

CH2MHILL TRANSMITTAL

To: Baton Rouge City/Parish DPW
300 North Boulevard
Baton Rouge, LA 70802

From: Karen Johnson/CH2M HILL

Attn: Amy Schulze

Date: December 14, 2007

Re: EPA RMAP1 Status Report

We Are Sending You:

Method of shipment:

Attached

Under separate cover via

Shop Drawings

Documents

Tracings

Prints

Specifications

Catalogs

Copy of letter

Other:

Quantity	Description
20	EPA RMAP1 Status Report Copies – for distribution
1	Report Distribution List

If the material received is not as listed, please notify us at once.

Remarks: None

Copy To: Document Controls



Department of Public Works

City of Baton Rouge
Parish of East Baton Rouge

Post Office Box 1471
Baton Rouge, Louisiana
70821

November 7, 2007

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
Section XVIII - Reporting of the Consent Decree
RMAP1 Status Report - Period Ending October 31, 2007

Gentlemen:

Pursuant to Paragraph 53 of the Consent Decree, the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) hereby submits the First Remedial Measures Action Plan (RMAP1) Status Report describing the progress of RMAP1 projects listed in Exhibit F of the Consent Decree as of October 31, 2007. In addition this report includes a formal "Request for Time Extension" for those RMAP1 projects currently in progress but not yet completed. A schedule for project completion for these RMAP1 projects is also incorporated in the report. This report contains a summary of compliance with and activities related to:

- Collection System Remedial Program
- Reporting
- Forms of Notice

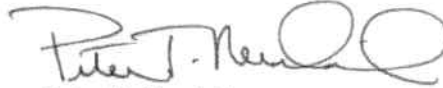
These activities are described in Sections XII, XVIII, and XXXIII of the Consent Decree.

Pursuant to Paragraph 49 and 117 of the Consent Decree, the City of Baton Rouge and Parish of East Baton Rouge hereby submits for review and approval three copies of the RMAP1 Status Report to the US EPA and LDEQ and one copy to the US DOJ and City/Parish DPW.

I certify that the information contained in or accompanying this EPA RMAP1 Status Report 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.

Sincerely,

A handwritten signature in black ink, appearing to read "Peter T. Newkirk". The signature is fluid and cursive, with a large, stylized "P" and "N".

Peter T. Newkirk
Director of Public Works

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
Mr. Walter Monsour, Chief Administrative Officer
Chief, Environmental Enforcement Section, US DOJ
Mr. Bruce Hammett, LDEQ
Ms. Peggy Hatch, LDEQ
Mr. Harold Leggett, LDEQ
Ms. Mona Bates, US EPA Region 6
Mr. Carlos Zequeira, (6RC-EA)
Ms. Gladys Gooden-Jackson, (6EN-WC)
Mr. Wade Shows
Mr. Mark LeBlanc
Mr. Bryan Harmon
Mr. Richard Wright
Mr. Walter Jenkins
Mr. David Ratcliff
Ms. Cheryl Berry
Mr. Jim Hawley, CH2MHILL

City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
EPA RMAP1 Status Report - Data Review

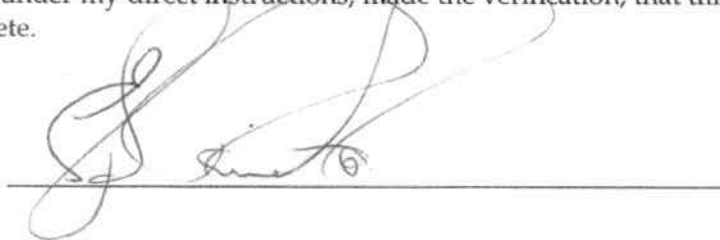
TO: Bryan Harmon/DPW
Rick Wright/DPW
E.J. Amato/DPW
FROM: Karen Johnson/CH2M HILL
DATE: December 3, 2007

Gentlemen:

Draft copies of the above referenced report have been submitted for your review. This review is to insure that the data submitted under your direction, has been stated in a truthful and accurate manner in the EPA RMAP1 Status 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.

Karen Johnson, PE
Regulatory Coordinator/CH2M HILL

I certify that the information contained in or accompanying the portion of the EPA RMAP1 Status 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.



A handwritten signature in black ink, appearing to read 'K. Johnson', is written over a horizontal line.

cc: Document Control

City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
EPA RMAP1 Status Report - Data Review

TO: Bryan Harmon/DPW
Rick Wright/DPW
E.J. Amato/DPW

FROM: Karen Johnson/CH2M HILL

DATE: December 3, 2007

Gentlemen:

Draft copies of the above referenced report have been submitted for your review. This review is to insure that the data submitted under your direction, has been stated in a truthful and accurate manner in the EPA RMAP1 Status 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.

Karen Johnson, PE
Regulatory Coordinator/CH2M HILL

I certify that the information contained in or accompanying the portion of the EPA RMAP1 Status Report that I am responsible for is true, accurate, and complete. As to those identified portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate and complete.



cc: Document Control

EPA RMAP1 Project Status Report

PREPARED FOR: Bryan Harmon/DPW

PREPARED BY: Karen Johnson/CH2M HILL

COPIES: Rick Wright/DPW
Amy Schulze/DPW
Cheryl Berry/DPW
Bob Abbott/DPW
Mark LeBlanc/DPW
Jim Hawley/CH2M HILL
Lee Davis/CH2M HILL
Gordon Garner/CH2M HILL

DATE: November 12, 2007

Background Summary

On March 14, 2002, the City of Baton Rouge, Louisiana and the Parish of East Baton Rouge, Louisiana (collectively "the City/Parish") entered into a Consent Decree with the United States and the State of Louisiana. This Consent Decree takes precedence over the original Consent Decree entered into in 1989 which requires the City/Parish to address its wastewater collection system in addition to its wastewater treatment plants (WWTPs). The 2002 Consent Decree outlined different remedial measures the City/Parish was to follow in order to meet compliance objectives and requirements. Specifically, there were remedial measures listed for the sewer collection system that were to help minimize and prevent unauthorized discharges from the collection systems for the North, South, and Central Plants. At the time the Consent Decree was written the City/Parish didn't decide on the plan it was going to implement in order to address these unauthorized discharges. Therefore, several alternatives were presented in the Consent Decree to help the City/Parish evaluate different options available and to choose the alternative that it was going to execute. However, there were several projects common to all of the alternatives presented in the Consent Decree that the City/Parish was beginning to implement while it was determining which alternative to select. These projects were called the First Remedial Measures Action Plan (RMAP1) projects, and were listed in Exhibit F of the Consent Decree.

This technical memorandum (TM) summarizes the status of the RMAP1 projects listed in Exhibit F of the Consent Decree. In addition, this TM includes a formal "Request for Time Extension" for the City/Parish from the EPA and LDEQ, for those RMAP1 projects currently in progress but not yet completed. These delays are due to the ramifications of Hurricane Katrina and changes in engineering priorities that have evolved from the new technical approach. A schedule for project completion for these RMAP1 projects is also incorporated in the TM. This TM will serve as the milestone requirement pursuant to Section XVIII - Reporting, of the Consent Decree.

RMAP1 Project Status

The 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 Montgomery Watson 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, etc.

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 with the associated delays that came about dealing with the aftermath of the Hurricane Katrina disaster to the Louisiana Gulf Coast, which directly affected the City/Parish.

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 momentous 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, these projects were then shelved.

Also as previously mentioned, Hurricane Katrina devastated the Louisiana Gulf Coast in 2005 in a variety of ways. The Louisiana Gulf Coast area was uninhabitable for many weeks/months after the considerable damage caused by Hurricane Katrina. Due to the high winds, large amount of rainfall (up to 15 inches in some locations) and the storm surge, destruction was catastrophic. Katrina was the costliest, most destructive, and one of the five deadliest hurricanes in the history of the United States. Federal disaster declarations covered approximately 90,000 square miles of the Southern United States. As a direct result, the City/Parish suffered from the aftermath of Hurricane Katrina from primarily a demographic and an economic perspective. The City/Parish had an influx in population in the months following hurricane. The City/Parish was a major evacuation site that drew thousands of evacuees. People were living in tents in the park near the Baton Rouge City Hall. For months the City/Parish staff were diverted to emergency services, assisting with relocation facilities and coping with the influx of people, many of whom are now permanent residents. The City/Parish's internal working systems were severely overloaded and there were months of delays in re-establishing normal City/Parish business operations. In addition after the hurricane, much of the local City/Parish engineering and construction labor workforce left the area to work in areas of the Gulf Coast (such as New Orleans) more severely impacted by the storm which resulted in a labor shortage in the City/Parish in the months following the hurricane. Hurricane Katrina caused huge delays in the normal operations of the Baton Rouge City government, with an increase in population, the City's

internal systems were severely over loaded and experienced months of delays in re-establishing normal operations. Many RMAP1 projects in progress in 2005 during this time period were delayed due to dealing with the aftermath of Hurricane Katrina. The status of all of these RMAP1 projects is discussed in more detail in the following sections.

RMAP1 Projects Completed

As previously noted, Hurricane Katrina devastated the Louisiana Gulf Coast in 2005, and there has been a major change in the technical approach to address the requirements in Section XII - Collection System Remedial Program of the Consent Decree. Regardless of these catastrophic events and the significant changes in technical approach of this program, most RMAP1 projects have been completed. Exhibit 1 depicts the list of completed RMAP1 projects.

EXHIBIT 1 Completed RMAP1 Projects		
Consent Decree RMAP1 Projects	Corresponding City/Parish RMAP1 Projects	Construction Completion Date
N-05 PS 24 Area Upgrades	*PS 24/43 Area Upgrade (01-RMP-N05)	April 2006
N-06 PS 43 Area Upgrades		
N-09 PS 44/46 Area Upgrades	PS 44/46 Area Upgrades (01-RMP-N09)	August 2004
N-10 PS 240 Area Upgrades	PS 240 Area Upgrades (01-RMP-N10)	October 2005
N-99 North Further Investigations	NTSN SS Eval. Study (99-RMP-N-99)	May 2003
	**Bellingrath Rehab. (03-RMP-N14) (NSRP)	December 2004
	**Frenchtown Road Sewer Rehab. (03-RMP-N15)	July 2005
	**North Area Comprehensive Rehab. (03-RMP-N23)	April 2006
	**PS 45 Area Rehab. (00-RMP-N31)	January 2001
C-03 PS 2 Area Rehabilitation	PS 2 Area Upgrades (01-RMP-C03)	September 2002
S-01B SWWTP Influent PS	SSO SWWTP Infl. PS Upgrade (99-RMP-SO1B)	April 2003
S-11 PS 40 Area Rehabilitation	S-11 PS 40 Area Rehabilitation	August 2006
***S-99 South Further Investigations	SSO Engr-South (99-RMP-S99)	May 2003
	PS 944 Area Upgrade Grv Sewer (99-RMP-S99)	May 2003
	PS 944 Area Upgrade (99-RMP-S99)	May 2003
	PS 177 Area Upgrade (99-RMP-S99)	May 2003
	**PS 211 Area Upgrades (99-RMP-S11)	December 2003
*Notes: This project was executed as a combination of two RMAP1 projects		

EXHIBIT 1 Completed RMAP1 Projects		
Consent Decree RMAP1 Projects	Corresponding City/Parish RMAP1 Projects	Construction Completion Date
**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		

As shown in Exhibit 1, the manner in which several of the projects were executed may have changed since the time that the Consent Decree was written. For example, some of the project names have been altered and some projects were split up into several smaller projects for execution purposes, etc. In addition, since the implementation of RMAP1 projects began, the City/Parish has actually developed some additional projects that were executed as if they were original RMAP1 projects, as shown in Exhibit 1. Many of these projects were added after wastewater collection system studies were completed in various areas of the City/Parish and high priority opportunities were identified. Since these projects were consistent with the Collection System Remedial Program referenced in the Consent Decree, they were then carried out as RMAP1 projects, though this was not required in any way as a part of the Consent Decree.

RMAP1 Projects Deferred

There are several other RMAP1 projects that have not been completed as planned. Of these projects not completed, some are currently under design or in construction (see the section below for more details about these "on-going" projects), others were deferred and are in the process of being reevaluated as a part of the "new" RMAP2 plan, and still others were deferred indefinitely due primarily to the change in technical plan approach from deep tunnels and storage to sewer rehabilitation. Exhibit 2 - RMAP1 Deferred Projects, lists the deferred RMAP1 projects, and a brief summary of the reason for deferment.

EXHIBIT 2 Deferred RMAP1 Projects		
Consent Decree RMAP1 Projects	Corresponding City/Parish RMAP1 Projects	Reasoning
*N-01 Choctaw Basin Return System	Choctaw Area Storage (04-RMP-N22)	Project suspended due to change in plan from deep tunnels/storage to rehabilitation. Project is currently being reevaluated as a part of the CH2M HILL RMAP2 plan under development.
*N-13 North Choctaw Basin System	S-05 PS 58B Area Upgrades MWH RMAP2	Project suspended due to change in plan from deep tunnels/storage to rehabilitation. Project is currently being reevaluated as a part of the CH2M HILL RMAP2 plan under development.
N-04 PS 47 Area Upgrades	N-04 PS 47 Area Upgrades	Shelved due to change in plan from deep tunnels/storage to rehabilitation.

EXHIBIT 2 Deferred RMAP1 Projects		
Consent Decree RMAP1 Projects	Corresponding City/Parish RMAP1 Projects	Reasoning
*N-07 PS 39/55 Area Upgrades	N-07 PS 39/55 Area Upgrades	Project stopped during design phase due to change in plan from deep tunnels/storage to rehabilitation.
N-11 PS 65 Area Upgrades	PS 65 and 65A Area Upgrades (01-RMP-N11)	Project suspended at preliminary design phase due to change in plan from deep tunnels/storage to rehabilitation, significant population growth in the area, and the Comite River diversion cutting the system off.
*Notes: These projects may be implemented as RMAP2 projects if they fit into the CH2M HILL plan currently under development. If not, they will be indefinitely deferred. Either way, a summary or the path forward for these projects will be provided in upcoming Quarterly and Annual EPA Reports.		

A more detailed description of the reasoning behind some of the indefinite deferments of the RMAP1 projects listed in Exhibit 2, are as follows:

- Both of the Choctaw Basin projects were initially shelved due to the change in program plan from deep tunnels and storage to rehabilitation. The City/Parish actually purchased land for the new storage facilities and it was in the process of contract negotiations with several engineering firms for the design portion of the project work, when the projects were stopped. These projects have recently been reevaluated to see if they fit into CH2M HILL's RMAP2 program plan.
- The PS 47 Area Upgrades project never got off the ground before the change in plan from deep tunnels and storage to rehabilitation.
- The PS 35/55 Area Upgrades project was 60% designed before it was stopped due to the change in plan from deep tunnels and storage to rehabilitation. CH2M HILL is currently reevaluating this project to see if it should be completed or modified as a part of their new program plan that is currently under development.
- The PS 65 Area Upgrades project was approximately 30% designed before being suspended due to the change in plan from deep tunnels and storage to sewer rehabilitation. The project scope is currently being studied by a consulting engineering firm hired by the City/Parish. The collection system in the area is being reevaluated to determine the best overall solution before moving forward with projects in this area of the City/Parish. The first issue being evaluated is the possible relocation of PS 65 (which was listed to be abandoned in the project's original scope). The area that PS 65 serves will be isolated from the pump station by the Comite River Diversion structure (this is a COE flood control project). The effects of the installation of this diversion structure may require relocating the pump station. Also, this part of the City/Parish is experiencing tremendous growth which needs to be taken into consideration when planning projects in the area.

On-going RMAP1 Projects - Request for Time Extension

The City/Parish requests a time extension for those RMAP1 projects that are currently in progress. There are a total of five RMAP1 projects that are on-going at this time. These projects were all put on hold and eventually reevaluated due to the change in technical plan from deep tunnels and storage to sewer rehabilitation. In addition, the effects of Hurricane Katrina on the City/Parish and the surrounding area, contributed to the delay in these RMAP1 projects. These projects and their projected construction completion dates are listed in Exhibit 3. Note that these dates are projected construction completion dates only and do not include a contingency, or buffer for possible weather delays or any other unforeseen events that may impact design and construction of the projects. We have included a buffer to take these unpredictable events into account. We have assumed a standard buffer of six (6) months for consistency purposes for all on-going RMAP1 projects, which can be seen in Exhibit 3. We suggest that these "buffered" dates become the new compliance deadlines for the on-going RMAP1 projects.

EXHIBIT 3 On-going RMAP1 Projects			
Consent Decree RMAP1 Projects	City/Parish DPW RMAP1 Projects	Projected Construction Complete Dates	Buffered Construction Completion Dates
N-02 PS 49/52 Area Upgrades	PS 49/52 Area Upgrade (01-RMP-N02)	***	***
N-12 North Sewer Rehab Projects	North Sewer Rehab Projects (03-RMP-N12)	December 2007	June 2008
S-08 Industriplex Area Upgrades	Industriplex Area Upgrade FM (99-RMP-S08)	May 2009	November 2009
	Industriplex Area Upgrade PS 355 (99-RMP-S08)		
S-14 Kleinpeter Area Upgrades	Kleinpeter Area Upgrades (03-RMP-S14)	October 2009	April 2010
S-16 PS 136 Area Upgrades	PS 136 Area Upgrades (99-RMP-S16)	October 2009	April 2010
	PS 136 Area PS Upgrades (99-RMP-S16)		
***Notes: This date has yet to be determined.			

Some addition discussion about the status of these "on-going" RMAP1 projects is provided below:

- The PS 49/52 Area Upgrades project has already been designed. In addition, construction work is approximately 80% finished. The City/Parish is in a legal dispute with the Construction Contractor about completion of work. They are trying to negotiate with the Contractor in the hopes of resolving the issues as soon as

possible. As soon as these issues are negotiated, the City/Parish will be able to provide a projected construction completion date for this project.

- The North Sewer Rehab projects have been designed and are currently at approximately 75% complete with construction.
- The Industriplex Area Upgrades projects are approximately 95% completed with design. Design specifications and drawings are in the process of being modified to incorporate CH2M HILL and City/Parish comments.
- The Kleinpeter Area Upgrades project is at about 80% of the design completed. CH2M HILL is in the process of re-evaluating the flows, which once done will be provided to the design engineering firm for design finalization.
- Approximately 75% of the design has been completed for the PS 136 Upgrades project. The City/Parish is in the process of the review/approval of the design modifications. The design engineering firm is awaiting a contract extension to incorporate the design changes and complete the design.

These "on-going" RMAP1 projects will continue to be reported periodically in both the Quarterly and Annual EPA Reports. We request a formal letter of approval from EPA/LDEQ for the proposed RMAP1 project extensions.