ Yes	☐ No

LA MWPP Environmental Audit

Part 9: Subjective Evaluation

A1. As part of the Consent Decree, Operation and Maintenance of the Central Treatment Plant Collection Area is performed and reported on a quarterly basis. The following table is a breakdown/summary of activities performed within the Central Treatment Plant Collection System Area during the reporting period.

Central Treatment Area

Monitoring Period (2011 - 3rd qtr. thru 2012 - 2nd qtr.)

Line Cleaned	276,698
CCTV Inspected	234,534
Smoke Tested	56,519
Dye Tested	5
Manhole Inspected	999
Line Repaired	1,240
Manhole Rehabilitated	114
Force Main -- Inspected	1
Repaired	37
Air Release Valves-Inspected	4
Repaired	0
Wet Wells Cleaned	16
Pump Stations-Repaired	2

A2. As shown above, an extensive routine pump station maintenance program is in place. Additionally, the attached Capital Improvement Plan outlines the construction projects that have been completed.

A3. The attached Capital Improvement Plan outlines the construction projects that are currently in the planning phase, or currently under design, including estimated completion dates.

CWWTP WWTP 2011-2012 Annual Audit

	3rd QTR 2011	4th QTR 2011	1st QTR 2012	2nd QTR 2012	Total
Lines Cleaned (ft)	18,316	122,507	22,991	112,884	276,698
CCTV Inspected (ft)	2,566	110,257	12,577	109,134	234,534
Smoke Tested (ft)	4,324	1,704	3,688	46,803	56,519
Dye Tested (no. of locations)	3	0	2	0	5
Manholes Inspected (no.)	21	596	20	362	999
Lines Repaired (no.)	213	194	366	467	1,240
Manholes Rehabbed (no.)	13	34	55	12	114
Force Main Inspection (miles)	0.0	0	0.8	0.0	1
Force Main Repaired (no.)	23	13	0	1	37
ARV Inspected/Maintained	0	0	4	0	4
ARV Repaired (no.)	0	0	0	0	0
Wet Wells Cleaned	3	2	6	5	16
Pump Station Repaired (no.)	1	1	0	0	2

CWWTP New Developments - Quarters 38 - 41

Subdivision / Development	# of lots	Design Pop.	Flow (gpm)	Flow (MGD)	Sewer Length (ft.)
	0	0	0	0.00	0
		0	0	0.00	
TOTAL	0	0	0	0.00	0

C. Treatment Plants

i. Have the influent and effluent flow meters been calibrated in the last year?

☒ Yes ☐ No (√ Check one box.)

see below
Influent flow meter calibration date(s)

see below
Effluent flow meter calibration date(s)

ii. What problems, if any, have been experienced over the last year that have threatened treatment?

stoppage/blockage of digester #1 and #2

persistent problems with field process logic control centers

digester #3 recirculation line plugged

iii. Is your community presently involved in formal planning for treatment facility upgrade?

√ Check one box. ☐ Yes ☒ No *If Yes, Please describe:*

Influent
09-20-2011
03-20-2012

Effluent
03-20-2012

D. Preventive Maintenance

i. Does your plant have a written plan for preventive maintenance on major equipment items?

√ Check one box. [X] Yes [ ] No *If Yes, Please describe:*

Weekly, monthly and semi-annually preventive maintenance sheets that reflect type and frequency as specified in the O & M manuals. A new computer program will manage the preventive maintenance of plant equipment and spare parts.

ii. Does this preventive maintenance program depict frequency of intervals, types of lubrication and other preventive maintenance tasks necessary for each piece of equipment?

[X] Yes [ ] No

iii. Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assured properly?

[X] Yes [ ] No

E. Sewer Use Ordinance

i. Does your community have a sewer use ordinance that limits or prohibits the discharge of excessive conventional pollutants (BOD, TSS or pH) or toxic substances to the sewer system from industries, commercial users and residences?

√ Check one box. [X] Yes [ ] No *If Yes, Please describe:*

Sewer User Fee Ordinance (No. 7853) limits the discharge of BOD & TSS to 200 mg/l and 250 mg/l respectively. Any discharge above these limits is surcharged at a rate of 2% of the monthly sewer user fee for each limit of 10 mg/l. Pretreatment Ordinance (No. 9195) limits the discharge of heavy metals, chemical and toxic substances.

ii. Has it been necessary to enforce?

√ Check one box. [X] Yes [ ] No *If Yes, Please describe:*

The Sewer User Fee Ordinance is strictly enforced by the City Parish and self monitoring sampling. The same apply to the Pretreatment Ordinance. Enforcement mechanisms include discharge permits, surcharges, letter of violations, administrative orders, water termination, and fines.

iii. Any additional comments about your treatment plant or collection system? (Attach additional sheets if necessary.)

NO

Permit #: LA0036421

POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: *Influent Flow/Loadings*	0	80 points
Part 2: *Effluent Quality / Plant Performance*	0	100 points
Part 3: *Age of WWTF*	35	50 points
Part 4: *Overflows and Bypasses*	100	100 points
Part 5: *Ultimate Disposition of Sludge*	10	100 points
Part 6: *New Development*	0	30 points
Part 7: *Operator Certification Training*	0	100 points

TOTAL POINTS: 145

ATTACHMENT 3

SAMPLE MWPP RESOLUTION

Resolved that the village/town/city of Baton Rouge informs the Louisiana Department of Environmental Quality that the following actions were taken by City Parish (governing body).

1. Resolved the Municipal Water Pollution Prevention Environmental Audit Report which is attached to this resolution.

2. Set forth the following actions necessary to maintain permit requirements contained in the Louisiana Pollution Discharge Elimination System (LPDES) permit, number LA 0036421 AI #4842 .

   (Please be specific in listing the actions that will be taken to address the problems identified in the audit report.)

   a. CURRENTLY, WE ARE OPERATING UNDER A CONSENT DECREE WHICH BECAME EFFECTIVE MARCH 14, 2002.

   b.

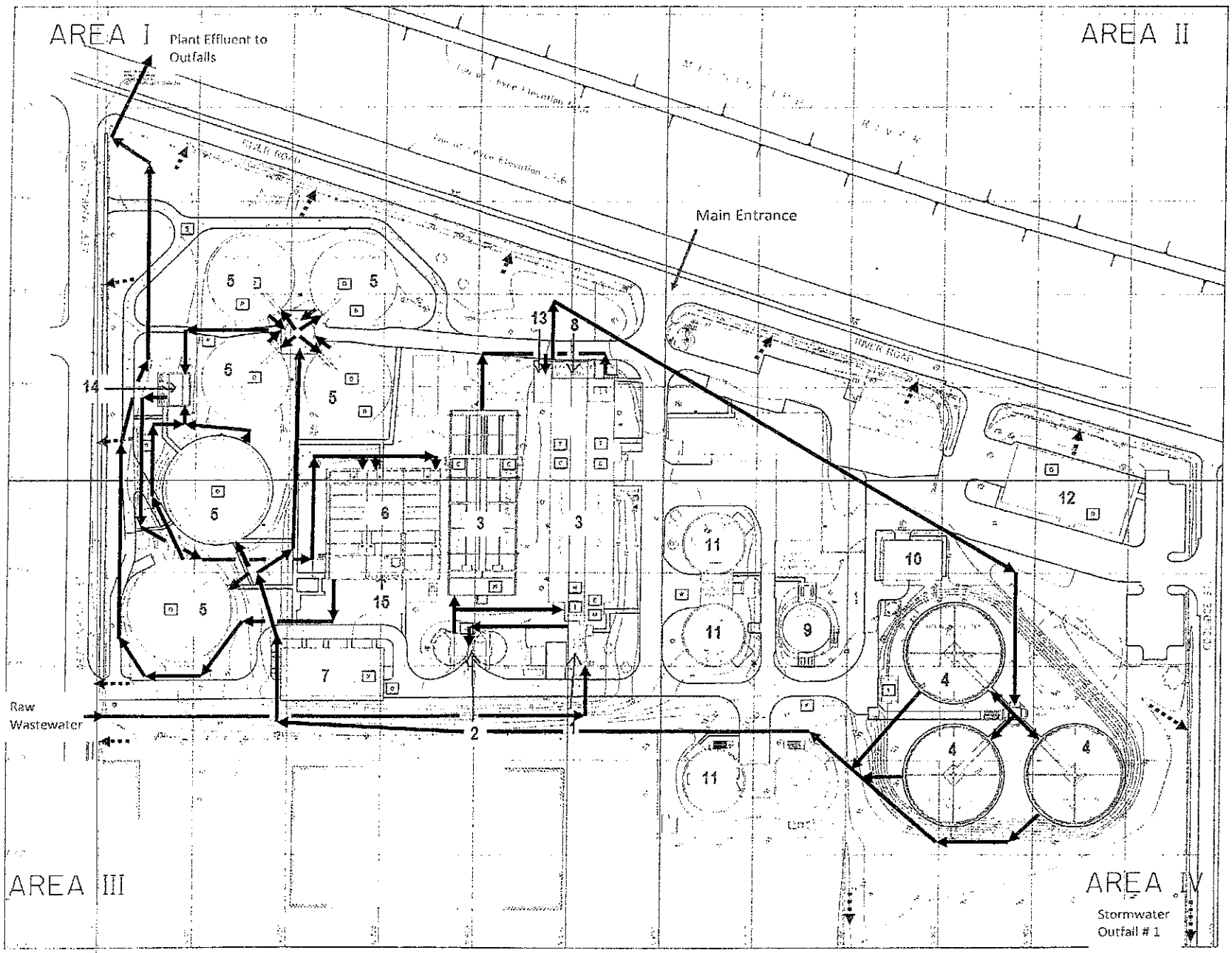
   c.

   d.

   etc..

Passed by a majority/unanimous (circle one) vote of the Metropolitan Council on December 12, 2012 (date).

CLERK



Central WWTP Site Diagram

ADOPTED
METROPOLITAN COUNCIL

DEC 12 2012

COUNCIL ADMINISTRATOR TREASURER

313 RESOLUTION 49836

AUTHORIZING THE MAYOR-PRESIDENT TO APPROVE THE SUBMITTAL OF THE LOUISIANA MUNICIPAL WATER POLLUTION PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE CENTRAL WASTEWATER TREATMENT PLANT (LA 0036421 AI# 4842) TO THE DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) FOR THE MONITORING PERIOD OF SEPTEMBER 1, 2011 THROUGH AUGUST 31, 2012.

BE IT RESOLVED by the Metropolitan Council of the Parish of East Baton Rouge and City of Baton Rouge that the Mayor-President is hereby authorized to approve the submittal of the Louisiana Municipal Water Pollution Prevention (MWPP) Environmental Audit Report for the Central Wastewater Treatment Plant (LA 00036421 AI# 4842) to the Department of Environmental Quality (DEQ) for the monitoring period of September 1, 2011 through August 31, 2012, is hereby approved.

CERTIFIED
A TRUE COPY

DEC 20 2012

Assistant Council Administrator

LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP

Facility Name:	**City of Baton Rouge / Parish of East Baton Rouge /** North **Wastewater Treatment Plant**
LPDES Permit Number:	LA0036439
Agency Interest (AI) Number:	4843
Address:	55 Mills Avenue
	Baton Rouge, LA
Parish:	East Baton Rouge
(Person Completing Form) Name:	Cynthia Thomas
Title:	Assistant Wastewater Laboratory Supervisor
Date Completed:	November 16, 2012

INSTRUCTIONS

1. Complete only the sections of the Environmental Audit which apply to your wastewater treatment system. Leave sections that do not apply blank and enter a "0" for the point value.

2. Parts 1 through 7 contain questions for which points may be generated. These points are intended to communicate to the department and the governing body or owner what actions will be necessary to prevent effluent violations. Place the point totals from parts 1 through 7 on the Point Calculation page.

3. Add up the point totals.

4. Submit the Environmental Audit to the governing body or owner for review and approval.

5. The governing body must pass a resolution which contains the following items:

    a. The resolution or letter must acknowledge the governing body or owner has reviewed the Environmental Audit.

    b. This resolution must indicate <u>specific</u> actions, if any, will be taken to maintain compliance and prevent effluent violations. Proposed actions should address the parts where maximum or close to maximum points were generated in the Environmental Audit.

    c. The resolution should provide any other information the governing body deems appropriate.

Permit #: LA0036439

PART 1: INFLUENT FLOW/LOADINGS (all plants)

A. List the average monthly volumetric flows and BOD loadings received at your facility during the last reporting year.

Column 1 Average Monthly Flow (million gallons per day, MGD)		**Column 2** Average Monthly BOD5 Concentration (mg/l)		**Column 3** Average Monthly BOD5 Loading (pounds per day, lb/day)
16.68	x	171	x 8.34 =	23,788
10.63	x	175	x 8.34 =	15,514
15.16	x	156	x 8.34 =	19,724
13.37	x	163	x 8.34 =	18,175
16.14	x	158	x 8.34 =	21,268
21.17	x	129	x 8.34 =	22,776
18.90	x	148	x 8.34 =	23,329
15.07	x	210	x 8.34 =	26,394
12.20	x	211	x 8.34 =	21,469
14.30	x	148	x 8.34 =	17,651
15.57	x	164	x 8.34 =	21,296
18.14	x	149	x 8.34 =	22,542

BOD loading = Average Monthly Flow (in MGD) x Average Monthly BOD concentration (in mg/l) x 8.34

B. List the design flow and design BOD loading for your facility in the blanks below. If you are not aware of these design quantities, refer to your Operation and Maintenance (O&M) Manual or contact your consulting engineer.

Design Flow, MGD:	54	x 0.90 =	48.60
Design BOD, lb/day:	75,210	x 0.90 =	67,689

C. How many months did the monthly flow (Column 1) to the wastewater treatment facility (WWTF) exceed 90% of design flow? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	0	0	0	0	5	5	5	5	5	5	5	5

Write 0 or 5 in the C point total box [0] C Point Total

D. How many months did the monthly flow (Column 1) to the WWTF exceed the design flow? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	5	5	10	10	15	15	15	15	15	15	15	15

Write 0, 5, 10 or 15 in the D point total box [0] D Point Total

E. How many months did the monthly BOD loading (Column 3) to the WWTF exceed 90% of the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	0	5	5	5	10	10	10	10	10	10	10	10

Write 0, 5,or 10 in the E point total box [0] E Point Total

F. How many months did the monthly BOD loading (Column 3) to the WWTF exceed the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	10	20	30	40	50	50	50	50	50	50	50	50

Write 0, 10, 20, 30, 40 or 50 in the F point total box [0] F Point Total

G. Add together each point total for C through F and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 1: [0] (max = 80)

Also enter this value or 80, whichever is less, on the point calculation table on page 16.

Permit #: LA0036439

PART 2: EFFLUENT QUALITY / PLANT PERFORMANCE

A. List the monthly average effluent BOD and TSS concentrations produced by your facility during the last reporting year.

Month	Column 1 Average Monthly BOD (mg/l)	Column 2 Average Monthly TSS (mg/l)
SEPTEMBER	18	20
OCTOBER	20	14
NOVEMBER	25	24
DECEMBER	27	18
JANUARY	32	28
FEBRUARY	29	29
MARCH	27	24
APRIL	27	19
MAY	23	18
JUNE	21	17
JULY	20	18
AUGUST	19	18

B. List the monthly average permit limits for your facility in the blanks below.

	Permit Limit		90% of Permit Limit
BOD, mg/l	30	x 0.90 =	27
TSS, mg/l	30	x 0.90 =	27

C. Continuous Discharge to Surface Water.

i. How many months did the effluent BOD (Column 1) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	0	1	(2)	3	4	5	6	7	8	9	10	11	12
points	0	0	(10)	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the i point total box [10] i Point Total

ii. How many months did the effluent BOD (Column 1) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	0	(1)	2	3	4	5	6	7	8	9	10	11	12
points	0	(5)	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the ii point total box [5] ii Point Total

iii. How many months did the effluent TSS (Column 2) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	0	1	(2)	3	4	5	6	7	8	9	10	11	12
points	0	0	(10)	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the iii point total box [10] iii Point Total

iv. How many months did the effluent TSS (Column 2) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the iv point total box [0] iv Point Total

v. Add together each point total for i through iv and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 2: [25] (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #: LA0036439

D. Other Monitoring and Limitations

i. At any time in the past year was there and exceedance of a permit limit for other pollutants such as: ammonia-nitrogen, phosphorus, pH, total residual chlorine, or fecal coliform?

√ Check one box. ☐ Yes ☒ No *If Yes, Please describe:*

ii. At any time in the past year was there a "failure" of a Biomonitoring (Whole Effluent Toxicity) test of the effluent?

√ Check one box. ☐ Yes ☒ No *If Yes, Please describe:*

iii. At any time in the past year was there an exceedance of a permit limit for a toxic substance?

√ Check one box. ☐ Yes ☒ No *If Yes, Please describe:*

Permit #: LA0036439

PART 3: AGE OF THE WASTEWATER TREATMENT FACILITY

A. What year was the wastewater treatment facility constructed or last major expansion/ improvements completed?

1998

Current Year	-	*Answer to A*	=	*Age in years*
2012		1998		14

Enter Age in Part C below.

B. √ Check the type of treatment facility that is employed.

		FACTOR:
✓	Mechanical Treatment Plant (trickling filter, activated sludge, etc...) Specify Type: _____	(2.5)
____	Aerated Lagoon	2.0
____	Stabilization Pond	1.5
____	Other Specify Type: _____	1.0

C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determine the total point value for Part 3.

TOTAL POINT VALUE FOR PART 3 =

2.5	x	14	=	35 (max = 50)
Factor		*Age*		

Also enter this value or 50, whichever is less, on the point calculation table on page 16.

D. Please attach a schematic of the treatment plant.

*See Attachment

Permit #: LA0036439

PART 4: OVERFLOWS AND BYPASSES

A.

i. List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to heavy rain:

7 √ Check one box.

- ☐ 0 = 0 points
- ☐ 1 = 5 points
- ☐ 2 = 10 points
- ☐ 3 = 15 points
- ☐ 4 = 30 points
- ☑ 5 or more = 50 points

ii. List the number of bypasses, overflows or unpermitted discharges shown in A (i) that were within the collection system and the number at the treatment plant

Collection System: 6 Treatment Plant: 1

B.

i. List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to equipment failure, either at the treatment plant or due to pumping problems in the collection system:

17 √ Check one box.

- ☐ 0 = 0 points
- ☐ 1 = 5 points
- ☐ 2 = 10 points
- ☐ 3 = 15 points
- ☐ 4 = 30 points
- ☑ 5 or more = 50 points

ii. List the number of bypasses, overflows or unpermitted discharges shown in B (i) that were within the collection system and the number at the treatment plant

Collection System: 14 Treatment Plant: 3

C. Specify whether the bypasses came from the city/village/town sewer system or from contract or tributary communities/sanitary districts, etc...

D. Add the point values checked for A and B and place the total in the box below.

TOTAL POINT VALUE FOR PART 4: 100 (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

E. List the person responsible (name and title) for reporting overflows, bypasses or unpermitted discharges to State and Federal authorities:

Charles M. O'Brien, Wastewater Laboratory

Describe the procedure for gathering, compiling and reporting:

The procedure for gathering, compiling, and reporting is specified in the permit.

Permit #: LA0036439

PART 5: SLUDGE STORAGE AND DISPOSAL SITES

A. Sludge Storage

How many months of sludge storage capacity does your facility have available, either on-site or off-site?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	<2	2	3	(4-5)	>6
points	50	30	20	(10)	0

Write 0, 10, 20, 30 or 40 in the A point total box [10] A Point Total

B. For how many months does your facility have access to (and approval for) sufficient land disposal sites to provide proper land disposal?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	<2	6-11	12-23	24-35	(>36)
points	50	30	20	10	(0)

Write 0, 10, 20, 30 or 40 in the B point total box [10] B Point Total

C. Add together the A and B point values and place the sum in the box below at the right:

TOTAL POINT VALUE FOR PART 5: [10] (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #: LA0036439

PART 6: NEW DEVELOPMENT

A. Please provide the following information for the total of all sewer line extensions which were installed during the last year.

Design Population: 1592

Design Flow: 0.51 MGD

Design BOD: 200 mg/l

B. Has an industry (or other development) moved into the community or expanded production in the past year, such that either flow or pollutant loadings to the sewerage system were significantly increased (5% or greater)?

√ Check one box. ☐ Yes = 15 points ☑ No = 0 points

If Yes, Please describe:

List any new pollutants:

C. Is there any development (industrial, commercial or residential) anticipated in the next 2-3 years, such that either flow or pollutant loadings to the sewerage system could significantly increase?

√ Check one box. ☐ Yes = 15 points ☑ No = 0 points

If Yes, Please describe:

List any new pollutants you anticipate:

D. Add together the point value checked in B and C and place the sum in the box below.

TOTAL POINT VALUE FOR PART 6: 0 (max = 30)

Also enter this value or 30, whichever is less, on the point calculation table on page 16.

Permit #: LA0036439

PART 7: OPERATOR CERTIFICATION AND EDUCATION

A. What was the name of the operator-in-charge for the reporting year?

Name: Calvin Hayes

B. What is his or her certification number:

Cert.#: 07130

C. What level of certification is the operator-in-charge required to have to operate the wastewater treatment facility?

Level Required: Wastewater Treatment IV

D. What is the level of certification of the operator-in-charge?

Level Certified: Wastewater Treatment IV

E. Was the operator-in-charge of the report year certified at least at the grade level required in order to operate this plant?

√ Check one box. [X] Yes = 0 points [ ] No = 50 points

Write 0 or 50 in the E point total box [0] E Point Total

F. Has the operator-in-charge maintained recertification requirements during the reporting year?

√ Check one box. [X] Yes [ ] No

G. How many hours of continuing education has the operator-in-charge completed over the last two calendar years?

√ Check one box. [X] > 12 hours = 0 points [ ] < 12 hours = 50 points

Write 0 or 50 in the G point total box [0] G Point Total

H. Is there a written policy regarding continuing education an training for wastewater treatment plant employees?

√ Check one box. [X] Yes [ ] No

Explain: 16 hours or continuing education within a two year period.

I. What percentage of the continuing education expenses of the operator-in-charge were paid for:

By the permittee? 100% *By the operator?* 0%

J. Add together the E and G point values and place the sum in the box below at the right.

TOTAL POINT VALUE FOR PART 7: [0] (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #: LA0036439

PART 8: FINANCIAL STATUS

A. Are User-Charge Revenues sufficient to cover operation and maintenance expenses?

√ Check one box. [X] Yes [ ] No. *If No, How are O&M costs financed?*

Same as B

B. What financial resources do you have available to pay for your wastewater improvements and reconstruction needs?

Wastewater improvements and reconstruction needs are funded from four main revenue sources. They are one half percent sales and use tax, sewer user fees, sewer impact fees, and a $4 million subsidy from the general fund supported gaming revenues.

Permit #: LA0036439

PART 9: SUBJECTIVE EVALUATION

A. Collection System Maintenance

i. Describe what sewer system maintenance work has been done in the last year.

SEE ATTACHMENT

ii. Describe what lift station work has been done in the last year.

SEE ATTACHMENT

iii. What collection system improvements does the community have under construction for the next 5 years?

SEE ATTACHMENT

B. If you have ponds please answer the following questions: √ Check one box.

i.	*Do you have duckweed buildup in the ponds?*	☐ Yes	☐ No
ii.	*Do you mow the dikes regularly (at least monthly), to the waters edge?*	☐ Yes	☐ No
iii.	*Do you have bushes or trees growing on the dikes or in the ponds?*	☐ Yes	☐ No
iv.	*Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds?*	☐ Yes	☐ No
v.	*Do you excersise all of your valves?*	☐ Yes	☐ No
vi.	*Are your control manholes in good structural shape?*	☐ Yes	☐ No
vii.	*Do you maintain at least 3 feet of freeboard in all of your ponds?*	☐ Yes	☐ No
viii.	*Do you visit your pond system at least weekly?*	☐ Yes	☐ No

Part 9: Subjective Evaluation

A1. As part of the Consent Decree, Operation and Maintenance of the North Treatment Plant Collection Area is performed and reported on a quarterly basis. The following table is a breakdown/summary of activities performed within the North Treatment Plant Collection System Area during the reporting period.

North Treatment Area

Monitoring Period (2011 - 3rd qtr. thru 2012 - 2nd qtr.)

Line Cleaned	257,130
CCTV Inspected	85,101
Smoke Tested	17,101
Dye Tested	0
Manhole Inspected	422
Line Repaired	2,568
Manhole Rehabilitated	370
Force Main – Inspected	152
Repaired	83
Air Release Valves-Inspected	684
Repaired	235
Wet Wells Cleaned	227
Pump Stations-Repaired	48

A2. As shown above, an extensive routine pump station maintenance program is in place. Additionally, the attached Capital Improvement Plan outlines the construction projects that have been completed.

A3. The attached Capital Improvement Plan outlines the construction projects that are currently in the planning phase, or currently under design, including estimated completion dates.

North WWTP 2011-2012 Annual Audit

	3rd QTR 2011	4th QTR 2011	1st QTR 2012	2nd QTR 2012	Total
Lines Cleaned (ft)	41,640	47,397	46,731	121,362	257,130
CCTV Inspected (ft)	12,890	4,897	4,981	62,333	85,101
Smoke Tested (ft)	60	1,694	562	14,785	17,101
Dye Tested (no. of locations)	0	0	0	0	0
Manholes Inspected (no.)	1	12	5	404	422
Lines Repaired (no.)	633	460	745	730	2,568
Manholes Rehabbed (no.)	107	76	31	156	370
Force Main Inspection (miles)	45.0	48.4	30.2	29	152
Force Main Repaired (no.)	38	29	1	15	83
ARV Inspected/Maintained	225	242	151	66	684
ARV Repaired (no.)	91	60	33	51	235
Wet Wells Cleaned	44	71	58	54	227
Pump Station Repaired (no.)	11	13	11	13	48

NWWTP New Developments - Quarters 38 - 41

Subdivision / Development	# of lots	Design Pop.	Flow (gpm)	Flow (MGD)	Sewer Length (ft.)
Central Commercial Park Extension	100 LOTS	380	27.78	0.04	594
Hooper Pointe	176 APTS	350	55.6	0.08	506
Indian Mound Sewer Improvements	5 LOTS	11	5	0.01	232
Kings Children Subdivision	11 LOTS	11	10.6	0.02	1,318
Maryland Farms Sewer Improvements Lots 38-P-1 and 38-P-2	2 LOTS	4	0.6	0.00	321
McHugh Subdivision	5 LOTS	15	5	0.01	470
Mount Carmel Gardens Subdivision	15 LOTS	41	14	0.02	628
Redwood Lake Lift Station (Zachary)	205 LOTS	780	229.2	0.33	2,000
		0	0	0.00	0
TOTAL		1592	347.68	0.51	5,748

Permit #: LA0036439

C. Treatment Plants

i. Have the influent and effluent flow meters been calibrated in the last year?

☒ Yes ☐ No (√ Check one box.)

see below
Influent flow meter calibration date(s)

see below
Effluent flow meter calibration date(s)

ii. What problems, if any, have been experienced over the last year that have threatened treatment?

Failure of influent and primary pumps.

iii. Is your community presently involved in formal planning for treatment facility upgrade?

√ Check one box. ☐ Yes ☒ No *If Yes, Please describe:*

Gravity	Forcemain	Final Effluent
1-23-2012	1-30-2012	1-24-2012
7-24-2012	7-30-2012	7-11-2012

D. Preventive Maintenance

i. Does your plant have a written plan for preventive maintenance on major equipment items?

√ Check one box. [X] Yes [ ] No *If Yes, Please describe:*

Weekly, monthly and semi-annually preventive maintenance sheets that reflect type and frequency as specified in the O & M manuals. A new computer program will manage the preventive maintenance of plant equipment and spare parts.

ii. Does this preventive maintenance program depict frequency of intervals, types of lubrication and other preventive maintenance tasks necessary for each piece of equipment?

[X] Yes [ ] No

iii. Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assured properly?

[X] Yes [ ] No

E. Sewer Use Ordinance

i. Does your community have a sewer use ordinance that limits or prohibits the discharge of excessive conventional pollutants (BOD, TSS or pH) or toxic substances to the sewer system from industries, commercial users and residences?

√ Check one box. [X] Yes [ ] No *If Yes, Please describe:*

Sewer User Fee Ordinance (No. 7853) limits the discharge of BOD & TSS to 200 mg/l and 250 mg/l respectively. Any discharge above these limits is surcharged at a rate of 2% of the monthly sewer user fee for each limit of 10 mg/l. Pretreatment Ordinance (No. 9195) limits the discharge of heavy metals, chemical and toxic substances.

ii. Has it been necessary to enforce?

√ Check one box. [X] Yes [ ] No *If Yes, Please describe:*

The Sewer User Fee Ordinance is strictly enforced by the City Parish and self monitoring sampling. The same apply to the Pretreatment Ordinance. Enforcement mechanisms include discharge permits, surcharges, letter of violations, administrative orders, water termination, and fines.

iii. Any additional comments about your treatment plant or collection system? (Attach additional sheets if necessary.)

NO

Permit #: LA0036439

POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: *Influent Flow/Loadings*	0	80 points
Part 2: *Effluent Quality / Plant Performance*	25	100 points
Part 3: *Age of WWTF*	35	50 points
Part 4: *Overflows and Bypasses*	100	100 points
Part 5: *Ultimate Disposition of Sludge*	10	100 points
Part 6: *New Development*	0	30 points
Part 7: *Operator Certification Training*	0	100 points

TOTAL POINTS: 170

ATTACHMENT 3

SAMPLE MWPP RESOLUTION

Resolved that the village/town/city of Baton Rouge informs the Louisiana Department of Environmental Quality that the following actions were taken by City Parish (governing body).

1. Resolved the Municipal Water Pollution Prevention Environmental Audit Report which is attached to this resolution.

2. Set forth the following actions necessary to maintain permit requirements contained in the Louisiana Pollution Discharge Elimination System (LPDES) permit, number LA 0036439 AI# 4843 .

   (Please be specific in listing the actions that will be taken to address the problems identified in the audit report.)

   a. CURRENTLY, WE ARE OPERATING UNDER A CONSENT DECREE WHICH BECAME EFFECTIVE MARCH 14, 2002.

   b. IMPLEMENTATION OF AGGRESSIVE PROCESS CONTROL STRATEGIES.

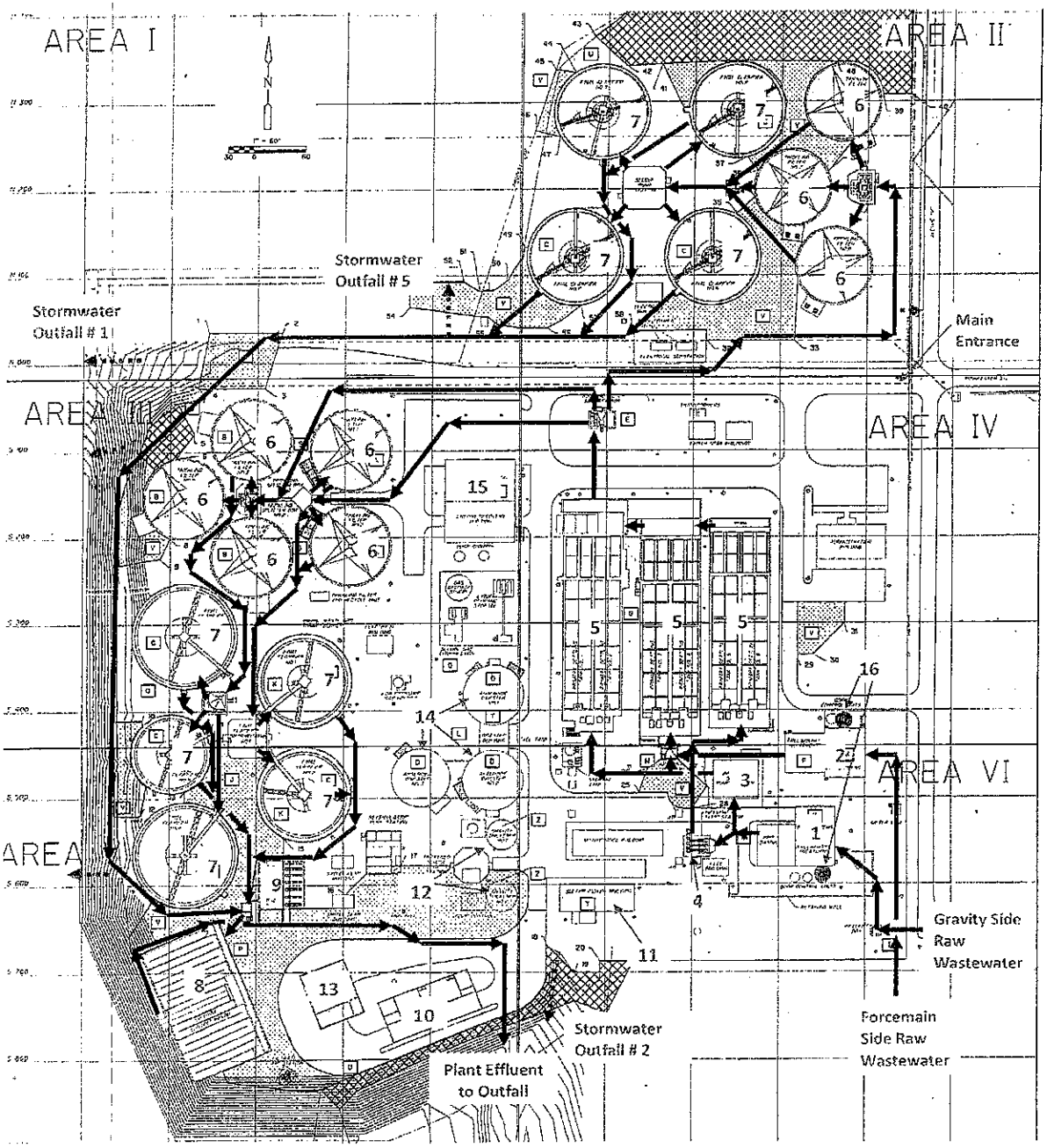
   c. A PROJECT IS UNDERWAY TO REDUCE THE HIGH CONCENTRATION OF HYDROGEN SULFIDE (H_2S).

   d.

   etc..

Passed by a majority (unanimous) (circle one) vote of the Metropolitan Council on December 12, 2012 (date).

CLERK



1 – Gravity Side Preliminary Treatment
2 – Forcemain Side Preliminary Treatment
3 – Screw Influent PS
4 – Influent PS
5 – Primary Settling Tanks
6 – Trickling Filters
7 – Final Clarifiers
8 – Chlorine Contact Basins
9 – Effluent PS
10 – Chlorine Building
11 – Sulfur Dioxide Building
12 – Gravity Thickeners
13 – Gravity Belt Thickeners
14 – Anaerobic Digesters
15 – Sludge Dewatering Building
16 – Odor Control Biotowers (New)

→ Wastewater Flow Path

⇢ Stormwater Flow

North WWTP Site Diagram

ADOPTED
METROPOLITAN COUNCIL
DEC 12 2012
COUNCIL ADMINISTRATOR TREASURER

311

RESOLUTION 49834

AUTHORIZING THE MAYOR-PRESIDENT TO APPROVE THE SUBMITTAL OF THE LOUISIANA MUNICIPAL WATER POLLUTION PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE NORTH WASTEWATER TREATMENT PLANT (LA 0036439 AI# 4843) TO THE DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) FOR THE MONITORING PERIOD OF SEPTEMBER 1, 2011 THROUGH AUGUST 31, 2012.

BE IT RESOLVED by the Metropolitan Council of the Parish of East Baton Rouge and City of Baton Rouge that the Mayor-President is hereby authorized to approve the submittal of the Louisiana Municipal Water Pollution Prevention (MWPP) Environmental Audit Report for the North Wastewater Treatment Plant (LA 00036439 AI# 4843) to the Department of Environmental Quality (DEQ) for the monitoring period of September 1, 2011 through August 31, 2012, is hereby approved.

CERTIFIED
A TRUE COPY

DEC 19 2012

Assistant Council Administrator

LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP

Facility Name:	**City of Baton Rouge / Parish of East Baton Rouge / South Wastewater Treatment Plant**
LPDES Permit Number:	LA0036412
Agency Interest (AI) Number:	4841
Address:	2850 Gardere Lane Baton Rouge, LA
Parish:	East Baton Rouge
(Person Completing Form) Name:	Cynthia Thomas
Title:	Assistant Wastewater Laboratory Supervisor
Date Completed:	November 16, 2012

INSTRUCTIONS

1. Complete only the sections of the Environmental Audit which apply to your wastewater treatment system. Leave sections that do not apply blank and enter a "0" for the point value.

2. Parts 1 through 7 contain questions for which points may be generated. These points are intended to communicate to the department and the governing body or owner what actions will be necessary to prevent effluent violations. Place the point totals from parts 1 through 7 on the Point Calculation page.

3. Add up the point totals.

4. Submit the Environmental Audit to the governing body or owner for review and approval.

5. The governing body must pass a resolution which contains the following items:

    a. The resolution or letter must acknowledge the governing body or owner has reviewed the Environmental Audit.

    b. This resolution must indicate <u>specific</u> actions, if any, will be taken to maintain compliance and prevent effluent violations. Proposed actions should address the parts where maximum or close to maximum points were generated in the Environmental Audit.

    c. The resolution should provide any other information the governing body deems appropriate.

Permit #: LA0036412

PART 1: INFLUENT FLOW/LOADINGS (all plants)

A. List the average monthly volumetric flows and BOD loadings received at your facility during the last reporting year.

Column 1 Average Monthly Flow (million gallons per day, MGD)		**Column 2** Average Monthly BOD5 Concentration (mg/l)		**Column 3** Average Monthly BOD5 Loading (pounds per day, lb/day)
41.04	x	115	x 8.34 =	39,361
32.33	x	119	x 8.34 =	32,086
34.77	x	139	x 8.34 =	40,307
35.21	x	135	x 8.34 =	39,643
36.52	x	128	x 8.34 =	38,986
42.53	x	114	x 8.34 =	40,436
42.60	x	126	x 8.34 =	44,766
37.22	x	166	x 8.34 =	51,529
34.81	x	148	x 8.34 =	42,967
35.00	x	121	x 8.34 =	35,320
35.29	x	125	x 8.34 =	36,790
45.35	x	97	x 8.34 =	36,687

BOD loading = Average Monthly Flow (in MGD) x Average Monthly BOD concentration (in mg/l) x 8.34

B. List the design flow and design BOD loading for your facility in the blanks below. If you are not aware of these design quantities, refer to your Operation and Maintenance (O&M) Manual or contact your consulting engineer.

Design Flow, MGD:	54	x 0.90 =	48.60
Design BOD, lb/day:	93,224	x 0.90 =	83,902

Permit #: LA0036412

C. How many months did the monthly flow (Column 1) to the wastewater treatment facility (WWTF) exceed 90% of design flow? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	0	0	0	0	5	5	5	5	5	5	5	5

Write 0 or 5 in the C point total box [0] C Point Total

D. How many months did the monthly flow (Column 1) to the WWTF exceed the design flow? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	5	5	10	10	15	15	15	15	15	15	15	15

Write 0, 5, 10 or 15 in the D point total box [0] D Point Total

E. How many months did the monthly BOD loading (Column 3) to the WWTF exceed 90% of the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	0	5	5	5	10	10	10	10	10	10	10	10

Write 0, 5,or 10 in the E point total box [0] E Point Total

F. How many months did the monthly BOD loading (Column 3) to the WWTF exceed the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	10	20	30	40	50	50	50	50	50	50	50	50

Write 0, 10, 20, 30, 40 or 50 in the F point total box [0] F Point Total

G. Add together each point total for C through F and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 1: [0] (max = 80)

Also enter this value or 80, whichever is less, on the point calculation table on page 16.

Permit #: LA0036412

PART 2: EFFLUENT QUALITY / PLANT PERFORMANCE

A. List the monthly average effluent BOD and TSS concentrations produced by your facility during the last reporting year.

Month	**Column 1** Average Monthly BOD (mg/l)	**Column 2** Average Monthly TSS (mg/l)
SEPTEMBER	17	19
OCTOBER	21	18
NOVEMBER	25	19
DECEMBER	28	20
JANUARY	31	23
FEBRUARY	30	24
MARCH	30	24
APRIL	31	22
MAY	21	19
JUNE	17	18
JULY	16	18
AUGUST	15	19

B. List the monthly average permit limits for your facility in the blanks below.

	Permit Limit		90% of Permit Limit
BOD, mg/l	30	x 0.90 =	27
TSS, mg/l	30	x 0.90 =	27

Permit #: LA0036412

C. Continuous Discharge to Surface Water.

i. How many months did the effluent BOD (Column 1) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	(5)	6	7	8	9	10	11	12
points	0	0	10	20	30	(40)	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the i point total box [40] i Point Total

ii. How many months did the effluent BOD (Column 1) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	0	(1)	2	3	4	5	6	7	8	9	10	11	12
points	0	(5)	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the ii point total box [5] ii Point Total

iii. How many months did the effluent TSS (Column 2) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	0	10	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the iii point total box [0] iii Point Total

iv. How many months did the effluent TSS (Column 2) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
points	(0)	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the iv point total box [0] iv Point Total

v. Add together each point total for i through iv and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 2: [45] (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #: LA0036412

D. Other Monitoring and Limitations

i. At any time in the past year was there and exceedance of a permit limit for other pollutants such as: ammonia-nitrogen, phosphorus, pH, total residual chlorine, or fecal coliform?

√ Check one box. [X] Yes [ ] No *If Yes, Please describe:*

Please see attached sheet

ii. At any time in the past year was there a "failure" of a Biomonitoring (Whole Effluent Toxicity) test of the effluent?

√ Check one box. [ ] Yes [X] No *If Yes, Please describe:*

iii. At any time in the past year was there an exceedance of a permit limit for a toxic substance?

√ Check one box. [ ] Yes [X] No *If Yes, Please describe:*

D. Other Monitoring and Limitations
page. 6

1.)	Fecal Coliform	9/27-10/03/2011	414 col./ 100 mL
2.)	Fecal Coliform	01/24-30/2012	1,375 col./ 100 mL
3.)	Fecal Coliform	01/31-02/06/2012	406 col./ 100 mL
4.)	Fecal Coliform	03/13-19/2012	604 col./ 100 mL
5.)	Fecal Coliform	03/20-26/2012	828 col./ 100 mL
6.)	Fecal Coliform	03/27-04/02/2012	670 col./ 100 mL
7.)	Fecal Coliform	04/03-09/2012	815 col./ 100 mL
8.)	Fecal Coliform	05/01-07/2012	609 col./ 100 mL
9.)	Fecal Coliform	07/17-23/2012	766 col./ 100 mL
10.)	Fecal Coliform	07/24-30/2012	805 col./ 100 mL
11.)	Total Residual Chlorine	08/02/2012	0.78 mg/L
12.)	Total Residual Chlorine	08/02/2012	0.68 mg/L
13.)	Fecal Coliform	07/31-08/06/2012	1,124 col./ 100 mL
14.)	Fecal Coliform	08/14-20/2012	495 col./ 100 mL

Permit #: LA0036412

PART 3: AGE OF THE WASTEWATER TREATMENT FACILITY

A. What year was the wastewater treatment facility constructed or last major expansion/ improvements completed?

1998

Current Year	-	*Answer to A*	=	*Age in years*
2012		1998		14

Enter Age in Part C below.

B. √ Check the type of treatment facility that is employed.

		FACTOR:
✓	Mechanical Treatment Plant (trickling filter, activated sludge, etc...) Specify Type: _____	(2.5)
____	Aerated Lagoon	2.0
____	Stabilization Pond	1.5
____	Other Specify Type: _____	1.0

C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determine the total point value for Part 3.

TOTAL POINT VALUE FOR PART 3 =

2.5	x	14	=	35 (max = 50)
Factor		*Age*		

Also enter this value or 50, whichever is less, on the point calculation table on page 16.

D. Please attach a schematic of the treatment plant.

See attachment

Permit #: LA0036412

PART 4: OVERFLOWS AND BYPASSES

A.

i. List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to heavy rain:

12 √ Check one box.

- ☐ 0 = 0 points
- ☐ 1 = 5 points
- ☐ 2 = 10 points
- ☐ 3 = 15 points
- ☐ 4 = 30 points
- ☑ 5 or more = 50 points

ii. List the number of bypasses, overflows or unpermitted discharges shown in A (i) that were within the collection system and the number at the treatment plant

Collection System: 10 Treatment Plant: 2

B.

i. List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to equipment failure, either at the treatment plant or due to pumping problems in the collection system:

87 √ Check one box.

- ☐ 0 = 0 points
- ☐ 1 = 5 points
- ☐ 2 = 10 points
- ☐ 3 = 15 points
- ☐ 4 = 30 points
- ☑ 5 or more = 50 points

ii. List the number of bypasses, overflows or unpermitted discharges shown in B (i) that were within the collection system and the number at the treatment plant

Collection System: 82 Treatment Plant: 5

C. Specify whether the bypasses came from the city/village/town sewer system or from contract or tributary communities/sanitary districts, etc...

D. Add the point values checked for A and B and place the total in the box below.

TOTAL POINT VALUE FOR PART 4: 100 (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

E. List the person responsible (name and title) for reporting overflows, bypasses or unpermitted discharges to State and Federal authorities:

Charles M. O'Brien, Wastewater Laboratory Supervisor

Describe the procedure for gathering, compiling and reporting:

The procedure for gathering, compiling, and reporting is specified in the permit.

Permit #: LA0036412

PART 5: SLUDGE STORAGE AND DISPOSAL SITES

A. Sludge Storage

How many months of sludge storage capacity does your facility have available, either on-site or off-site?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	<2	2	3	(4-5)	>6
points	50	30	20	(10)	0

Write 0, 10, 20, 30 or 40 in the A point total box [10] A Point Total

B. For how many months does your facility have access to (and approval for) sufficient land disposal sites to provide proper land disposal?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	<2	6-11	12-23	24-35	(>36)
points	50	30	20	10	(0)

Write 0, 10, 20, 30 or 40 in the B point total box [0] B Point Total

C. Add together the A and B point values and place the sum in the box below at the right:

TOTAL POINT VALUE FOR PART 5: [10] (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #: LA0036412

PART 6: NEW DEVELOPMENT

A. Please provide the following information for the total of all sewer line extensions which were installed during the last year.

Design Population: 3643

Design Flow: 1.42 MGD

Design BOD: 200 mg/l

B. Has an industry (or other development) moved into the community or expanded production in the past year, such that either flow or pollutant loadings to the sewerage system were significantly increased (5% or greater)?

√ Check one box. ☐ Yes = 15 points ☑ No = 0 points

If Yes, Please describe:

List any new pollutants:

C. Is there any development (industrial, commercial or residential) anticipated in the next 2-3 years, such that either flow or pollutant loadings to the sewerage system could significantly increase?

√ Check one box. ☐ Yes = 15 points ☑ No = 0 points

If Yes, Please describe:

List any new pollutants you anticipate:

D. Add together the point value checked in B and C and place the sum in the box below.

TOTAL POINT VALUE FOR PART 6: 0 (max = 30)

Also enter this value or 30, whichever is less, on the point calculation table on page 16.

Permit #: LA0036412

PART 7: OPERATOR CERTIFICATION AND EDUCATION

A. What was the name of the operator-in-charge for the reporting year?

Name: Hugh Taylor

B. What is his or her certification number:

Cert.#: 10-628

C. What level of certification is the operator-in-charge required to have to operate the wastewater treatment facility?

Level Required: Wastewater Treatment IV

D. What is the level of certification of the operator-in-charge?

Level Certified: Wastewater Treatment IV

E. Was the operator-in-charge of the report year certified at least at the grade level required in order to operate this plant?

√ Check one box. [X] Yes = 0 points [ ] No = 50 points

Write 0 or 50 in the E point total box [0] E Point Total

F. Has the operator-in-charge maintained recertification requirements during the reporting year?

√ Check one box. [X] Yes [ ] No

G. How many hours of continuing education has the operator-in-charge completed over the last two calendar years?

√ Check one box. [X] > 12 hours = 0 points [ ] < 12 hours = 50 points

Write 0 or 50 in the G point total box [0] G Point Total

H. Is there a written policy regarding continuing education an training for wastewater treatment plant employees?

√ Check one box. [X] Yes [ ] No

Explain: 16 hours of continuing education within a two year period.

I. What percentage of the continuing education expenses of the operator-in-charge were paid for:

By the permittee? 100% *By the operator?* 0%

J. Add together the E and G point values and place the sum in the box below at the right.

TOTAL POINT VALUE FOR PART 7: [0] (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #: LA0036412

PART 8: FINANCIAL STATUS

A. Are User-Charge Revenues sufficient to cover operation and maintenance expenses?

√ Check one box. [X] Yes [ ] No *If No, How are O&M costs financed?*

Same as B

B. What financial resources do you have available to pay for your wastewater improvements and reconstruction needs?

Wastewater improvements and reconstruction needs are funded from four main revenue sources. They are one half percent sales and use tax, sewer user fees, sewer impact fees, and a $4 million subsidy from the general fund supported gaming revenues.

Permit #: LA0036412

PART 9: SUBJECTIVE EVALUATION

A. Collection System Maintenance

i. Describe what sewer system maintenance work has been done in the last year.

SEE ATTACHMENT

ii. Describe what lift station work has been done in the last year.

SEE ATTACHMENT

iii. What collection system improvements does the community have under construction for the next 5 years?

SEE ATTACHMENT

B. If you have ponds please answer the following questions: √ Check one box.

i.	*Do you have duckweed buildup in the ponds?*	☐ Yes	☐ No
ii.	*Do you mow the dikes regularly (at least monthly), to the waters edge?*	☐ Yes	☐ No
iii.	*Do you have bushes or trees growing on the dikes or in the ponds?*	☐ Yes	☐ No
iv.	*Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds?*	☐ Yes	☐ No
v.	*Do you excersise all of your valves?*	☐ Yes	☐ No
vi.	*Are your control manholes in good structural shape?*	☐ Yes	☐ No
vii.	*Do you maintain at least 3 feet of freeboard in all of your ponds?*	☐ Yes	☐ No
viii.	*Do you visit your pond system at least weekly?*	☐ Yes	☐ No

LA0036412 SOUTH WASTEWATER PLANT

LA MWPP Environmental Audit

Part 9: Subjective Evaluation

A1. As part of the Consent Decree, Operation and Maintenance of the South Treatment Plant Collection Area is performed and reported on a quarterly basis. The following table is a breakdown/summary of activities performed within the South Treatment Plant Collection System Area during the reporting period.

South Treatment Area

Monitoring Period (2011 - 3rd qtr. thru 2012 - 2nd qtr.)

Line Cleaned	817,202
CCTV Inspected	651,074
Smoke Tested	467,775
Dye Tested	10
Manhole Inspected	2,329
Line Repaired	2,740
Manhole Rehabilitated	529
Force Main – Inspected	55
Repaired	50
Air Release Valves-Inspected	360
Repaired	138
Wet Wells Cleaned	234
Pump Stations-Repaired	45

A2. As shown above, an extensive routine pump station maintenance program is in place. Additionally, the attached Capital Improvement Plan outlines the construction projects that have been completed.

A3. The attached Capital Improvement Plan outlines the construction projects that are currently in the planning phase, or currently under design, including estimated completion dates.

South WWTP 2011-2012 Annual Audit

	3rd QTR 2011	4th QTR 2011	1st QTR 2012	2nd QTR 2012	Total
Lines Cleaned (ft)	460,151	247,847	70,264	38,940	817,202
CCTV Inspected (ft)	424,651	199,847	10,514	16,062	651,074
Smoke Tested (ft)	80,762	346,986	4,780	35,247	467,775
Dye Tested (no. of locations)	1	1	0	8	10
Manholes Inspected (no.)	1,363	860	18	88	2,329
Lines Repaired (no.)	613	814	772	541	2,740
Manholes Rehabbed (no.)	55	75	179	220	529
Force Main Inspection (miles)	18.4	7.8	12.8	16.0	55
Force Main Repaired (no.)	34	5	8	3	50
ARV Inspected/Maintained	92	39	64	165	360
ARV Repaired (no.)	35	14	17	72	138
Wet Wells Cleaned	55	72	42	65	234
Pump Station Repaired (no.)	16	11	6	12	45

SWWTP New Developments - Quarters 38 - 41

Subdivision / Development	# of lots	Design Pop.	Flow (gpm)	Flow (MGD)	Sewer Length (ft.)
Belhaven Trace Subdivision	32 LOTS	31	34	0.05	1,771
Burbank University (Ben Hur) Gravity collection line	380 APTS	760	79.4	0.1143	2,254
Centurion Estates Subdivision	5 LOTS	15	3	0.01	995
Chase Siegen Lane Sewer Extension	1 LOT	16	4	0.01	44
Gulf Union Property Extension	3 LOTS	16	4	0.01	749
Lexington Estates 2nd Filing Phase A, Pt 1	24 LOTS	72	25	0.04	697
Old Bluebonnet Cove Subd	14 LOTS	42	15	0.02	798
Old World Villas 2nd Filing	14 LOTS	26	10	0.01	243
Pennington Biomedical Sewer Extension	1 LOT	3	0.28	0.00	450
Pinnacle Casino Lift Station	MIXED	2566	720	1.04	2,200
Tio Ventures FM	1 LOT	3	0.28	0.00	500
University Villas	92 LOTS	90	83	0.12	2,272
Walgreens Highland @ Lee Sewer Extension	1 LOT	3	0.28	0.00	107
		0	0	0.00	
		0	0	0.00	
TOTAL		3643	978	1.42	12,287

Permit #: LA0036412

C. Treatment Plants

i. Have the influent and effluent flow meters been calibrated in the last year?

[X] Yes [ ] No (√ Check one box.)

see below
Influent flow meter calibration date(s)

see below
Effluent flow meter calibration date(s)

ii. What problems, if any, have been experienced over the last year that have threatened treatment?

Barscreens E-102, E-103 & E-1002

Trickling filters #7 & #8

Primary basins #1, #2 & #5

iii. Is your community presently involved in formal planning for treatment facility upgrade?

√ Check one box. [X] Yes [ ] No *If Yes, Please describe:*

Expansion of the South Treatment Plant

(SSO Program) = Sanitary Sewer Overflows

Wet Weather Project

Gravity
01-04-2012
07-30-2012

Forcemain
01-04-2012
05-02-2012

Final Effluent
*North chamber
11-30-2011
05-04-2012
*South chamber
11-30-2011
04-04-2012

Permit #: LA0036412

D. Preventive Maintenance

i. Does your plant have a written plan for preventive maintenance on major equipment items?

√ Check one box. [X] Yes [ ] No *If Yes, Please describe:*

Weekly, monthly and semi-annually preventive maintenance sheets that reflect type and frequency as specified in the O & M manuals. A new computer program will manage the preventive maintenance of plant equipment and spare parts.

ii. Does this preventive maintenance program depict frequency of intervals, types of lubrication and other preventive maintenance tasks necessary for each piece of equipment?

[X] Yes [ ] No

iii. Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assured properly?

[X] Yes [ ] No

E. Sewer Use Ordinance

i. Does your community have a sewer use ordinance that limits or prohibits the discharge of excessive conventional pollutants (BOD, TSS or pH) or toxic substances to the sewer system from industries, commercial users and residences?

√ Check one box. [X] Yes [ ] No *If Yes, Please describe:*

Sewer User Fee Ordinance (No. 7853) limits the discharge of BOD & TSS to 200 mg/l and 250 mg/l respectively. Any discharge above these limits is surcharged at a rate of 2% of the monthly sewer user fee for each limit of 10 mg/l. Pretreatment Ordinance (No. 9195) limits the discharge of heavy metals, chemical and toxic substances.

ii. Has it been necessary to enforce?

√ Check one box. [X] Yes [ ] No *If Yes, Please describe:*

The Sewer User Fee Ordinance is strictly enforced by the City Parish and self monitoring sampling. The same apply to the Pretreatment Ordinance. Enforcement mechanisms include discharge permits, surcharges, letter of violations, administrative orders, water termination, and fines.

iii. Any additional comments about your treatment plant or collection system? (Attach additional sheets if necessary.)

NO

Permit #: LA0036412

POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: *Influent Flow/Loadings*	0	80 points
Part 2: *Effluent Quality / Plant Performance*	45	100 points
Part 3: *Age of WWTF*	35	50 points
Part 4: *Overflows and Bypasses*	100	100 points
Part 5: *Ultimate Disposition of Sludge*	10	100 points
Part 6: *New Development*	0	30 points
Part 7: *Operator Certification Training*	0	100 points

TOTAL POINTS: 190

ATTACHMENT 3

SAMPLE MWPP RESOLUTION

Resolved that the village/town/city of Baton Rouge informs the Louisiana Department of Environmental Quality that the following actions were taken by City Parish (governing body).

1. Resolved the Municipal Water Pollution Prevention Environmental Audit Report which is attached to this resolution.

2. Set forth the following actions necessary to maintain permit requirements contained in the Louisiana Pollution Discharge Elimination System (LPDES) permit, number LA 0036412 AI # 4841 .

   (Please be specific in listing the actions that will be taken to address the problems identified in the audit report.)

   a. CURRENTLY, WE ARE OPERATING UNDER A CONSENT DECREE WHICH BECAME EFFECTIVE MARCH 14, 2002.

   b. A PROJECT IS UNDERWAY TO REDUCE THE HIGH CONCENTRATION OF HYDROGEN SULFIDE (H_2S).

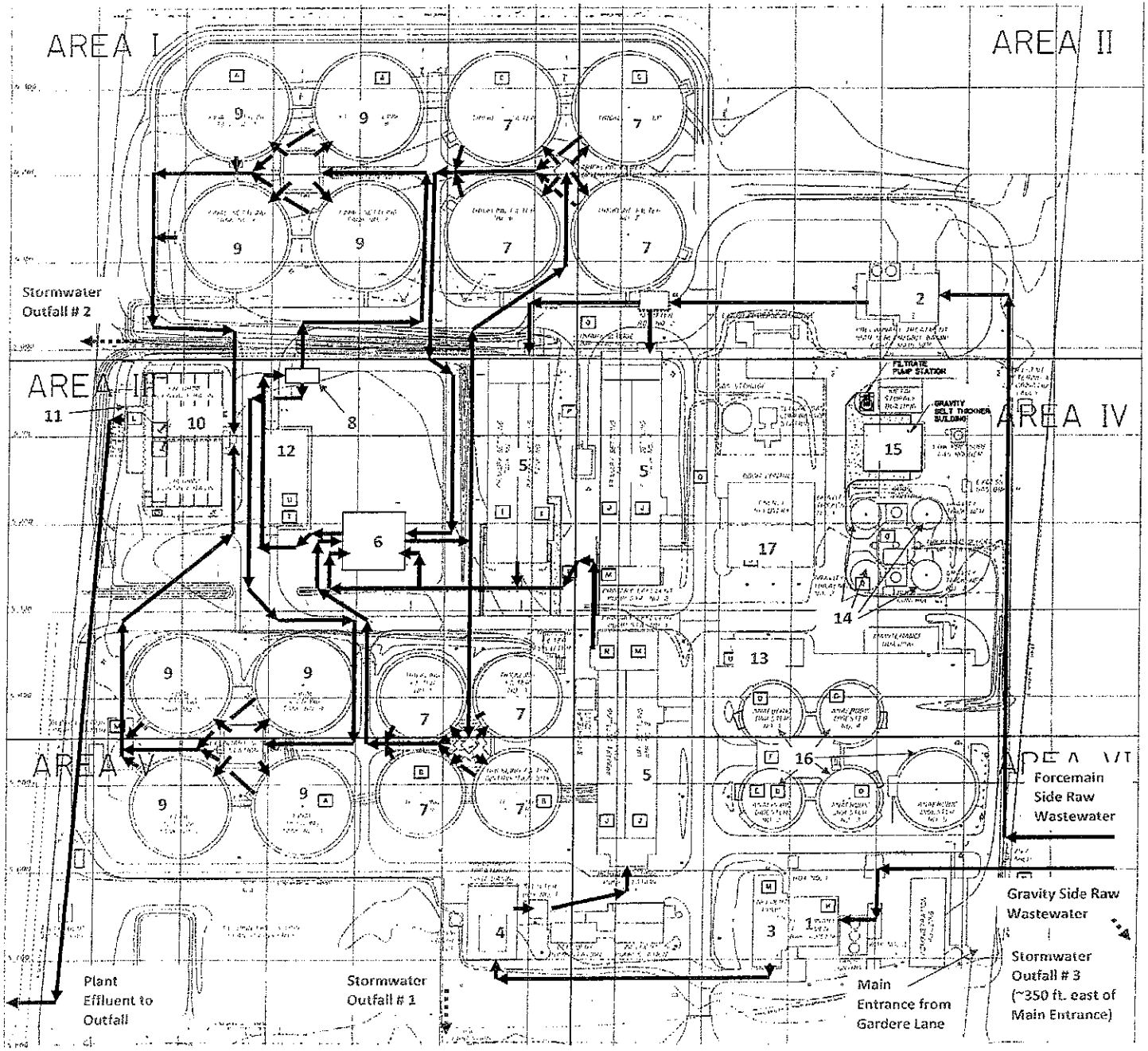
   c.

   d.

   etc..

Passed by a majority (unanimous) (circle one) vote of the Metropolitan Council on December 12, 2012 (date).

CLERK



1 – Gravity Side Influent Screening
2 – Forcemain Side Preliminary Treatment
3 –Gravity Influent PS
4 – Gravity Side Grit Basins
5 – Primary Settling Tanks
6 – Trickling Filter PS (New)
7 - Trickling Filters
8 – Flow Splitting Structure (New)
9 - Final Settling Tanks
10 – Chlorine Contact Basins
11 – Effluent PS
12 – Chlorine Building
13 – Sulfur Dioxide Building
14 – Gravity Thickeners
15 – Gravity Belt Thickeners
16 – Anaerobic Digesters
17 – Sludge Dewatering Building

Wastewater Flow Path

Stormwater Flow

Baton Rouge South WWTP Site Diagram

ADOPTED
METROPOLITAN COUNCIL
DEC 12 2012
COUNCIL ADMINISTRATOR TREASURER

312

RESOLUTION 49835

AUTHORIZING THE MAYOR-PRESIDENT TO APPROVE THE SUBMITTAL OF THE LOUISIANA MUNICIPAL WATER POLLUTION PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE SOUTH TREATMENT PLANT (LA 0036412 AI# 4841) TO THE DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) FOR THE MONITORING PERIOD OF SEPTEMBER 1, 2011 THROUGH AUGUST 31, 2012.

BE IT RESOLVED by the Metropolitan Council of the Parish of East Baton Rouge and City of Baton Rouge that the Mayor-President is hereby authorized to approve the submittal of the Louisiana Municipal Water Pollution Prevention (MWPP) Environmental Audit Report for the South Wastewater Treatment (LA 00036412 AI# 4841) to the Department of Environmental Quality (DEQ) for the monitoring period of September 1, 2011 through August 31, 2011, is hereby approved.

CERTIFIED
A TRUE COPY

DEC 20 2012

Assistant Council Administrator