BATON ROUGE SSO PROGRAM

2002 CONSENT DECREE

2008 ANNUAL REPORT

January 29, 2009

Department of Public Works

City of Baton Rouge
Parish of East Baton Rouge

Post Office Box 1471
Baton Rouge, Louisiana
70821

January 29, 2009

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, 2008**

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, 2008. 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,

Peter T. Newkirk
Director of Public Works

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
Mr. Mike Futrell, Chief Administrative Officer
Mr. Michael Donnellen, US DOJ
Ms. Mona Tates, US EPA Region 6
Mr. Carlos Zequeira, US EPA (6RC-EA)
Ms. Gladys Gooden-Jackson, US EPA (6EN-WC)
Mr. Ted Broyles, LDEQ
Mr. Bruce Hammatt, LDEQ
Ms. Peggy Hatch, LDEQ
Mr. Harold Leggett, LDEQ
Mr. Wade Shows, Parish Attorney
Mr. Bob Abbott, Parish Attorney's Office
Mr. Bryan Harmon, DPW
Mr. Mark LeBlanc, DPW
Ms. Amy Schulze, DPW
Mr. Walter Jenkins, DPW
Mr. David Ratcliff, DPW
Ms. Cheryl Berry, DPW
Mr. Jim Hawley, CH2MHILL

CITY-PARISH DEPARTMENTAL MEMORANDUM

WASTEWATER TREATMENT AND DISPOSAL DIVISION

2443 River Road
Baton Rouge, LA 70802

Date: January 29, 2009

To: Mr. Bryan Harmon, Chief Engineer

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
2008 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 2008 Annual EPA Report. Once the review of your portion of 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 2008 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 Harmon 1/29/09

cc: Document Control

BATON ROUGE SSO PROGRAM
2002 CONSENT DECREE

2008 ANNUAL REPORT

January 29, 2009

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List of Exhibits

Baton Rouge Consent Decree
2008 Annual Report

This Annual Report covering the period from January 1, 2008 to December 31, 2008 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.

I Remedial Measures Action Plan (RMAP)

The City/Parish originally developed a comprehensive remedial action plan for the collection system during consent decree negotiations, identified as Alternative 1 (the original SSO Plan) in the Consent Decree. Shortly thereafter, a Value Engineering (VE) study was commissioned in order to explore cost-saving alternatives. The VE study identified seven options of the original SSO Plan for further considerations. Three of those alternatives (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. The Composite Plan consisted of two (2) parts: the First Remedial Measures Action Plan (RMAP1) and Second Remedial Measures Action Plan (RMAP2).

RMAP1 Summary

The First RMAP (or RMAP1), submitted on January 10, 2001, consisted of the projects that were common to all three 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 are a total of nineteen of these "common" projects that were identified through various modeling and Value Engineering efforts associated with the original Sanitary Sewer Overflow (SSO) Corrective Action Plan developed by MWH sometime in 1998. These projects were common to the alternative plans presented in the Consent Decree that were focused on utilizing deep tunnels/storage in order to control the SSO's throughout the City/Parish's wastewater collection system. The phased implementation of these RMAP1 projects initially began sometime 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. However, during the planned execution of these projects significant events have taken place with the change in technical approach of the Collection System Remedial Program and some RMAP1 projects have been affected.

In the years 2004 and 2005, the City/Parish decided to re-evaluate the planned technical approach of their Collection System Remedial Program, while in the process of executing the RMAP1 projects. Their review resulted in a consequential change in technical approach from deep tunnels and storage, to sewer rehabilitation. Therefore, the original RMAP1 projects were

all re-examined, and some wound up not fitting into the "new" plan. Some of these projects were then 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) did the conceptual reevaluation of the sewer rehabilitation plan and then CH2M HILL was engaged as the program manager and charged to do more detailed engineering and evaluations of the revised approach. CH2M HILL is currently the City/Parish's consultant for the City/Parish's Sanitary Sewer Overflow (SSO) Control and Wastewater Facilities Program 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 to date 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 request for time extension was verbally approved by the EPA during the conference call on February 12, 2008.

However, since no formal approval has been granted from the EPA or LDEQ for the revised RMAP1 projects that are outstanding which were highlighted in the report, the City/Parish re-submitted RMAP1 milestones in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). It has been requested that the formal approval from the EPA/LDEQ for these RMAP1 project milestones be received by the City/Parish in the near future. Until the time the approval is received, the City/Parish and CH2M HILL are actively moving forward with the execution of these RMAP1 projects and has been submitting all required documentation.

The current status of the RMAP1 projects completed or still in progress is presented in Table 1 below. For more details about the RMAP1 projects, or the RMAP1 milestone schedules can be found in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008) in Attachment A.

TABLE 1

EPA Consent Decree Summary and Proposed RMAP1 Milestones

		RMAP1 Projects Completed	RMAP1 Projects Completed	Project Status Summary
Milestone Date		May 4, 2007	Proposed on September 1, 2008	
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)	✓		

TABLE 1

EPA Consent Decree Summary and Proposed RMAP1 Milestones

		RMAP1 Projects Completed	RMAP1 Projects Completed	Project Status Summary
Milestone Date		May 4, 2007	Proposed on September 1, 2008	
Construction Status		Complete	Complete	
Consent Decree Projects	**Corresponding City/Parish Projects**			
RMAP1 Projects				
***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)	✓		
	**PS 211 Area Upgrades (99-RMP-S11)	✓		
N-01 Choctaw Basin Return System	Choctaw Area Storage (04-RMP-N22)			Project suspended. Evaluating for inclusion in RMAP2 Plan. Project is included as RMAP2: Choctaw Storage.
N-13 North Choctaw Basin System	S-05 PS 58B Area Upgrades MWH RMAP2			Project suspended. Evaluating for inclusion in RMAP2 Plan. Project is included as RMAP2: Choctaw Storage PS.
N-04 PS 47 Area Upgrades	N-04 PS 47 Area Upgrades			Project suspended. Evaluating for inclusion in RMAP2 Plan. Project is included as RMAP2: Group Project 1B – Veterans Memorial Parkway PS FM.

TABLE 1

EPA Consent Decree Summary and Proposed RMAP1 Milestones

		RMAP1 Projects Completed	RMAP1 Projects Completed	Project Status Summary
Milestone Date		May 4, 2007	Proposed on September 1, 2008	
Construction Status		Complete	Complete	
Consent Decree Projects	**Corresponding City/Parish Projects**			
RMAP1 Projects				
N-07 PS 39/55 Area Upgrades	N-07 PS 39/55 Area Upgrades			Project suspended. Evaluating for inclusion in RMAP2 Plan. 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	80% complete with construction. Project 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.
S-08 Industriplex Area Upgrades	Industriplex Area PS 355 and FM Upgrades (99-RMP-S08)		2nd Quarter 2010	Construction contract awarded. Finalizing permit agreement with gas pipeline company. Finalizing land acquisition. Construction expected to begin 1st quarter 2009.
S-14 Kleinpeter Area Upgrades	Kleinpeter Area Upgrades (03-RMP-S14)		2nd Quarter 2010	Construction contractor selected. Construction expected to begin 1st quarter 2009.
S-16 PS 136 Area Upgrades	PS 136 Area Upgrades (99-RMP-S16)		2nd Quarter 2010	Construction contract awarded. Finalizing land acquisition. Construction expected to begin 1st quarter 2009.
*Notes: This project was executed as a combination of two RMAP1 projects				
**Notes: These projects were added as RMAP1 projects by the City/Parish after entry into the Consent Decree				
***Notes: This RMAP1 project was split up into multiple projects for better execution				

RMAP2 Summary

The Second RMAP (RMAP2), which was originally submitted on November 19, 2002 by the City/Parish and their consultants MWH, consisted of the projects required to complete the selected overall remedial action plan, 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. Therefore, 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 CDM helped develop. The requested plan modification represented a material change in the currently approved RMAP2 (based on Alternative 7), though the requested revision to the RMAP2 did not actually extend the final compliance date beyond the January 1, 2015 deadline for Alternative 7, listed in the Consent Decree. At this time the City/Parish is making every reasonable effort to complete the work to meet the original deadlines and has focused additional efforts and resources to accelerate treatment plant improvements to achieve consistent permit compliance.

The revised RMAP2, submitted by the City/Parish and CDM, hadn't yet been approved by the EPA and LDEQ in early 2006 when the City/Parish engaged CH2M HILL to conduct a peer review in order to address issues about some elements of the alternative plan including an assessment of costs and schedules and a reassessment of the South Treatment Plant 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 Wastewater Treatment Plant 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. CH2M HILL included the following technical memorandum as a part of this submittal: "Addressing Existing Noncompliance Issues and Future Wet-Weather Flow Management Requirements for the South Wastewater Treatment Plant – Summary of Findings and Recommendations". In addition, per EPA and LDEQ request, a more descriptive follow-up report was submitted in January 2007 titled "South Wastewater Treatment Plant Immediate Action Plan Basis of Design Report" that detailed the recommendations outlined in the previous related technical memorandum. 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 has been underway by the City/Parish and the new Program Manager/CH2M HILL and others in order to develop 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 consisted of refined modeling and calibration, detailed calculations, review of field data, and project development, prioritization, and cost estimating. The RMAP2 submittal outlines the projects planned to eliminate SSO's throughout the City/Parish, in addition to describing the projects planned in order 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 Department of Justice (DOJ), United States Environmental Protection Agency (EPA), and Louisiana Department of Environmental Quality (LDEQ) for review and approval in September 2008. The proposed plan represents a substantial commitment to meet the 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 reports to the EPA.

During the review and approval process of the *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 in regards 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 thirty (30) days in accordance with DOJ policy and in 28 C.F.R. § 50.7, and forty-five (45) days in accordance with the LDEQ La. R.S. 30:2050.7. The City/Parish was e-mailed two (2) 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 letter and 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 is the City/Parish's response to the two (2) public comments received by the DOJ on December 17, 2008 from Mr. Steve Irving and Ms. Kathryn Lewis. The memorandum was submitted Friday, January 23, 2009 and the City/Parish believes that it provides a comprehensive response to the public comments received, and also highlights some of the extensive progress that has been achieved to date associated with the Consent Decree. Also, many actions to address the concerns expressed in the public comments received were already either completed or underway. The City/Parish urged the Court that a timely approval of the modification be forthcoming, as the City/Parish has multiple projects that are currently ready to begin design as soon as the Consent Decree modification is approved.

As previously mentioned, the RMAP2 projects are separated into three categories with descriptions and schedules provided for all projects. A summary of these projects and an update of their current status are provided below, and also in Attachment A.

Category 1: Comprehensive Sewer Basin Rehabilitation

Based on sewer system digital model analysis and flow monitoring, twenty-six (26) sub-basins within the collection system require comprehensive rehabilitation. The areas requiring comprehensive rehabilitation are described herein in more detail than was available in the November 2006 RMAP2 submittal. Design and analysis of the first five (5) sub-basins is currently in progress, with one (1) project under construction. Rehabilitation is the primary method of removing excessive Infiltration/Inflow (I/I) from the collection system.

Table 2 presents the twenty-six (26) Category 1 comprehensive rehabilitation sub-basin projects and anticipated delivery milestone schedules. Status summaries are also provided for those projects already underway.

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 2

EPA Consent Decree RMAP2 Milestones for Category 1 Projects

	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	✓			Construction began early 4th quarter 2008 and is approximately 20% complete. Construction is on-going and expected to be completed by the end of 3rd quarter 2009
Staring Lane - Boone Drive	✓			Basin Characterization Report was finalized, and the survey and design began 4th quarter 2008. Advertisement for construction bids expected early 1st quarter 2009.
Gardere Lane - Burbank Road	✓			Design completed. Advertisement for construction bids completed. Construction expected to begin 1st quarter 2009.
Oak Villa Blvd - Choctaw Street	✓			Contractor completed the cleaning and inspection work in project areas. The basin observations/field reconnaissance was also completed. The Basin Characterization report was finalized. Design and survey on-going.
Scotland Avenue - Progress Road	✓			Cleaning and inspection (CCTV, smoke testing, manhole inspection, etc.) work ongoing. Data analysis and draft basin characterization report expected to be completed 1st quarter 2009.
Elm Grove Garden Road - Harding Blvd	✓			Cleaning and inspection work on-going, and expected to be completed by the end of the 1st quarter 2009.

TABLE 2

EPA Consent Decree RMAP2 Milestones for Category 1 Projects

	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				
Sharp Road - Florida Blvd	✓			
Kenilworth Blvd - Boone Drive	✓			
Foster Drive - Government Street	✓			
Silverleaf Road - Ford Street	✓			
Brookstown Road - Evangeline Street	✓			
Bluebonnet Blvd - Jefferson Hwy		✓		
Highland Road - Washington Street	✓			
Stanford Avenue - Morning Glory Road	✓			
Airline Highway - Goodwood Blvd		✓		
Acadian Thruway - Claycut Road	✓			
Acadian Thruway - Perkins Road	✓			
Antioch Road - Chadsford Drive		✓		
Jones Creek Road - Tiger Bend Road		✓		
Scenic Highway - Spanish Town Road			✓	
Siegen Lane - Interstate 10		✓		
Interstate 110 - Hollywood Street		✓		
Ardenwood Drive - Winbourne Street			✓	
Flannery Road - Florida Blvd			✓	
East Boulevard - Government Street			✓	
North 38th Street - Gus Young Avenue			✓	

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 transmission mains in order to accommodate peak wastewater flows remaining in the rehabilitated collection system. Table 4 presents a list of the fifty-seven (57) Category 2 projects with project delivery milestone schedules. Of these projects there are approximately twenty-two (22) projects currently in progress. Project status summaries are provided for those projects already underway.

TABLE 3

EPA Consent Decree RMAP 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				
Capital Lake Drive - Gayosa Street	✓			Preliminary design completed. 60% design expected to be submitted in 1st quarter 2009. Railroad and levee permit application expected to be submitted 1st quarter 2009.
Gurney Road - Joor Road	✓			Construction contract awarded. Construction is expected to begin early 1st quarter 2009.
Multiple Pump Stations - Lovett Road Area	✓			Finalizing land acquisition. The project is expected to be advertised for construction bids in 1st quarter 2009.
Comite Road - Foster Road	✓			Project being designed and executed in two phases: Phase I and Phase II. Phase 1 - 100% design was finalized and servitude acquisition is on-going. Advertisement for construction bids and bid opening expected for 1st quarter 2009. Phase 2 – 60% design was finalized and 90% design was submitted for review and approval. 100% design is expected to be completed in 1st quarter 2009.
Foster Road - Hooper Road	✓			100% design package is completed. Advertisement for construction contractor is expected to be done 1st quarter 2009.
Zachary Area Transmission Network Improvements		✓		(Previously called Red Mud Lakes and Hwy 61 Zachary/Baker) Preliminary routing and pump station locations finalized. 30% design expected to be submitted 1st quarter 2009.
South Boulevard - St. Joseph Street	✓			Surveying and geotechnical investigations completed. Utility company coordination and permitting is on-going. Preliminary routing submitted. 30% design expected to be submitted early 1st quarter 2009.

TABLE 3

EPA Consent Decree RMAP 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				
Downtown Area - PS59 Improvements	✓			Design expected to begin 1st quarter 2009.
Downtown Area - PS15, PS19 & PS60 Improvements	✓			Design expected to begin 1st quarter 2009.
Highland Road - Buchanan Street	✓			Surveying and preliminary routing completed. 30% design submitted for review and approval. 60% design expected to be submitted early 1st quarter 2009.
Citiplace/Essen Area - PS119 & Forcemain Improvements	✓			Preliminary design completed. 30% design expected to be submitted 1st quarter 2009.
Group 1A - Veterans Memorial Parkway - Gravity Mains		✓		Design expected to begin 1st quarter 2009.
Group 1B - Veterans Memorial Parkway - PS FM		✓		Design expected to begin 1st quarter 2009.
Perkins/Old Perkins Area - Booster PS 514 Improvements		✓		
Group 2 - Small Pump Stations	✓			Design consultant selected. Design expected to begin 1st quarter 2009.
Highland Road - Burbank Drive	✓			Preliminary design completed. Hydraulic modeling and the surveying and geotechnical studies are ongoing. Hydraulic modeling and 30% design expected to be completed 1st quarter 2009.
Nicholson Dr - Highland Rd - Perkins Rd		✓		
Perkins Road - Dahlia Street		✓		
25th Street - North Acadian Thruway	✓			
Government St - South Acadian Thruway		✓		
Plank Road - Kleinpeter Road		✓		
O'Neal Lane - Jones Creek Road		✓		
O'Neal Lane - Tiger Bend Road		✓		

TABLE 3

EPA Consent Decree RMAP 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 - Nicholson Dr - Brightside Dr		✓		
PS 58A Overflow Pump Station		✓		
Staring Lane FM A - Burbank to Highland	✓			Construction consultant contract approved. Construction expected to begin early 1st quarter 2009.
Staring Lane FM B - Highland to Perkins	✓			60% design submitted and reviewed. 90% design expected to be submitted early 1st quarter 2009.
Staring Lane FM C - Perkins to PS 58		✓		Survey completed. Design expected to begin 2nd quarter 2009.
Multiple PS - Jefferson Hwy - Park Forest Dr		✓		
Airline Highway - Jefferson Highway		✓		
Essen Lane - Interstate 12			✓	
Multiple PS - Highland Road - Kenilworth Parkway			✓	
Multiple PS - Florida Blvd - Sherwood Forest Blvd			✓	
Multiple PS - Plank Road - Thomas Road			✓	
Multiple PS - Plank Road - Harding Boulevard			✓	
Multiple PS - Highway 61 - Plank Road			✓	
Multiple PS - Jones Creek Rd - Tiger Bend Rd			✓	
Airline Highway - Interstate 12			✓	
Florida Boulevard - Sherwood Forest Boulevard			✓	
Goodwood Boulevard - South Flannery Road			✓	

TABLE 3

EPA Consent Decree RMAP 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			✓	
Plank Road - Port Hudson Pride Road			✓	
Essen Lane - Highland Road			✓	
Oak Villa Boulevard - Monterey Boulevard			✓	
Lovett Road - Greenwell Springs Road			✓	
Highland Road - Lee Drive			✓	
Multiple PS - Hooper Rd - Greenwell Springs Rd			✓	
Multiple Booster PS - Hooper Rd - Lovett Rd			✓	
Multiple PS - Prescott Rd - Greenwell Springs Rd			✓	
Multiple PS - O'Neal Ln - S. Harrells Ferry Rd			✓	
Multiple PS - O'Neal Ln - S. Harrells Ferry Rd			✓	
Airline/Florida Boulevard Area - PS30 Improvements & New PS			✓	
Multiple PS - Burbank Drive - Siegen Lane			✓	
Central Consolidation - Central WWTP PS		✓		Consultant selection completed. Project definitions submitted for review and approval. Design expected to begin early 1st quarter 2009.
Central Consolidation - Central WWTP FM		✓		Consultant selection expected 1st quarter 2009. Project definitions also expected to be completed by early 1st quarter 2009.
Central Consolidation Eastside PS's - PS 2, 3, 4, 5, 6, 7, & 10		✓		Consultant selection expected 1st quarter 2009. Project definitions also expected to be completed by early1st quarter 2009.

TABLE 3

EPA Consent Decree RMAP 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		✓		Consultant selection expected 1st quarter 2009. Project definitions also expected to be completed 1st quarter 2009.

Category 3: Wastewater Treatment and Storage

This category of projects includes improvements at the City/Parish wastewater treatment plants (WWTP's), as well as storage facilities throughout the service area. Presently, there are not any RMAP2 projects that have been identified at the North WWTP. Also, based on extensive evaluations in a master planning report, 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.

Wastewater Treatment Projects that are part of RMAP2 submittal 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. Note that this project was made up of three (3) separate projects that were grouped together for ease of execution. 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, 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 sized to reduce peak flows to existing treatment plants that are also a part of this RMAP2 submittal, and are listed below and depicted as well in Table 4:

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

These storage projects are part of the transmission system which permits retainage of peak wet weather flows and allows the stored flow to be released later for treatment at the treatment plant. Five (5) of the six (6) total projects of this type are already under design or have been advertised

for construction or completed. The details of the wastewater treatment and storage projects are listed in Table 4 below.

TABLE 4

EPA Consent Decree RMAP 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	✓			Conducted dynamic model runs. DPW reviewed/approved the project definition. Design Consultant notice to proceed is expected to be issued and design to begin 1st quarter 2009.
Hooper Storage	✓			
South WWTP IAP Consolidated – Screening, Primary Treatment, Trickling Filter Recirculation, Sludge Handling	✓			Combined projects as one bid. Bids opened August 19, 2008. Evaluation of bids resulted in value engineering efforts and a re-design for the project. The re-design and advertisement has been completed. Construction bid opening and award expected early in 1st quarter 2009.
South WWTP IAP- Effluent Pumping Improvements	✓			Project completed.
South WWTP - Phase 1		✓		Design Consultant selected. Notice to Proceed expected early 1st quarter 2009. Huge issue with land acquisition since not all land is vacant – relocate owners, etc.
South WWTP - Phase 2			✓	Expected to advertise RFQ in 1st quarter 2009.

Infiltration & Inflow (I/I) 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 Plant Collection Systems. The City/Parish spent approximately $3.7 million during 2008 and therefore, the City/Parish was in compliance with Section XII Collection System Remedial Program during this reporting period. All goals were exceeded. 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 2008 to meet this requirement.

TABLE 5

I/I Reduction Activities Summary

PROJECT	DESCRIPTION	2008 % COMPLETE	ACTUAL % COMPLETE	CONSTRUCTION COST/BID	EXPENDITURES 2008
07-CP-UF-0043	Annual Lining Project (Yr. 2)	100%	100%	$3,200,085	$938,475
05-CDR-07	PS #45 Rehab	Under Design	Under Design	N/A	N/A
07-CDR-PI	Physical Inspection for Evaluation of Portions of the Existing Sanitary Sewers	100%	100%	$1,551,145	$920,677
06-WC-AN-0053	Annual Parish-wide Sewer Collection System Rehabilitation by Point Repair	100%	100%	$1,000,000	$669,227
07-MH-UF-0042	Manhole Rehabilitation	48%	48%	$1,800,095	$872,380
07-PN-UF-0041	Annual CDR Point Repair Project	27%	27%	$998,398	$277,213
	TOTAL EXPENDITURES IN 2008			**$8,549,723**	**$3,677,972**

II 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 Wastewater Treatment Plants (WWTPs). The City/Parish submitted Treatment Facility Assessment Report on March 26, 2002. It was determined in the Treatment Facility Assessment Report, that all process units and conveyance elements had capacity for current and projected design flows at all three WWTPs. In addition, all WWTPs were found to have the ability to meet their permit effluent limits. Based on these findings, no WWTP facility improvements or expansion were required. The Treatment Facility Assessment Report also indicated that the monthly Operators Process Control meetings currently led by Dr. John J. Sansalone of LSU are having a beneficial impact on plant performance. However, it was determined later that additional improvements were needed at the South Wastewater plant which are now included in the IAP and RMAP2 projects.

The City/Parish submitted Municipal Water Pollution Prevention (MWPP) Environmental Audit Reports for the North, South, and Central Wastewater Treatment Plants on October 24, 2008, August 24, 2008, and October 24, 2008, respectively (see Attachment B). These reports contain an evaluation and rating for influent loadings, plant performance, overflows & bypasses, treatment plant age, sludge disposal, new development in collection system, and operator certification training for the North, South and Central Wastewater Treatment Plants. The MWPP

audit rated the treatment plants on the above 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 wastewater treatment plan collection system areas.

In addition, there has been other work at the WWTPs that has taken place during the past year to help improve the operation and maintenance of the plants. The status of construction projects at the WWTPs is provided below:

- North WWTP digester cleaning project is 100% complete.
- South WWTP replacement of the digester covers on digesters No. 3 and No. 4 is approximately 100% complete.
- South WWTP electric actuators in the chlorine chamber sluice gate valves project is 100% complete.
- North WWTP clarifier refurbishment project is 50% complete.

III Environmental Results Monitoring (ERM)

Pursuant to Consent Decree Section XIV Remedial Measures – Environmental Results Monitoring Plan, the City/Parish shall implement the Environmental Results Monitoring 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 Program 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 plan outlines four sampling locations, including all major tributaries in East Baton Rouge Parish, which enter the Amite River System – and eventually Lake Ponchatrain.

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

IV 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 wastewater treatment plant (WWTP) National Pollution Discharge Elimination System (NPDES) permits.

During 2008, the North WWTP has been in compliance with the 75% interim effluent limits for removal of both TSS and BOD the entire twelve (12) month period. In fact, the North WWTP met the permit limit of 85% removal for TSS the entire twelve (12) month period, and it also met the permit limit for 85% removal of BOD for six (6) months, as illustrated by Table 6.

The Central WWTP has been in compliance with the 75% interim effluent limits for removal of TSS for eleven (11) months, and for the removal BOD for ten (10) months. The Central WWTP also has met the permit limit of 85% removal of TSS for eleven (11) months and four (4) months for BOD.

The South WWTP has been in compliance with the 75% interim effluent limit for TSS all year. However, it did not meet the 75% interim effluent limit for BOD for five months of the year. The South WWTP has experienced operational difficulties during the past year related to various issues such as the following: primary basins (#1, #2, #4, #5, and #6) out of service due to mechanical issues due to pump failure by line stoppage; final clarifiers (#1, #2, #3, #4, #5, and #6) out of service due to cleaning and preventative maintenance activities; final clarifier pump primary basin (#4, #5, #6), sludge pumps (P-2504, P-203), trickling filter #8, and digester #5 out of service due to mechanical issues; influent pumps (P-153, P-151, and P-155) and final effluent pump P-5505 out of service due to mechanical and electrical issues. Many of these issues have been resolved throughout the year, and others are still outstanding. More details can be found in the Quarterly EPA Reports from 2008. The South Plant's performance improved significantly in the last half of 2008 and will improve further with the completion of the IAP.

TABLE 6
Monthly Average Percent Removal

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
North Plant-LA0036439												
BOD	76	85	78	81	83	84	87	87	88	88	87	83
TSS	87	92	89	89	89	92	92	92	95	91	91	90
Central Plant-LA0036421												
BOD	74	77	83	86	85	88	84	84	87	84	83	73
TSS	83	86	90	92	91	94	92	92	93	92	91	87
South Plant-LA0036412												
BOD	73	69	69	72	72	80	78	78	76	78	77	76
TSS	83	83	85	87	88	92	91	91	88	90	88	90

V Outreach and Public Awareness Program

The Consent Decree Section XV Outreach and Public Awareness Plan states that the City/Parish shall 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 is currently being finalized. When it is re-submitted and approved by the City/Parish DPW it will then be submitted to the EPA and LDEQ for review and approval. Though the Updated Outreach and Public Awareness Program Plan is being finalized, associated public awareness efforts have been on-going. Once it is approved by the City/Parish it will be submitted to the EPA and LDEQ for review and approval.

During this reporting period, the City/Parish has continued its Outreach and Public Awareness Program as used in past reporting periods. Public information tools such as the website http://www.brprojects.com/sewer/pages/Sewer.htm 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 and brochures have also been developed that can be accessed via the website, and have been handed out during public meetings that describes pertinent information and aspects about the City/Parish SSO Control and Wastewater Facilities Program. Program staff regularly attends City Council meetings, and have given presentations at various other public meetings such as the growth coalition, 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. Finally, a public survey has also been developed and distributed to several public groups in the City/Parish during the past few months.

During this reporting period City/Parish continued its Sewer Tie-in Program, which enables the homeowner to abandon their old septic tank at a fixed price. The City/Parish, through negotiations with several plumbing contractors, developed an agreement between the homeowners and contractors to wave all City/Parish permit fees in order to keep the septic tank abandonment fees to a minimum. In order to assist low income homeowners, the City/Parish, with funding from of a Community Development Block Grant (CDBG), pays for the septic tank abandonment fees after the homeowner has met the program guidelines. 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.

VI Plan Modification Needs

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

The Remedial Measures Action Plan (RMAP) has been revised and submitted for approval by the DOJ, EPA, and LDEQ in September 2008. The Remedial Measures Action Plan was modified to provide for revisions to the RMAP2 projects in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). Due to changes in Program Manager, and budgetary constraints encountered in the selection of option 7, the City/Parish, with the help of CH2M HILL, has revised the RMAP2 to implement a much more aggressive and comprehensive sewer rehabilitation program to reduce inflow and infiltration.

VII 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, 2008 no submittal milestone deadlines have been missed. In addition, design and construction milestone

deadlines are currently pending EPA and LDEQ approval once the Agreement and Order in regards to the Modification of the Consent Decree is entered by the Court, and therefore are not subject to stipulated penalties.

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 non-compliance items and associated stipulated penalties reported in quarterly reports for the year 2008 are presented in Table 7.

TABLE 7
Summary of Stipulated Penalties for Submittal/Design and Construction Milestones

Stipulated Penalties		Deadline	Completion	Total Owed*	Total Paid*
Past Stipulated Penalties		15-Apr-02	12-Apr-02	$216,000	$216,000
Failure to Submit Timely Reports					
Quarterly Reports					
	27th	31-Jan-09	30-Jan-09		
	26th	31-Oct-08	17-Oct-08		
	25th	31-July-08	25-July-08		
	24th	30-Apr-08	20-Apr-08		
	23rd	31-Jan-08	23-Jan-08		
	22nd	31-Oct-07	23-Oct-07		
	21st	31-July-07	23-July-07		
	20th	30-Apr-07	25-Apr-07		
	19th	31-Jan-07	26-Jan-07		
	18th	31Oct-06	25-Oct-06		
	17th	31-July-06	28-July-06		
	16th	30-Apr-06	24-Apr-06		
	15th	31-Jan-06	23-Jan-06		
	14th	31-Oct-05	21-Oct-05		
	13th	31-July-05	15-July-05		
	12th	30-Apr-05	11-Apr-05		
	11th	31-Jan-05	24-Jan-05		
	10th	31-Oct-04	27-Oct-04		
	9th	31-July-04	26-July-04		
	8th	30-Apr-04	23-Apr-04		
	7th	31-Jan-04	30-Jan-04		
	6th	31-Oct-03	30-Oct-03		
	5th	31-July-03	17-July-03		
	4th	30-Apr-03	24-Apr-03		
	3rd	31-Jan-03	27-Jan-03		
	2nd	31-Oct-02	23-Oct-02		
	1st	31-July-02	23-July-02		
Annual Reports					
	2008	31-Jan-09	31-Jan-09		
	2007	31-Jan-08	31-Jan-08		
	2006	31-Jan-07	27-Jan-07		
	2005	31-Jan-06	24-Jan-06		
	2004	31-Jan-05	31-Jan-05		
	2003	31-Jan-04	30-Jan-04		
	2002	31-Jan-03	29-Jan-02		
Collection System PMP Plan		30-Mar-01	29-Mar-01		
Treatment Facility Assessment Report		30-Mar-02	26-Mar-02		
SEP Completion Report		15-Sep-04	10-Sep-04		
Failure to Submit Timely and Complete 2nd RMAP Report		1-Dec-02	20-Nov-02		
Failure to Meet RMAP and Construction Milestones					
Start of Construction		15-Jan-01	10-Jan-01		
1st RMAP Construction Complete		4-May-07	Schedule pending		

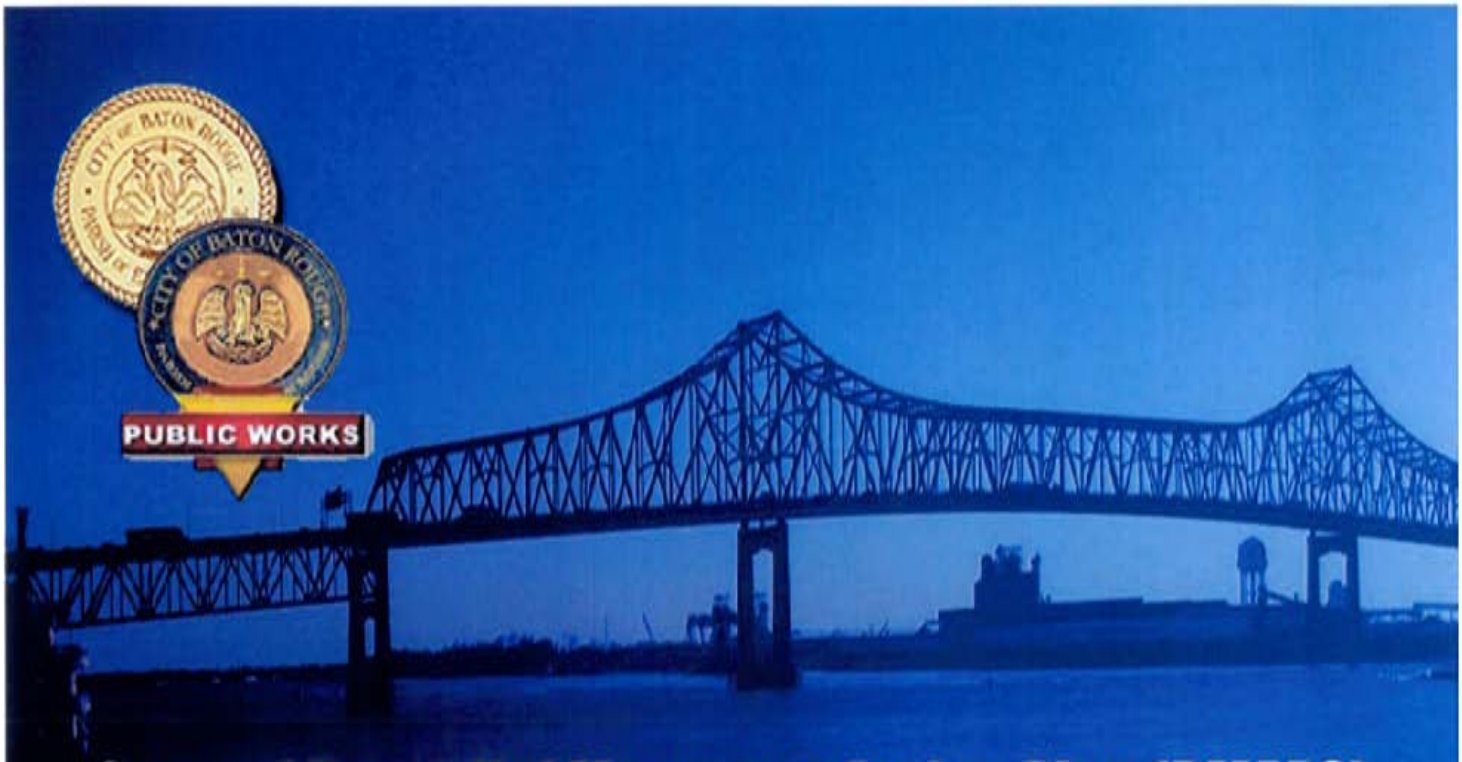
TABLE 7
Summary of Stipulated Penalties for Submittal/Design and Construction Milestones

Stipulated Penalties		Deadline	Completion	Total Owed*	Total Paid*
			approval		
1st & 2nd RMAP at 33%		1-July -07	Schedule pending approval		
1st & 2nd RMAP at 66%		1-July -11	Schedule pending approval		
2nd RMAP Design Completion		3-June-13	Schedule pending approval		
Completion of all Construction		1-Jan-15	Schedule pending approval		
Failure to Meet SEP Milestone Dates					
Donwood/Oak Manor Project	(start construction)	14-Mar-03	21-Feb-03		
	(end construction)	14-Mar-04	04-Sept-03		
Pleasant Hills/Green Acres Project	(start construction)	14-Jun-03	27-Jun-03		
	(end construction)	14-Jun-04	30-Jul-04		
Sharon Hills/Cedar Glen/Pleasant Hills Project	(start construction)	14-Mar-03	27-Jun-03		
	(end construction)	14-Aug-04	30-Jul-04		
Stumberg Lane Project	(start construction)	14-Mar-03	28-Mar-03		
	(end construction)	14-Mar-04	15-Sept-03		
			Total	**$216,000**	**$216,000**

EXHIBIT 7
Summary of Stipulated Penalties for Non-Compliance Items

Stipulated Penalties	# of Occurrences This Quarter	# of Occurrences Total	Per Occurrence	Total Amount
Failure to Seal/Eliminate New Cross Connections				
Unauthorized Discharges				
Less Than 1 million gallons and Non-Compliance			$5,000	
Less Than 1 million gallons and Non-Compliance (Post-remedial work)	N/A		$5,000	
Less Than 1 million gallons and Compliance (Post-remedial work)	N/A		$1,000	
1 million gallons or more (Pre- or post remedial work)	1		$5,000	$5,000
Non-compliant Discharges				
Daily Maximum Limits				
Weekly Average Limits	10		$1,000	$10,000
Monthly (30-day Average) Limits	25		$2,500	$62,500
			Total	$83,000

Attachment A
Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program (September 2008)



Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow (SSO) Control and Wastewater Facilities Program

Prepared for
City of Baton Rouge/East Baton Rouge Parish
Department of Public Works
September 2008

Prepared by
CH2MHILL
in association with Sigma Consulting Group, Inc.

Department of Public Works

City of Baton Rouge
Parish of East Baton Rouge

Post Office Box 1471
Baton Rouge, Louisiana
70821

September 1, 2008

CERTIFIED – RETURN RECEIPT REQUESTED

Mr. Michael T. Donnellan
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044-7611

Ms. Mona Tates (6EN-WM)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Mr. Ted R. Broyles II
Louisiana Department of Environmental Quality
602 N. Fifth Street
Baton Rouge, LA 70802

Re: City of Baton Rouge\East Baton Rouge Parish
Consent Decree-Civil Action No. 01-978-B-M3
Request for Modification to the Approved RMAP2 Submittal - Consent Decree
Section XII-Paragraph 33 and also Section XXXIV- Paragraph 118 and 119

Dear Sirs and Madame:

The City of Baton Rouge/East Baton Rouge Parish (City/Parish) hereby requests a non-material modification to the approved Second Remedial Measures Action Plan (RMAP2) titled *Sewer System Model Verification and Revised Second Remedial Action Plan* that was submitted by the City/Parish in November 2006, and formally approved by the U.S. Environmental Protection Agency (EPA) and Louisiana Department of Environmental Quality (LDEQ) in writing on July 10, 2007.

This non-material modification to the approved RMAP2 is in line with Consent Decree Section XII - Paragraph 33, which states the following:

> "33. At any time after the Second RMAP is approved by the EPA and/or LDEQ pursuant to Section XVII (Review of Submittals), the City/Parish may submit for review and approval pursuant to Section XVII (Review of Submittals) a proposal to modify the remedial measure selected in the Second RMAP. Any proposal to modify the Second RMAP shall be evaluated by the EPA and LDEQ for consistency with this Consent Decree, including Section V (Objectives), and industry standards current at the time the proposal is submitted."

In addition, this RMAP2 submittal also adheres to Section XXXIV Modification – Paragraph 118 and the second sentence of Paragraph 119 of the Consent Decree as follows:

> "118. Schedules for completion of the Work, except the deadline for completion of the Collection System Remedial Program set pursuant to Paragraph 34(D), may be modified by the agreement of EPA, LDEQ, and the City/Parish. All such modifications shall be made in writing."
>
> "119. Modifications to attachments or exhibits to this Consent Decree that do not materially alter that document may be made by written agreement between the United States, LDEQ, and the City/Parish."

This requested non-material modification to the already approved RMAP2 will not extend the final compliance date beyond the January 1, 2015 deadline noted in the Consent Decree and will not change the objectives of the Consent Decree as stated in Section V – Objectives, outlined below:

> "It is the express purpose of the Parties entering into this Consent Decree:
> - To require the City/Parish to achieve and maintain compliance with its NPDES permits and CWA;
> - To require the City/Parish to perform the Work required by this Consent Decree in compliance with the applicable schedules; and
> - To further the goals and objectives of the CWA, particularly Sections 101, 301 and 307, 33 U.S.C. §§ 1251, 1311, and 1317."

The intent is for this RMAP2 submittal to meet the reporting requirements set forth in Section XII – Paragraph 31, 32, and 34 of the Consent Decree.

This RMAP2 submittal includes the following:

- Cover Letter
  - Summary
  - Submittal History Overview
  - Personnel and Training
  - Funding
  - Discussion
- Revised Second Remedial Action Plan (RMAP2) Projects

Note that since no formal approval has been granted at this time from the EPA or LDEQ for the RMAP1 projects outstanding, that the City/Parish would also like at this time to request formal approval of the RMAP1 project milestones attached.

Summary

The City/Parish has made schedule and project scope adjustments to reflect new information resulting from more sophisticated modeling and engineering that occurred during the past year. This new information will allow us to more expeditiously construct the projects and continue to meet the objectives of Section V of the Consent Decree, mentioned earlier.

As a result of these planning and engineering efforts, modifications to the configuration of the conveyance system are included that are well within normal engineering adjustments.

These revisions will result in more efficient operation of the wastewater system in all weather conditions and will also better provide for future plant needs. The products of these efforts are depicted in the RMAP2 milestones identified by category in the attached document.

Additional wet weather storage at the South WWTP will allow phasing out of the Central WWTP. A meeting was held in Dallas, Texas on August 6, 2008 with representatives from the City/Parish, the Department of Justice (DOJ) (by teleconference), EPA, LDEQ (by teleconference), and CH2M HILL in order to propose the South WWTP and Central WWTP consolidation plan, which entails closing the Central WWTP and routing flows from the Central area basin to the South WWTP for treatment and storage. During which it was requested by LDEQ that CH2M HILL meet with them to discuss the plan in more detail, as well as to specifically address how the South WWTP performance will be affected as a result of the plan. As requested, a meeting was held with CH2M HILL and LDEQ, on August 28, 2008 to discuss the proposed South WWTP and Central WWTP consolidation plan. During the meeting LDEQ concurred with the proposed South WWTP and Central WWTP consolidation plan.

Submittal History Overview

A summary of regulatory submittals to date provided by the City/Parish to the EPA and LDEQ is presented in Table 1.

TABLE 1
EPA and LDEQ Submittal History

Name	Date Submitted	Additional Information
Sewer System Model Verification and Revised Second Remedial Action Plan	November 2006	Submittal of CDM's 2005 RMAP2 Report with changes in the South WWTP Projects
Addressing Existing Noncompliance Issues and Future Wet Weather Flow Management Requirements at the South WWTP	January 2007	Summary of findings/ recommendations for the South WWTP
EPA RMAP2 Approval Letter	July 2007	EPA Letter Approving November 2006 Submittal and South WWTP recommendations. Disapproved interim limits and left for further discussion the time extension request due to hurricanes
South WWTP Summary of Immediate Action Plan Projects	October 2007	Summary of IAP projects to date, per EPA phone request on October 12, 2008
EPA RMAP1 Project Status Report	December 2007	Summary of RMAP1 projects to date, including request for time extension
EPA Prioritization Submittal	April 2008	Summary of program/RMAP2 prioritization, maps, draft milestones, per EPA phone request on February 12, 2008
EPA Memorandum - Consolidation of South and Central Wastewater Treatment Plants in Baton Rouge, Louisiana	August 2008	City/Parish request "no objection" for the retirement of the Central WWTP
Request for Modification to the Approved RMAP2 Submittal	September 2008	City/Parish formal RMAP2 Submittal

Personnel/Training

As presented in the *Draft Wastewater Master Plan (May 2008)*, CH2M HILL evaluated system staffing requirements and determined that with the closure of the Central WWTP there is adequate staffing to maintain the system as planned. Under this proposed plan, the City/Parish's expanded wastewater system can be managed by a reassignment of existing staff from the Central WWTP once closed.

The City/Parish intends to provide training through the use of the Program Manager (CH2M HILL) through training manuals and other instruction as projects come online.

Funding

The City/Parish is currently able to fund the projects outlined in this RMAP submittal based on their funding model. All RMAP projects have been estimated using cost estimating tools developed by CH2M HILL. The estimates are presented in the supplemental documents mentioned throughout this submittal. The City/Parish Department of Public Works Financial Director incorporates the cost information into a funding model that is regularly updated as project scopes are modified as well as to consider inflation, and construction costs.

Discussion

As previously mentioned, the City/Parish hereby requests a non-material modification to the approved RMAP2 titled *Sewer System Model Verification and Revised Second Remedial Action Plan* that was submitted by the City/Parish in November 2006, and formally approved by the EPA and LDEQ in writing on July 10, 2007.

The City/Parish and CH2M HILL are actively moving forward with the execution of these RMAP2 projects included herein, anticipating the approval of this *RMAP2 Submittal September 2008* by the EPA and LDEQ. The City/Parish has advised the EPA and LDEQ that an expeditious review and approval of this submission is needed in order to maintain compliance schedules for dozens of projects that are dependent on each other in the critical path project schedule. Many of these RMAP2 projects are currently underway due to the tight schedule required by the Consent Decree. As presented in this submittal, the RMAP2 project milestone schedules presented in this communication 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.

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 alter the RMAP2 projects. However, with the EPA and LDEQ approval, the City/Parish plans to regularly document all RMAP2 project changes (scope changes, project additions, and project deletions) in the quarterly and annual reports to the EPA.

I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the 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,

Peter T. Newkirk
Director of Public Works

DOJ	1 copy
EPA	3 copies
LDEQ	3 copies

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
Mr. Walter Monsour, Chief Administrative Officer
Mr. Mike Futrell, Assistant Chief Administrative Officer
Mr. Michael Donnellan, Environmental Enforcement Section, U.S. DOJ
Ms. Mona Tates, USEPA Region 6 (6EN-WM)
Mr. Ted Broyles, LDEQ
Mr. Wade Shows, City of Baton Rouge/East Baton Rouge Parish Attorney
Mr. Bob Abbott, City of Baton Rouge/East Baton Rouge Parish Attorney's Office
Mr. Bryan Harmon, DPW
Mr. Mark LeBlanc, DPW
Mr. Richard Wright, DPW
Ms. Amy Schulze, DPW
Ms. Cheryl Berry, DPW
Mr. Greg Wiley, DPW
Mr. Jim Hawley, CH2M HILL
Mr. Michael Ellis, CH2M HILL
Mr. Gordon Garner, CH2M HILL
Ms. Karen Johnson, CH2M HILL

Consent Decree

Collection System Remedial Program

Revised Second Remedial Action Plan

(RMAP2) Projects

Revision September 1, 2008

This RMAP2 revision updates the approved submittal dated November 2006. The updates are based on results from continuing studies conducted by the City/Parish and the Program Manager, CH2M HILL. Following is the introductory paragraph from the 2006 submittal.

> *"These descriptions are to provide general information about the type of work to be completed for each project, as identified through hydraulic computer modeling. It is anticipated that, during engineering and design, the project details may change due to site constraints or optimization of the design, however, the overall program objectives will be met and the final consent decree deadline will be achieved. Particular basins are identified herein based upon best available flow monitoring and modeling information available at time of Revised RMAP2 development. As additional data become available and field conditions are confirmed, the specific basins for rehabilitation and pipe and pump size changes may be updated."*

The City/Parish submits this document as the most current description of projects required to meet the terms of the Consent Decree.

EPA Consent Decree RMAP Milestones

The tables presented in this submittal reflect the proposed milestone schedules for the Remedial Measures Action Plan (RMAP) projects, pursuant to Consent Decree Section XII Remedial Measures Collection System Remedial Program. The First Remedial Measures Action Plan (RMAP1) and Second Remedial Measures Action Plan (RMAP2) projects are included.

The Consent Decree states that construction completion of the RMAP1 projects shall occur by May 4, 2007. However, in the *EPA RMAP1 Status Report* submitted to the EPA/LDEQ in December 2007, the City/Parish requested a time extension for those projects that have not yet been completed due to change in planned engineering technical approach from tunnels to rehabilitation and the ramifications of Hurricane Katrina and Rita (refer to the *EPA RMAP1 Status Report* – CH2M HILL, December 2007 for more details). The EPA has verbally approved the request for time extension for the RMAP1 projects mentioned in the report during a conference call in March 2008. However, since no written approval has been granted by the EPA or LDEQ, the proposed RMAP1 milestone schedules and status summary are attached for formal written approval at this time.

Also, in accordance with the Consent Decree, there are four construction milestone dates for RMAP2 projects that are also depicted in schedule format: design completion and 33%, 66%, and 100% completion of all projects. To define the 33% and 66% milestones, specific projects must have been functionally completed with construction by some time period. These RMAP2 projects have been redefined through digital modeling, engineering, and planning efforts of the program and are described in more detail in the Program Delivery Plan (PDP) Update available in September 2008.

The milestone schedules for each individual RMAP1 and RMAP2 project are identified in the tables included in this submittal. Additionally, a milestone bar chart is also included for each classification type of RMAP2 project, specifically comprehensive sewer rehabilitation, pump station and transmission capacity improvements, and wastewater treatment and storage improvements.

TABLE 1

EPA Consent Decree Summary and Proposed RMAP1 Milestones

		RMAP1 Projects Completed	RMAP1 Projects Completed	Project Status Summary
Milestone Date		May 4, 2007	Proposed on September 1, 2008	
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)	✓		
	**PS 211 Area Upgrades (99-RMP-S11)	✓		

TABLE 1

EPA Consent Decree Summary and Proposed RMAP1 Milestones

		RMAP1 Projects Completed	RMAP1 Projects Completed	Project Status Summary
	Milestone Date	May 4, 2007	Proposed on September 1, 2008	
	Construction Status	Complete	Complete	
Consent Decree Projects	**Corresponding City/Parish Projects**			
RMAP1 Projects				
N-01 Choctaw Basin Return System	Choctaw Area Storage (04-RMP-N22)			Project suspended. Evaluating for inclusion in RMAP2 Plan. Project is included as RMAP2: Choctaw Storage.
N-13 North Choctaw Basin System	S-05 PS 58B Area Upgrades MWH RMAP2			Project suspended. Evaluating for inclusion in RMAP2 Plan. Project is included as RMAP2: Choctaw Storage PS.
N-04 PS 47 Area Upgrades	N-04 PS 47 Area Upgrades			Project suspended. Evaluating for inclusion in RMAP2 Plan. 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			Project suspended. Evaluating for inclusion in RMAP2 Plan. 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)		Date TBD	80% complete with construction. Project in dispute.
N-12 North Sewer Rehab Projects	North Sewer Rehab Projects (03-RMP-N12)		Completed 4th quarter 2007	Project completed.
S-08 Industriplex Area Upgrades	Industriplex Area PS 355 and FM Upgrades (99-RMP-S08)		2nd Quarter 2010	Design finalized. Advertising for bids in 1st quarter 2009.
S-14 Kleinpeter Area Upgrades	Kleinpeter Area Upgrades (03-RMP-S14)		2nd Quarter 2010	Design finalized. Advertised for bids in July 2008. Bid opening expected 3rd quarter 2008.
S-16 PS 136 Area Upgrades	PS 136 Area Upgrades (99-RMP-S16)		2nd Quarter 2010	Final design submitted to DPW for review. Advertise for bids expected in 4th quarter 2008.
*Notes: This project was executed as a combination of two RMAP1 projects				
**Notes: These projects were added as RMAP1 projects by the City/Parish after entry into the Consent Decree				
***Notes: This RMAP1 project was split up into multiple projects for better execution				

RMAP2 Project Descriptions and Schedule for Completion

The RMAP2 projects are separated into three categories with descriptions and schedules provided for all projects.

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. The areas requiring comprehensive rehabilitation are described herein in more detail than was available in the November 2006 RMAP2 submittal. Design and analysis of the first five sub-basins is currently in progress. Rehabilitation is the primary method of removing excessive Infiltration/Inflow from the collection system.

Table 2 presents the 26 category 1 comprehensive rehabilitation sub-basin projects and anticipated delivery milestone schedules. Status summaries are also provided for those projects already underway.

Note that 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

	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	✓			Construction contract awarded by DPW. Awaiting EPA grants approval. Construction expected to begin 4th quarter 2008.
Staring Lane - Boone Drive	✓			Contractor finalized and completed cleaning and physical inspection (CCTV, smoke testing, manhole inspection, etc.) of sewers. Contractor submitted physical inspection data. Field reconnaissance and basin observations are completed. Data analysis is ongoing.
Gardere Lane - Burbank Road	✓			Field inspection (CCTV, smoke testing, manhole inspection, etc.) completed/submitted by contractor. Field inspection data review and analysis is complete. Basin characterization report submitted. Design consultant selected. Design contract negotiated. Design notice to proceed was issued. Design ongoing.
Oak Villa Blvd - Choctaw Street	✓			Work order issued for cleaning and inspection (CCTV, smoke testing, manhole inspection, etc.) work. Contractor cleaning and inspection field work is ongoing. Basin observations and field reconnaissance is ongoing. Data analysis is expected next quarter.
Scotland Avenue - Progress Road	✓			Cleaning and inspection (CCTV, smoke testing, manhole inspection, etc.) is ongoing.
Elm Grove Garden Road - Harding Blvd	✓			
Sharp Road - Florida Blvd	✓			
Kenilworth Blvd - Boone Drive	✓			
Foster Drive - Government Street	✓			
Silverleaf Road - Ford Street	✓			
Brookstown Road - Evangeline Street	✓			
Bluebonnet Blvd - Jefferson Hwy		✓		
Highland Road - Washington Street	✓			
Stanford Avenue - Morning Glory Road	✓			
Airline Highway - Goodwood Blvd		✓		
Acadian Thruway - Claycut Road	✓			

TABLE 2
EPA Consent Decree RMAP2 Milestones for Category 1 Projects

	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				
Acadian Thruway - Perkins Road	✓			
Antioch Road - Chadsford Drive		✓		
Jones Creek Road - Tiger Bend Road		✓		
Scenic Highway - Spanish Town Road			✓	
Siegen Lane - Interstate 10		✓		
Interstate 110 - Hollywood Street		✓		
Ardenwood Drive - Winbourne Street			✓	
Flannery Road - Florida Blvd			✓	
East Boulevard - Government Street			✓	
North 38th Street - Gus Young Avenue			✓	

Category 2: Pump Station and Transmission Improvements

The Infoworks digital model was used to identify necessary increases in 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 project delivery milestone schedules. Project status summaries are provided for those projects already underway.

TABLE 3
EPA Consent Decree RMAP 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				
Capital Lake Drive - Gayosa Street	✓			Design consultant selected. Notice to Proceed for design issued to the consultant in July 2008. Preliminary design has begun.
Gurney Road - Joor Road	✓			90% design submitted and reviewed. Design is ongoing and is scheduled to be completed 3rd quarter 2008.
Multiple Pump Stations - Lovett Road Area	✓			90% design submitted and reviewed. Design is ongoing and is scheduled to be completed 3rd quarter 2008.
Comite Road - Foster Road	✓			Design is ongoing and is expected to be finalized 4th quarter 2008.
Foster Road - Hooper Road	✓			Design is ongoing and is expected to be finalized 4th quarter 2008.
Red Mud Lakes		✓		Design Consultant selected. Design Notice to Proceed is expected to be issued in 3rd quarter 2008.
South Boulevard - St. Joseph Street	✓			Design Consultant selected. Notice to Proceed for design is expected 3rd quarter 2008.
Downtown Area - PS59 Improvements	✓			Draft project definition completed. Design Consultant selection and Notice to Proceed for design expected 4th quarter 2008.
Downtown Area - PS15, PS19 & PS60 Improvements	✓			Draft project definition completed. Design Consultant selection and Notice to Proceed for design expected 4th quarter 2008.
Highland Road - Buchanan Street	✓			Design Consultant selected. Notice to Proceed for design expected 3rd quarter 2008.
Citiplace/Essen Area - PS119 & Forcemain Improvements	✓			Design Consultant selected. Design Consultant Notice to Proceed expected to be issued in 3rd quarter 2008. Design schedule to begin 3rd quarter 2008.
Group 1A - Veterans Memorial Parkway - Gravity Mains		✓		Design consultant selection expected 3rd quarter 2008.
Group 1B - Veterans Memorial Parkway - PS FM		✓		Design consultant selection anticipated 3rd quarter 2008.
Perkins/Old Perkins Area - Booster PS 514 Improvements		✓		Design consultant selection anticipated 3rd quarter 2008.
Group 2 - Small Pump Stations	✓			Draft project definition completed. Design consultant selection anticipated 3rd quarter 2008.

TABLE 3
EPA Consent Decree RMAP 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	✓			Design Consultant selected. Notice to Proceed for design expected in 3rd quarter 2008. Design scheduled to begin 3rd quarter 2008.
Nicholson Dr - Highland Rd - Perkins Rd		✓		
Perkins Road - Dahlia Street		✓		
25th Street - North Acadian Thruway	✓			
Government St - South Acadian Thruway		✓		
Plank Road - Kleinpeter Road		✓		
O'Neal Lane - Jones Creek Road		✓		
O'Neal Lane - Tiger Bend Road		✓		
Multiple PS - Nicholson Dr - Brightside Dr		✓		
PS 58A Overflow Pump Station		✓		
Staring Lane FM A - Burbank to Highland	✓			Design completed and is expected to advertise 4th quarter 2008.
Staring Lane FM B - Highland to Perkins	✓			Design ongoing.
Staring Lane FM C - Perkins to PS 58		✓		Survey completed.
Multiple PS - Jefferson Hwy - Park Forest Dr		✓		
Airline Highway - Jefferson Highway		✓		
Essen Lane - Interstate 12			✓	
Multiple PS - Highland Road - Kenilworth Parkway			✓	
Multiple PS - Florida Blvd - Sherwood Forest Blvd			✓	

TABLE 3
EPA Consent Decree RMAP 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 - Plank Road - Thomas Road			✓	
Multiple PS - Plank Road - Harding Boulevard			✓	
Multiple PS - Highway 61 - Plank Road			✓	
Multiple PS - Jones Creek Rd - Tiger Bend Rd			✓	
Airline Highway - Interstate 12			✓	
Florida Boulevard - Sherwood Forest Boulevard			✓	
Goodwood Boulevard - South Flannery Road			✓	
Joor Road - Greenwell Springs Road			✓	
Plank Road - Port Hudson Pride Road			✓	
Essen Lane - Highland Road			✓	
Oak Villa Boulevard - Monterey Boulevard			✓	
Lovett Road - Greenwell Springs Road			✓	
Highland Road - Lee Drive			✓	
Multiple PS - Hooper Rd - Greenwell Springs Rd			✓	
Multiple Booster PS - Hooper Rd - Lovett Rd			✓	
Multiple PS - Prescott Rd - Greenwell Springs Rd			✓	
Multiple PS - O'Neal Ln - S. Harrells Ferry Rd			✓	
Multiple PS - O'Neal Ln - S. Harrells Ferry Rd			✓	

TABLE 3

EPA Consent Decree RMAP 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/Florida Boulevard Area - PS30 Improvements & New PS			✓	
Multiple PS - Burbank Drive - Siegen Lane			✓	
New Central WWTP PS, PS 2, 3, 4, 5, 6, 7, & 10		✓		
New Central WWTP FM		✓		
FM from PS 2, 3, 7, 10, & 5		✓		

Category 3: Wastewater Treatment and Storage

This category of projects includes improvements at the City/Parish WWTP's, as well as storage facilities throughout the service area.

Presently, there are not any RMAP2 projects that have been identified at the North WWTP. Also, 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.

Wastewater Treatment Projects that are part of RMAP2 submittal are summarized below and their corresponding milestone schedules are shown in Table 4:

- Immediate Action Plan (IAP) South WWTP Project that includes screening, trickling filter recirculation pumping, primary treatment improvements, and bio-solids thickening improvements. Design is completed for this project and is currently in the construction bidding phase with bids opened on August 19, 2008 and currently under review.
- 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 sized to reduce peak flows to existing treatment plants that are also a part of this RMAP2 submittal, and are listed below and depicted as well in Table 4:

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

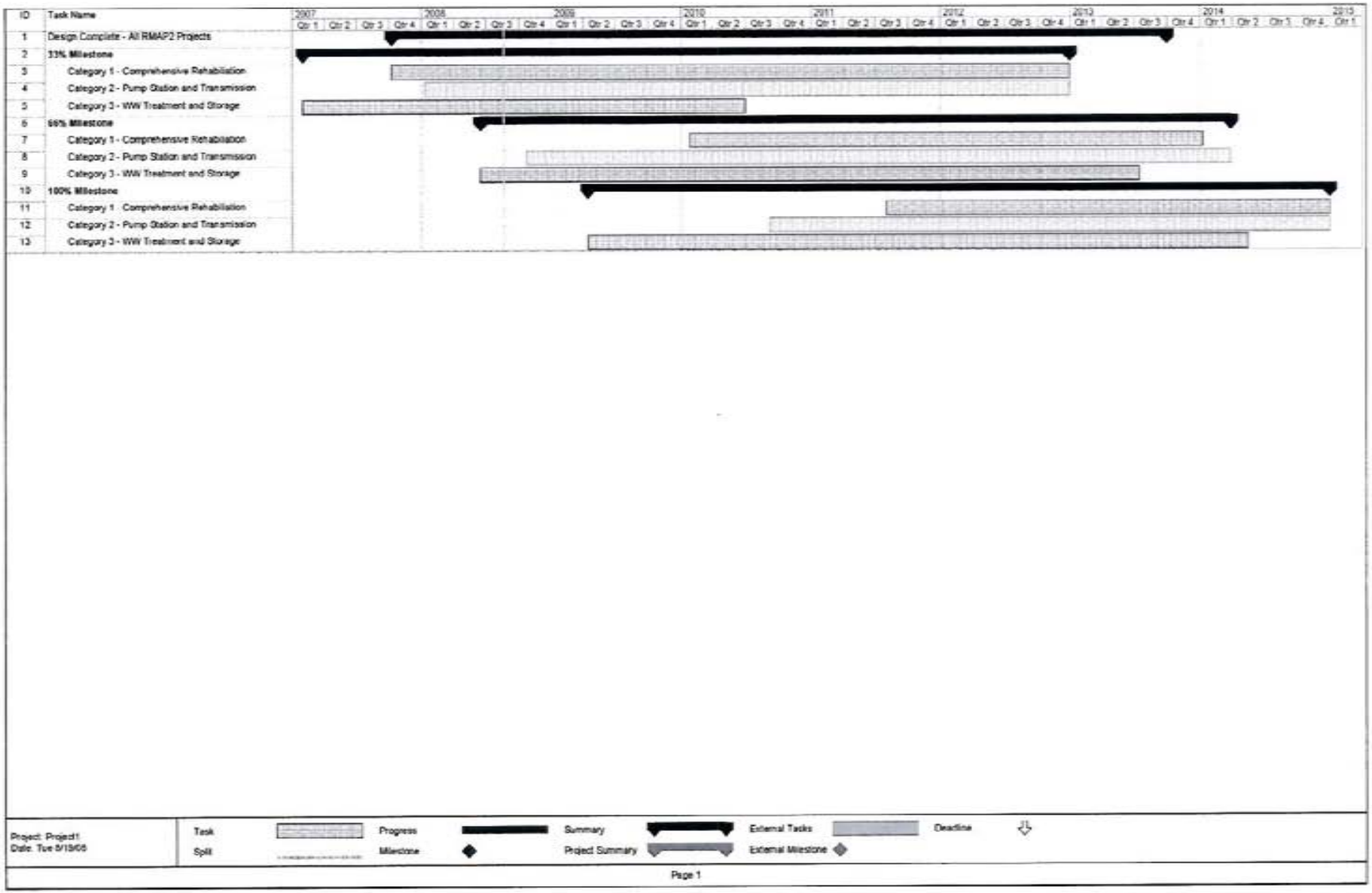
These storage projects are part of the transmission system which permits retainage of wet weather peak flows.

TABLE 4
EPA Consent Decree RMAP 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	✓			Ongoing project definition.
Hooper Storage	✓			
South WWTP IAP Consolidated – Screening, Primary Treatment, Trickling Filter Recirculation, Sludge Handling	✓			Bids opened August 19, 2008. Notice to Proceed expected to be delivered for construction in 3rd quarter 2008.
South WWTP IAP- Effluent Pumping Improvements	✓			Project completed.
South WWTP - Phase 1		✓		
South WWTP - Phase 2 - PDP			✓	

Project Delivery Schedule

The attached delivery schedule for all projects is divided into design, 33%, 66%, and 100% completion of the required work under the consent agreement. Progress with respect to the attached schedule will be reported quarterly and annually as required. Variance from the submitted individual project schedules is anticipated based on weather, business conditions, and variability of construction contract compliance. Completion of the entire program on the attached schedule is feasible and the City-Parish intends to pursue the work as planned.


ID
Task Name
2007
2008
2009
2010
2011
2012
2013
2014
2015
Qtr 1 Qtr 2 Qtr 3 Qtr 4
1 Design Complete - All RMAP2 Projects
2 33% Milestone
3 Category 1 - Comprehensive Rehabilitation
4 Category 2 - Pump Station and Transmission
5 Category 3 - WW Treatment and Storage
6 66% Milestone
7 Category 1 - Comprehensive Rehabilitation
8 Category 2 - Pump Station and Transmission
9 Category 3 - WW Treatment and Storage
10 100% Milestone
11 Category 1 - Comprehensive Rehabilitation
12 Category 2 - Pump Station and Transmission
13 Category 3 - WW Treatment and Storage
Project: Project1
Date: Tue 5/13/08
Task
Split
Progress
Milestone
Summary
Project Summary
External Tasks
External Milestone
Deadline
Page 1

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

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
	LOUISIANA
Parish:	EAST BATON ROUGE
(Person Completing Form) Name:	CHARLES M. O'BRIEN
Title:	WASTEWATER LABORATORY SUPERVISOR
Date Completed:	OCTOBER 24, 2008

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)
17.36	x	111	x 8.34 =	16,071
16.29	x	126	x 8.34 =	17,118
15.32	x	146	x 8.34 =	18,654
14.77	x	137	x 8.34 =	16,876
24.75	x	115	x 8.34 =	23,738
21.42	x	104	x 8.34 =	18,579
19.34	x	116	x 8.34 =	18,710
24.73	x	93	x 8.34 =	19,181
22.83	x	100	x 8.34 =	19,040
14.75	x	135	x 8.34 =	16,607
14.18	x	124	x 8.34 =	14,664
17.41	x	111	x 8.34 =	16,117

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

Permit #: LA0036439

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

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.

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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:*

FECAL COLIFORM	04/15-21/2008	1,276 col./100 ml

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:*

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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*
2008		1998		10

Enter Age in Part C below.

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

		FACTOR:
X	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	10	=	25 (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.

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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:

1 √ 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: 0

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: 17 Treatment Plant: 0

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: 55 (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 (225) 389-3240

Describe the procedure for gathering, compiling and reporting:

THE PROCEDURE FOR GATHERING, COMPILING AND REPORTING IS SPECIFIED IN THE PERMIT.

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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.

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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: 762

Design Flow: 0.07 MGD

Design BOD: 96 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.

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PART 7: OPERATOR CERTIFICATION AND EDUCATION

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

Name: DAVID WHITE

B. What is his or her certification number:

Cert.#: 19-269

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 TRAINING IN WASTEWATER TREATMENT EVERY 2 YEARS.

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.

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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 A ONE HALF PERCENT SALES & USE TAX, SEWER USER FEES, SEWER IMPACT FEES, AND A $4 MILLION SUBSIDY FROM THE GENERAL FUND SUPPORTED FROM GAMING REVENUES.

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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.

ROUTINE MAINTENANCE

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 exercise 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

LA0036439 NORTH PLANT

LA MWPP Environmental Audit

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 (9/07- 8/08)

Line Cleaned	5%
CCTV Inspected	1%
Smoke Tested	1%
Dye Tested	0%
Manhole Inspected	1%
Line Repaired	5%
Manhole Rehabilitated	1%
Force Main – Inspected	101%
Repaired	3%
Air Release Valves – Inspected	224%
Repaired	72%
Wet Wells Cleaned	99%
Pump Stations - Repaired	29%

A3. During the next 6 years, 24 projects in the North Treatment Plant Collection Area (related to the SSO Consent Decree Program) are scheduled to be implemented. The projects will include pump stations upgrades, force main improvements, gravity sewers, and wet weather treatment facilities. Additionally, annual contracts for sewer rehabilitation including lining, point repair, upsizing, and other rehabilitation methods will also be implemented. Plans are being developed for a comprehensive odor control program for the North Treatment Plant and Collection Area. However, a change in the Consent Decree has been submitted for review and approval, and any approved changes may affect the currently proposed projects. Attached is a more detailed description of the Proposed Capital Improvement Plan.

Proposed Capital Improvement Plan

The recommended program strategy is to conduct comprehensive rehabilitation of the sewer system in all areas where the rainfall dependent infiltration and inflow (RDII) rate currently exceeds 10 percent of the rainfall volume (i.e., the system R value exceeds 10 percent). This will result in significant reductions in wet-weather flows throughout the City/Parish system, thus improving system performance and controlling system overflows and house back-ups. In addition, the comprehensive rehabilitation program will provide substantial additional benefits in terms of reduced operation and maintenance costs as well as improved structural integrity.

The recommended improvements program includes three categories of improvements. The rehabilitation in each of the basins with R-values in excess of 10 percent is considered part of the Category 1 improvements.

Sewer and pump station improvement plans were devised to resolve all remaining conveyance deficiencies in each basin. The pump station and conveyance system improvements include capacity increases to the stations and piping. Capacity improvements are referred to Category 2.

No improvements are required at the North WWTP (other than odor control, mentioned above), however storage to accomplish peak shaving will be completed. Storage is necessary because of the planned increase in capacity of the pump stations and piping improvements. Three storage facilities will be constructed in various locations. Since these storage facilities are not near the North WWTP, and do not affect the operation of the plant (other than peak shaving), these projects have been combined into Category 2.

Category 1: Comprehensive Sewer Basin Rehabilitation Upgrades

Based upon sewer system model results and flow monitoring, numerous basins within the Baton Rouge system require comprehensive rehabilitation. The basins identified through the system model are scheduled for rehabilitation based upon the modeled R-values. The first group of basins scheduled for rehabilitation is those with the highest existing R-values.

There are 5 Category 1 projects planned in the North Treatment Plant Collection Area.

Category 2: Pump Station and Transmission/Conveyance System Improvements

The system model was used to identify pump stations and conveyance lines where capacity is not adequate for the peak wastewater flows. Category 2 provides for pump station and conveyance system upgrades in capacity. In the South CSD/STN area, capacity upgrades are required at 60 pump stations. The projects are generally discussed below.

NGS-C-0002 (Plank Road – Kleinpeter Road)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)
045-00026	045-00024	90	12	24
045-00024	045-00020	750	18	24
045-00020	045-00007	2600	18	27
045-00007	045-00001	1500	18	30
045-00001	PS 45	65	18	42
045-00043	045-00020	1200	8	12
PS38DS	127-00020	100	8	12
127-00020	127-00015A	970	8 & 12	15
127-00015A	PS 127	1500	12	21
044-00342	044-00274	557	8	12
044-00274	044-00325	1068	10	18
044-00325	044-00323	336	18	24
044-00323	044-00322	320	18	24
244-00029	244-00006	1261	10	12
244-00006	244-00004	264	10	15
PS 240	PS240DS	1200	8	10
PS 38	PS38DS	1700	6	8
PS 45	PS45DS	2500	20	30
PS 65	PS65DS	1100	12	16
PS244FM	PS244DS	5570	8	12
PS63FM	PS63DS	115	18	24

NGS-C-0003 (Multiple PS – Plank Road – Thomas Road)

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS 127	Gibbens Rd. near int of Gore Rd	1,805	903
PS 129	Near int of Wynell Drive and Lebrent Ave	417	278
PS 240	Near int of Comite Street and Plank Rd	972	1,319
PS 38	Desoto Drive. near Clifford Seymour Senior Park	1,389	486
PS 63	Near int of Groom Rd and Georgia Street	7,152	12,638
PS 64	Near int of Cypress Street and South Street	1,319	1,639

NGS-C-0004 Multiple Pump Stations – Plank Road – Harding Boulevard

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS 244	Near int of Captain Ryan Drive and General Chennault Drive	972	1,667
PS 44	Near int of Oriole Street and Thelma Street	11,180	8,888
PS 45	Near int of Granberry Street and Clark Street	9,652	15,485
PS 75	Near int of 72nd Ave and Yorkshire Street	278	278
PS 80	Near int of St. Peter Ave and Kleinpeter Road	417	764

NFE-C-0001 (Gurney Road – Joor Road) – Pump Stations

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
PS 176	Tallowwood Ave, between the intersection of Pheasantwood Drive and Patridgewood Drive	417	1,187	

NFE-C-0001 (Gurney Road – Joor Road) - Pipelines

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
PS 176	NS6172	1800	6	10	
NS6172	NS6158	75	8	10	
NS6158	NS6156	3400	10	12	
NS6156	NS6157	2500	10	14	
176-00001	PS176	100	8	15	Gravity segment
PS 284	NS6156	6700	6	8	

NFE-C-0002 (Multiple Pump Stations – Lovett Road Area) – Pump Stations

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
PS 230	Morgan Meadow Ave, near the intersection of Shoe Creek Drive	417	1,229	
PS 282	Regent Ave, near the intersection of Trendale Drive	127	924	
PS 187	Clear Oak Ave, near the intersection of Oak Meadow Drive	139	382	

NFE-C-0002 (Multiple Pump Stations – Lovett Road Area) - Pipelines

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
230-00009	PS230	2100	8	12	Gravity segment
PS230	PS230DS	1200	6	8	
PS187	NS6402	1100	4	6	
PS282	NS6305	1900	4	8	

NFE-C-0003 (Comite Road – Foster Road) – Pump Stations

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
PS 291	Misty Oaks Ave. near the intersection of Lazy Oak Drive	69	208	
PS 246	Holly Fern Ave, near the intersection of Green Gate Drive	69	278	
PS 94	Fieldcrest Dr. near the intersection of Meadow Ave	278	764	

NFE-C-0003 (Comite Road – Foster Road) - Pipelines

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
PS291	NS6193	3340	4	8	New routing of existing FM to PS 246
NS6193	NS6251	5600	4	10	
PS94	NS6193	3140	6	8	

NFE-C-0004 (Foster Road – Hooper Road)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
PS 255	NS6289	7600	6	8	
PS 196	NS6281	5200	4	6	
BPS 509	NS6247	6500	20	24	
BPS 511	NS6326	2700	24	36	
NS6326	NS6334	3000	30	36	
NS6306	NS6334	1200	12	14	

NFE-C-0005 (Multiple Pump Stations – Hooper Road – Greenwell Springs Road)

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS 313	Summer Place Ave off Foster Rd	69	111
PS 144	La Jolla Court off Carmel Drive	417	556
PS 86	Hooper Rd bw Lovett Rd and Allena Drive	347	486
PS 234	Dorset Ave off Farnham Ave	139	486
PS 218	Weyanoke Drive off Solitude Lane	208	431
PS 271	Central Place Drive off Central Woods Ave	278	486
PS 249	Durmast Drive off Way Rd	625	1,083
PS 164	Stoneridge Drive off Donnybrook Ave	278	694
PS 285	Bristle Cone Court off Evergreen Hills Ave	69	417
PS 196	Shady Bluff Drive off Hooper Rd	278	417
PS 231	Shoe Creek Drive off Morgan Creek Ave	278	1,528
PS 207	Red Maple Drive off West Post Oak Court	139	403

NFE-C-0006 (Lovett Road – Greenwell Springs Road)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)
155-00037	155-00031	706	8	10
155-00031	155-00013	1230	8	12
155-00013	PS155	419	10	15
195-00004	PS 195	939	8	12
200-00011	PS 200	369	8	12
231-00015	231-00013	503	8	12

NFE-C-0006 (Lovett Road – Greenwell Springs Road)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)
231-00013	PS 231	1039	8	15
PS181	NS6088	1838	6	10
PS155	NS6103	1894	8	10
PS106	NS6134	2455	6	10
NS6134	NS6128	3095	8	10
PS233	NS6165	2059	4	6
NS6165	NS6183	2988	18	24
NS6183	NS6189	1448	18	24
PS234	NS6150	3391	4	8
NS6150	NS6157	2317	10	16
NS6157	NS6189	3037	14	24
PS249	NS6239	9100	8	10
NS6268A	NS6393	4406	12	16
PS200	NS6404	4263	8	10
NS6404	NS6395	971	8	10
NS6395	NS6406	3598	10	12
NS6406	NS6419	5947	12	16
NS6419	NS6393	1752	14	18
NS6393	NS6391	378	18	30
PS285	PS164	1300	6	8
PS164	NS6406	3961	6	8
PS113	NS6419	3165	6	8
NS6419	NS6431	2682	12	14
PS160	NS6489	2514	6	10
NS6489	NS6472	2543	8	12
NS6472	NS6419	6106	10	14
PS207	NS6489	1591	4	6
PS152	NS6381	501	4	6
NS6381	NS6377	501	4	6
PS231	NS6328	1715	6	12
PS195	NS6575	7835	8	14
NS6575	NS6308	2917	8	14
PS69	NS6257	1509	6	8
PS510	NS6402	4280	10	30
NS6402	NS6351	4891	20	30
NS6351	NS6328	2200	20	24
NS6328	NS6308	2926	20	30
NS6308	NS6257	4337	24	30
NS6257	NS6252	595	24	30

NFE-C-0007 (Multiple BPS – Hooper Road – Lovett Road)

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
BPS 509	Hooper Rd bw Sullivan Rd and Lazy Lake Drive	4,861	7,638
BPS 511	Hooper Rd bw Hickcock Drive and Blackwater Rd.	8,888	20,346
BPS 510AA	End of Lovett Road off of Hooper Rd	3,541	7,986

NFW-C-0001 (Joor Road – Greenwell Springs Road)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)
PS 183	NS6512	160	14	16
NS6512	NS6485	1600	14	16
PS 119N	NS6509	2150	8	10
BPS503	NS6550	8500	14	24
NS6550	NS6500	2300	18	24
NS6500	NS6438	10200	14	24
PS288	NS6461	3400	4	6
NS6499	NS6500	1500	3	4
119N-00039	PS119N	985	8	10
183-00009	183-00001Z	2592	12, 15, & 16	21
128-00041A	128-00040A	355	10	12
128-00040A	128-00001Z	320	10	12
128-00001Z	PS128	83	10	12

NFW-C-0002 (Choctaw Storage, PS 52A, PS 51A, PS-51AA) – Pump Stations

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS51A	Sierra Vista Dr, north of the intersection with Cuyhanga Pkwy.	New	8,333
PS51AA	Near the intersection of Red Oak Drive and Sharp Lane	New	3,125

NFW-C-0002 (Choctaw Storage, PS 52A, PS 51A, PS-51AA) - Forcemains

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)
PS52A	Choctaw Storage	10100	New	36
PS51A	PS51WW1	130	New	21
PS51WW1	Choctaw Storage	10380	New	24
PS51AA	PS51WW1	2833	New	15

Group Project 1A (Veterans Memorial Parkway – Gravity Mains)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)
046-00060	046-00056	1139	52	48
046-00056	046-00053	411	36	48
046-00053	046-00050A	129	42	48
046-00050A	046-00045	1816	36	48
046-00045	046-00044 (New Veterans Memorial PS)	355	42	48
055-00105B	055-00105	763	8	12
055-00105	055-00034	700	10	12
039-00035	039-00008	847	10	15
039-00008	039-00007	299	10	18
039-00007	039-00006	268	10	18
039-00006	039-00003	1436	10	21
039-00003	PS39	599	12	21
PS35DS	052-00299	27	8	15
052-00299	052-00292	863	8	21
052-00292	052-00284	469	8	21
052-00284	052-00280	414	8	21
052-00280	052-00269	397	12	21
052-00269	052-00268	120	12	21
052-00268	052-00264	511	30	48
052-00264	052-00262	352	30	48
052-00262	052-00261	400	30	48
052-00261	052-00245	1496	30	48
052-00245	052-00240	1452	30	48
052-00240	052-00239	361	30	48
052-00239	052-00163	399	30	48
052-00163	052-00161	404	30	48
052-00161	052-00105	290	30	48
052-00105	052-00100	367	30	54
052-00100	052-00098	321	30	54
052-00098	052-00051	575	36	54
052-00051	052-00012	152	36	54
052-00012	052-00011	380	36	60
052-00011	052-00010	363	33	60
052-00010	052-00006	265	36	60
052-00006	052-00004	616	36	60
052-00004	052-00003	435	36	60
052-00003	052-00001	712	36	60
052-00001	PS52	69	48	66
052-00168	052-00161	1673	24	42
052-00019	052-00014	1462	12	18
052-00014	052-00012	754	15	18
052-00582	052-00581	286	12	18
052-00581	052-00580	310	12	18
052-00580	052-00576	772	12	18
052-00576	052-00562	603	12	18
052-00562	052-00784	487	15	24
052-00784	052-00556D	584	15	24
052-00556D	052-00553	807	18	36
052-00553	052-00552	293	18	36
052-00552	052-00540	1370	18	36
052-00540	052-00533	362	18	36
052-00533	052-00532	285	18	36
052-00532	052-00528	290	18	36

Group Project 1A (Veterans Memorial Parkway – Gravity Mains)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)
052-00528	052-00521	581	18	36
052-00521	052-00518	714	30	48
052-00518	052-00606	2243	30	48
052-00606	052-00604	752	30	48
052-00604	052-00603	363	27	48
052-00603	052-00144	357	30	48
052-00144	052-00143	306	30	48
052-00143	052-00152A	441	30	48
052-00152A	052-00152	118	30	48
052-00152	052-00115	959	30	48
052-00115	052-00113	700	30	48
052-00113	052-00107	311	30	48
052-00107	052-00106	261	30	48
052-00106	052-00400	98	36	48
052-00881	052-00880	285	8	12
052-00880	052-00792	298	8	21
052-00792	052-00451	438	8	21
052-00451	052-00768	455	8	21
052-00768	052-00765	371	12	21
052-00765	052-00764	166	12	21
052-00764	052-00758	375	12	21
052-00758	052-00757	18	15	21
052-00757	052-00756	256	15	21
052-00756	052-00556L	758	15	21
052-00556L	052-00556J	94	15	21
052-00556J	052-00556D	1532	15	21
052-00700	052-00710	1277	18	27
052-00710	052-00716	289	18	27
052-00716	052-00745	816	18	27
052-00745	052-00755	235	18	30
052-00755	052-00521	499	18	42
052-00329	052-00268	3170	24	36
052-00214	052-00209	1173	12	15
052-00209	052-00205	586	12	18
052-00205	052-00204	301	15	18
047-00014	047-00012	146	24	36
047-00012	047-00011	243	24	36
047-00011	047-00008	273	24	36
047-00008	047-00005	896	24	36
047-00005	047-00004	352	24	36
047-00004	047-00003	154	24	42
047-00003	PS47	209	24	42
047-00263	047-00043	507	8	15
047-00428	047-00418	221	10	21
047-00418	047-00417	313	12	21
047-00417	047-00029	1602	12	18
PS92DS	047-00556	129	8	12
047-00556	047-00557	135	8	15
047-00557	047-00474	1957	8	18
047-00474	047-00472	150	8	18
047-00472	047-00469	137	12	18
047-00469	047-00465	693	12	21
047-00465	047-00460	854	12	21
054-00027	054-00026	246	8	18
054-00026	054-00009	966	15	21

Group Project 1A (Veterans Memorial Parkway – Gravity Mains)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)
054-00009	054-00008	233	15	24
054-00008	054-00006	530	15	24
054-00006	054-00001A	177	15	24
024-00186	024-00182	1373	10	21
024-00182	024-00110	323	15	21
024-00110	024-00101	301	15	21
024-00101	024-00088	332	18	21
024-00088	024-00067	349	18	24
024-00067	024-00064	365	18	27
024-00064	024-00030	338	21	27
024-00030	024-00011	347	21	27
024-00192	024-00182	673	8	21
024-00528	024-00513	1027	10	21
024-00513	024-00514	419	10	21
024-00514	024-00502	313	15	21
024-00502	024-00496	310	18	21
043-00095	043-00093	357	15	24
043-00093	043-00085	1198	15	24
043-00085	043-00076	1311	15	24
043-00076	043-00075	339	15	24
043-00075	043-00073	315	15	24
PS23DS	043-00135	451	12	15
043-00135	043-00141	257	12	15
043-00141	043-00132	265	12	15
043-00132	043-00190	912	12	15

Group Project 1B (Veterans Memorial Highway – Pump Stations)

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
Veterans Memorial PS	Existing MH 046-00044, located at Progress Road, near Baton Rouge Metropolitan Airport	New	17,985	Eliminates need for deep gravity sewer upstream of PS 46
PS47	Vineyard Drive bw Grand Drive and W Rio Drive	7,152	8,958	
PS92	Glen Oaks Drive bw Landis Drive and Pontotoc Street	486	486	
PS35	Maplewood Drive bw East Fairlane Court and Flag Street	694	1,687	
PS39	Lanier Drive bw Hanks Drive and Prescott Drive	625	2,083	
PS55	Lanier Drive bw Oak View Drive and Prescott Drive	1,805	2,222	
PS54	Greenwell Street bw North Foster Drive and Beechwood Drive	1,042	3,715	
PS23	Canonicus Street bw Calumet Street and Navajo Street	1,528	1,569	

Group Project 1B (Veterans Memorial Parkway – Forcemains)

US	DS	Length (ft)	Existing (in)	Proposed (in)
VET PSFM	North WWTP	13300	New	30
PS277FM	NS6438	3124	6	8
PS55	PS55DS	1100	8	10
PS275FM	NS6140AA (new node)	3400	8	12
PS54FM	PS54DS	60	8	15

NFW-C-0007 (Plank Road – Port Hudson Pride Road)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)
BPS 513	NS6087	2500	18	20
PS 371	NS6049	1600	4	6
PS OXLF	NS6037	1500	6	10
PS123	NS6033	3000	6	8
PS124	NS6011	30	6	8
NS6011	NS6022	15000	10	12
NS6022	NS6025	5800	10	14
PS320FM	NS6035	3000	6	8
PS35FM	PS35DS	240	6	8
PS39FM	PS39DS	35	8	10
PS47FM	PS47DS	75	16	21
NS6140AA	NS6204	6050	14	16
PS243FM	NS6140	3340	8	12

NFW-C-0009 (Multiple Pump Stations – Highway 61 – Plank Road)

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS 243	Northgate Drive	625	1,139
PS 275	Int of Old Rafe Meyer Road and Glynn Road	694	1,604
PS 105	Jupiter Drive off Roman Drive	833	167-306
BPS 513	Bentley Drive off Plank Road	7,430	3,125
PS OXLF	Int of Little Farms Drive and Jersey Drive	Not Available	1,319
PS 123	Arleen Ave	139	347
PS 124	Int of Hudson Pride Road and Hagen Drive	208	833-903
PS 429	Hooper Ridge Blvd	Not Available	14
PS 897	Hooper Road bw McClelland Drive and Mickens Rd	15,416	15,971
PS 43	Int of Ralph Street and Shada Ave	7,083	9,215

NFW-C-0010 (Multiple Pump Stations – Prescott Road – Greenwell Springs Road)

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS 24	Sherwood Street bw Wildwood Parkway and Lemonwood Drive	4,028	3,819
PS 24A	Sherwood Street bw Wildwood Parkway and Lemonwood Drive	5,902	3,264
PS 503	Greenwell Springs Road bw int Aletha Drive and Pasadena Drive	2,847	4,083
PS 119N	Sarasota Drive bw Biscayne Drive and Flamingo Drive	417	847
PS 277	End of Wright Drive	208	660
PS 183	Canterbury Drive bw int of Greenforest Drive and Monticello Blvd	1,528	2,194

NFW-C-HWY61 (Red Mud Lakes) – Pump Stations

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
Old Baker Road PS	West of intersection of Plank Road with Entergy Right-of-Way	New	10,188
Hwy 964 PS	Intersection of Highway 964 and Entergy Right-of-Way	New	27,257
Red Mud Lakes PS	Red Mud Lakes Equalization Facility, near East Baton Rouge Parish Landfill	New	13,899

NFW-C-HWY61 (Red Mud Lakes) - Forcemains

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)
Old Baker PS	Hwy 964 PS	10500	New	24
Northern Parish Boundary	Hwy 964 PS	3100	New	16
		8852	New	20
		2000	New	24
		11633	New	30
Hwy 964 PS	Red Mud Lakes EQ Facility	33901	New	48
Red Mud Lakes EQ Facility	North WWTP	32750	New	30

Included in the tables above are three projects relating to storage. Below is a brief explanation of each.

NFW-C-0002 (Choctaw Storage, PS 52A, PS 51A, PS 51AA, & FMs)

The NFW-C-0002 (Choctaw Storage, PS 52A, PS 51A, PS 51AA, and FMs) project involves the design and construction of a 25-MG storage facility (Choctaw Storage Facility) in west-central Baton Rouge Parish. The purpose of this facility is to detain peak wet weather flows during a storm event, and release them back into the collection system when demand is lower.

Construction of the storage facility will eliminate approximately 6.5 miles of pipe replacement, reduce the overall pipe diameter for the remaining sewer projects, and eliminate the need to increase the capacity of the North WWTP.

NFW-C-0004 (Hooper Storage)

The NFW-C-0004 (Hooper Storage) project involves the design and construction of a 10-MG storage facility (Hooper Storage Facility) in northwest Baton Rouge Parish. The purpose of this facility is to detain peak wet weather flows during a storm event, and release them back into the collection system when demand is lower.

Construction of the storage facility will eliminate the need for approximately 13,200 feet of pipe replacement, reduce the overall pipe diameter for the remaining sewer projects, and eliminate the need to increase the capacity of the North WWTP.

NFW-HWY61 (Red Mud Lakes)

The purpose of the NFW-C-HWY61 project is to address inadequate capacity in the Baker/Zachary contributing area and to divert flow from the Baker/Zachary contributing area around the Comite Diversion Canal to the North WWTP. This project also includes conversion of the Red Mud Lakes facility into a permanent storage facility, which will reduce the peak flows to the North WWTP from the Baker/Zachary area. The 20 million gallon (MG) equalization facility will be built inside the existing Red Mud Lakes facility that the C-P purchased from Kaiser Aluminum in 2004. The equalization basin will be utilized for storage during wet weather when flows in the forcemain exceed 20 MGD. The purpose of this facility is to detain peak wet weather flows during a storm event, and release them back into the collection system when demand is lower. The combination of this project and the other two storage basins will eliminate the need for increasing the capacity of the North WWTP.

Permit #: LA0036439

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?

FORCE MAIN INFLUENT METER REPLACED ON 11-27-07 AND 01-23-08

FINAL EFFLUENT METER REPLACED ON 10-04-07

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

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

Influent flow meter calibration date(s):

Gravity Influent
11-27-07
06-04-08

Force Main Influent
11-27-07
01-23-08
01-26-08
03-12-08
03-13-08

Effluent flow meter calibration date(s):

09-05-07
10-04-07
04-07-08

Permit #: LA0036439

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-annual preventive maintenance sheets that reflect type and frequency as specified in the O&M manuals. A new computer program will manage the maintenance and 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 City-Parish and self monitoring sampling. The same apply to the Pretreatment Ordinance. Enforce mechanisms include discharge permits, surcharges, letter and notice of violations, administrative orders, water termination and fines.

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

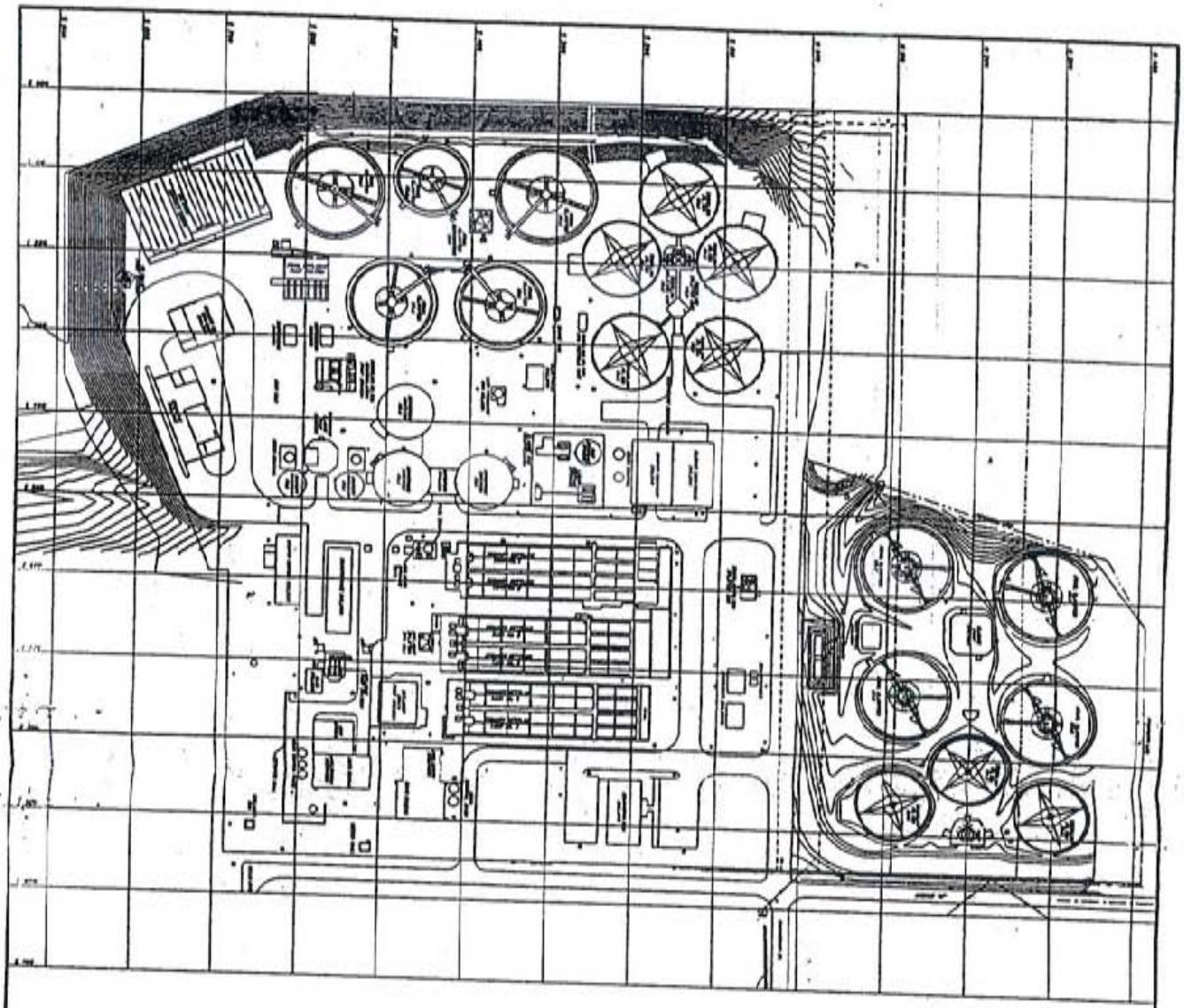
NO

Permit #: LA0036439

POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: *Influent Flow/Loadings*	0	80 points
Part 2: *Effluent Quality / Plant Performance*	0	100 points
Part 3: *Age of WWTF*	25	50 points
Part 4: *Overflows and Bypasses*	55	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: 90



PHASE-IIB

NWWTP - EXISTING SITE PLAN

CITY OF BATON ROUGE / PARISH OF EAST BATON ROUGE

CAMP DRESSER & McKEE INC. CDM

RUBB ENGINEERING

PROFESSIONAL ENGINEERING CONSULTANTS

CN-1

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 METROPOLITAN COUNCIL (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 CITY/PARISH METROPOLITAN COUNCIL on 10th December (date).

CLERK

ADOPTED
METROPOLITAN COUNCIL

DEC 10 2008

363

RESOLUTION 46686

COUNCIL ADMINISTRATOR TREASURER

REQUESTING APPROVAL FOR SUBMITTAL OF THE LOUISIANA MUNICIPAL WATER POLLUTION PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE NORTH TREATMENT PLANT (LA 00036439 AI# 4843) TO THE DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) FOR THE MONITORING PERIOD OF SEPTEMBER 1, 2007 THROUGH AUGUST 31, 2008.

BE IT RESOLVED by the Metropolitan Council of the Parish of East Baton Rouge and City of Baton Rouge that the submittal of the Louisiana Municipal Water Pollution Prevention (MWPP) Environmental Audit Report for the Central Wastewater Treatment (LA 00036439 AI# 4843) to the Department of Environmental Quality (DEQ) for the monitoring period of September 1, 2007 through August 31, 2008, is hereby approved.

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
	LOUISIANA
Parish:	EAST BATON ROUGE
(Person Completing Form) Name:	CHARLES M. O'BRIEN
Title:	WASTEWATER LABORATORY SUPERVISOR
Date Completed:	AUGUST 24, 2008

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)
36.47	x	129	x 8.34 =	39,237
33.48	x	134	x 8.34 =	37,416
25.92	x	152	x 8.34 =	32,858
29.93	x	162	x 8.34 =	40,438
36.27	x	132	x 8.34 =	39,929
32.13	x	137	x 8.34 =	36,711
31.25	x	139	x 8.34 =	36,227
31.81	x	151	x 8.34 =	40,060
35.39	x	135	x 8.34 =	39,846
29.50	x	161	x 8.34 =	39,611
30.46	x	138	x 8.34 =	35,057
37.37	x	135	x 8.34 =	42,075

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	25	22
OCTOBER	27	21
NOVEMBER	32	23
DECEMBER	36	26
JANUARY	35	27
FEBRUARY	43	30
MARCH	43	27
APRIL	43	26
MAY	38	24
JUNE	33	18
JULY	31	15
AUGUST	29	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 [10] 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: [50] (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. ☐ 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 #: 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*
2008		1998		10

Enter Age in Part C below.

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

		FACTOR:
X	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	10	=	25 (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.

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:

0 √ Check one box.

- [X] 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: 0 Treatment Plant: 0

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:

52 √ Check one box.

- [ ] 0 = 0 points
- [ ] 1 = 5 points
- [ ] 2 = 10 points
- [ ] 3 = 15 points
- [ ] 4 = 30 points
- [X] 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: 47 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: 50 (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 (225) 389-3240

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: 1,506

Design Flow: 0.15 MGD

Design BOD: 190 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: REQUIREMENTS: FOR EACH TWO YEAR PERIOD, MUST COMPLETE 16 HOURS OF WASTEWATER TRAINING.

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. ☐ 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 A ONE HALF PERCENT SALES & USE TAX, SEWER USER FEES, SEWER IMPACT FEES, AND A $4 MILLION SUBSIDY FROM THE GENERAL FUND SUPPORTED FROM 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.

ROUTINE MAINTENANCE

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 exercise 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 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 (9/07 – 8/08)

Line Cleaning	16%
CCTV Inspections	14%
Smoke Testing	1%
Dye Testing	0%
Manhole Inspection	34%
Line Repaired	4%
Manhole Rehabilitation	2%
Force Main-Inspections	45%
Repaired	14%
Air Release Valves-Inspections	154%
Repaired	87%
Wet Well Cleaned	72%
Pump Stations-Repaired	16%

A3. During the next 5 years approximately 50 projects in the South Treatment Plant Collection Area (related to the SSO Consent Decree Program) are scheduled to be implemented, either design or begin construction. The projects will include pump station upgrades, force main improvements, gravity sewers, storage and upgrade and/or expansion of treatment facilities. This list was revised in October 2008 by our SSO Program Manger, CH2M Hill. Additionally, annual contracts for sewer rehabilitation including lining, point repair, upsizing, and other rehabilitation methods will also be implemented. Included is a listing of the currently proposed Capital Improvement Plan.

Proposed Capital Improvement Plan

The recommended program strategy is to conduct comprehensive rehabilitation of the sewer system in all areas where the rainfall dependent infiltration and inflow (RDII) rate currently exceeds 10 percent of the rainfall volume (i.e., the system R value exceeds 10 percent). This will result in significant reductions in wet-weather flows throughout the City/Parish system, thus improving system performance and controlling system overflows and house back-ups. In addition, the comprehensive rehabilitation program will provide substantial additional benefits in terms of reduced operation and maintenance costs as well as improved structural integrity.

The recommended improvements program includes three categories of improvements. The rehabilitation in each of the basins with R-values in excess of 10 percent is considered part of the Category 1 improvements.

Sewer and pump station improvement plans were devised to resolve all remaining conveyance deficiencies in each basin. The pump station and conveyance system improvements include capacity increases to the stations and piping. Capacity improvements are referred to Category 2.

Design and construction of the WWTP improvements projects will occur early in the program to store and treat wet weather flows. The wastewater treatment improvement & storage projects are referred to Category 3. Treatment projects at the South WWTP include the following:

1. Immediate Action Plan Projects (IAP's) for dry weather permit compliance
2. Consolidation with the Central WWTP
3. Wet weather flow capacity increases to 200 million gallons per day (MGD)
4. Storage projects

Category 1: Comprehensive Sewer Basin Rehabilitation Upgrades

Based upon sewer system model results and flow monitoring, numerous basins within the Baton Rouge system require comprehensive rehabilitation. The basins identified through the system model are scheduled for rehabilitation based upon the modeled R-values. The first group of basins scheduled for rehabilitation is those with the highest existing R-values.

There are 14 Category 1 projects planned in the South Treatment Plant Collection Area.

Category 2: Pump Station and Transmission/Conveyance System Improvements

The system model was used to identify pump stations and conveyance lines where capacity is not adequate for the peak wastewater flows. Category 2 provides for pump station and conveyance system upgrades in capacity. In the South CSD/STN area, capacity upgrades are required at 69 pump stations. The projects are generally discussed below.

SGU-C-0001 (Multiple Pump Stations – Florida Blvd. – Sherwood Forest Blvd.)

Pump Station No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS13	Intersection of Elizabeth Drive and River Oaks Drive	1,042	1,389
PS16	Intersection of Great Smokey Ave. and JoAnne Drive	972	1,319
PS18	Intersection of Moterrey Ave. and Swingalong Ave.	625	833
PS21	Near Florida Blvd. at the Intersection of Shelby Drive	1,389	2,257
PS31	Goodwood Blvd., near Havenwood Blvd.	2,083	7,500
PS50	Intersection of Major Oaks Rd and Sherwood Forest Blvd.	7,291	22,568
PS66	Comal Drive, near intersection of Erlanger Drive	833	3,055

SGU-C-0002 (Airline Highway – Interstate 12)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
066-00006	066-00001A	1610	8	15	Interstate 12 crossing
066-00147	066-00088	3434	10 & 12	18	Interstate 12 crossing
066-00088	PS66	1729	12	21	
058-00011E	058-02653	1406	12 and 15	24	
058-00016E	058-00011E	737	12	21	
058-01868	058-01862	839	8	12	
058-02851	058-02833	1138	8	15	
058-02833	058-02677	3873	15	21	
058-02478	058-02475	825	8	12	
058-02571	058-01395	3523	8	15	
058-01850	058-01850A	78	15	18	
058-01851A	058-01850	795	15	18	
058-01859	058-01851A	2229	15	18	
PS 66		1,280	8	12	Forcemain Replacement
NEW FM (PS 50)		16,810	New	42	New forcemain, Need to coordinate with SGC-C-0003 (Essen Lane – Interstate 12)

SGU-C-0003 (Florida Blvd. – Sherwood Forest Blvd.)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
050-00619	050-00682	1,000	15	24	
050-00480	050-00924	2,000	8 and 12	15	
050-00203	050-00837	1,800	18	42	
050-00392	050-00280	2,400	12	21	
050-00280	050-00272	1,200	15 or 18	24	
013-00002	013-00001	150	8	12	
013-00049	PS13	800	8 and 10	15	PS Replacement under SGU-C-0001 (Multiple PS – Florida Blvd. – Sherwood Forest Blvd.)

SGU-C-0004 (Goodwood Blvd. – South Flannery Road)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
021-00009	PS21	2,100	12 and 15	18	Crosses Florida Boulevard; PS will be upgraded in SGU-C-0001 (Multiple PS – Florida Blvd. – Sherwood Forest Blvd.)
101-00024	PS101	2,000	8	10	
031-00035	031-00030	1,100	8	15	
031-00030	PS 31	2,600	8 to 12	21	PS upgraded in SGU-C-0001 (Multiple PS – Florida Blvd. – Sherwood Forest Blvd.)
031-00378	031-00006	80	8	12	Crosses drainage canal
031-00442	031-00435	670	8	10	
031-00435	031-00237	930	8 and 12	12	
031-00237	031-00132	260	10	15	
031-00132	031-00112	550	10 to 12	18	
031-00112	PS31	3,400	21	42	
031-00270	031-00112	2,600	18	24	
031-00299	031-00289	317	15	18	
031-00330	031-00299	674	15	18	
031-00330A	031-00330	341	15	18	
PS21FM	031-00330A	313	8	10	

SGU-C-0005 (Oak Villa Blvd. – Monterey Blvd.)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
051-00222	051-00196	1,400	12	18	
016-00002	PS16	380	10	18	Influenced by the SGU-C-0001 project in which PS 16 will be upgraded
051-00467	051-00196	1,500	12	18	
051-00196	051-00169	260	15	21	
051-00169	051-00168	680	15	24	
051-00168	051-00070	3,300	15	30	
051-00070	PS51	1,500	18	42	Crosses Choctaw Dr. and the railway just north of Choctaw Dr. This segment will need to be coordinated with the PS51 upgrade as part of the SGU-C-0001 Project
DS16	051-00169	3,200	10	18	
051-00364B	051-00070	3,300	15	24	
051-00369	051-00364B	1,600	15	21	
050-00837	050-00300A	2,600	24	42	
PS16	DS16	950	6	8	Forcemain

SGC-C-0001 (Airline Highway/Florida Boulevard - PS30 Improvements & New Pump Station)

PS No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
PS 30	Tom Drive, near intersection of Dallas Drive	624	1,111	
New PS (PS 5xx)	North of Tara Blvd. and Old Hammond Highway	New	19,554	Located at MH 058-01106

SGC-C-0002 (Airline Highway - Jefferson Highway)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
058-00034	058-00015	6,300	18	24	Segment crosses Interstate 12
058-00586	058-00523	1,900	12	18	
058-00523	058-00501	640	12 and 15	21	
058-00501	058-00479	2,700	15	27	
PS250DS	058-00479	1,100	8 and 15	18	
058-00479	058-00490	1,900	15 and 18	36	
58-00490	058-00017	8,200	18 and 24	42	Segment has a canal crossing near Drusilla Drive
58-01316	058-01310	881	10	15	
058-01318	058-01316	349	10	15	
058-03110	058-03116	722	12	15	
058-03116	058-03117	121	12	15	
058-03117	058-03118	419	12	15	
058-03118	058-03124	74	12	15	
058-04039	058-04041A	546	12	15	
250-00026	PS250	884	10	12	

SGC-C-0003 (Essen Lane – Interstate 12)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
058-01310	058-00935	2,000	10	18	
058-01830	058-01826	530	10 and 15	21	
058-01335	058-00890	460	8 and 10	15	
058-00890	058-01132	450	12	18	Includes a drainage cancel crossing
058-05074	058-05006	370	8	15	
058-05006	058-00349	270	12	18	
058-00369	058-00004B	2,900	18	24	Portion of these gravity segments go through a golf course.
058-01171	058-01159	1,800	8	12	
058-00497	058-00499	520	8	12	
058-00481	058-00483	290	8	12	
058-00172	058-00173	330	8	10	
058-00173	058-00940A	130	8	12	Includes a crossing under Florida Boulevard
New PS (described in SGC-C-0001 (Airline Highway/Florida Blvd. – PS 30 Improvements & New PS)	Manifold Pt w/ new FM from PS 50	6,500	New	30	forcemain
Manifold Pt w/ new FM from PS 50	PS58	5,600	New	48	forcemain; Crosses both Interstate 12 and Interstate 10

SGC-C-PS58A (Staring Lane - Overflow Pump Station)

PS No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS58A	Intersection of Essen Lane and Essen Park	New	61,107

SGC-C-PS58FM-A (Staring Lane FM-A - Highland to Burbank)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
Highland Road	South WWTP	2960	New	64	Coordinated under GLP

SGC-C-PS58FM-B (Staring Lane FM-B - Perkins to Highland)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
Boone	Highland	3320	New	64	Coordinated under GLP
Perkins	Boone	7180	New	60	Coordinated under GLP

SGC-C-PS58FM-C (Staring Lane FM-C – PS 58 to Perkins)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
PS58	Perkins	4240	New	60	

SGC-C-PS119 (Citiplace/Essen Area PS 119 Forcemain Improvements) – Pump Station Scope

PS No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS 119	Citiplace Drive near the movie theater	2,430	1561

SGC-C-PS119 (Citiplace/Essen Area PS 119 Forcemain Improvements) – Forcemain Scope

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
PS119	PS58	10,500	New	12	New forcemain segment

SGL-C-0002 (Multiple PS at Highland Road and Kenilworth Parkway)

PS No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS 120	Helvetia Drive, near int of Bancroft Way	417	507
PS 329	Kenilworth Parkway, near int of Burbank Drive	903	1,180
PS 40	Southlawn Drive, near int of Arcadia Drive	833	799
PS 53A	Boone Ave, near int of Chippenham Drive	6,041	11,458
PS 56	Chandler Drive, near int of Highland Park Drive	1,250	6,423
PS 68	Burbank Drive, near int of Jennifer Jean Drive	833	1,132
PS 102	GSRI Ave, near int of Jasper Ave.	400	833

SGL-C-0003 (Essen Lane - Highland Road)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
057-00117	057-00080	710	10 and 12	18	This segment goes underneath a water channel.
057-00080	057-00003	2,200	12	21	
057-00003	057-00001	180	24	42	Segment includes crossing of a drainage canal.
057-00330	057-05069	460	8	15	
057-05069	057-00367	170	10	15	
057-00367	057-00368	190	10	18	
057-00368	057-00495	700	10	21	
057-00495	057-00371D	1,345	12	27	
057-00371D	057-00371E	230	12	30	
057-00371E	057-00003	664	12	36	
040-00012	PS 40	1,200	8	15	PS 40 will be upgraded under SGL-C-0002 (Multiple PS – Highland Road – Kenilworth Parkway)
329-00016	329-00008	1,700	10	15	
329-00008	PS 329	300	10	18	PS 329 will be upgraded under SGL-C-0002 (Multiple PS – Highland Road – Kenilworth Parkway) – forcemain replacement described below.
PS102DS	061-00364	930	8	15	
302-05073	302-05052	660	8	12	
302-05052	302-05031	1,700	8	15	
302-05031	302-05010	1,800	15 to 18	18	
302-05010	302-05007A	950	18	24	
302-05007A	302-05004	1,200	18	24	
302-05004	302-05002	1,500	18	27	
061-00351	061-00302	1,500	12	18	
061-00365C	061-00384	131	30	36	
061-00384	061-00382	390	24	36	
061-00382	061-00378	1146	24	36	
PS 329	PS329DS	4,300	8	10	Forcemain – PS 329 replacement is described in SGL-C-0002 (Multiple PS – Highland Road – Kenilworth Parkway)
PS 53A	Manifold point with Staring Lane FM (PS 58A FM)	6216	New	24	New forcemain from new PS 53A, which is described in SGL-C-0002 (Multiple PS – Highland Road – Kenilworth Parkway)

SGL-C-0004 (Highland Road - Lee Drive)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
PS56DS	053-00003	2,900	18	24	This segment includes a canal crossing.
053-00177	053-00168	325	10	18	
053-00168	053-00144	1,600	10	21	
053-00421	053-00407	3,500	12	18	
053-00407	053-00316	3,500	12 or 18	24	
053-00316	053-00016	1,800	18	27	
053-00016	053-00014	470	18	30	
053-00010A	053-00003	2,400	24	36	This segment includes a canal crossing.
053-00429	053-00410	1,800	12	18	
068-00050	PS68	1,211	10	18	
PS56FM	PS56DS	540	12	18	Forcemain from PS 56 (see Project SGL-C-0002 (Multiple PS – Highland Road – Kenilworth Parkway) for PS description)

SGL-C-0005 (Perkins Road - Dahlia Street)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
056-00133H	056-00153	3,800	15	24	
056-00208	056-00133H	4,200	12 to 15	21	Includes a crossing of a drainage canal
056-00148	PS56	970	18	36	PS 56 will be upgraded in Project SGL-C-0002
056-00153	056-00148	700	15 or 18	30	
PS70DS	056-00208	790	12	18	
056-00011	056-00153	1,300	15	30	
056-00052C	056-00018	4,600	12 or 15	21	Includes a crossing of Perkins Road
056-00052G	056-00052C	830	12	18	
056-00152	056-00011	330	15	24	
091-00004	091-00001	700	12	18	
091-00074	091-00006	1,300	10	15	

SFL-C-0001 (Multiple PS - Nicholson Drive - Brightside Drive)

PS No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
PS 236	Brightside Rd, near Riverbend Rd.	625	4,930	
PS 336	Nicholson Rd, near Riverbend Rd.	417	972	
PS 311	Twelve Oaks Rd, near Riverbend Rd.	556	1,250	Not in model
PS 107	Brightside Rd, near Earl Gross	833	903	
BPS 505	Intersection of Oleson Rd and Brightside Rd.	5,000	6,388	Will be converted from in-line to wet well.
BPS 505A	Intersection of Oleson Rd and Brightside Rd.	New	2,916	

SFL-C-0002 (Perkins/Old Perkins Area BSP514 Improvements)

PS No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
BPS 514	Int of Pecue and Old Perkins Rd	24,000	50,830	Will be converted from in-line to wet well.

SFL-C-0003 (Multiple Pump Stations - Burbank Drive - Siegen Lane)

PS No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
PS 118	Near Rue Crozet and Rue Desiree	417	854	
PS 221	Near Barkley and Mirkwood	694	1042	
PS 358	Old Perkins Rd, near Oakbrook Rd	208	278	
BPS 999	Siegen Rd, near Quail Ridge	6250	8749	Will be converted from in-line to wet well.
PS 239	Near Siegen Rd. and Woodleigh	69	139	
PS 229	Near Cottage Oak	278	625	

SFL-C-0004 (Group Project 2 – Small Pump Stations)

PS No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
PS 182	Near YMCA Plaza Drive	208	417	
PS 223	Int of Don Budge Ave. and Backcourt Drive	278	764	
PS 327	Int of Alder Drive and Crepe Myrtle Drive	278	347	
PS 353	Int of Azalea Lakes Ave. and Lake Iris Ave.	486	486	
PS 278	Near Bainbridge Ave.	347	764	
PS 372	Int of West Lake Terrace Drive and Lake Tulip Ave.	278	417	
PS 365	Int of Sugar Mill Ave. and Umbehagen Lane	1528	3403	

SFL-C-0005 (Highland Road - Burbank Drive)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
TAP408-8	GRTCHMUS	733	48	60	
SS428	TAP408-8	2,976	48	60	
SS98	SS428	7,980	48	54	
SS467	SS98	10,010	48	54	Approx. 570 feet of existing forcemain that crosses under Highland Road will remain – total length of this segment is approx. 10,580 feet.
SS479	SS467	6,803	42	54	
BPS 514	SS479	6,254	42	54	
SS369	BPS 514	106	42	48	
SS340 (no I-10/RR)	SS369	3,774	42	48	Approx. 2,190 feet of existing forcemain that crosses under I-10 and the RR will remain – total length of this segment is approx. 5,965 feet.
SS271	SS340	6,612	42	48	

SFL-C-0006 (Nicholson Drive – Highland Road – Perkins Road)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
PS252FM	SS325	6,000	8	12	
PS332FM	SS518	9,200	10	14	
SS518	SS340	3,600	12	14	
PS 259	SS340	3,400	6	8	
PS278FM	SS459	2,600	5	8	
278-00029	278-00028	270	8	12	
365-01007	365-00001Z	2,200	18	24	
PS365FM	SS444	40	10	14	
SS444	SS471	4,700	14	16	
PS382FM	SS502	2,000	4	6	
SS502	SS489	1,900	8	12	
SS489	SS507	3,900	16	18	
PS 398	SS502	3,100	8	10	
SS516	SS507	5,708	12	16	
SS426	SS458	9,300	18	24	
PS260FM	SS479	2,800	4	6	
108-00047	108-00001	42	8	12	
108-00001	108-00003	508	8	12	
108-00003	108-00005	557	8	12	
108-00005	105-00008	438	8	12	
PS223	SS312	1,800	6	8	
PS236	SS272	1,000	10	16	
SS272	SS286	3,600	14	16	
PS253FM	SS370	4,100	6	8	
PS229FM	SS400	1,700	6	8	
SS371	SS385	2,400	10	12	
PS99908	SS467	2,400	18	24	
236-00032	236-00025	1458	12	15	
236-00025	236-00020	1268	12	15	

SFL-C-0006 (Nicholson Drive – Highland Road – Perkins Road)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
236-00020	236-00006	470	12	15	
236-00006	236-00004	636	12	18	
236-00004	236-00002	485	12	18	
236-00002	PS 236	259	12	24	
236-00091	236-00085	469	12	15	
236-00085	236-00064	1444	12	15	
236-00064	236-00055	570	12	18	
236-00055	236-00002	505	12	18	
944-01006	PS944	1,917	8	10	
PS311FM	PS311DS	1030	6	10	

SFU-C-0001 (Multiple Pump Stations - Jefferson Highway - Park Forest Drive)

PS No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
PS 115	Parkmeadow Ave, near Parkhollow Drive	556	356	
PS 148	Parkforest Drive, near Parkmeadow Ave.	417	556	
PS 338	Near int of Quail Meadow Drive and Golden Pheasant Court	764	972	
PS 379	Jefferson Hwy, near int of Tiger Bend	208	208	
PS 201	Near Tiger Bend and the int of Jefferson Hwy.	556	1,111	
BPS 507	Located near PS 201	20,138	38,886	Will be converted from in-line booster to wet well pump station

SFU-C-0002 (Multiple Pump Stations - Jones Creek Road - Tiger Bend Road)

PS No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
BPS 777	Located near PS 308	14,582	21,526	Will be converted from in-line booster to wet well pump station
PS 172	Near the intersection of Ferrell Ave. and Guymon Ave.	278	347	
PS 112	Near the intersection of Confederate Ave. and Chattanooga Drive	694	1,389	
PS 274	Near the intersections of Jones Creek Rd and Tiger Bend Rd	417	1,875	
PS 170	Near the intersection of Barrington Rd and Point Chenier Ave.	139	4,514	

SFU-C-0003 (Multiple PS - O'Neal Lane – Interstate 10)

PS No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
BPS 889	Near end of King Bradford Drive	11,110	17,221	Will be converted from in-line booster to wet well pump station
PS 402	South Harrell's Ferry Rd, near the intersection of O'Neal Lane	833	208	
PS 174	Berrybrook Drive	417	278	
PS 162	Intersection of General Prentiss Ave. and President Davis Drive	417	903	
PS 224	Banyanwood Ave, near the intersection of Balsawood Drive	764	1,528	
PS 139	Firewood Drive, near the intersection of Stonewood Drive	208	278	
PS 345	Physicians Park Drive	417	278	
PS 149	Near the intersection of Hoyt Drive and Bristoe Ave.	486	625	

SFU-C-0004 (Multiple Pump Stations - O'Neal Lane - South Harrell's Ferry Road)

PS No.	Location	Existing Max. Capacity (GPM)	Future Peak Wet Weather Flow (GPM)	Comments
PS 247	Harness Rd	417	1,528	
PS 391	Near int of South Harrell's Ferry Rd and White Shadow Drive	139	347	
PS 316	Woodlake Drive, near int of South Harrell's Ferry Rd	486	2,639	
PS 211	Woodlake Drive, near int of Creek Round Ave.	694	2,361	
PS 296	Near int of North Shore Drive and Bull Run Drive	556	1,180	
PS 156	Near int of Woodbrook Drive and South Harrell's Ferry Rd	556	556	
BPS 100A	O'Neal Lane, near int of Commercial Ave.	5,555	9,652	Will be converted from in-line booster to wet well pump station
PS 227	Near int of Old Hammond Hwy. and South Flannery Rd	278	389	
PS 175	Near Lafitte Street Park	208	903	
PS 326	Near Lake Park Ave.	208	278	
PS 153	Woodvale Drive, near cul-de-sac	139	625	
PS 41	Near int of West Amite Drive and South Amite Drive	486	417	

SFU-C-0005 (O'Neal Lane - Jones Creek Road)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
062-00064	062-00048	470	10	12	
062-00048	062-00002	1,400	10	15	
062-00002	PS62	190	12	18	
146-00031	146-00018	920	10	15	
146-00018	146-00001	2,200	10	18	
146-00001	PS104	1,600	12	18	
189-00022	PS189	210	8	18	
191-00065	191-00001	540	8	12	
224-00091	224-00057	504	8	18	
224-00057	224-00001	445	8	18	
224-00001	PS224	12	12	18	
224-00063	224-00060	688	8	18	
224-00060	224-00057	661	8	18	
211-00051	211-00047	970	12	18	
211-00047	211-00039	460	10	18	
211-00039	211-00038	150	12	24	
211-00038	211-00037	260	12	18	
211-00037	211-00001	1,500	12	21	
211-00001	PS211	66	10	21	
177-00180	177-00179	50	8	15	
177-00179	177-00025	630	8	15	
177-00025	177-00021	400	15	21	
177-00282	177-00257	2,900	10	12	
112-00013	112-00002	830	10	18	
112-00002	PS112	200	10	15	
PS211DS	110-00094	2,250	10	18	
110-00094	110-00088	1,300	10	18	
110-00088	110-00001	240	10	15	
110-00001	PS111	70	10	24	
274-00002	PS274	570	12	18	
274-00009	274-00005	1,280	10	18	
274-00005	274-00004	90	10	18	
274-00004	274-00003	380	10	21	
170-00015	170-00005	2,100	10	15	
170-00005	170-00002	750	10	15	
170-00167	170-00001	600	10	18	
170-00110	170-00039	150	8	15	
170-00039	170-00037	700	8	18	
170-00037	170-00036	330	10	18	
170-00036	170-00001	770	10	21	
170-00001	PS170	60	15	21	
148-00038	148-00034	690	8	12	

SFU-C-0006 (O'Neal Lane - Tiger Bend Road)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
PS 153	SS11	1,300	4	6	
PS 101A	SS32	1,700	6	8	
SS24	SS32	3,220	14	18	
SS32	SS36	1,300	16	20	
PS 104	SS69	220	10	16	
SS69	SS64	3,800	16	24	
BPS 100A	SS75	200	18	24	
PS 224	SS96	3,300	10	12	
SS96	SS129	3,200	24	30	
SS135	SS129	2,300	14	16	
PS173	PS173DS	3,100	4	6	
PS162	SS109	1,500	6	8	
BPS 889	SS148	120	24	30	
PS 211	316-00001	1,100	6	14	
PS 316	SS173	1,300	8	14	
SS173	SS147	6,300	10	14	
PS 296	211-00051	880	6	8	
PS 347	SS222	3,100	4	8	
SS222	247-00001	1,100	6	8	
PS 247	SS274	3,100	8	12	
PS 213	SS274	1,400	4	6	
SS274	SS282	1,600	10	12	
SS282	SS265	7,300	12	16	
SS265	SS248	1,900	16	24	
PS 274	SS241	110	8	12	
SS241	SS268	5,600	36	42	
PS 112	110-00113	600	6	10	
SS196	BPS 777	2,100	30	36	
BPS 777	SS207	100	24	36	
SS207	SS243	6,000	30	36	
PS 258	SS192	1,200	4	6	
SS168	SS186	2,700	14	16	
PS 172	PS172DS	1,500	4	6	
PS 170	SS291	200	10	14	
SS291	SS248	1,370	10	14	
PS148FM	147-00057A	1,500	4	6	
PS 147	SS268	3,000	8	10	

Category 3: Flow Equalization and Wastewater Treatment Improvements

The conveyance improvements described in the previous sections will increase peak flow to the South WWTP. Therefore, flow equalization, storage, and treatment capacity improvements will be necessary to address these larger peak flows at the South WWTP. Additionally, with the planned closure of the Central Treatment Plant, storage of peak flows for the central treatment plant will be moved to the South Treatment Plant. The South Treatment Plant will easily handle the additional dry weather flows from the Central Treatment Plant.

The South WWTP will be upgraded to process wet-weather flows up to 356 MGD. Influent flows will be equalized to allow not more than a 200 MGD maximum flow to the treatment facilities. Sixty-four (64) million gallons of equalization storage will be provided for this purpose. The total wet weather flow of 356 MGD includes future projected flows to both the South WWTP and the Central WWTP.

Based upon the predicted increase in flow to the South WWTP and the historical performance of the treatment plant, the following improvements to the treatment plant are recommended. All projects below include provisions for odor control facilities for the various individual processes, miscellaneous piping, site work, and demolition, electrical facilities, and on-site standby power generators.

STP-C-0001 Phase 1

This Phase consists of the construction of a new headworks (sized to 200 MGD) that will be the new point of origin of the process train. A new raw sewage / equalization pump station will also be constructed to pump either to the new headworks or to the storage facilities.

Four above ground storage tanks will be constructed. The tanks are 16 MG each; the interiors will be lined, and will have mixing and cleaning capabilities.

STP-C-0002 Phase 2

This Phase builds upon Phase 1, and begins after the headworks, and includes additional wet weather treatment improvements. Principal project elements include the following:

- Construction of a 200 MGD Solids Contact Basin
- Construction of four additional final clarifiers
- Conversion of current method of disinfection to UV disinfection
- Construction of an expanded effluent pump station to 200 MGD
- Construction of a parallel effluent pipeline and river outfall structure

Immediate Action Plan (IAP) Projects

The South WWTP is under consent decree due to NPDES Permit violations related to TSS and BOD. A number of improvement projects will be implemented to assist the plant in complying with the effluent permit limits. These improvements will be implemented early in the program to bring the plant into compliance as soon as possible. The project is planned to start construction 1Q09. A description of each grouping of projects follows.

Primary Treatment Improvements

The first project element includes the addition of ferric chloride and polymer injection to improve the reliability of the primary settling tanks and consistently meet TSS and BOD effluent limits.

The second project element includes various improvements to the primary settling tanks to improve their mechanical reliability. These improvements include repair/replacement of clarifier mechanisms and components, replacement of the existing sludge pumps, and replacement of existing large inlet plug valves to the clarifiers.

The third project element includes addition of flow control / flow measurement devices at several splitter boxes. Current design is manual control; this element will allow for electric control and measurement to better determine proper distribution to downstream facilities.

Trickling Filter Improvements

The secondary treatment process consists of two trains, each with trickling filters, final settling tanks, and effluent pump stations. Flows from the primary clarifiers are received in a splitter box, and are divided into the two trains. Recirculation pumps and flow control will be added to allow for optimum performance of the trickling filters, and a new primary effluent pump station will be required to compensate for the added recirculation.

Sludge Handling Improvements

The existing gravity thickeners will be replaced, and the sludge pump station components will be rehabilitated/replaced as required to return this system to operation.

Permit #: LA0036412

C. Treatment Plants

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

☑ Yes ☐ No (√ Check one box.)

old: 12-18-2007 new: 12-18-2007 — *Influent flow meter calibration date(s)*

06-19-2008 — *Effluent flow meter calibration date(s)*

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

PRIMARY BASINS #3, #4 & #6 - FLIGHT DRIVE UNIT FAILURE
GRAVITY GRIT BASIN FAILURE
INFLUENT PUMP STATION - PUMP P-153 & P-151 FAILURE

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

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

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 maintenance and 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 200mg/l and 250mg/l respectively. Any discharge above these limits is surcharged at a rate of 2% of the monthly sewer user fee for each limit of 10mg/l. Pretreatment Ordinance (No. 9195) limits the discharge of heavy metals, chemicals 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 City-Parish and self monitoring sampling. The same apply to the Pretreatment Ordinance. Enforcement mechanisms include discharge permits, surcharges, letter and notice 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*	50	100 points
Part 3: *Age of WWTF*	25	50 points
Part 4: *Overflows and Bypasses*	50	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: 135

SWWTP-EXISTING SITE PLAN
PHASE-IIB
CITY OF BATON ROUGE / PARISH OF EAST BATON ROUGE
CS-1

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 METROPOLITAN COUNCIL (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 CITY/PARISH METROPOLITAN COUNCIL, on 10th December (date).

CLERK

ADOPTED
METROPOLITAN COUNCIL

DEC 10 2008

Brian Mayne
COUNCIL ADMINISTRATOR TREASURER

362

RESOLUTION 46685

REQUESTING APPROVAL FOR SUBMITTAL OF THE LOUISIANA MUNICIPAL WATER POLLUTION PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE SOUTH TREATMENT PLANT (LA 00036412 AI # 4841) TO THE DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) FOR THE MONITORING PERIOD OF SEPTEMBER 1, 2007 THROUGH AUGUST 31, 2008.

BE IT RESOLVED by the Metropolitan Council of the Parish of East Baton Rouge and City of Baton Rouge that the submittal of the Louisiana Municipal Water Pollution Prevention (MWPP) Environmental Audit Report for the Central Wastewater Treatment Plant (LA 00036412 AI # 4841) to the Department of Environmental Quality (DEQ) for the monitoring period of September 1, 2007 through August 31, 2008, is hereby approved.

LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP

Facility Name:	City of Baton Rouge and Parish of East Baton Rouge
LPDES Permit Number:	LA0036421
Agency Interest (AI) Number:	4842
Address:	2443 RIVER ROAD
	BATON ROUGE
	LOUISIANA
Parish:	East Baton Rouge
(Person Completing Form) Name:	CHARLES M. O'BRIEN
Title:	WASTEWATER LABORATORY SUPERVISOR
Date Completed:	OCTOBER 24, 2008

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 BOD_5 Concentration (mg/l)		**Column 3** Average Monthly BOD_5 Loading (pounds per day, lb/day)
9.61	x	130	x 8.34 =	10,419
9.87	x	130	x 8.34 =	10,701
9.45	x	172	x 8.34 =	13,556
9.61	x	143	x 8.34 =	11,461
13.42	x	124	x 8.34 =	13,878
13.00	x	120	x 8.34 =	13,010
11.25	x	130	x 8.34 =	12,197
11.38	x	141	x 8.34 =	13,382
11.99	x	130	x 8.34 =	13,000
10.29	x	171	x 8.34 =	14,675
9.56	x	138	x 8.34 =	11,003
11.66	x	126	x 8.34 =	12,253

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

Permit #: **LA0036421**

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 correspoding 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	21	18
OCTOBER	22	19
NOVEMBER	23	20
DECEMBER	28	20
JANUARY	32	22
FEBRUARY	28	22
MARCH	23	19
APRIL	20	17
MAY	20	17
JUNE	21	15
JULY	22	17
AUGUST	18	17

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 #: **LA0036421**

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 correspoding 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 [20] 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 correspoding 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: [25] (max = 100)

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

Permit #: LA0036421

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*
2008		1998		10

Enter Age in Part C below.

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

		FACTOR:
X	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 determint the total point value for Part 3.

TOTAL POINT VALUE FOR PART 3 =

$$\frac{2.5}{\textit{Factor}} \times \frac{10}{\textit{Age}} = \boxed{25} \text{ (max = 50)}$$

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.

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:

1 √ 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 withing the collection system and the number at the treatement plant

Collection System: 0 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:

54 √ 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 withing the collection system and the number at the treatement plant

Collection System: 53 Treatment Plant: 1

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: 55 (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 (225) 389-3240

Describe the procedure for gathering, compiling and reporting:

THE PROCEDURE FOR GATHERING, COMPILING AND REPORTING IS SPECIFIED IN THE PERMIT.

Permit #: **LA0036421**

PART 5: SLUDGE STORAGE AND DISPOSAL SITES

A. Sludge Storgage

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 #: LA0036421

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: Robert Florida

B. What is his or her certification number: 09-01-07 to 05-01-08

Cert.#: 10-549

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: The State of Louisiana requires that an operator have at least 16 hours of continuing education in a two-year period to maintain his/her certification.

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 vaules 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 #: 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: 05-01-08 to 08-31-08

Cert.#: 16-255

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: The State of Louisiana requires that an operator have at least 16 hours of continuing education in a two-year period to maintain his/her certification.

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 vaules 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 #: **LA0036421**

PART 8: FINANCIAL STATUS

A. Are User-Charge Revenues sufficient to cover operation and maitenance 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 REVENUE SOURCES. THEY ARE A ONE HALF PERCENT SALES & USE TAX, SEWER USER FEES, SEWER IMPACT FEES, AND A $4 MILLION SUBSIDY FROM THE GENERAL FUND SUPPORTED FROM 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.

ROUTINE MAINTENANCE

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

LA0036421 CENTRAL PLANT

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 (9/07 – 8/08)

Line Cleaning	5%
CCTV Inspections	2%
Smoke Testing	2%
Dye Testing	0%
Manhole Inspection	3%
Line Repaired	6%
Manhole Rehabilitation	0%
Force Main-Inspections	0%
Repaired	30%
Air Release Valves-Inspections	0%
Repaired	0%
Wet Well Cleaned	219%
Pump Stations-Repaired	71%

A3. During the next 6 years approximately 18 projects in the Central Treatment Plant Collection Area (related to the SSO Consent Decree Program) are scheduled to be implemented, either design or begin construction. The projects will include pump station upgrades, force main improvements, gravity sewers. This list was revised in October 2008 by our SSO Program Manger, CH2M Hill. In addition, the Central WWTP is proposed to be demolished, and the sewer flow is to be rerouted to the South WWTP. The proposed replacement pumping system will be sized for future peak wet weather flows, with storage capability (originally planned for the Central WWTP) moved to the South WWTP. Additionally, annual contracts for sewer rehabilitation including lining, point repair, upsizing, and other rehabilitation methods will also be implemented. The following is the proposed Capital Improvement Plan for the Central WWTP Basin.

Proposed Capital Improvement Plan

The recommended program strategy is to conduct comprehensive rehabilitation of the sewer system in all areas where the rainfall dependent infiltration and inflow (RDII) rate currently exceeds 10 percent of the rainfall volume (i.e., the system R value exceeds 10 percent). This will result in significant reductions in wet-weather flows throughout the City/Parish system, thus improving system performance and controlling system overflows and house back-ups. In addition, the comprehensive rehabilitation program will provide substantial additional benefits in terms of reduced operation and maintenance costs as well as improved structural integrity.

The recommended improvements program includes three categories of improvements. The rehabilitation in each of the basins with R-values in excess of 10 percent is considered part of the Category 1 improvements.

Sewer and pump station improvement plans were devised to resolve all remaining conveyance deficiencies in each basin. The pump station and conveyance system improvements include capacity increases to the stations and piping. Capacity improvements are referred to Category 2.

Since the Central WWTP is proposed to be taken out of service, no capacity increases or other improvements will be made to the plant itself. Normal routine maintenance will continue to meet current permit limitations until such time that the plant can be bypassed and shut down. At this time, it is uncertain when the Central WWTP will be shut down or when the permit will no longer be required. Upgrades to the south WWTP must be completed to accept the additional flow, and the transmission network must be completed and placed in service. The closure will likely take place in 2014.

Category 1: Comprehensive Sewer Basin Rehabilitation Upgrades

Based upon sewer system model results and flow monitoring, numerous basins within the Baton Rouge system require comprehensive rehabilitation. The basins identified through the system model are scheduled for rehabilitation based upon the modeled R-values. The first group of basins scheduled for rehabilitation is those with the highest existing R-values.

There are 7 Category 1 projects planned in the South Treatment Plant Collection Area.

Category 2: Pump Station and Transmission/Conveyance System Improvements

The system model was used to identify pump stations and conveyance lines where capacity is not adequate for the peak wastewater flows. Category 2 provides for pump station and conveyance system upgrades in capacity. In the Central WWTP area, capacity upgrades are required at 12 pump stations. The projects are generally discussed below.

CGN-C-0001 (Capital Lake Drive – Gayosa Street)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
PS15FM	PS15DS	13700	New	18	
PS19FM	PS15DS	122	New	18	
PS15DS	PS60	3600	New	20	

CGN-C-0002 (25th Street – North Acadian Thruway)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
060-07642	060-07619	950	12 & 10	18	
060-07619	060-07544	2100	18, 15, & 12	21	
060-07544	060-07486	900	18	24	
060-07486	060-07970	1100	New	21	
060-07970	PS15	1850	New	24	
015-05119	PS 15	500	10	18	
059-06287	059-06282	823	10	15	
059-06527	059-06532	1191	10	15	
060-06987	060-06935	283	10	15	
060-07038	060-06953A	364	18	24	
060-07735	060-07735I	81	18	24	
060-07735I	060-07735J	67	18	24	
060-07735J	060-07734	167	18	24	
060-07741	060-07736	399	18	24	
060-07736	060-07735	345	18	24	
059-05872A	059-05871	159	30	36	
059-05871	059-05870	431	33	36	
059-05879	059-05878	91	30	36	

CGN-C-0003 (South Boulevard – St. Joseph Street)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
059-06088	059-05857	560	24	36	
059-06445	059-06532	2200	12 & 10	21	
059-06532	059-06045	3000	12 & 10	24	
059-06140	059-06236	1100	10	15	Reduced Segment
059-06236	059-06128	940	18	24	
059-06128	059-06045	1300	21 & 15	27	
059-05878	059-05872	1100	36, 30, & 27	42	

CGN-C-0004 (Downtown Area – PS59 Improvements)

PS NO.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS 59	Near the intersection of River Road and South Blvd.	7,777	26,665

CGN-C-0005 (Downtown Area – PS 15, PS 19, and PS 60 Improvements)

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS 15	Washington Street, near intersection of West Belfair Drive	694	4,014
PS 19	Eiland Drive, near intersection of 4th Street	417	1,493
PS 60	River Road North, near State Capitol Drive	4,583	16,249

CGS-C-0004 (Highland Road – Buchanan Street)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
001-00425A	001-00425	14	8	10	
001-00425	001-00293	1100	8 & 10	15	
002-01393	002-01390	1200	15 & 18	21	
002-01390	002-01361	800	18	24	
005-04061	005-03800	3100	12 & 15	21	
005-03915	005-03914	400	8	12	
005-03808	005-03800	670	10	18	
006-04250	PS6	40	10	21	
PS6	PS6DS	1400	8	12	

CGS-C-0006 (Government Street – South Acadian Thruway)

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
004-03201	004-03199	470	18	21	
004-03199	004-03269	290	15 & 18	21	
004-03269	004-03279	2300	15 & 18	27	
004-03027	004-03006	500	12	21	
004-03006	004-02951	2100	15	24	
004-02951	PS 4	170	15	27	
003-02286	003-02203	2300	8 & 10	15	
003-02203	003-02084	230	12	18	
003-02084	003-02039	400	18	24	
003-02039	003-02035	1200	18	27	
003-02203B	003-02203	680	8	12	
003-02035	003-01927	250	18	27	
003-01929	003-01927	180	10	12	

Central Consolidation – New Central WWTP PS

PS NO.	LOCATION	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
CWWWTP PS	Central WWTP site (River Road South, near West McKinley Street)	New	33,331

Central Consolidation – PS 2, PS 3, PS 4, PS 5, PS 6, PS 7, and PS 10

PS No.	Location	Existing Max Capacity (GPM)	Future Peak Wet Weather Flow (GPM)
PS2	Clay Cut Bayou	3,819	6,458
PS5	Valley Street	903	29,720
PS6	Stanford Ave	347	1,805
PS3	Acadian Thruway, near Bawell Street	3,958	16,436
PS4	Clay Cut Road near the intersection at Bienville Street	3,819	8,055
PS 7	Dalrymple Dr, near the intersection at E Washington St	720	1,180
PS10	East Lakeshore Drive, near southeastern corner of City Park	500	1,479

Central Consolidation – New Central WWTP FM

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
Central WWTP PS	2N-1	22,700	New	42	Includes 600 feet of tunneling
2N-1	South WWTP	26,900	New	54	

Central Consolidation East FM New Pipes-Central to South

US Node	DS Node	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Comments
010-04925	PS 10	520	10	18	
PS7	PS10DS	1900	New	8	
PS10DS	PS2DS	3500	New	12	Includes 500 feet of tunneling under I-10
PS2	PS2DS	3400	New	16	
PS2DS	PS3DS	1800	New	24	
PS3	PS3DS	3500	New	36	Includes 500 feet of tunneling under I-10
PS3DS	PS5US	1800	New	42	
PS5US	2N-1	13000	New	42	
BPS505A	CWWTP-FM	100	New	12	Near Nicholson Drive & Ben Hur Road

Permit #: **LA0036421**

C. Treatment Plants

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

[X] Yes [ ] No (√ Check one box.)

12-11-07 07-07-08
Influent flow meter calibration date(s)

12-07-07 06-16-08
Effluent flow meter calibration date(s)

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

NONE

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

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

Permit #: **LA0036421**

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-annual preventive maintenance sheets that reflect type and frequency as specified in the O & M manuals. A new computer program will manage the maintenance and 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, chemicals 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 City-Parish and self monitoring sampling. The same apply to the Pretreatment Ordinance. Enforce mechanisms include discharge permits, surcharges, leter of notice 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*	25	100 points
Part 3: *Age of WWTF*	25	50 points
Part 4: *Overflows and Bypasses*	55	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: 115

PHASE-IIB

CWWTP-EXISTING SITE PLAN

CITY OF BATON ROUGE / PARISH OF EAST BATON ROUGE

CAMP DRESSER & McKEE INC. CDM

PROFESSIONAL ENGINEERING CONSULTANTS

ATTACHMENT

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 METROPOLITAN COUNCIL (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/unamious (circle one) vote of the CITY/PARISH METROPOLITAN COUNCIL on 10th December (date).

CLERK

361

RESOLUTION 46684

ADOPTED
METROPOLITAN COUNCIL
DEC 10 2008
COUNCIL ADMINISTRATOR TREASURER

REQUESTING APPROVAL FOR SUBMITTAL OF THE LOUISIANA MUNICIPAL WATER POLLUTION PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE CENTRAL TREATMENT PLANT (LA 00036421 AI# 4842) TO THE DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) FOR THE MONITORING PERIOD OF SEPTEMBER 1, 2007 THROUGH AUGUST 31, 2008.

BE IT RESOLVED by the Metropolitan Council of the Parish of East Baton Rouge and City of Baton Rouge that 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, 2007 through August 31, 2008, is hereby approved.