

BATON ROUGE SSO

Program

Quarterly Progress Report

3rd Quarter 2017



Prepared for City of Baton Rouge/East Baton Rouge Parish
Department of Environmental Services

Prepared by CH2M in association with SIGMA Consulting Group and ILSI Engineering



The City/Parish and WEFTEC: sharing and bringing back innovative solutions

In early October 2017, Adam Smith, Chief of Operations and Maintenance for the Department of Environmental Services Wastewater Division, departed for the "Windy City", Chicago, Illinois to take part in the 3-day Water Environment Federation's Technical Exhibition and Conference (WEFTEC), which is recognized as the world's largest annual water quality technical conference and exhibition. The conference, in its 90th year, is attended by over 25,000 water and wastewater industry professionals from all over the world and hosts over 900 leading companies at the largest annual water quality exhibition in the world.

On Monday, Adam took the opportunity to tour the City of West Chicago Regional Wastewater Treatment Plant. This treatment plant, though smaller in treatment capacity than the City-Parish's plants, employs a similar treatment technology. Adam was able to visit with the Public Works Director and Operations and Maintenance (O&M) staff, exchange organizational and O&M philosophies and ideas, and walk-through the treatment facility.

Tuesday brought Adam to the McCormick Place, the largest convention center in North America. For over eight hours, Adam walked through the maze of over 900 water and wastewater technology vendors, visiting over 20 specific booths which could potentially help support the City-Parish's wastewater infrastructure, operations, and maintenance. A few of these included:

- In-system wastewater grinders for destruction of rags and wipes which are harmful to system pumps;
- Septage receiving station for the acceptance of grease trap and portable toilet waste at the wastewater treatment plants;
- Robotic pipeline assessment tools, which provide laser profile of pipe walls to determine condition and corrosion;
- Computerized Maintenance Management Software tools which allow for the work order development and tracking of preventative maintenance activities required for plant and pump station equipment; and
- Chemical odor control using hydrogen peroxide.

On Wednesday, Adam wrapped up the conference by presenting a paper, entitled Innovative Applications and Cost Effectiveness of Manhole Monitors during the Technical Session Emerging Topics and Technologies in the Collection System. Adam, along with Obie Watts and Alok Shah of CH2M, gave an audience of over 50 people insight into the successes of the City-Parish's implementation of over 40 manhole monitors throughout the collection system. For over 2 years, the City-Parish has utilized the monitors to receiving notification of overflows during rain

events, allowing for a proactive response to clean-up, early warning detection of blockages in the system to allow for crews to respond and prevent an impending overflow, and monitoring of pump stations not yet installed with SCADA to warn of pump outages so that mechanics can make repairs prior to causing back-ups.

It is this type of interaction and collaboration that makes WEFTEC such a world-class event. As you can see Adam has brought some great ideas back home and was able to share with global wastewater leaders some of the great things that we are doing in Baton Rouge.



ACTIVE PROJECTS

Construction Project Information				Consultant/Contractor			Schedule		
#	Name	Type	DES Project #	Design Consultant	Const Contractor	Total Const Contract	Start	Advertise for Bids	Ant. Funct. Complete
1	MPS-Burbank Dr-Siegen Ln	Capacity	11-PS-MS-0026	Hartman Eng.	Hemphill	\$7,666,468	4/18/11	11/14/14	9/18/17
2	O'Neal Ln PSs Improvements (Grp B)	Capacity	10-PS-MS-0051	URS Corp.	Hemphill	\$15,173,612	5/25/10	12/20/13	9/15/17
3	Sherwood Forest Blvd-Goodwood Blvd SAU	Capacity	11-FM-MS-0005	Forte & Tablada	Boone Services	\$10,586,000	1/3/11	12/18/15	12/23/17
4	Airline Hwy Pipeline Ph B	Capacity	10-GS-MS-007B	ABMB Eng.	Eutaw Const Co.	\$14,232,168	1/30/09	9/11/15	3/12/18
5	Hooper Rd Pump Stations Improvements	Capacity	10-PS-MS-0048	Stanley	Wharton-Smith, Inc.	\$12,957,610	5/3/10	5/6/16	3/25/18
6	Lovett Rd-Greenwell Springs Rd SAU	Capacity	10-FM-MS-0049	SJB/Owen & White	Grady Crawford	\$13,755,721	5/3/10	8/26/16	5/1/18
7	Joor Rd-Greenwell Springs Rd SAU	Capacity	11-FM-MS-0023	TRC Eng./Digital Eng. & Imaging	Grady Crawford	\$6,306,801	4/18/11	9/2/16	5/1/18
8	MPS-Hwy 61-Plank Rd	Capacity	11-PS-MS-0035	GEC	Wharton-Smith, Inc.	\$4,791,000	9/26/11	5/13/16	5/8/18
9	NWWTP Odor Control & Sodium Hypochlorite	MP	13-TP-MS-045A	CDM Smith	M. R. Pittman	\$9,990,000	-	12/23/16	5/8/18
10	NWWTP Sustainability Improvements	MP	13-TP-MS-0045	Buchart-Horn	Wharton-Smith, Inc.	\$4,568,300	-	9/16/16	5/13/18
11	Flannery Rd-Florida Blvd Area Rehab (Ph 2)	Rehab	14-AR-MS-0034	Rehab PgM Team	Allen & LeBlanc	\$4,568,300	6/30/14	1/20/17	6/26/18
12	MPS-Prescott Rd-Greenwell Springs Rd	Capacity	11-PS-MS-0034	MWH	McInnis Bros. Const	\$7,415,338	9/19/11	10/28/16	7/11/18
13	Florida Blvd Pump Stations Improvements	Capacity	11-PS-MS-0003	Brown & Caldwell	Wharton-Smith, Inc.	\$19,497,000	1/28/11	7/15/16	7/26/18
14	SCADA Master Plan	MP	12-PS-MS-0021	Prog. Mgmt Team	Tesco Controls, Inc.	\$17,347,171	5/13/13	6/8/12	12/31/18
15	NWWTP General Electrical Rehab	MP	13-TP-MS-045B	CDM Smith	E. P. Breaux	\$9,989,000	-	2/24/17	12/15/18
16	N 38th St-Gus Young Ave Area Rehab	Rehab	14-AR-MS-0035	Rehab PrgM Team	Magnolia	\$2,896,557	8/29/14	3/31/17	6/30/18
17	NWWTP Pretreatment & Grit Removal Rehab	MP	13-TP-MS-045D	CDM Smith	WSI	\$7,114,000	-	4/14/17	11/21/18
18	NWWTP Plantwide & Master SCADA	MP	13-TP-MS-045C	CDM Smith	QDS	\$2,290,000	-	-	6/8/18
19	NWWTP Standby Generator	MP	13-TP-MS-045E	CDM Smith	State Contract	\$2,000,000	-	-	4/28/18
19	Total Projects Under Construction					\$173,145,046			

Design Project Information				Consultant		Schedule		
#	Name	Type	DES Project #	Design Consultant	Total Const Contract	Start	Advertise for Bids	Ant. Functionally Complete
1	North WWTP Master Plan Landscape Buffer	MP	13-TP-MS-001C	Eduardo Jenkins	\$600,000	3/5/13	1/30/18	4/6/2018
1	Total Projects In Design				\$600,000			



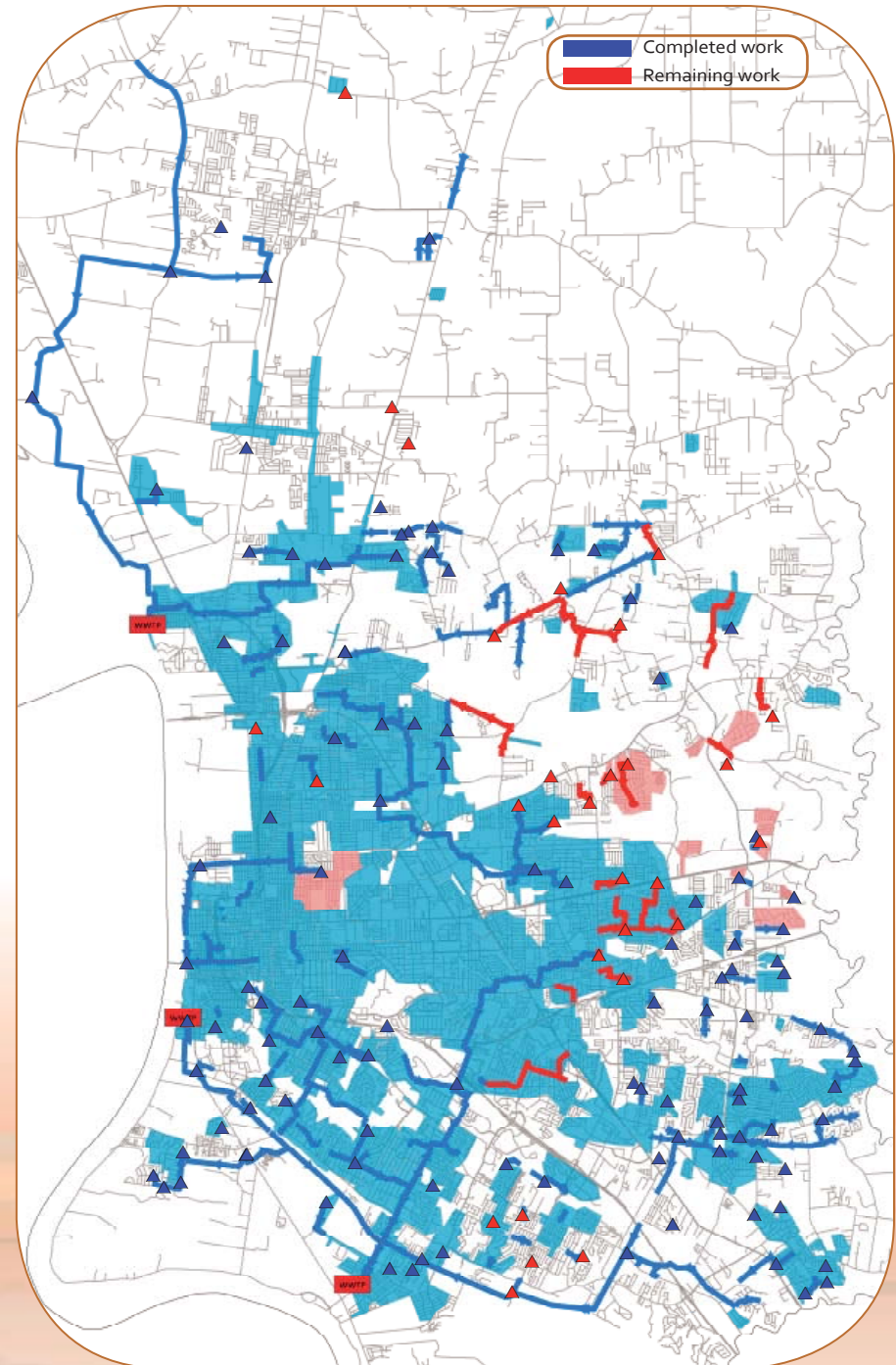
Completed Projects

95 Program projects have been completed for a construction value of over \$ 1 billion, reducing SSOs across the City/Parish. This means that 99% of projects are either completed or under construction.

The map at right shows completed projects in blue and remaining project work in red. As the projects reach completion, the remaining work will result in a functional reduction of SSOs.

Upon completion on the SSO Program's 115 projects, the system will:

- have more than 500 pump stations in operation to pump wastewater to treatment plants
- Two wastewater treatment plants to treat wastewater so that it may safely be reintroduced to the water system
- Nearly 2,000 miles of separate gravity and pressure sewer systems
- More than 28,000 inspected and rehabilitated manholes
- Ground storage facilities to store 120 million gallons of wastewater awaiting processing
- Feature odor control buffers and systems to reduce smells
- Feature improved aesthetics of sewer infrastructure through new fencing



LOOKING AHEAD...

The following projects are expected to advertise for construction bids in the coming months.

NWWTP Master Plan Landscape Buffer Area Project (13-TP-MS-0001): This project consists of designing the re-vegetation and stormwater management of 14 acres of property between the NWWTP and the residential community to the east. The landscape buffer will perform as an odor control and visual buffer for nearby residents, implement stormwater BMPs to manage stormwater on site, and establish a healthy ecosystem that promotes biodiversity and wildlife habitat.

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