

BATON ROUGE SSO PROGRAM PROGRESS REPORT

MAY 2009



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

Prepared by
CH2MHILL
In association with
SIGMA Consulting Group, Inc.

PROGRAM MANAGEMENT

Most projects included as a part of the Baton Rouge SSO Control and Wastewater Facilities Program fit into the three major categories: Capacity Improvements, Sewer Rehabilitation, and Wastewater Treatment and Storage Projects.

Capacity improvement projects will reduce hydraulic bottlenecks in the system and convey wet weather flows to new upstream storage facilities or the Wastewater Treatment Plants (WWTPs).

- There are 57 Capacity Improvement Projects totaling approximately \$603M

Sewer rehabilitation projects are often referred to as "Find and Fix". Rehabilitation or reconstruction work is performed on those areas where flow monitoring has indicated the highest levels of stormwater inflow and groundwater infiltration (I/I) in sewer pipes.

- There are 26 Rehabilitation Projects totaling approximately \$297M

Wastewater treatment and storage projects consist of expanding treatment plants to accommodate peak flow, as well as make improvements to screening, trickling filters, effluent pumping, and sludge handling.

- There are nine Wastewater treatment and storage projects totaling approximately \$300M

As of May 2009, there are 42 projects under design and/or construction. The total construction value of these 42 projects is \$613M.

Communication with the Community is a Priority

May 12, 2009 marked the start of construction for the Immediate Action Plan (IAP) Combined projects at the South Wastewater Treatment Plant (SWWTP). Mayor-President Melvin L. "Kip" Holden hosted the groundbreaking ceremony commemorating the 12th project to start construction under the SSO Program. "The start of the IAP Combined Projects signifies an important step in the direction of progress and compliance for our city-parish," said Mayor-President Holden. "Once complete, the South Wastewater Treatment

Plant will not only meet the EPA Consent Decree requirements, but will help put our city-parish on track in making major improvements to improve the quality of life in South Baton Rouge."

FOR IMMEDIATE RELEASE
 For March 2, 2009

PRESS RELEASE

SANITARY SEWER OVERFLOW (SSO) PROGRAM TO HOLD GROUNDBREAKING CEREMONY AT THE SOUTH WASTEWATER TREATMENT PLANT

Baton Rouge, LA – Mayor-President Melvin L. "Kip" Holden will host a groundbreaking ceremony under the Sanitary Sewer and Overflow (SSO) Control and Wastewater Facilities Program at 10:30 a.m. on the Sanitary Sewer and Overflow (SSO) Control and Wastewater Facilities Program at 10:30 a.m. on Tuesday, May 12, 2009, marking the start of construction for the Immediate Action Plan (IAP) Combined Projects at the South Wastewater Treatment Plant (SWWTP).

"The start of the IAP Combined Projects signifies an important step in the direction of progress and compliance for our city-parish," said Mayor-President Holden. "Once complete, the South Wastewater Treatment Plant will not only meet the EPA Consent Decree requirements, but will help put our city-parish on track in making major improvements to improve the quality of life in South Baton Rouge."

The groundbreaking ceremony commemorates the twelfth project to start construction under the SSO Program, which consists of 52 projects involving rehabilitation, capacity improvements projects and programs to modernize treatment plants and facilities. The SSO projects are the first of three major improvement projects at the SWWTP and are being implemented on an expedited schedule to immediately improve plant operational and functional reliability. These improvements will accommodate future flows, and as a major component of the SSO Program, will help ensure continued and consistent compliance with the plant's effluent discharge permits.

Improvements will include:

- New chemical addition facilities and rehabilitation of existing primary settling tanks to increase removal of solids
- A new trickling filter recycle pump station to improve performance of the existing trickling filter, resulting in increased removal of dissolved organics
- Rehabilitation of existing solids handling systems to improve the handling and treatment of solids removed from the wastewater

For more information on the SSO Program, please visit the program website at www.brrprojects.com. Once complete, the SSO Program will help the city-parish meet Clean Water Act requirements and ensure a higher quality of life for all of South Baton Rouge Parish residents.

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[HTTP://WWW.BRRPROJECTS.COM](http://www.brrprojects.com)



On May 20th, the Louisiana Water Environment Federation (LWEF) held their 2009 spring technical conference at the Lod Cook Alumni Center on the LSU campus. At the request of LWEF, both DPW and CH2M HILL presented the history and status of the SSO Program as well as a technical discussion about managing wet-weather flows and meeting permitted effluent water quality standards with a reliable, robust, and easy to operate workhorse: the Trickling Filter/Solids Contact Process.



Mayor-President Kip Holden announces the start of the 12th project to start construction under the SSO Program.

David Humphreys - Photographer

IN THE SPOTLIGHT



South Wastewater Treatment Plant (SWWTP) Immediate Action Projects (IAPs)

The SWWTP is under consent decree due to NPDES permit violations related to total suspended solids (TSS) and biochemical oxygen (BOD). May 12, 2009 marked the construction groundbreaking for a number of improvement projects that will bring the SWWTP into compliance. The IAPs improvements include:

- New chemical addition facilities and rehabilitation of existing primary settling tanks to increase removal of solids;
- A new trickling filter recycle pump station to improve performance of the existing trickling filters, resulting in increased removal of dissolved organics; and
- Rehabilitation of existing solids handling systems to improve the handling and treatment of solids removed from the wastewater.

Total construction cost of the IAPs is \$25M. Construction is scheduled to continue through August 2010.

The Sanitary Sewer Overflow (SSO) Control and Wastewater Facilities Program addresses the existing EPA Consent Decree while planning for the future sewer needs of East Baton Rouge Parish. When complete, the SSO Program will help the city-parish meet Clean Water Act requirements and ensure a higher quality of life for East Baton Rouge Parish residents.



Peter Newkirk/Director of DPW

David Humphreys - Photographer



Several improvements will be made to the SWWTP



SCHEDULE

#	Project Name	DPW Project #	Design Consultant	Construction Contractor	Phase	Construction Value	Project Start	Estimated Advertise for Construction Bid	Project End
1	RMAP1 - Kleinpeter Area Upgrades	03-RMP-S14	Monroe & Corie	Allen & LeBlanc	Construction	\$324,024	2/1/2008	7/14/2008	5/8/2009
2	Jefferson Highway-Hoo Shoo Too	07-AR-US-0049	DPW	Allen & LeBlanc	Construction	\$2,239,396	5/16/2007	6/27/2008	9/22/2009
3	Gurney Road - Joor Road	07-PS-BD-0017	Neel-Schaffer	Grady Crawford	Construction	\$1,396,347	1/18/2008	8/29/2008	10/16/2009
4	Staring Lane Extension (Ph1: Burbank to Highland)	06-WC-CP-0036	Monroe & Corie	James Construction	Construction	\$4,615,500	1/11/2008	9/19/2008	8/3/2010
5	RMAP1 - PS136 Area Upgrades	99-RMP-S16	Sigma Consulting	Nottingham Construction	Construction	\$8,811,368	2/1/2008	10/24/2008	5/11/2010
6	Gardere Lane - Burbank Road	08-AR-UF-0003	CSRS, Inc.	Allen & LeBlanc	Construction	\$5,957,955	5/16/2007	11/14/2008	5/26/2010
7	RMAP1 - Industriplex Area Upgrades	99-RMP-S08	Forte & Tablada	BRH Garver	Construction	\$9,382,914	3/10/2008	10/31/2008	1/29/2010
8	Immediate Action Projects (combined)	06-WT-TP-0060	CDM / MWH / URS Corp.	Brasfield & Gorrie	Construction	\$25,632,000	11/6/2006	12/12/2008	8/2/2010
9	Comite Drive - Foster Road (Ph1)	07-PS-BD-0019	Monroe & Corie	Hemphill Construction	Construction	\$1,921,037	3/3/2008	1/16/2009	1/27/2010
10	Foster Road - Hooper Road	07-FM-BD-0046	PEC	Hemphill Construction	Construction	\$8,761,675	2/14/2008	1/9/2009	4/28/2010
11	Multiple PS - Lovett Road Area	07-PS-BD-0018	Hartman Engineering	Don M. Barron Contractor	Construction	\$2,158,346	1/17/2008	1/16/2009	2/25/2010
12	Staring Lane - Boone Drive	08-AR-UF-0004	CSRS, Inc.	Grady Crawford	Construction	\$5,426,575	11/27/2007	1/23/2009	5/10/2010
13	Comite Drive - Foster Road (Phase 2)	-	Monroe & Corie	TBA	Construction	\$2,000,000	6/23/2008	6/26/2009	6/22/2010
14	Oak Villa Blvd - Choctaw Street	08-AR-UF-0005	CSRS, Inc.	TBA	Construction	\$11,701,000	4/14/2008	5/15/2009	9/21/2010
15	NWWTP Odor Control	07-WT-TP-0030	Env. Eng Svcs	TBA	Construction	\$2,756,120	6/29/2007	5/29/2009	4/19/2010
16	Highland Road - Buchanan Street	08-GS-ST-0021	Burk-Kleinpeter/ Justice & Huang (a JV)	TBA	Design	\$2,800,000	3/13/2008	7/17/2009	10/29/2010
17	Scotland Avenue - Progress Road	09-AR-BD-0011	CSRS, Inc.	TBA	Design	\$7,400,000	9/9/2008	7/24/2009	11/4/2010
18	Citilace/Essen Lane Area - PS119	08-FM-UF-0024	GSA Consulting Engineers, Inc.	TBA	Design	\$2,800,000	2/25/2008	8/21/2009	5/5/2011
19	South Boulevard - St. Joseph Street	08-GS-ST-0018	Evans-Graves	TBA	Design	\$4,500,000	3/27/2008	9/18/2009	7/12/2011
20	Highland Road - Burbank Drive	08-FM-ST-0023	GOTECH, Inc.	TBA	Design	\$13,400,000	3/31/2008	10/1/2009	2/23/2012
21	Elm Grove Garden- Harding Blvd	09-AR-BD-0012	CSRS, Inc.	TBA	Design	\$8,600,000	10/1/2008	10/2/2009	1/13/2011
22	Sharp Road - Florida Blvd	09-AR-BD-0013	CSRS, Inc.	TBA	Design	\$8,000,000	1/15/2009	11/27/2009	3/10/2011
23	SWWTP Wet Weather Improve (Ph1)	08-TP-BD-0033	CDM	TBA	Design	\$90,000,000	6/23/2008	1/13/2010	9/12/2012
24	Kenilworth Drive - Boone Drive	09-AR-BD-0014	CSRS, Inc.	TBA	Design	\$5,400,000	3/26/2009	1/22/2010	5/6/2011
25	25th Street - North Acadian Thruway	09-GS-UF-0008	Hartman Engineering	TBA	Design	\$4,600,000	2/2/2009	1/28/2010	11/16/2011
26	Capitol Lake - Gayosa Drive	07-PS-BD-0048	Shread-Kuyrkendall & Associates, Inc.	TBA	Design	\$3,396,632	1/14/2008	1/29/2010	2/6/2011
27	Downtown Area - PS15,19, 60, 59	08-PS-ST-0056 08-PS-ST-0057	Shaw Environmental & Infrastructure, Inc.	TBA	Design	\$10,600,000	3/24/2008	1/29/2010	11/15/2011
28	South Capacity Group Project 2	08-PS-IF-0046	ABMB Eng.	TBA	Design	\$5,900,000	3/10/2008	2/19/2010	6/8/2011
29	Staring Lane Extension (Ph2: Highland to Perkins)	TBA	Monroe & Corie	TBA	Design	\$14,000,000	4/8/2008	2/26/2010	6/1/2012
30	Central Pump Station - PS 42	09-PS-UF-0003	MWH	TBA	Design	\$6,900,000	10/21/2008	3/23/2010	9/21/2012
31	North Capacity Group Project 1B	08-PS-UF-0054	Evans-Graves / Burk Kleinpeter	TBA	Design	\$13,600,000	3/10/2008	4/30/2010	10/12/2011
32	Zachary Area Transmission Network	06-WC-IF-0014	SJB/Owen & White	TBA	Design	\$58,000,000	3/24/2008	5/7/2010	4/25/2013
33	Consolidated Pump Stations	09-PS-UF-0035	TBA	TBA	Design	\$15,400,000	11/7/2008	5/14/2010	3/20/2013
34	Choctaw Storage and PS Facility	09-PS-UF-0009	CDM	TBA	Design	\$51,518,720	4/14/2008	5/28/2010	8/13/2012
35	North Capacity Group Project 1A	08-GS-UF-0053	URS Corp.	TBA	Design	\$35,100,000	3/10/2008	5/28/2010	11/1/2013
36	Consolidated FM	09-FM-UF-0033	TBA	TBA	Design	\$6,800,000	11/7/2008	6/25/2010	9/21/2012
37	Hooper Storage	09-PS-UF-0007	TRC Engineers	TBA	Design	\$16,300,000	1/19/2009	7/1/2010	1/18/2012
38	Pump Station 58A Overflow	09-PS-UF-0001	GEC	TBA	Design	\$10,900,000	1/5/2009	8/20/2010	7/18/2013
39	SWWTP Wet Weather Improve (Ph2)	08-TP-BD-0055	MWH	TBA	Design	\$90,000,000	10/14/2008	10/1/2010	2/5/2014
40	Central Consolidation- PS42 FM	09-FM-UF-0036	TBA	TBA	Design	\$16,700,000	11/7/2008	10/8/2010	9/21/2012
41	Booster PS514 Improvements	09-PS-UF-0034	TBA	TBA	Design	\$11,000,000	4/24/2009	10/29/2010	9/6/2013
42	Plank Road - Kleinpeter Road	09-GS-UF-0028	Forte & Tablada	TBA	Design	\$7,800,000	3/23/2009	4/22/2011	8/28/2013

ADVERTISED FOR CONSTRUCTION

Summaries of the four projects that were recently advertised or will be advertised for construction are:

Oak Villa Blvd – Choctaw Street: Approximately 247,000 linear feet of pipe and 990 manholes have been cleaned, inspected, and rehabilitated. Project advertised for construction bids on May 15, 2009.

North WWTP Odor Control: The project includes demolition of existing odor control equipment and installation of new odor control equipment (including biotowers, odor control fans and ductwork). Project advertised for bid on May 29th, 2009.

Comite Drive – Foster Road (Phase II): This portion of the project (Phase II) will be constructed with the Green Light Program. Project will advertise for construction bids in June 2009.

Emergency/Standby Generators: Purchasing and Installation of generators at all pump stations. Advertise for bid on June 8, 2009.

CONSTRUCTION



Twelve projects are under construction and are described as follows:

RMAP1-Kleinpeter Area Upgrades: Conducting capacity upgrades to two pump stations, including 2,000 linear feet of new 4 inch forcemain. As of May 2009, the project is 99% complete.

June 2009 will mark the completion of this project – the FIRST to finish under the SSO Program.

Jefferson Highway-Hoo Shoo Too Road: Rehabilitation of the gravity collection system, including approximately 117,110 linear feet of pipe and 553 manholes. Construction continues in the Barrett Lane area. As of May 2009, the project is 99% complete.

Gurney Road – Joor Road: Upsizing a pump station and forcemains to meet future peak wet weather flows and alleviate SSOs. As of May 2009, the project is 70% complete.

Gardere Lane – Burbank Road: Approximately 200,500 linear feet of pipe and 787 manholes will be cleaned, inspected, and rehabilitated. As of May 2009, the project continues in the Hermitage area and is 22% complete.

RMAP1 – PS136: Nine existing pump stations will be demolished and replaced with a new pump station, 2000 feet of forcemain, and 12,500 linear feet of gravity pipe. As of May 2009, the project is 21% complete.



Staring Lane Forcemain-PS58 Phase I: A new forcemain will be installed. Phase I of the project is in the Burbank Road – Highland Road area. As of May 2009, the project is 15% complete. Construction on this project is being worked in conjunction with the Greenlight Plan roadwork project.



The Staring Lane FM-PS58 Phase I project includes the largest pipe installation (65 inches diameter) by HDD in the US.

RMAP1 – Indutriplex: Six pump stations will be demolished and replaced with a new pump station and a 16 inch forcemain. As of May 2009, the project is 10% complete.

Immediate Action Projects (combined): Primary treatment, trickling filter, and sludge handling improvements to the SWWTP. As of May 2009, the project is 5% complete.

Comite Drive – Foster Road (Phase I): Three pump stations will be replaced as well as 2,000 linear feet of gravity pipe. Construction Notice to Proceed issued on May 4, 2009.

Foster Road – Hooper Road: Pipe capacity will be increased and includes approximately 32,000 feet of pipe. Construction Notice to Proceed issued on May 4, 2009.

Multiple PS – Lovett Road Area: Three pump stations and a portion of the gravity main upstream will be replaced to alleviate SSOs. Construction Notice to Proceed issued on May 4, 2009.

Staring Lane – Boone Drive: Approximately 148,000 linear feet of pipe and 657 manholes have been cleaned, inspected, and rehabilitated. Construction Notice to Proceed issued on May 4, 2009.

IT'S TOPICAL

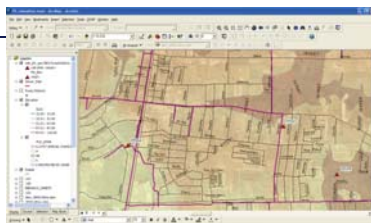
Why use GIS?

Geographical Information Systems (GIS) is the combination of hardware and software that allows for the collection, storage, manipulation, analysis, and display of geographical information in a comprehensive map format.

In the Baton Rouge sewer program, GIS provides a graphical representation of the location of the manholes, sewer pipe, pump stations, pump station service areas, and rehab and capacity areas.

In addition to that, GIS is also used to:

- Provide elevation profiles to determine pumping and flow requirements;
- Locate wetland areas;
- Identify land acquisition for capacity improvements;
- Report documentation; and
- Model and web-page mapping.



Sewer collection system map



3-D GIS map showing location of proposed storage tanks.

Looking Ahead...

Design:

Statement of Qualifications (SOQs) due to DPW

- Central Consolidation East Forcemain: June 4, 2009
- Central Consolidation PS42 Forcemain: June 4, 2009
- Booster Pump Station 514: June 4, 2009
- Central Consolidation Pump Stations: June 4, 2009

Project Informational Meetings

- Central Consolidation East Forcemain: June 11, 2009
- Central Consolidation PS42 Forcemain: June 11, 2009
- Booster Pump Station 514: June 11, 2009
- Central Consolidation Pump Stations: June 11, 2009

Select Design Consultant (SOQs)

- Central Consolidation East Forcemain: June 18, 2009
- Central Consolidation PS42 Forcemain: June 18, 2009
- Booster Pump Station 514: June 18, 2009
- Central Consolidation Pump Stations: June 18, 2009

Construction:

Pre-Bid Conferences

- Oak Villa Blvd – Choctaw Street: June 2, 2009
- NWWTP Odor Control: June 16, 2009

Construction Bids Due to DPW/Bid Opening

- Oak Villa Blvd – Choctaw Street: June 16, 2009
- NWWTP Odor Control: June 30, 2009

Advertise for Bids

- Emergency Generators: June 8, 2009
- Comite Drive – Foster Road (Phase 2): June 26, 2009

For detailed information on the projects above,
please visit the web-site at

http://www.brprojects.com/sewer/pages/contractor_calendar.htm



NEWS
DPW implemented a new
web based RFQ distribution
system. This will be used for all
services selected through the
RFQ/SOQ process.
**check out the
RFQ Manager on the
web site**

BATON ROUGE SSO PROGRAM PROCESS REPORT

MAY 2009

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