

BATON ROUGE SSO PROGRAM PROGRESS REPORT

APRIL 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.

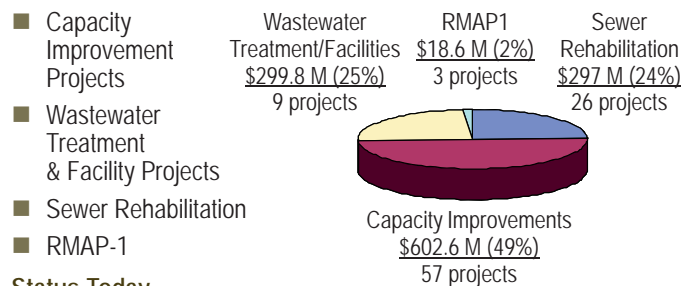
BATON ROUGE 
Program

PROGRAM MANAGEMENT

Program Background

The City of Baton Rouge/East Baton Rouge Parish (C-P) Department of Public Works implemented the Sanitary Sewer Overflow (SSO) Control and Wastewater Facilities Program in order to address existing sewer overflows and wastewater treatment challenges, while at the same time, addressing plans for future growth. This Program is a necessity, not just because it's the right thing to do for the citizens of Baton Rouge, but also because it's mandated by state and federal regulatory agencies.

There are four components to the SSO Program:



Status Today

The SSO Program entered into the 2nd Quarter of 2009 with 42 projects under design and/or construction. This represents nearly half of the program underway.

Quantity	Status	Construction Value
27	Projects under design (PDP Construction Value)	\$ 520,118,720
15	Projects under or near construction (Actual Construction Value)	\$ 93,083,656
42		\$ 613,202,376

Communication with the Community is a Priority

On April 14th, the American Society of Civil Engineers (ASCE) Baton Rouge Branch hosted their annual Louisiana Section Spring Conference. The theme of this year's conference was "Engineering Sustainable Water Resources" and included technical sessions addressing coastal protection, flood protection, drainage improvement, water quality, wastewater technology, and drinking water topics. At the request of ASCE, CH2M HILL presented the status of the SSO Program to a group of over 100 engineers and interested members of the public.

Working to Improve Treatment Efficiencies and Quality of Life

In July 2008, the C-P proposed to the EPA and LDEQ that the Central Wastewater Treatment Plant (CWWTP) be decommissioned and flows be routed to the South Wastewater Treatment Plant. After a public comment period, the proposed Agreement and Order lodged by the EPA and LDEQ regarding the Consent Decree modifications were submitted to the Department of Justice and signed into effect by the United States District Court judge on April 22, 2009. This paves the way for the closure of the CWWTP, saving approximately \$20M, eliminating one discharge permit, and improving efficiencies at the South Treatment Plant by maintaining a more constant flow throughout the system. This will also eliminate the sewer line that runs under University Lakes. The signed Consent Decree Modification also adopts the C-P's Second Remedial Measures Action Plan projects submitted in September 2008.

For more information, both the agreement and order can be found at www.brprojects.com.

IN THE SPOTLIGHT



RMAP1 – Industripex Area Upgrades

Construction of the RMAP1 Industripex Project started in April 2009 and will continue through February 2010.

The project is located in the Siegen Lane/Industripex Boulevard area and includes demolition of six existing pump stations which will be replaced with one new pump station. A new 18-inch forcemain will discharge from the new station to an existing 42-inch forcemain east of Pecue Lane. Once complete, this project will reduce pump station operation and maintenance costs and reduce odor issues associated with the existing pump stations.

Much of the new gravity forcemain is being constructed using microtunneling technology. The microtunneling process has proven extremely beneficial when installing new pipeline in areas, such as Industripex, where underground utility lines and above ground constraints make traditional open cut installations impractical.



126-inch diameter auger bit used to create the hole that the corrugated metal pipe (CMP) will be placed.



120-inch diameter CMP tunnel shaft is augered into the ground to a pre-determined depth at the RMAP1-Industripex Project. At night the area is secured for safety.



SCHEDULE

#	Project Name	Project Type	DPW Project #	Design Consultant	Construction Contractor	Value	Project Start	Phase	Project Start	Advertise for Construction Bid	Estimated Const NTP Date	Project End
1	Jefferson Highway-Hoo Shoo Too	Rehab	07-AR-US-0049	DPW	Allen & LeBlanc	\$2,239,396	5/16/2007	Construction	5/16/2007	6/27/2008	9/23/2008	9/22/2009
2	RMAP1 - Kleinpeter Area Upgrades	RMAP1	03-RMP-S14	Monroe & Corie	Allen & LeBlanc	\$324,024	2/1/2008	Construction	2/1/2008	7/14/2008	11/10/2008	5/1/2009
3	Gurney Road - Joor Road	Capacity	07-PS-BD-0017	Neel-Schaffer	Grady Crawford	\$1,396,347	1/18/2008	Construction	1/18/2008	8/29/2008	1/5/2009	10/16/2009
4	Staring Lane Extension (PhI)	Capacity	06-WC-CP-0036	Monroe & Corie	James Construction	\$4,615,500	1/11/2008	Construction	1/11/2008	9/19/2008	2/5/2009	8/3/2010
5	RMAP1 - PS136 Area Upgrades	RMAP1	99-RMP-S16	Sigma Consulting	Nottingham Construction	\$8,811,368	2/1/2008	Construction	2/1/2008	10/24/2008	2/16/2009	5/11/2010
6	Gardere Lane - Burbank Road	Rehab	08-AR-UF-0003	CSRS, Inc.	Allen & LeBlanc	\$5,957,955	5/16/2007	Construction	5/16/2007	11/14/2008	3/15/2009	5/26/2010
7	RMAP1 - Industriplex Area Upgrades	RMAP1	99-RMP-S08	Forte & Tablada	BRH Garver	\$9,382,914	3/10/2008	Construction	3/10/2008	10/31/2008	3/9/2009	1/29/2010
8	Immediate Action Projects	Treatment	06-WT-TP-0060	CDM / MWH / URS Corp.	Brasfield & Gorrie	\$25,632,000	11/6/2006	Construction	11/6/2006	12/12/2008	5/15/2009	8/2/2010
9	Comite Drive - Foster Road (Phase 1)	Capacity	07-PS-BD-0019	Monroe & Corie	Hemphill Construction	\$1,921,037	3/3/2008	Construction	3/3/2008	1/16/2009	3/15/2009	1/27/2010
10	Foster Road - Hooper Road	Capacity	07-FM-BD-0046	PEC	Hemphill Construction	\$8,761,675	2/14/2008	Construction	2/14/2008	1/9/2009	3/16/2009	4/28/2010
11	Multiple PS - Lovett Road Area	Capacity	07-PS-BD-0018	Hartman Engineering	Don M. Barron Contractor	\$2,158,346	1/17/2008	Construction	1/17/2008	1/16/2009	3/15/2009	2/25/2010
12	Staring Lane - Boone Drive	Rehab	08-AR-UF-0004	CSRS, Inc.	Grady Crawford	\$5,426,575	11/27/2007	Construction	11/27/2007	1/23/2009	5/12/2009	5/10/2010
13	Comite Drive - Foster Road (Phase 2)	Capacity	-	Monroe & Corie	TBA	\$2,000,000	6/23/2008	Construction	6/23/2008	5/8/2009	5/15/2009	6/22/2010
14	Oak Villa Blvd - Choctaw Street	Rehab	08-AR-UF-0005	CSRS, Inc.	TBA	\$-	4/14/2008	Construction	4/14/2008	5/8/2009	8/28/2009	8/25/2010
15	NWWTP Odor Control	Treatment	07-WT-TP-0030	Env. Eng Svcs	TBA	\$2,756,120	6/29/2007	Construction	6/29/2007	5/15/2009	8/4/2009	3/24/2010
16	Scotland Avenue - Progress Road	Rehab	09-AR-BD-0011	CSRS, Inc.	TBA	\$-	9/9/2008	Design	9/9/2008	7/24/2009	10/10/2009	11/4/2010
17	Highland Road - Buchanan Street	Capacity	08-GS-ST-0021	Burk-Kleinpeter/ Justice & Huang (a JV)	TBA	\$2,800,000	3/13/2008	Design	3/13/2008	7/17/2009	10/10/2009	10/29/2010
18	Citiplace/Essen Lane Area - PS119	Capacity	08-FM-UF-0024	GSA Consulting Engineers, Inc.	TBA	\$2,800,000	2/25/2008	Design	2/25/2008	8/21/2009	10/10/2009	5/5/2011
19	Capitol Lake - Gayosa Drive	Capacity	07-PS-BD-0048	Shread-Kuykendall & Associates, Inc.	TBA	\$3,396,632	1/14/2008	Design	1/14/2008	8/28/2009	10/10/2009	12/24/2010
20	Elm Grove Garden- Harding Blvd	Rehab	09-AR-BD-0012	CSRS, Inc.	TBA	\$8,600,000	10/1/2008	Design	10/1/2008	10/2/2009	10/10/2009	1/13/2011
21	South Boulevard - St. Joseph Street	Capacity	08-GS-ST-0018	Evans-Graves	TBA	\$4,500,000	3/27/2008	Design	3/27/2008	9/18/2009	10/10/2009	7/12/2011
22	Highland Road - Burbank Drive	Capacity	08-FM-ST-0023	GOTECH, Inc.	TBA	\$13,400,000	3/31/2008	Design	3/31/2008	9/18/2009	10/10/2009	2/10/2012
23	Choctaw Storage and PS Facility	Treatment	09-PS-UF-0009	CDM	TBA	\$51,518,720	4/14/2008	Design	4/14/2008	5/7/2010	10/10/2009	6/23/2012
24	SWWTP Wet Weather Improve (Ph1)	Treatment	08-TP-BD-0033	CDM	TBA	\$90,000,000	6/23/2008	Design	6/23/2008	1/8/2010	10/10/2009	9/7/2012
25	Downtown Area - PS15,19, 60, 59	Capacity	"08-PS-ST-0056 08-PS-ST-0057"	Shaw Environmental & Infrastructure, Inc.	TBA	\$10,600,000	3/24/2008	Design	3/24/2008	1/8/2010	10/10/2009	10/25/2011
26	Kenilworth Drive - Boone Drive	Rehab	09-AR-BD-0014	CSRS, Inc.	TBA	\$5,400,000	3/26/2009	Design	3/26/2009	1/22/2010	10/10/2009	5/6/2011
27	Staring Lane - PS58 Improvements (PhII)	Capacity	TBA	Monroe & Corie	TBA	\$14,000,000	4/8/2008	Design	4/8/2008	3/12/2010	10/10/2009	6/1/2012
28	South Capacity Group Project 2	Capacity	08-PS-IF-0046	ABMB Eng.	TBA	\$5,900,000	3/10/2008	Design	3/10/2008	2/26/2010	10/10/2009	6/15/2011
29	Central Pump Station - PS 42	Capacity	09-PS-UF-0003	MWH	TBA	\$6,900,000	10/21/2008	Design	10/21/2008	3/12/2010	10/10/2009	9/21/2012
30	25th Street - North Acadian Thruway	Capacity	09-GS-UF-0008	Hartman Engineering	TBA	\$4,600,000	2/2/2009	Design	2/2/2009	6/11/2010	10/10/2009	3/29/2012
31	Hooper Storage	Treatment	09-PS-UF-0007	TRC Engineers	TBA	\$16,300,000	1/19/2009	Design	1/19/2009	6/11/2010	10/10/2009	12/29/2011
32	Pump Station 58A Overflow	Capacity	09-PS-UF-0001	GEC	TBA	\$10,900,000	1/5/2009	Design	1/5/2009	7/23/2010	10/10/2009	6/20/2013
33	Zachary Area Transmission Network	Capacity	06-WC-IF-0014	SJB/Owen & White	TBA	\$58,000,000	3/24/2008	Design	3/24/2008	5/7/2010	10/10/2009	4/25/2013
34	North Capacity Group Project 1A	Capacity	08-GS-UF-0053	URS Corp.	TBA	\$35,100,000	3/10/2008	Design	3/10/2008	10/1/2010	10/10/2009	3/7/2014
35	North Capacity Group Project 1B	Capacity	08-PS-UF-0054	Evans-Graves / Burk Kleinpeter	TBA	\$13,600,000	3/10/2008	Design	3/10/2008	10/1/2010	10/10/2009	3/14/2012
36	SWWTP Wet Weather Improve (Ph2)	Treatment	08-TP-BD-0055	MWH	TBA	\$90,000,000	10/14/2008	Design	10/14/2008	10/1/2010	10/10/2009	2/5/2014
37	Plank Road - Kleinpeter Road	Capacity	09-GS-UF-0028	Forte & Tablada	TBA	\$7,800,000	3/23/2009	Design	3/23/2009	4/28/2011	10/10/2009	9/3/2013
38	Consolidated Pump Stations	Capacity	09-PS-UF-0035	TBA	TBA	\$15,400,000	11/7/2008	Design	11/7/2008	5/14/2010	10/10/2009	3/20/2013
39	Consolidated FM	Capacity	09-FM-UF-0033	TBA	TBA	\$6,800,000	11/7/2008	Design	11/7/2008	6/25/2010	10/10/2009	9/21/2012
40	Central Consolidation- PS42 FM	Capacity	09-FM-UF-0036	TBA	TBA	\$16,700,000	11/7/2008	Design	11/7/2008	10/8/2010	10/10/2009	9/21/2012
41	Booster PS 514 Improvements	Capacity	09-PS-UF-0034	TBA	TBA	\$11,000,000	4/24/2009	Design	4/24/2009	10/22/2010	10/10/2009	8/30/2013
42	Sharp Road - Florida Blvd	Rehab	09-AR-BD-0013	CSRS, Inc.	TBA	\$800,000	1/15/2009	Design	1/15/2009	11/27/2009	10/10/2009	3/10/2011



NEAR CONSTRUCTION

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

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 expected in early May 2009.

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 expected in early May 2009.

Foster Road – Hooper Road: Pipe capacity will be increased and includes approximately 32,000 feet of pipe. Construction Notice to Proceed expected in early May 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 for pipe repairs expected in early May 2009.

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

North WWTP Odor Control: The project addresses odor problems at the NWWTP. Project will advertise for construction bids in mid May 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.

CONSTRUCTION



Eight projects are under construction, and are described as follows:

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 April 2009, the project is 99% complete.

RMAP1-Kleinpeter Area Upgrades: Conducting capacity upgrades to two pump stations, including 2,000 linear feet of new 4 inch forcemain. As of April 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 April 2009, the project is 50% 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 April 2009, the project is 10% complete. Construction on this project is being worked in conjunction with the Greenlight Plan roadwork project.

Gardere Lane – Burbank Road: Approximately 200,500 linear feet of pipe and 787 manholes will be cleaned, inspected, and rehabilitated. As of April 2009, the project is 8% 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 April 2009, the project is 5% complete.

Immediate Action Projects (combined): Primary treatment, trickling filter, and sludge handling improvements to the South Wastewater Treatment Plant. Construction Notice to Proceed issued in early April 2009.

RMAP1 – Industriplex: Six pump stations will be demolished and replaced with a new pump station and a 16 inch forcemain. Construction Notice to Proceed issued in April 2009..

TECHNOLOGY FOCUS

Microtunneling is a drilling process that uses an above-ground, remote-controlled Microtunnel Boring Machine (MTBM) that uses a hydraulic jack hammer process to install underground pipes in a single drilling pass.

Microtunneling technology has advantages that offset the higher cost:

- Limited open cut construction work is required
- Surface disruption is reduced
- Allows deep installation under existing utilities
- Avoids interruption of high cost of fiber optic lines and hi-pressure gas lines
- Able to penetrate through high ground-water tables without dewatering



Lowering the MTBM into the tunnel shaft, in preparation of installing 12" clay pipe – in the Industriplex Area.



MTBM is pushing 12" heavy-wall clay pipe.

Looking Ahead...

Design

Advertise Request for Qualifications (RFQs)

- Central Consolidation – East Forcemain: May 2009
- Central Consolidation – PS42 Forcemain: May 2009
- Central Consolidation – East PS: May 2009
- Perkins Road/Dahlia Street: May 2009

Construction

Notices to Proceed

- Comite Drive – Foster Road (Phase 1): May 2009
- Foster Road – Hooper Road: May 2009
- Multiple Pump Stations – Lovett Road Area: May 2009
- Staring Lane – Boone Drive: May 2009

Advertise for Bids

- Oak Villa – Choctaw: May 2009
- NWWTP Odor Control: May 2009
- Generator Purchasing Contract: May 2009
- Comite Drive – Foster Road (Phase 2): June 2009

For detailed information on the projects above, please visit the web-site at http://www.brprojects.com/sewer/pages/contractor_calendar.htm

Coming in May!

DPW will implement a new web based RFQ distribution system. This will be used for all services selected through the RFQ/SOQ process.

Watch for details



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