

**BATON ROUGE SSO PROGRAM**  
**2002 CONSENT DECREE**



**2019 ANNUAL REPORT**

January 30, 2020



January 30, 2020

CERTIFIED – RETURN RECEIPT REQUESTED

Ms. Cheryl Seager  
Director  
Water Enforcement Branch (6EN-W)  
Compliance Assurance and Enforcement Division  
U.S. Environmental Protection Agency, Region VI  
1201 Elm Street, Suite 500  
Dallas, TX 75270-210

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, 2019

Ladies and 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, 2019. 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,



Richard Speer, P.E.  
Environmental Services Director

Cc: Honorable Sharon Weston-Broome, Mayor-President  
Mr. Daryl Gissel, Chief Administrative Officer  
Mr. Kelvin Hill, Assistant Chief Administrative Officer  
Chief, Environmental Enforcement Section, US DOJ  
Mr. Bobby Mayweather, LDEQ  
Dr. Chuck Carr Brown, LDEQ  
Ms. Mona Bates, US EPA Region 6  
Mr. Carlos Zequeira, (6RC-EA)  
Ms. Darlene Whitten-Hill, (6EN-WC)  
Mr. Anderson Dotson, III  
Mr. Bob Abott  
Mr. Adam M. Smith  
Mr. Rickey P. Brouillette  
Mr. Joseph Young, Jacobs  
Mr. Obie Watts, Jacobs  
Mr. Carlos Giron, Jacobs  
Ms. Cheryl Berry  
Mr. Stan Redmond  
Mr. Ted D. Stephens  
Mr. John Ward  
Mr. Paul Nata



DATE: January 30, 2020  
TO: Mr. Adam Smith, DES  
FROM: Ms. Daymara Mesa, Jacobs  
SUBJECT: City of Baton Rouge and Parish of East Baton Rouge  
Consent Decree-Civil Action No. 01-978-B-M3  
2019 Annual EPA Report Data Review

Mr. Smith,

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 2019 Annual EPA Report. Once the review of the data is complete and corrected, please sign below the paragraph stating that fact and return for processing.

Sincerely,  
Daymara Mesa

I certify that the information contained in or accompanying the portion of the 2019 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.

  
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cc: Document Control





DATE: January 30, 2020  
TO: Ms. Cheryl Berry, DES  
FROM: Ms. Daymara Mesa, Jacobs  
SUBJECT: City of Baton Rouge and Parish of East Baton Rouge  
Consent Decree-Civil Action No. 01-978-B-M3  
2019 Annual EPA Report Data Review

Ms. Berry,

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Sincerely,  
Daymara Mesa

I certify that the information contained in or accompanying the portion of the 2019 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.

cc: Document Control

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- A - Municipal Water Pollution Prevention Environmental Audit Reports
- B - Environmental Results Monitoring



# Baton Rouge Consent Decree 2019 Annual Report

This Annual Report for the period from January 1, 2019 to December 31, 2019 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.

During the past year, there continues to be significant progress made towards achieving Second Remedial Measures Action Plan (RMAP2) compliance and additional projects outside of the Consent Decree. By the end of 2018, the City of Baton Rouge/Parish of East Baton Rouge (City/Parish) had functionally completed all RMAP projects in accordance and in compliance with the Consent Decree 100% Milestone as shown in Tables 2, 3, and 4 of this Annual Report. Additionally, as of December 31, 2019, there have been 92 Consent Decree reporting deliverables submitted on or ahead of schedule.

## 1.1 Remedial Measures Action Plan

In 1998, the City/Parish originally developed a comprehensive Remedial Measures Action Plan (RMAP) for the collection system during consent decree negotiations, identified as Alternative 1 (the original Sanitary Sewer Overflow [SSO] Plan) in the Consent Decree. A Value Engineering (VE) study was commissioned in early 2000 to explore cost-saving alternatives. The VE study identified seven options based on the original SSO Plan for further consideration. Three of those alternatives (specifically 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 condition (2 year - 12 hour). The Composite Plan consisted of two parts: the First Remedial Measures Action Plan (RMAP1) and Second Remedial Measures Action Plan (RMAP2).

### 1.1.1 RMAP1 Summary

The First RMAP (or RMAP1), submitted on January 10, 2001, consisted of the projects that were common to all three of the 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 were a total of 19 “common” projects identified through various modeling and VE efforts associated with the original SSO Corrective Action Plan developed by MWH in 1998. These projects were common to the alternative plans presented in the Consent Decree that focused on utilizing deep tunnels/storage to control the SSOs throughout the City/Parish’s wastewater collection system. The phased implementation of these RMAP1 projects began 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; all of these projects have been completed. During the planned execution of these projects, significant events occurred with the change in technical approach of the Collection System Remedial Program and, as such, some RMAP1 projects have been affected. Any, and all, such changes have been reported in previous reports.

In 2004 and 2005, the City/Parish decided to re-evaluate the planned technical approach of their Collection System Remedial Program, while implementing RMAP1 projects. This review resulted in a consequential change in technical approach from deep tunnels and storage, to a focus on sewer rehabilitation. At that point, the original RMAP1 projects that had not begun were re-examined. Some of these projects were 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) was hired to develop an alternative plan not dependent on deep tunnels with an emphasis on rehabilitation of sewers to remove infiltration and inflow, and conveyance system improvements. CDM completed the initial conceptual reevaluation of the sewer rehabilitation plan, and CH2M HILL was later contracted to serve as the Program Manager and charged to perform a more thorough and detailed engineering

and evaluation of the revised approach. CH2M HILL is currently the City/Parish's consultant/Program Manager for the Sanitary Sewer Overflow (SSO) Control and Wastewater Facilities Program which was 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 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 the request for a time extension were verbally approved by the U.S. Environmental Protection Agency (EPA) during a conference call on February 12, 2008. Since no formal approval was granted from the EPA or Louisiana Department of Environmental Quality (LDEQ) for the RMAP1 projects that were outstanding which were highlighted in the report, the City/Parish re-submitted the revised RMAP1 milestones as outlined in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008).

In late 2008, an Agreement and Order Regarding the Modification of the Consent Decree was submitted to the court and was approved by the Department of Justice (DOJ), EPA, and LDEQ in April 2009. This approval formally accepted the RMAP1 milestones presented in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). Although with this approval a new technical approach to resolve SSOs was approved which made the old tunnel plan obsolete, the City/Parish actively progressed with the execution of the remaining RMAP1 projects included herein based on the approved revised schedule.

The status of the RMAP1 projects is presented in Table 1 and is current through December 31, 2011. As of that time, all 14 RMAP1 projects are functionally completed, and 13 of the 14 were done either on, or ahead of schedule. The RMAP1 - Industriplex Project has had several issues arise during the construction phase pertaining to: unavoidable utility conflicts, difficult easement acquisitions, alignment changes, and permitting and other utility coordination issues that have caused significant delays with the project which could not be overcome by reasonable actions by the City/Parish and its construction contractor. Therefore, this project has been functionally complete and in operation since 1<sup>st</sup> quarter 2011. The City/Parish strongly asserts that this project is not susceptible to stipulated penalties due to the circumstances of the delay beyond the control of the City/Parish. The circumstances behind the delay are explained in detail in Table 1 below, and have been also reported in previous Quarterly EPA Reports. The *RMAP1 Completion Report* is included in previously submitted/approved *2011 Annual EPA Report* in *Attachment 1: Updated Outreach and Public Awareness Plan and RMAP1 Completion Report* and can also be found attached at the end of the 36<sup>th</sup> Quarterly EPA Report.

Table 1. EPA Consent Decree RMAP1 Milestones

Milestone Date		RMAP1 Projects Completed	RMAP1 Projects Completed	Project Status Summary
		May 4, 2007	Proposed on September 1, 2008	
Construction Status		Complete	Complete	
Consent Decree Projects	Corresponding City/Parish 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)	●		
	NTSN SS Eval. Study (99-RMP-N-99)	●		

Table 1. EPA Consent Decree 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			
***N-99 North Further Investigations	**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-S01B)	●		
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)			RMAP1 project suspended. Project is included as RMAP2: Choctaw Storage.
N-13 North Choctaw Basin System	S-05 PS 58B Area Upgrades MWH RMAP2			RMAP1 project suspended. Project is included as RMAP2: Choctaw Storage PS.
N-04 PS 47 Area Upgrades	N-04 PS 47 Area Upgrades			RMAP1 project suspended. 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			RMAP1 project suspended. 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)		4 <sup>th</sup> Quarter 2008	<b>Project completed – 4<sup>th</sup> quarter 2008</b> (at 80% complete with construction). Project was 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)		4 <sup>th</sup> Quarter 2007	<b>Project completed – 4<sup>th</sup> quarter 2007.</b>
S-08 Industriplex Area Upgrades	Industriplex Area PS 355 and FM Upgrades (99-RMP-S08)		2 <sup>nd</sup> Quarter 2010	<b>Project completed – 1<sup>st</sup> quarter 2011.</b>

Table 1. EPA Consent Decree RMAP1 Milestones

		RMAP1 Projects Completed	RMAP1 Projects Completed	
Milestone Date		May 4, 2007	Proposed on September 1, 2008	
Construction Status		Complete	Complete	Project Status Summary
Consent Decree Projects	Corresponding City/Parish Projects			
S-14 Kleinpeter Area Upgrades	Kleinpeter Area Upgrades (03-RMP-S14)		2 <sup>nd</sup> Quarter 2010	<b>Project completed – 2<sup>nd</sup> quarter 2009.</b>
S-16 PS 136 Area Upgrades	PS 136 Area Upgrades (99-RMP-S16)		2 <sup>nd</sup> Quarter 2010	<b>Project completed – 2<sup>nd</sup> quarter 2010.</b>
* This project was executed as a combination of two RMAP1 projects				
** These projects were added as RMAP1 projects by the City/Parish after entry into the Consent Decree				
*** This RMAP1 project was split up into multiple projects for better execution				

### 1.1.2 RMAP2 Summary

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

The revised RMAP2, submitted by the City/Parish and CDM, had not yet been approved by the EPA and LDEQ in early 2006 when the City/Parish engaged CH2M HILL to conduct a peer review to address issues about elements of the alternative plan including an assessment of costs and schedules and a reassessment of the South Wastewater Treatment Plant (WWTP) 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 WWTP 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. Per EPA and LDEQ request, a more descriptive follow-up report entitled *Addressing Existing Noncompliance Issues and Future Wet-Weather Flow Management Requirements for the South Wastewater Treatment Plant – Summary of Findings and Recommendations* was submitted in January 2007 that specifically addressed work at the South WWTP. This report detailed the recommendations outlined in the previous Revised Second RMAP submittal in December 2006. 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 was undertaken by the City/Parish and the new Program Manager, CH2M HILL, and others in order to develop and implement a detailed RMAP2 submittal based on three (3) 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. This RMAP2 submittal outlined the projects planned to reduce or eliminate SSOs throughout the City/Parish, in addition to describing the projects planned 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 DOJ, EPA, and LDEQ for review and approval in September 2008. The proposed plan represented a substantial commitment to try to meet the original demanding schedule required by the Consent Decree (January 1, 2015). The City/Parish and CH2M HILL continually refined and performed quality control reviews of the hydraulic model of the sewer system, incorporating new information as it became available. These refinements at times technically altered some aspects of the RMAP2 projects. However, the City/Parish regularly documented all RMAP2 project changes (scope changes, project additions, and project deletions) in the Quarterly and Annual EPA Reports, with EPA and LDEQ approval.

During the review and approval process of *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 related to the Modification of the Consent Decree (Agreement and Order) was lodged with the Court on November 10, 2008. The Agreement and Order adopted 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 was consistent with current industry standards and the 2002 Consent Decree, including Section V – Objectives. The RMAP2 submittal also did not extend the schedule beyond the January 1, 2015 deadline already imposed in the Court approved 2002 Consent Decree, and adhered to Section XXXIV - Modification – Paragraph 118. The Agreement and Order was lodged with the Court for public notice and comment for a period of not less than 30 days in accordance with DOJ policy and in 28 C.F.R. § 50.7, and 45 days in accordance with the LDEQ La. R.S. 30:2050.7. The City/Parish was e-mailed two public comments received by the DOJ in regards to the Agreement and Order on January 5, 2009.

Soon thereafter, the City/Parish and CH2M HILL developed a 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 included the City/Parish's response to the two public comments received by the DOJ on December 17, 2008 from Mr. Steve Irving and Ms. Kathryn Lewis. The memorandum was initially submitted on January 23, 2009, was later updated based on comments received by DOJ, and was eventually submitted as a final version of the memorandum on February 27, 2009. The City/Parish believed that it provided a comprehensive response to the public comments received and highlighted the extensive progress that had been achieved to date associated with the Consent Decree. Additionally, many actions to address the concerns expressed in the public comments received were already either completed or in progress at the time. The City/Parish requested at the time that the Court timely approve the modification, as the City/Parish had multiple projects that were currently ready to begin design as soon as the Consent Decree modification was approved. On April 22, 2009, the DOJ, EPA, and LDEQ approved the Agreement and Order which specifically adopts the City/Parish's *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008).

Once the agreement was approved, the City/Parish began implementation of the projects included in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). However, in early 2011 the City/Parish began realizing effects of an extremely compressed compliance schedule, as well as concerns with affordability issues emerging with executing over \$1 billion in projects in less than 6 years (which was the time left in the original compliance schedule required from 2002).

Additionally, there were numerous force majeure events that affected the City/Parish. These events took time away from normal operations and adversely affected the implementation schedule. Therefore, in July 2011, the City/Parish

decided to submit a request for time extension (3 years), *2011 Request for Time Extension/Modification of the Compliance Schedule in the Approved RMAP2 Submittal*, for the RMAP2 projects listed in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). Shortly after its submission, the City/Parish started incorporating some schedule modifications to take into account the proposed changes included in the request for time extension (3 year extension request) in anticipation of its quick approval.

However, during many discussions with DOJ, EPA, and LDEQ it was eventually agreed that the City/Parish submit a revised request for time extension (4 years) for the RMAP2 projects listed in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). One of the reasons for this request was for the City/Parish to accelerate the schedule of several “additional projects” (described later in this report in *Section 1.3 Additional Projects Outside of the Consent Decree*) that were planned throughout the City/Parish once all the RMAP2 projects were completed. The 4-year extension request was eventually submitted on October 23, 2012 and was included in the document titled *Modified Request for Time Extension/Modification of the Compliance Schedule in the Approved RMAP2 Submittal*. The City/Parish’s updated request for time extension (4 years) for the RMAP2 project was signed/formalized by DOJ/EPA/LDEQ on June 18, 2013. The City/Parish incorporated schedule modifications in tables 2, 3 and 4 below that take into account any changes included in the approved 4-year request for time extension in 2013.

As of December 31, 2018, the City/Parish was able to successfully functionally complete all RMAP2 construction included herein, as outlined in the April 2009 Consent Decree Modification by DOJ, EPA, and LDEQ that adopts the corresponding *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). The City/Parish was able to successfully adhere to the revised compliance schedule approved in the (June 2013) Revised Second Consent Decree Modification by DOJ, EPA, and LDEQ which formally approves the City/Parish’s 4-year extension request which was the focus of the *Modified Request for Time Extension/Modification of the Compliance Schedule in the Approved RMAP2 Submittal* (October 2012).

As previously mentioned, as of December 31, 2018 all one hundred and fifteen (115) projects are functionally completed.

Force majeure events in past years (including Hurricanes Katrina, Rita, and Gustav, the Gulf of Mexico oil spill, 2011 Mississippi River flood, Tropical Storm Lee, Hurricane Isaac, the Great Flood of 2016, and other extreme storm events) significantly impacted not only project costs, but also contractor availability and project schedules. The Consent Decree schedule was very demanding, and the time from these force majeure events greatly affected the program. The City/Parish was nonetheless able to meet the 100% milestone and keeps track of these events and their potential effect on other Consent Decree elements’ schedule and compliance.

Periodically, the City/Parish and CH2M HILL re-evaluated projects as a part of the Program Delivery Plan Update (PDP Update), or Project Value Engineering (VE) analysis. Including a continual refinement and quality control review of the hydraulic model of the sewer system, and all necessary modifications of the model incorporating new information as it became available. These on-going refinements in the past slightly altered some of the RMAP2 projects to improve their effectiveness, or to help streamline construction activities, etc. With EPA and LDEQ approval, the City/Parish regularly documented all RMAP2 project changes (scope changes, project additions, project deletions, project merging, name changes, and schedule changes) that were made in the annual PDP Updates, Project VE, and in the Quarterly and Annual EPA Reports. Tables 2, 3, and 4 reflect the changes associated with those efforts.

The RMAP2 projects are separated into three categories with descriptions and schedules provided for all projects, current through December 31, 2018.

#### 1.1.2.1 Category 1: Comprehensive Sewer Basin Rehabilitation

Based on sewer system digital model analysis and flow monitoring, 26 sub-basins within the collection system required comprehensive rehabilitation. Sewer system comprehensive rehabilitation projects were implemented to repair or replace components of the system that were defective and could permit excessive infiltration and inflow.

Table 2 presents the Category 1 comprehensive rehabilitation sub-basin projects and their met delivery milestone schedules. Pump station improvements are included in the projects listed in Category 2, Pump Station and Transmission Improvements in Table 3 on the following pages.

**Table 2. EPA Consent Decree RMAP 2 Milestones for Category 1 Projects**

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	1 <sup>st</sup> QTR 2013	2 <sup>nd</sup> QTR 2015	4 <sup>th</sup> QTR 2018	Project Status Summaries
Construction Status	Functionally Complete*	Functionally Complete*	Functionally Complete*	
Jefferson Hwy – HooShooToo Road	●			Project completed – 3 <sup>rd</sup> quarter 2009.
Staring Lane – Boone Drive Area Rehabilitation Project	●			Project completed – 2 <sup>nd</sup> quarter 2010.
Burbank Drive – Gardere Lane Area Rehabilitation Project	●			Project completed – 1 <sup>st</sup> quarter 2011.
Oak Villa – Choctaw Street Area Rehabilitation Project	●			Project completed – 3 <sup>rd</sup> quarter 2011.
Scotland Avenue – Progress Road Area Rehabilitation Project	●			Project completed – 2 <sup>nd</sup> quarter 2011.
Elm Grove Garden Road – Harding Boulevard Area Rehabilitation Project	●			Project completed – 3 <sup>rd</sup> quarter 2011.
Sharp Road – Florida Boulevard Area Rehabilitation Project	●			Project completed – 3 <sup>rd</sup> quarter 2012.
Kenilworth Boulevard – Boone Drive Area Rehabilitation Project	●			Project completed – 3 <sup>rd</sup> quarter 2012.
Foster Drive - Government Street Area Rehabilitation Project Phase A	●			Project completed – 4 <sup>th</sup> quarter 2011.
Foster Drive - Government Street Area Rehabilitation Project Phase B	●			Project completed – 3 <sup>rd</sup> quarter 2012.
Silverleaf Road – Ford Street Area Rehabilitation Project	●			Project completed – 4 <sup>th</sup> quarter 2012.
Brookstown Road - Evangeline Street Phase I Area Rehabilitation Project	●			Project completed – 4 <sup>th</sup> quarter 2012.
Brookstown Road – Evangeline Street Phase II Area Rehabilitation Project	●			Project completed – 4 <sup>th</sup> quarter 2012.
Bluebonnet Blvd – Jefferson Hwy Phase I Area Rehabilitation Project		●		Project completed – 4 <sup>th</sup> quarter 2012.
Bluebonnet Blvd – Jefferson Hwy Phase II Area Rehabilitation Project		●		Project completed – 1 <sup>st</sup> quarter 2013.
Highland Road – Washington Street Area Rehabilitation Project		●		Project completed – 3 <sup>rd</sup> quarter 2013.
Stanford Avenue – Morning Glory Road Area Rehabilitation Project	●			Project completed – 4 <sup>th</sup> quarter 2012.
Airline Highway – Goodwood Blvd Phase I Area Rehabilitation Project		●		Project completed – 3 <sup>rd</sup> quarter 2014.
Airline Highway – Goodwood Blvd Phase II Area Rehabilitation Project		●		Project completed – 2 <sup>nd</sup> quarter 2015.
Acadian Thruway – Claycut Road Area Rehabilitation Project		●		Project completed – 1 <sup>st</sup> quarter 2013.
Acadian Thruway – Perkins Road Area Rehabilitation Project	●			Project completed – 4 <sup>th</sup> quarter 2012.

**Table 2. EPA Consent Decree RMAP 2 Milestones for Category 1 Projects**

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	1 <sup>st</sup> QTR 2013	2 <sup>nd</sup> QTR 2015	4 <sup>th</sup> QTR 2018	Project Status Summaries
Construction Status	Functionally Complete*	Functionally Complete*	Functionally Complete*	
Antioch Road – Chadsford Drive Area Rehabilitation Project		●		Project completed – 2 <sup>nd</sup> quarter 2015.
Jones Creek Road – Tiger Bend Road Area Rehabilitation Project			●	Project completed – 1 <sup>st</sup> quarter 2016.
Scenic Highway – Spanish Town Road Phase I Area Rehabilitation Project		●		Project completed – 2 <sup>nd</sup> quarter 2015.
Scenic Highway – Spanish Town Road Phase II Area Rehabilitation Project			●	Project completed – 2 <sup>nd</sup> quarter 2016.
Siegen Lane – Interstate 10 Area Rehabilitation Project			●	Project completed – 2 <sup>nd</sup> quarter 2017.
Interstate 110 – Hollywood Street Area Rehabilitation Project			●	Project completed – 3 <sup>rd</sup> quarter 2015.
Ardenwood Drive – Winbourne Street Area Rehabilitation Project			●	Project completed – 3 <sup>rd</sup> quarter 2016.
Flannery Road – Florida Boulevard Phase I Area Rehabilitation Project			●	Project completed – 3 <sup>rd</sup> quarter 2017.
Flannery Road – Florida Boulevard Phase II Area Rehabilitation Project			●	Project completed – 4 <sup>th</sup> quarter 2018.
East Boulevard – Government Street Area Rehabilitation Project			●	Project completed – 3 <sup>rd</sup> quarter 2017.
North 38 <sup>th</sup> Street – Gus Young Avenue Area Rehabilitation Project			●	Project completed – 3 <sup>rd</sup> quarter 2018.

\*A project is deemed “Functionally Complete” when a project has been constructed in accordance with the engineering and operation specifications and has been tested to function as required. The definition functionally complete may or may not mean that the asset has been put into service as designed. Further definition can be found within Quarterly Report #56.

### 1.1.2.2 Category 2: Pump Station and Transmission Improvements

The Infoworks digital wastewater model was used to identify necessary increases in the capacity of existing gravity trunk sewers, pump stations, and transmission mains to accommodate peak wastewater flows remaining in the rehabilitated collection system. Table 3 presents a list of Category 2 projects with corresponding met milestone schedules, current through December 31, 2019.

**Table 3. EPA Consent Decree RMAP2 Milestones for Category 2 Projects**

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	1 <sup>st</sup> QTR 2013	2 <sup>nd</sup> QTR 2015	4 <sup>th</sup> QTR 2018	Project Status Summaries
Construction Status	Functionally Complete*	Functionally Complete*	Functionally Complete*	
<b>Project Descriptions RMAP2 Projects</b>				
Capitol Lake – Gayosa Street Area Capacity Improvements	●			Project completed - 2 <sup>nd</sup> quarter 2012.
Gurney Road - Joor Road	●			Project completed - 4 <sup>th</sup> quarter 2009.

**Table 3. EPA Consent Decree RMAP2 Milestones for Category 2 Projects**

	<b>33% Milestone</b>	<b>66% Milestone</b>	<b>100% Milestone</b>	
<b>Milestone Date</b>	<b>1<sup>st</sup> QTR 2013</b>	<b>2<sup>nd</sup> QTR 2015</b>	<b>4<sup>th</sup> QTR 2018</b>	<b>Project Status Summaries</b>
<b>Construction Status</b>	<b>Functionally Complete*</b>	<b>Functionally Complete*</b>	<b>Functionally Complete*</b>	
Sullivan Rd./Lovett Rd./Wax Rd. Sewer Upgrades	●			<b>Project completed - 1<sup>st</sup> quarter 2011.</b>
Comite Road – Foster Road Sewer Area Upgrades - Phase I	●			<b>Project completed - 2<sup>nd</sup> quarter 2010.</b>
Foster Road – Hooper Road Sewer Area Upgrade	●			<b>Project completed - 4<sup>th</sup> quarter 2010.</b>
Zachary Area Transmission Network Improvements Phase I - 3 Pump Stations and Equalization Basin		●		<b>Project completed - 1<sup>st</sup> quarter 2013.</b>
Zachary Area Transmission Network Improvements Phase II – Red Mud Lakes Forcemain to NWWTP		●		<b>Project completed – 2<sup>nd</sup> quarter 2016.</b>
Zachary Area Transmission Network Improvements Phase III – Forcemain to Highway 964 to Red Mud Lakes		●		<b>Project completed - 4<sup>th</sup> quarter 2014.</b>
Zachary Area Transmission Network Improvements Phase IV – Zachary Improvements		●		<b>Project completed - 4<sup>th</sup> quarter 2011.</b>
Zachary Area Transmission Network Improvements Phase V – Zachary Improvements			●	<b>Project completed – 1<sup>st</sup> quarter 2017.</b>
South Boulevard – St. Joseph Street Sewer Area Upgrades	●			<b>Project completed – 2<sup>nd</sup> quarter 2012.</b>
South Boulevard – St. Joseph Street Sewer Area Upgrades – Phase B			●	<b>Project completed – 3<sup>rd</sup> quarter 2017.</b>
Downtown Area Pump Station Improvements		●		<b>Project completed - 2<sup>nd</sup> quarter 2012.</b>
Highland Road – Buchanan Street Sewer Area Upgrades	●			<b>Project completed - 4<sup>th</sup> quarter 2011.</b>
Citiplace/Essen Area - PS119 & Forcemain Improvements	●			<b>Project completed – 3<sup>rd</sup> quarter 2012.</b>
Group Project 1A (Metro Airport Sewer Upgrades)		●		<b>Project completed - 2<sup>nd</sup> quarter 2013.</b>
Group Project 1B (Metro Airport Sewer Area Pump Station & Forcemain Upgrades)		●		<b>Project completed - 1<sup>st</sup> quarter 2016.</b>
Perkins/Old Perkins Area - Booster PS 514 Improvements		●		<b>Project completed - 2<sup>nd</sup> quarter 2013.</b>
Group Project 2 (Old Perkins – Highland Road Area Upgrades)	●			<b>Project completed - 2<sup>nd</sup> quarter 2012.</b>

**Table 3. EPA Consent Decree RMAP2 Milestones for Category 2 Projects**

	<b>33% Milestone</b>	<b>66% Milestone</b>	<b>100% Milestone</b>	
<b>Milestone Date</b>	<b>1<sup>st</sup> QTR 2013</b>	<b>2<sup>nd</sup> QTR 2015</b>	<b>4<sup>th</sup> QTR 2018</b>	<b>Project Status Summaries</b>
<b>Construction Status</b>	<b>Functionally Complete*</b>	<b>Functionally Complete*</b>	<b>Functionally Complete*</b>	
Highland Road – Burbank Drive Capacity Improvements		●		<b>Project completed – 4<sup>th</sup> quarter 2016.</b>
Nicholson Drive – Highland Road – Perkins Road Capacity Improvements Phase A		●		<b>Project completed - 1<sup>st</sup> quarter 2012.</b>
Nicholson Drive – Highland Road – Perkins Road Capacity Improvements Phase B		●		<b>Project completed - 1<sup>st</sup> quarter 2015.</b>
Bayou Duplantier Area Sewer Upgrades		●		<b>Project completed - 3<sup>rd</sup> quarter 2013.</b>
25th Street - North Acadian Thruway	●			Improvements designed under this project were constructed as part of the Capital Lake-Gayosa Drive Project and the South Blvd.-Saint Joseph Street Project. Please see status updates for the two projects mentioned in this table above.
Government St - South Acadian Thruway Sewer Area Upgrades			●	<b>Project completed - 1<sup>st</sup> quarter 2016.</b>
Plank Road – Kleinpeter Road Sewer Area Upgrades		●		<b>Project completed - 1<sup>st</sup> quarter 2016.</b>
O’Neal Lane Pipeline Improvements – Group A		●		<b>Project completed - 4<sup>th</sup> quarter 2014.</b>
O’Neal Lane Pipeline Improvements – Group B		●		<b>Project completed - 2<sup>nd</sup> quarter 2015.</b>
Multiple PS - Nicholson Dr - Brightside Dr		●		<b>Project completed - 2<sup>nd</sup> quarter 2015.</b>
Pump Station 58 Capacity Improvements		●		<b>Project completed - 1<sup>st</sup> quarter 2015.</b>
Staring Lane FM (Phase I - Burbank Drive to Highland Road)	●			<b>Project completed - 2<sup>nd</sup> quarter 2010.</b>
Staring Lane FM (Phase II - Highland road to Perkins Road)		●		<b>Project completed - 4<sup>th</sup> quarter 2013.</b>
Staring Lane FM (Phase III - Perkins to PS58)		●		<b>Project completed - 3<sup>rd</sup> quarter 2014.</b>
Multiple PS - Jefferson Hwy - Park Forest Dr		●		<b>Project completed - 3<sup>rd</sup> quarter 2012.</b>
Airline Highway Pipeline Improvements- Phase A			●	<b>Project completed - 3<sup>rd</sup> quarter 2017.</b>
Airline Highway Pipeline Improvements- Phase B			●	<b>Project completed – 3<sup>rd</sup> quarter 2018.</b>
Multiple PS - Highland Road - Kenilworth Parkway			●	<b>Project completed – 2<sup>nd</sup> quarter 2017.</b>

**Table 3. EPA Consent Decree RMAP2 Milestones for Category 2 Projects**

	<b>33% Milestone</b>	<b>66% Milestone</b>	<b>100% Milestone</b>	
<b>Milestone Date</b>	<b>1<sup>st</sup> QTR 2013</b>	<b>2<sup>nd</sup> QTR 2015</b>	<b>4<sup>th</sup> QTR 2018</b>	<b>Project Status Summaries</b>
<b>Construction Status</b>	<b>Functionally Complete*</b>	<b>Functionally Complete*</b>	<b>Functionally Complete*</b>	
Florida Boulevard Pump Station Improvements			●	Project completed – 4 <sup>th</sup> quarter 2018.
Plank Road Pump Station Improvements			●	Project completed – 1 <sup>st</sup> quarter 2017.
Multiple PS - Highway 61 - Plank Road			●	Project completed – 2 <sup>nd</sup> quarter 2018.
O'Neal Lane Pump Station Improvements – Group A			●	Project completed – 2 <sup>nd</sup> quarter 2017.
O'Neal Lane Pump Station Improvements – Group B			●	Project completed – 4 <sup>th</sup> quarter 2017.
Sherwood Forest Blvd – Goodwood Blvd Pipeline Improvements			●	Project completed – 1 <sup>st</sup> quarter 2018.
Joor Road - Greenwell Springs Road Sewer Area Upgrades			●	Project completed – 3 <sup>rd</sup> quarter 2018.
Plank Road - Port Hudson Pride Road Sewer Area Upgrades			●	Project completed - 3 <sup>rd</sup> quarter 2015.
Highland Road Pipeline Improvements - Group A			●	Project completed - 3 <sup>rd</sup> quarter 2016.
Highland Road Pipeline Improvements - Group B			●	Project completed – 2 <sup>nd</sup> quarter 2017.
Oak Villa Boulevard - Monterrey Boulevard Sewer Area Upgrades			●	Project completed – 2 <sup>nd</sup> quarter 2017.
Lovett Road – Greenwell Springs Road Sewer Area Upgrades			●	Project completed – 4 <sup>th</sup> quarter 2018.
Hooper Road Pump Station Improvements			●	Project completed – 3 <sup>rd</sup> quarter 2018.
Multiple PS - Prescott Rd - Greenwell Springs Rd			●	Project completed – 4 <sup>th</sup> quarter 2018.
Multiple PS - Burbank Drive - Siegen Lane			●	Project completed – 4 <sup>th</sup> quarter 2017.
Pump Station 42 Improvements		●		Project completed - 1 <sup>st</sup> quarter 2016.
Pump Station 42 Forcemain - Phase I		●		Project complete - 3 <sup>rd</sup> quarter 2014.
Pump Station 42 Forcemain - Phase II		●		Project complete - 2 <sup>nd</sup> quarter 2014.
Central Consolidated Pump Stations		●		Project complete - 4 <sup>th</sup> quarter 2014.
Central Consolidated Force mains-Phase I		●		Project complete - 3 <sup>rd</sup> quarter 2013.
Central Consolidated Force mains-Phase II		●		Project complete - 3 <sup>rd</sup> quarter 2014.

Table 3. EPA Consent Decree RMAP2 Milestones for Category 2 Projects

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	1 <sup>st</sup> QTR 2013	2 <sup>nd</sup> QTR 2015	4 <sup>th</sup> QTR 2018	Project Status Summaries
Construction Status	Functionally Complete*	Functionally Complete*	Functionally Complete*	

\*A project is deemed "Functionally Complete" when a project has been constructed in accordance with the engineering and operation specifications and has been tested to function as required. The definition functionally complete may or may not mean that the asset has been put into service as designed. Further definition can be found within Quarterly Report #56.

### 1.1.2.3 Category 3: Wastewater Treatment and Storage

This category of projects includes improvements at the City/Parish WWTPs, as well as storage facilities throughout the service area. There are not any RMAP2 projects that were identified at the North WWTP, but several projects were completed by the City/Parish to improve plant performance and odor control. Based on extensive evaluations in the *Draft Wastewater Master Plan* (May 2008), the existing Central WWTP had insufficient flows to justify the cost of renovation and upgrading for future requirements and was retired when the RMAP2 projects at the South WWTP were completed. Flows predicted for the current central service area were diverted to the South WWTP and adjustments were made in the South WWTP improvements to handle the increased flows.

Summaries of the WWTP projects that were part of RMAP2 submittal are described below.

- The Immediate Action Plan (IAP) South WWTP Project included screening, trickling filter recirculation pumping, primary treatment improvements, and bio-solids thickening improvements. Note that this project was made up of three separate projects that were grouped together for ease of execution and construction coordination. Also note that the effluent pumping IAP project has been completed.
- Phase 1 Improvements at the South WWTP for Wet Weather Flow included influent pumping, and screening and grit removal for a predicted flow of 345 million gallons per day (MGD). Phase 1 also included 66 million gallons of equalization storage at the South WWTP.
- Phase 2 Improvements at the South WWTP included wet weather flow treatment with a peak capacity of 205 MGD (as previously approved in the November 2006 RMAP2).

In addition, there were storage projects sized to reduce peak flows to existing treatment plants that are also a part of this RMAP2 submittal and are listed as follows and described in Table 4.

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

These storage projects are part of the transmission system that allows for retaining (storage) of peak wet weather flows and permits that stored flow is later released for treatment at the treatment plant. All projects of this type are completed. The details of the wastewater treatment and storage projects are listed in Table 4 below and are current through December 31, 2018.

Table 4. EPA Consent Decree RMAP2 Milestones for Category 3 Projects

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	1 <sup>st</sup> QTR 2013	2 <sup>nd</sup> QTR 2015	4 <sup>th</sup> QTR 2018	Project Status Summaries
Construction Status	Functionally Complete*	Functionally Complete*	Functionally Complete*	
Choctaw Storage and Pump Station Facility		●		Project completed – 3 <sup>rd</sup> quarter 2013.
Hooper Storage Facility		●		Project completed – 2 <sup>nd</sup> quarter 2016.



<b>South WWTP IAP (Consolidated – Screening, Primary Treatment, Trickling Filter Recirculation, Sludge Handling)</b>	●	<b>Project completed - 2<sup>nd</sup> quarter 2011.</b>
<b>South WWTP IAP (Effluent Pumping Improvements)</b>	●	<b>Project completed - 1<sup>st</sup> quarter 2008.</b>
<b>SWWTP Wet Weather Improvements - Phase I</b>	●	<b>Project completed - 2<sup>nd</sup> quarter 2013.</b>
<b>SWWTP Wet Weather Improvements - Phase II (PDP portion)</b>	●	<b>Project completed - 2<sup>nd</sup> quarter 2015.</b>

\*A project is deemed “Functionally Complete” when a project has been constructed in accordance with the engineering and operation specifications and has been tested to function as required. The definition functionally complete may or may not mean that the asset has been put into service as designed. Further definition can be found within Quarterly Report #56.

### 1.1.3 Additional Projects Outside of Consent Decree

This category of projects is composed of several additional projects the City/Parish agreed to implement that were not included/tracked by the RMAP2 Consent Decree Compliance Schedule, and specifically includes wet weather improvements at the City/Parish wastewater treatment plants (WWTPs), as well as storage facilities throughout the service area. These projects greatly improved the operation and maintenance of the wastewater collection system, WWTPs, and storage facilities. Specifically included in this group of projects are both the SCADA Project and the Standby Power Program, which helped to optimize the overall operation of the treatment facilities and pump stations, while minimizing risks associated with SSOs. All of these additional projects are summarized below and completed project statuses are provided in Table 5.

As mentioned in the 2017 Annual Report, the North WWTP improvements project was bid as one project-- North WWTP Master Plan & Sustainability Improvements Project. However, bids received for the project were 35% over available funds and therefore value engineering was used to break the project into several projects, all of which are completed, as listed below in Table 5.

**Table 5. Proposed Schedule for Projects Outside of Consent Decree**

	<b>Scheduled Start</b>	<b>Scheduled Finish</b>	<b>Project Status Summary</b>
NWWTP Plantwide & Master SCADA Project	Complete	Complete	<b>Project completed – 4<sup>th</sup> quarter 2018.</b>
NWWTP Standby Generator Project	Complete	Complete	<b>Project completed – 4<sup>th</sup> quarter 2018.</b>
NWWTP Pretreatment & Grit Removal Rehabilitation Project	Complete	Complete	<b>Project completed – 4<sup>th</sup> quarter 2018.</b>
NWWTP General Electrical Rehabilitation Project	Complete	Complete	<b>Project completed – 4<sup>th</sup> quarter 2018.</b>
NWWTP Odor Control & Sodium Hypochlorite Project	Complete	Complete	<b>Project completed – 4<sup>th</sup> quarter 2018.</b>
North WWTP Sustainability Improvements Project	Complete	Complete	<b>Project completed – 3<sup>rd</sup> quarter 2018.</b>
NWWTP Master Plan Project #3 (Public Project) – Plant Buffer	Complete	Complete	<b>Project completed – 3<sup>rd</sup> quarter 2018.</b>
SWWTP Wet Weather Improvements – Phase II (Master Plan portion)	Complete	Complete	<b>Project completed – 2<sup>nd</sup> quarter 2015.</b>
Sewer System and WWTP Stand-by Power Program	Complete	Complete	<b>Project completed – 4<sup>th</sup> quarter 2018.</b>

Table 5. Proposed Schedule for Projects Outside of Consent Decree

	Scheduled Start	Scheduled Finish	Project Status Summary
SCADA (Collection System, Operations Data and Control Center)	Complete	Complete	<b>Project completed – 4<sup>th</sup> quarter 2018.</b>
Environmental Services Facility	Complete	Complete	<b>Project completed – 2<sup>nd</sup> quarter 2017.</b> (DES consolidated staff into one facility to facilitate communications and operations.)
NWWTP Odor Control Project	Complete	Complete	<b>Project completed – 4<sup>th</sup> quarter 2010.</b>
Comite –Foster Road Sewer Area Upgrades - Phase II	Complete	Complete	<b>Project completed – 1<sup>st</sup> quarter 2011.</b>
Zachary Area Transmission Network Improvements Phase V – Zachary Improvements	Complete	Complete	Project moved into RMAP2. See Table 5 for project status update
South Boulevard – Saint Joseph Street Phase B	Complete	Complete	Project moved into RMAP2. See Table 5 for project status update
Central WWTP Decommissioning Project	Complete	Complete	<b>Project completed – 2<sup>nd</sup> quarter 2017.</b> <b>(Central WWTP decommissioned 3<sup>rd</sup> quarter 2016; permit discontinued 2<sup>nd</sup> quarter 2017.)</b>
Ward Creek Aerial Crossing Replacement Emergency Project	Complete	Complete	<b>Project completed – 3<sup>rd</sup> quarter 2015.</b>
South Basin Coordination Project	Complete	Complete	<b>Project completed – 4<sup>th</sup> quarter 2016.</b>
South WWTP Landscape Buffer Area	Complete	Complete	<b>Project completed – 2<sup>nd</sup> quarter 2016.</b>

### 1.1.4 Infiltration and Inflow 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 and South WWTP collection systems. The City/Parish spent approximately \$10.63 million, therefore this goal was exceeded during 2019. The City/Parish was in compliance with Section XII Collection System Remedial Program during this reporting period. 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 6 identifies the funds expended during 2019 to meet this requirement.

Table 6. I/I Reduction Activities Summary

Project	Description	% Complete	Contract Amount	Expenditures 2019
18-MH-UF-0001	Manhole Rehabilitation Contract - Year 1	89%	\$1,500,000.00	\$1,339,344.86
19-MH-UF-0010	Manhole Rehabilitation Contract - Year 1	35%	\$1,500,000.00	\$522,091.00
19-PI-MS-0003	Sewer Physical Inspection Contract	100%	\$4,850,000.00	\$4,850,000.00
16-CP-MS-0010	Annual Cured-In-Place Lining - Year 2	59%	\$1,989,945.00	\$1,178,250.20
16-CP-MS-0010	Annual Cured-In-Place Lining - Year 3	9%	\$1,989,945.00	\$168,120.50

Project	Description	% Complete	Contract Amount	Expenditures 2019
17-PN-MS-0016	Supplemental Parishwide Sewer Repair and Replacement Project - Year 2	32%	\$1,583,625.05	\$498,767.43
17-PN-MS-0016	Supplemental Parishwide Sewer Repair and Replacement Project - Year 3	23%	\$1,583,625.05	\$362,363.05
17-PN-MS-0015	Annual Parishwide Sewer Repair and Replacement Project - Year 2	22%	\$2,621,733.83	\$571,871.11
17-PN-MS-0015	Annual Parishwide Sewer Repair and Replacement Project - Year 3	32%	\$1,818,505.00	\$581,872.50
19-ER-WC-0006	Parishwide Sewer Emergency Repair - Year 1	28%	\$2,000,000.00	\$566,304.79
<b>TOTAL</b>			<b>\$21,437,378.93</b>	<b>\$10,638,985.44</b>

## 1.2 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 WWTPs. The City/Parish submitted *Treatment Facility Assessment Report* on March 26, 2002 in conjunction with MWH. It was determined in the original *Treatment Facility Assessment Report* that all process units and conveyance elements had capacity for current and projected design flows at all three WWTPs and no WWTP facility improvements or expansion were required. The *Treatment Facility Assessment Report* also indicated that the monthly Operators Process Control meetings led by Dr. John J. Sansalone of LSU were having a beneficial impact on plant performance.

Since that time, there were additional engineering assessments and studies of the WWTPs which resulted in the need for treatment plant improvements at the South WWTP which were included in the RMAP2 projects presented in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008) and approved by the *Agreement and Order Regarding the Modification of the Consent Decree - Civil Action No. 01-978-B-M3 (M.D. La.)* signed in April 2009.

The City/Parish typically submits Municipal Water Pollution Prevention (MWPP) Environmental Audit Reports for the North and South WWTPs once a year to LDEQ. These reports contain an evaluation and rating for influent loadings, plant performance, overflows and bypasses, treatment plant age, sludge disposal, new development in collection system, and operator certification training for the North and South WWTPs. The MWPP audit rates the treatment plants on the aforementioned factors annually starting and are submitted annually the year following the effective date of NPDES permits. The actions that will be taken to maintain compliance and prevent effluent violations are typically presented in MWPP resolutions, which were last submitted along with the audit on November 20, 2019.

## 1.3 Environmental Results Monitoring

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

The Phase I Baseline Monitoring was completed during the 2004 reporting period. As of December 31, 2019, the City/Parish conducted three separate Phase II Environmental Results Monitoring events, which are summarized in Attachment B. Also in Attachment B, is the water sample analysis and chain of custody.

## 1.4 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 WWTP National Pollution Discharge Elimination System (NPDES) permits.

Effluent limits of 85% removal of BOD and TSS have been in effect following the completion of all RMAP construction projects in December 2018.

### 1.4.1 North WWTP

During 2019, the North WWTP has been in compliance with the 85% effluent limits for BOD for 1 month and for TSS for 6 months of the reporting period, as shown in Table 7a.

Table 7a. 2019 Monthly Average Percent Removal for North Plant- LA0036439												
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
BOD	77	83	81	80	82	84	75	74	83	73	88	77
TSS	79	86	84	76	84	84	92	96	96	88	97	79

### 1.4.2 Central WWTP

The Central WWTP had no discharge and the LPDES permit was terminated by LDEQ in July 2017.

### 1.4.3 South WWTP

During 2019, the South WWTP has been in compliance with the 85% effluent limits for BOD for 8 months and for TSS for 9 months of the reporting period, as shown in Table 7b.

Table 7b. 2019 Monthly Average Percent Removal for South Plant- LA0036412												
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
BOD	88	82	76	75	83	86	90	90	89	85	87	88
TSS	89	89	85	84	89	68	82	90	90	90	92	89

## 1.5 Outreach and Public Awareness Program

Consent Decree Section XV - Outreach and Public Awareness Plan requires the City/Parish DES to 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 has been completed and reviewed/approved by the City/Parish, and then submitted in both the 2011 Annual EPA Report and 36th Quarterly EPA Report.

Outreach and Public Awareness Program Plan implementation efforts have been on-going. Public information tools such as the website <http://brprojects.com/baton-rouge-ss0-program/> are being continuously updated with new information about the program, project information (including quarterly 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 the public meetings, that describes pertinent information and aspects about the Program. Additionally, prior to any field work in areas, informational door hangers are also hung on those homes where inspection work will be taking place.

Also the SSO Control and Wastewater Facilities Program Quarterly Progress Reports have been made available and distributed to the public. Until now, they have been, and still are, posted on the website for the public to download at their convenience and are always distributed to City/Parish and DES staff. The plan is for these reports to continue to be distributed to those on the master list and posted on the website; in addition they will also be handed out or mailed to anyone who requests them throughout the duration of the SSO Control and Wastewater Facilities Program.

SSO program communications continued to provide City/Parish residents with time critical information on SSO Control and Wastewater Facility Program projects, educational information on SSOs, and updates on the status of the Program and related projects. In close collaboration with the Office of the Mayor-President and the Department of Environmental Services, the Program has initiated a construction communication outreach component to complement the Program's current communication activities. The Program Communication Team has designed and distributed a variety of outreach materials, as well as association and neighborhood specific information as appropriate. A telephone hotline for residents to call with questions was developed and coordination between the SSO Program and the Parish's 311 call center was established; also, an email account was created to allow residents and other stakeholders to contact the Program. Additionally, materials including information letters and handouts, door hangers announcing road closures, were developed and are continuing to be distributed.

The Department of Public Works underwent a reorganization and rebranding, which involved rebranding the organization as the Department of Environmental Services (DES) and redefining their services to the community and their focuses. DES has increased their social media and web presence through multiple platforms to quickly disseminate information. DES has also greatly increased their public outreach and community engagement through working with national media outlets, initiating school outreach programs, developing a Fats, Oils, and Grease (FOG) Pretreatment Program, conducting school recycling competitions, establishing guidelines for tours of wastewater treatment plant and recycling facilities, among other activities.

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.

## 1.6 Plan Modification Needs

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

## 1.7 Stipulated Penalties

A summary of penalties assessed and paid by the City/Parish and a cumulative summary of penalties assessed and potential stipulated penalties reported in past quarterly reports from 2019 are presented in Tables 8 and 9.

**Table 8. Penalties Assessed and Paid by the City/Parish to Date**

Penalties	Assessed	Paid	
		US DOJ	LDEQ
Civil Penalties	\$729,500	\$364,750	\$364,750
Past Stipulated Penalties (1988 Consent Decree)	\$216,000	\$216,000	
Note: These monetary stipulated penalties have been already paid by the City/Parish in 2002.			

**Table 9. Self-Reported Potential Stipulated Penalties 2019**

Stipulated Penalties	Number	Cost Per Occurrence	Amount Accrued
Cross Connection Identified & Non-Compliance with the Cross-Connection Elimination Plan	1	\$2,000 per day	\$50,000
<b>Unauthorized Discharges 2019</b>			
Less than 1 MG & Non-Compliance with the Collection System Preventative Maintenance Plan	0	\$5,000	\$0
Less than 1 MG & Non-Compliance with the Sanitary Sewer Overflow Response Plan	0	\$5,000	\$0
1 MG or more	6	\$5,000	\$30,000
<b>Non-Compliant Discharges (WWTP) 2019</b>			
Weekly Average Limits	11	\$1,000	\$11,000
Monthly (30-day average) Limits	7	\$2,500	\$17,500
Daily Limits	2	\$1,000	\$2,000
<b>2019 Total Stipulated Penalties (through December 31, 2019)</b>			<b>\$110,500</b>

Note: None of these self-reported stipulated penalties in this table have been assessed to the City/Parish by the DOJ/EPA/LDEQ or have been paid by the City/Parish at this time. Historical data utilized in this table was taken from the City/Parish Quarterly EPA Reports. In some instances where Preventative Maintenance Plan goals were not achieved in a given quarter, but the cumulative annual goals were exceeded, it was assumed that no penalties should be assessed for unauthorized discharges that occurred during that given quarter.

2019 Annual Report Attachment A-  
Municipal Water Pollution Prevention  
Environmental Audit Reports



**LOUISIANA**  
**MUNICIPAL WATER**  
**POLLUTION PREVENTION**  
**MWPP**



<i>Facility Name:</i>	City of Baton Rouge / Parish of East Baton Rouge / North Wastewater Treatment Plant
<i>LPDES Permit Number:</i>	LA0036439
<i>Agency Interest (AI) Number:</i>	4843
<i>Address:</i>	50 Woodpecker Street
	Baton Rouge, LA 70807
<i>Parish:</i>	East Baton Rouge
<i>(Person Completing Form) Name:</i>	Department of Environmental Services Staff
<i>Title:</i>	Inclusive
<i>Date Completed:</i>	November 5, 2019



# 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 specific 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 #:

LA0036439

**PART I: INFLUENT FLOW/LOADINGS (all plants)**

- A. List the average monthly volumetric flows and BOD loadings received at your facility during the last reporting year.

<b>Column 1</b> Average Monthly Flow (million gallons per day, MGD)		<b>Column 2</b> Average Monthly BOD5 Concentration (mg/l)		<b>Column 3</b> Average Monthly BOD5 Loading (pounds per day, lb/day)
17.00	x	171	x 8.34 =	24,244
16.35	x	179	x 8.34 =	24,408
21.52	x	147	x 8.34 =	26,383
29.49	x	124	x 8.34 =	30,497
26.32	x	160	x 8.34 =	35,121
23.94	x	164	x 8.34 =	32,744
25.86	x	162	x 8.34 =	34,939
29.79	x	138	x 8.34 =	34,286
29.33	x	152	x 8.34 =	37,181
17.98	x	200	x 8.34 =	29,991
17.18	x	87	x 8.34 =	12,465
17.16	x	73	x 8.34 =	10,447

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  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  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  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  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:  (max = 80)

Also enter this value or 80, whichever is less, on the point calculation table on page 16.



Permit #:

LA0036439

**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	28	26
OCTOBER	31	20
NOVEMBER	32	23
DECEMBER	31	24
JANUARY	37	24
FEBRUARY	28	22
MARCH	30	19
APRIL	28	28
MAY	27	24
JUNE	32	23
JULY	21	16
AUGUST	19	15

- B. List the monthly average permit limits for your facility in the blanks below.

	Permit Limit		90% of Permit Limit
BOD, mg/l	30	$\times 0.90 =$	27
TSS, mg/l	30	$\times 0.90 =$	27



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  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  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  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  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:  (max = 100)

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

Permit #:

LA0036439

**D. Other Monitoring and Limitations**

- i. At any time in the past year was there an 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:*

9-6-18 TRC = 1.36 mg/L  
9-20-18 TRC = 1.31 mg/L  
8/13-19/2019 Fecal Coliform = 685 col./100ml

- 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:*

See Attachment 1 & 2

D. Other Monitoring and Limitations  
iii.

NWWTP - LA0036439 (*Influent*)\*

Sample Date	Pollutant	Reporting Value	Actual Value
10/29-30/2018	Mercury	0.0005 mg/L	18.8 µg/L
	Selenium	5 µg/L	9.0 µg/L
	Zinc	20 µg/L	26.6 µg/L

**\*1/6 months**

NWWTP - LA0036439 (*Effluent*)\*

Sample Date	Pollutant	Reporting Value	Actual Value
10/30-31/2018	Copper	3 µg/L	6.6 µg/L
	Mercury	0.0005 mg/L	4.6 µg/L

**\*1/6 months**



D. Other Monitoring and Limitations

iii.

NWWTP - LA0036439 (*Influent*)\*

Sample Date	Pollutant	Reporting Value	Actual Value
06/03-04/2019	Beryllium	0.5 µg/L	1.93 µg/L
	Cadmium	1 µg/L	1.2 µg/L
	Copper	3 µg/L	16 µg/L
	Phenolics	5 µg/L	1310 µg/L
	Zinc	20 µg/L	61 µg/L
	Mercury	0.0005 µg/L	15.2 µg/L

NWWTP – LA0036439 (*Effluent*)\*

Sample Date	Pollutant	Reporting Value	Actual Value
06/04-05/2019	Copper	3 µg/L	12 µg/L
	Zinc	20 µg/L	33 µg/L
	Mercury	0.0005 µg/L	8.2 µg/L
	Phenolics	5 µg/L	130 µg/L
	Nickel	5 µg/L	9.7 µg/L

\*1/6 months



Permit #:

LA0036439

**PART 3: AGE OF THE WASTEWATER TREATMENT FACILITY**

- A. What year was the wastewater treatment facility constructed or last major expansion/improvements completed?

$$\begin{array}{rcccl}
 & & 2018 & & \\
 & & \hline
 \text{Current Year} & - & \text{Answer to A} & = & \text{Age in years} \\
 \hline
 2019 & & 2018 & & 1 \\
 \hline
 \end{array}$$

Enter Age in Part C below.

- B. ☒ Check the type of treatment facility that is employed.

**FACTOR:**

<input checked="" type="checkbox"/>	Mechanical Treatment Plant (trickling filter, activated sludge, etc...) Specify Type: <u>Trickling Filter</u>	2.5
<input type="checkbox"/>	Aerated Lagoon	2.0
<input type="checkbox"/>	Stabilization Pond	1.5
<input type="checkbox"/>	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.

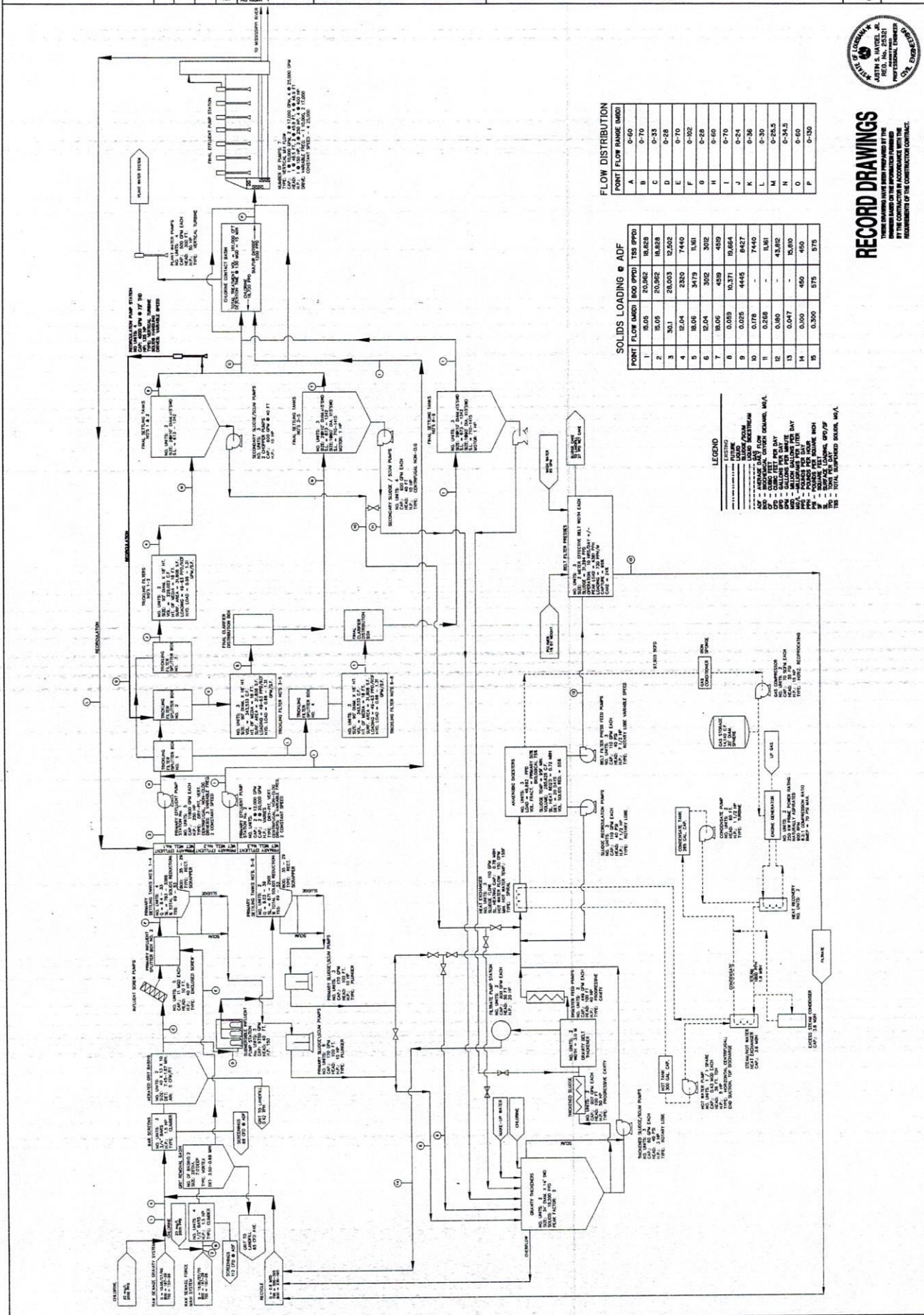
**TOTAL POINT VALUE FOR PART 3 =**

$$\frac{2.5}{\text{Factor}} \times \frac{1}{\text{Age}} = \boxed{2.5} \text{ (max = 50)}$$

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.

\* See Attachment





Permit #:

LA0036439

## 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:

33 √ Check one box. ☐ 0 = 0 points ☐ 3 = 15 points  
☐ 1 = 5 points ☐ 4 = 30 points  
☐ 2 = 10 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: 23 Treatment Plant: 10

### 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:

161 √ Check one box. ☐ 0 = 0 points ☐ 3 = 15 points  
☐ 1 = 5 points ☐ 4 = 30 points  
☐ 2 = 10 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: 131 Treatment Plant: 30

- 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:** 100 (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:

Michael Lowe, Wastewater Laboratory Supervisor

Describe the procedure for gathering, compiling and reporting:

The procedure for gathering, compiling, and reporting is specified in the permit.

Permit #:

LA0036439

**PART 5: SEWAGE SLUDGE STORAGE, USE, AND DISPOSAL****A. Sewage Sludge Storage**

How many months of sewage 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.

<i>months</i>	<input checked="" type="radio"/> <2	2	3	4-5	6
<i>points</i>	50	30	20	10	0

Write 0, 10, 20, 30 or 50 in the A point total box  A Point Total

**B. For how many months does your facility have approval to use or dispose of sewage sludge at a properly permitted landfill, land application site, or sewage sludge incinerator?**

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	<6	6-11	12-23	24-35	<input checked="" type="radio"/> >36
<i>points</i>	50	30	20	10	0

Write 0, 10, 20, 30 or 50 in the B point total box  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:**  (max = 100)

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



Permit #:

LA0036439

**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: N/A 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:

---

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- 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 #:

LA0036439

# PART 7: OPERATOR CERTIFICATION AND EDUCATION

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

Name: Calvin Hayes

- B. What is his or her certification number:

Cert.#: 7130

- 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.



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.



Yes



No

- G. How many hours of continuing education has the operator-in-charge completed over the last two calendar years?

✓ Check one box.



> 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.



Yes



No

Explain: 16 hours of continuing education within a two year period.

- 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 #:

LA0036439

## 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?*

No, sewer user fee revenues alone are not sufficient to cover O&M expenses. The City-Parish has two sources of revenue for sewer, the sewer user fee, and a one-half of one percent sales and use tax dedicated to sewer. 65% of the revenue base is from the sewer user fee and 35% from the sewer sales tax.

- B. What financial resources do you have available to pay for your wastewater improvements and reconstruction needs?

See A above. The City-Parish has financed it's sewer construction needs through the issuance of sewer revenue bonds and any funding that remains after O&M and debt services requirements are met.

**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.

See Attachment

- 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?                                       | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| ii. Do you mow the dikes regularly (at least monthly), to the waters edge?          | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| iii. Do you have bushes or trees growing on the dikes or in the ponds?              | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| iv. Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| v. Do you exercise all of your valves?  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| vi. Are your control manholes in good structural shape?                             | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| vii. Do you maintain at least 3 feet of freeboard in all of your ponds?             | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| viii. Do you visit your pond system at least weekly?                                | <input type="checkbox"/> Yes | <input type="checkbox"/> No |



**LA0036439 NORTH WASTEWATER PLANT BASIN**  
**MONITORING PERIOD - SEPTEMBER 1, 2018 THRU AUGUST 31, 2019**  
**LA MWPP Environmental Audit Part 9:**

**Subjective Evaluation**

- A1.** The City-Parish has continued an aggressive physical inspection and preventative maintenance program on the sewer system. Currently, the City-Parish is on an approximate 8-year rotation for the physical inspection of the collection system, which includes, pipeline cleaning, televising, and smoke testing, and manhole inspection. Additionally, the City-Parish has implemented a grease and root treatment for areas subject to dense tree canopy and high-impact fats, oils and grease (FOG) contributors.

Additionally, the City-Parish maintains multiple annual contracts to complete point repairs, emergency point repairs, valve maintenance, cured-in-place lining and remove and replace for existing pipelines. A summary of the activities is included in the table below.

<b>Gravity Collection System</b>	<b>Q3 2018</b>	<b>Q4 2018</b>	<b>Q1 2019</b>	<b>Q2 2019</b>	<b>Total</b>
Lines Cleaned (ft)	49,783	70,179	24,099	56,503	200,564
CCTV Inspected (ft)	51,034	70,179	24,099	57,904	203,216
Smoke Tested (ft)	0	70,792	0	0	70,792
Smoke Tested (no. of locations)	0	0	0	0	0
Dye Water Flooded (no. of locations)	0	0	0	0	0
Manholes Inspected (no.)	135	70	0	220	425
Lines Repaired (no.)	20	52	72	92	236
Manholes Rehabilitated (no.)	24	0	15	36	75
<b>Force Mains</b>					
Visual Surface Inspection (Miles)	37.2	43.2	35	37.2	152.6
Repaired (no.)	0	0	0	6	6
<b>Air Release Valves</b>					
Inspected / Maintained	186	216	175	186	763
Repaired (no.)	69	94	67	88	318

- A2.** The City-Parish maintains a routine pump station preventative maintenance and reactive maintenance program. Additionally, the City-Parish maintains multiple maintenance contracts, including mechanical, electrical, instrumentation, and controls maintenance, chemical addition, and odor control operations and maintenance services, to assist the City-Parish in maintaining the pumping systems. The pump station staff is responsible for visits to pump stations for general observations and preventative maintenance and completing repairs to pump stations, identified through site visits, SCADA, and/or public notifications. A summary of the activities is included in the table below.

<b>Pump &amp; Lift Stations</b>	<b>SEP. 2018</b>	<b>Q4 2018</b>	<b>Q1 2019</b>	<b>Q2 2019</b>	<b>JUL/AUG 2019</b>	<b>Total</b>
Inspections (no.)	627	785	733	877	331	3353
Wet Wells Cleaned	82	218	230	186	144	860
Repaired (no.)	11	24	29	38	34	136

- A3.** The City-Parish is completing a \$1.25 billion capital improvements program to improve conveyance, pumping, and treatment capacities and rehabilitate existing system assets. The projects under this program were completed in December 2018.

As the major CIP is coming to a close, the City-Parish continues planning, engineering, and construction efforts to continually improve system operation and efficiency. This includes routine collection system rehabilitation through the point repairs, cured-in-place pipe lining, and remove and replace of existing damage pipelines. Additionally, multiple projects are ongoing to rehabilitate or replace approximately 10 pump stations and completion of the lining of critical large diameter gravity pipeline infrastructure.

The City-Parish continues to plan and prioritize collection system improvements. Over the next five years, the City-Parish plans to complete the rehabilitation of critical, large diameter pipelines, upgrades and rehabilitations to various pump stations throughout the system, including capacity, de-ragging, and odor control improvements, and continuing to identify and provide connections to areas within the parish that remain on septic systems.

Permit #:

LA0036439

C. Treatment Plants

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

☒ Yes ☐ No (✓ Check one box.)

5-20-2019

*Influent flow meter calibration date(s)*

5-13-2019

*Effluent flow meter calibration date(s)*

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

A failed pipe in the force main headworks resulted in a 50% reduction in capacity of influent force main. Mechanical issues with primary effluent pumps and final effluent pumps resulted in overflows. Four trickling filters are out of service for construction which resulted in poor BOD performance.

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

✓ Check one box.

☐ Yes

☒ No

*If Yes, Please describe:*



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LA0036439

**D. Preventive Maintenance**

- i. Does your plant have a written plan for preventive maintenance on major equipment items?

√ Check one box.

☒

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 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?

☒

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?

☒

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.

☒

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. 16120) limits the discharge of heavy metals, chemical and toxic substances.

- ii. Has it been necessary to enforce?

√ Check one box.

☒

Yes

☐

No

*If Yes, Please describe:*

The Sewer User Fee Ordinance is strictly enforced by the City Parish and self monitoring sampling. The same apply to the Pretreatment Ordinance. Enforcement mechanisms include discharge permits, surcharges, letter 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: <i>Influent Flow/Loadings</i>	0	80 points
Part 2: <i>Effluent Quality / Plant Performance</i>	50	100 points
Part 3: <i>Age of WWTF</i>	2.5	50 points
Part 4: <i>Overflows and Bypasses</i>	100	100 points
Part 5: <i>Ultimate Disposition of Sludge</i>	50	100 points
Part 6: <i>New Development</i>	0	30 points
Part 7: <i>Operator Certification Training</i>	0	100 points

TOTAL POINTS:

202.5



**LOUISIANA**  
**MUNICIPAL WATER**  
**POLLUTION PREVENTION**  
**MWPP**



<i>Facility Name:</i>	City of Baton Rouge / Parish of East Baton Rouge / South Wastewater Treatment Plant
<i>LPDES Permit Number:</i>	LA0036412
<i>Agency Interest (AI) Number:</i>	4841
<i>Address:</i>	2850 Gardere Lane
	Baton Rouge, LA 70820
<i>Parish:</i>	East Baton Rouge
<i>(Person Completing Form) Name:</i>	Department of Environmental Services Staff
<i>Title:</i>	Inclusive
<i>Date Completed:</i>	November 5, 2019

# 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 specific 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 I: INFLUENT FLOW/LOADINGS (all plants)**

- A.** List the average monthly volumetric flows and BOD loadings received at your facility during the last reporting year.

<b>Column 1</b> Average Monthly Flow (million gallons per day, MGD)		<b>Column 2</b> Average Monthly BOD5 Concentration (mg/l)		<b>Column 3</b> Average Monthly BOD5 Loading (pounds per day, lb/day)
46.93	x	121	x 8.34 =	47,359
43.12	x	137	x 8.34 =	49,268
46.31	x	126	x 8.34 =	48,664
57.08	x	91	x 8.34 =	43,320
50.57	x	140	x 8.34 =	59,046
46.64	x	134	x 8.34 =	52,123
44.45	x	139	x 8.34 =	51,529
55.73	x	113	x 8.34 =	52,521
53.54	x	115	x 8.34 =	51,350
36.04	x	130	x 8.34 =	39,074
49.97	x	83	x 8.34 =	34,590
43.08	x	90	x 8.34 =	32,336

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:

58

x 0.90 =

52.20

Design BOD, lb/day:

100,129

x 0.90 =

90,116



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- 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.

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**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	7	11
OCTOBER	10	15
NOVEMBER	15	20
DECEMBER	14	21
JANUARY	17	18
FEBRUARY	24	20
MARCH	33	25
APRIL	28	23
MAY	19	28
JUNE	18	47
JULY	8	17
AUGUST	9	12

- B. List the monthly average permit limits for your facility in the blanks below.

	Permit Limit		90% of Permit Limit
BOD, mg/l	30	$\times 0.90 =$	27
TSS, mg/l	30	$\times 0.90 =$	27



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**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.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	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 10 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.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	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 corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	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 10 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.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the iv point total box 5 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:** 30 (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 an 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:*

3-9-19 TRC = 1.26 mg/L  
5/7-13/19 Fecal = 472 col./100mL  
6-2-19 pH = not recorded  
6/4-10/19 Fecal = 489 col./100mL  
8/20-26/19 Fecal = 687 col./100mL

- 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:*

See Attachment 1 & 2

D. Other Monitoring and Limitations  
iii.

SWWTP - LA0036412 (*Influent*)\*

Sample Date	Pollutant	Reporting Value	Actual Value
10/29-30/2018	Copper	3 µg/L	16.7 µg/L
	Zinc	20 µg/L	65.8 µg/L

\*1/6 months

SWWTP - LA0036412 (*Effluent*)\*

Sample Date	Pollutant	Reporting Value	Actual Value
10/30-31/2018	Copper	3 µg/L	7.5 µg/L
	Mercury	0.0005 µg/L	6.1 µg/L
	Zinc	20 µg/L	26.2 µg/L

\*1/6 months



D. Other Monitoring and Limitations  
iii.

SWWTP - LA0036412 (*Influent*)\*

Sample Date	Pollutant	Reporting Value	Actual Value
06/03-04/2019	Copper	3 µg/L	19 µg/L
	Lead	2 µg/L	1830 µg/L
	Mercury	0.0005 µg/L	11.7 µg/L
	Phenolics	5 µg/L	175 µg/L
	Zinc	20 µg/L	73 µg/L

\*1/6 months

SWWTP - LA0036421 (*Effluent*)\*

Sample Date	Pollutant	Reporting Value	Actual Value
06/04-05/2019	Copper	3 µg/L	28 µg/L
	Lead	2 µg/L	2.49 µg/L
	Mercury	0.0005 µg/L	39.2 µg/L
	Phenolics	5 µg/L	10 µg/L
	Zinc	20 µg/L	75 µg/L

\*1/6 months

Permit #:

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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?

$$\begin{array}{rcccl}
 & & 2015 & & \\
 \text{Current Year} & - & \text{Answer to A} & = & \text{Age in years} \\
 \hline
 2019 & & 2015 & & 4
 \end{array}$$

Enter Age in Part C below.

- B. ☒ Check the type of treatment facility that is employed.

**FACTOR:**

<input checked="" type="checkbox"/>	Mechanical Treatment Plant (trickling filter, activated sludge, etc...) Specify Type: <u>Trickling Filter</u>	2.5
<input type="checkbox"/>	Aerated Lagoon	2.0
<input type="checkbox"/>	Stabilization Pond	1.5
<input type="checkbox"/>	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 =**

$$\frac{2.5}{\text{Factor}} \times \frac{4}{\text{Age}} = \boxed{10} \text{ (max = 50)}$$

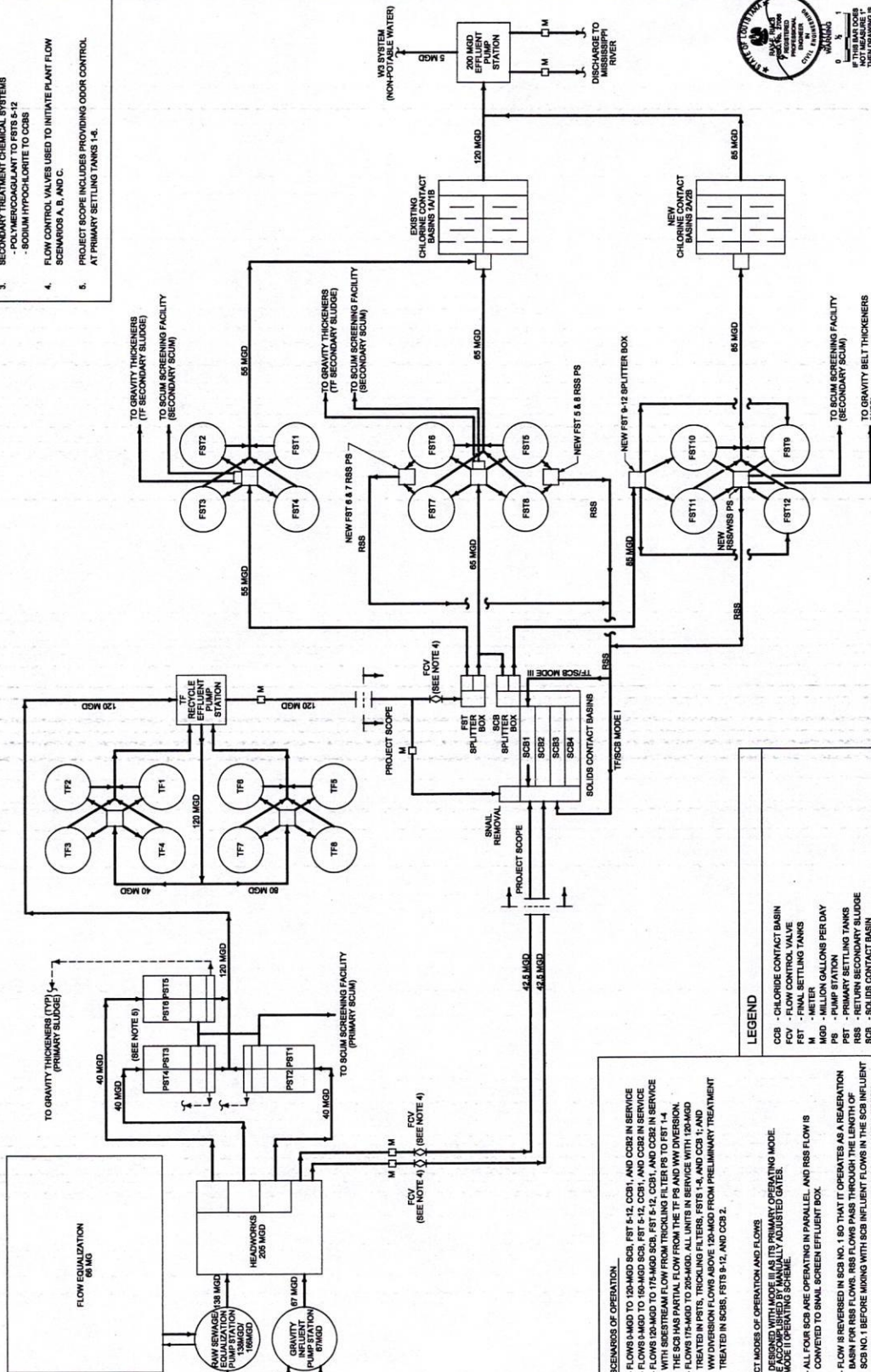
Also enter this value or 50, whichever is less, on the point calculation table on page 16.

- D. Please attach a schematic of the treatment plant.

\* See attachment



1. FLOWS SHOWN REPRESENT THE MAXIMUM FLOWS TO EACH UNIT PROCESS NOT INCLUDING RSS FLOW.
2. SECONDARY TREATMENT ABRATION SYSTEMS
  - SCSS AND IC3 SPURTER BOX
  - FST 1-12 SPURTER BOX
3. SECONDARY TREATMENT CHEMICAL SYSTEMS
  - POLYMER/COAGULANT TO FSTs 6-12
  - SODIUM HYPOCHLORITE TO CCBs
4. FLOW CONTROL VALVES USED TO INITIATE PLANT FLOW SCENARIOS A, B, AND C.
5. PROJECT SCOPE INCLUDES PROVIDING ODOR CONTROL AT PRIMARY SETTLING TANKS 1-4.



### PLANT FLOW SCENARIOS OF OPERATION

PLANT FLOW SCHEMATIC OF OPERATION

SCENARIO A - FLOWS 3-MG/D TO 120-MG/D SGB, FST 5-12, CDB1, AND CDB2 IN SERVICE  
SCENARIO B - FLOWS 3-MG/D TO 165-MG/D SGB, FST 5-12, CDB1, AND CDB2 IN SERVICE  
SCENARIO C - FLOWS 120-MG/D TO 170-MG/D SGB, FST 5-12, CDB1, AND CDB2 IN SERVICE  
WITH SIDESTREAM FLOW FROM TRICKLING FILTER P8 TO FST 1-4  
SCENARIO D - FLOWS 170-MG/D TO 205-MG/D  
WITH PARTIAL FLOW FROM THE TP P8 AND W/ DIVERSION  
TREATED IN P8TS, TRICKLING FILTERS, FST8 1-8, AND CCB 1; AND  
W/ DIVERSION FLOWS ABOVE 120-MG/D FROM PRELIMINARY TREATMENT  
TREATED IN SGB8, FST8 9-12, AND CCB 2.

## SOLID CONTACT MODES OF OPERATION AND FLOWS

THE PLANT IS DESIGNED WITH MODE III AS ITS PRIMARY OPERATING MODE. MODE I CAN BE ACCOMPLISHED BY MANUALLY ADJUSTED GATES, THERE IS NO MODE II OPERATING SCHEME.

MODE 1 - ALL FOUR SCB ARE OPERATING IN PARALLEL AND RSS FLOW IS CONVEYED TO SNAIL SCREEN EFFLUENT BOX

MODE III

FLOW WITH ENTERING RBS FLOWS. RBS FLOWS PASS THROUGH THE LENGTH OF BASIN FOR RBS FLOWS. RBS FLOWS PASS THROUGH THE LENGTH OF SCB NO. 1 BEFORE MIXING WITH SCB INFLUENT FLOWS IN THE SCB INFLUENT CHANNEL AND THEN PASSING THROUGH SCBS NOS. 2, 3, AND 4, WHICH OPERATE IN PARALLEL. MODE III IS THE DEFAULT OPERATING MODE FOR THE FACILITY.

### LEGEND

- CHLORIDE CONTACT BASIN
- FLOW CONTROL VALVE
- FINAL SETTLING TANKS
- METER
- MILLION GALLONS PER DAY
- PUMP STATION
- PRIMARY SETTLING TANKS
- RETURN SECONDARY SLUDGE
- SOLIDS CONTACT BASIN
- TRICKLING FILTERS
- TF EFFLUENT
- WASTE SECONDARY SLUDGE



1. FLOW VALUES SHOWN REPRESENT THE MAXIMUM MONTHLY DAILY ONLY DURING PLANT FLOWS OVER 120 MGD.
2. ONLY DURING PLANT FLOWS OVER 120 MGD.
3. WAS AND SCUM FILTRATE WILL ONLY ENTER THE GRAVITY THICKENERS DURING PEAK FLOW SCENARIOS (PLANT FLOWS OVER 120 MGD).
4. PRIMARY SLUDGE FLOW AND SOLIDS CONCENTRATION, GRAVITY THICKENER FLOWS WAS PROVIDED BY CDMILL. THESE CONDITIONS ASSUME FERRIC CHLORIDE ADDITION UPSTREAM OF THE PRIMARY SETTLING TANKS.
5. MAXIMUM FLOW OF DIGESTER GAS REQUIRED PER HOT WATER BOILER.
6. DILUTION WATER REQUIRED WHEN HYDRAULIC LOADING IS BELOW THE RECOMMENDED CONDITIONS (REFER TO SHEET G-12 DESIGN CRITERIA).



- DS - DIGESTED SLUDGE  
 FST - FINAL SETTLING TANKS  
 M - METER  
 MGAD - MILLION GALLONS PER DAY  
 PS - PRIMARY SLUDGE  
 PST - PRIMARY SETTLING TANKS  
 RST - RETURN SECONDARY SLUDGE  
 SCM - SCUM  
 SCFM - SCUM FILTRATE  
 TCS - THICKENED COMBINED SLUDGE  
 TPS - THICKENED PRIMARY SLUDGE  
 TWSS - THICKENED WASTE SECONDARY SLUDGE  
 WBS - BACKFLOW PREVENTED (NON-POTABLE WATER)  
 WSS - WASTE SECONDARY SLUDGE



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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:

58 ✓ Check one box. ☐ 0 = 0 points ☐ 3 = 15 points  
☐ 1 = 5 points ☐ 4 = 30 points  
☐ 2 = 10 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: 54 Treatment Plant: 4

**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:

470 ✓ Check one box. ☐ 0 = 0 points ☐ 3 = 15 points  
☐ 1 = 5 points ☐ 4 = 30 points  
☐ 2 = 10 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: 454 Treatment Plant: 16

- 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:** 100 (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:

Michael Lowe, Wastewater Laboratory Supervisor

Describe the procedure for gathering, compiling and reporting:

The procedure for gathering, compiling, and reporting is specified in the permit.

Permit #:

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**PART 5: SEWAGE SLUDGE STORAGE, USE, AND DISPOSAL****A. Sewage Sludge Storage**

How many months of sewage 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.

<i>months</i>	<u>&lt;2</u>	2	3	4-5	6
<i>points</i>	50	30	20	10	0

Write 0, 10, 20, 30 or 50 in the A point total box 50 A Point Total

**B. For how many months does your facility have approval to use or dispose of sewage sludge at a properly permitted landfill, land application site, or sewage sludge incinerator?**

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	<6	6-11	12-23	24-35	<u>&gt;36</u>
<i>points</i>	50	30	20	10	0

Write 0, 10, 20, 30 or 50 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:** 50 (max = 100)

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



Permit #:

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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: 3,344 Cap

Design Flow: 3.73 MGD

Design BOD: 200 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:*

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---

---

List any new pollutants:

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- 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:*

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---

List any new pollutants you anticipate:

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- 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.

09-01-2018 to 08-31-2019					
Project Name	# of Lots	Design Pop.	Flow (gpm)	Flow (MGD)	Sewer Length (ft)
@Highland	3	0	25	0.04	398
Arlington Marketplace Public Sewer Improvements	1	0	54	0.08	544
Cheval Point 1st Filing	101	404	122	0.18	4,569
Clark's Ferry 1st Filing	16	64	19	0.03	998
Cottages at Southfork Sewer Extension	6	24	7	0.01	245
Cubsmart Burbank Relocation	1	0	2	0.00	584
Dependable Storage Sewer Extension	1	0	1	0.00	1,025
Hickory Creek	33	132	40	0.06	1,035
Inniswylde	70	280	85	0.12	2,548
Lake Villas, 2nd Filing	95	380	115	0.17	2,219
Lexington Estates, 4th Filing Pt 1	34	136	41	0.06	1,923
Long Farm Village Ph 3 Pt 1 & 2	39	156	47	0.07	3,409
McCardle Estates	5	20	6	0.01	405
Montan Estates Lot 10-B Sewer Extension	2	0	3	0.00	561
Ochsner Health Center at The Grove Public SS Ext	1	0	89	0.13	1,659
Old Goodwood Crossing	35	140	42	0.06	762
Pelican Lakes Ph 4	69	276	83	0.12	1,747
Pennington Lots 5A-5D SS Ext	4	16	5	0.01	168
Rouzan Ph 5 2nd and 3rd Filings	124	496	150	0.22	9,464
Spring Gardens	30	120	36	0.05	979
Stonelake Village Ph 3C & 3D	40	160	48	0.07	672
Preserve at Harveston Ph 1 pt 3B	34	136	41	0.06	1,551
Settlement at Azalea Lakes SS Extension Ph 2	8	32	10	0.01	152
Tiger Bend Trails	45	180	54	0.08	1,067
W. Lee Dr. Gravity Sewer Ph 2	3	0	34	0.05	973
Willows at Bayou Fountain Ph 2	48	192	58	0.08	4,542
Woman's Hospital Public Improvements	1	0	1,231	1.77	1,454
Woman's Hospital Birth Center SS Ext	1	0	136	0.20	119
<b>TOTAL</b>	<b>850</b>	<b>3,344</b>	<b>2,587</b>	<b>3.73</b>	<b>45,772</b>



Permit #:

LA0036412

**PART 7: OPERATOR CERTIFICATION AND EDUCATION**

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

Name: Gregory Lewis

- B. What is his or her certification number:

Cert.#: 11419

- 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.

☒ Yes = 0 points

☐ No = 50 points

Write 0 or 50 in the E point total box

E Point Total

- F. Has the operator-in-charge maintained recertification requirements during the reporting year?

✓ Check one box.

☒ Yes

☐ No

- G. How many hours of continuing education has the operator-in-charge completed over the last two calendar years?

✓ Check one box.

☒ > 12 hours = 0 points

☐ < 12 hours = 50 points

Write 0 or 50 in the G point total box

G Point Total

- H. Is there a written policy regarding continuing education an training for wastewater treatment plant employees?

✓ Check one box.

☒ Yes

☐ No

Explain: 16 hours of continuing education within a two year period.

- 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:**

(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?*

No, sewer user fee revenues alone are not sufficient to cover O&M expenses. The City-Parish has two sources of revenue for sewer, the sewer user fee, and a one-half of one percent sales and use tax dedicated to sewer. 65% of the revenue base is from the sewer user fee and 35% from the sewer sales tax.

- B. What financial resources do you have available to pay for your wastewater improvements and reconstruction needs?

See A above. The City-Parish has financed it's sewer construction needs through the issuance of sewer revenue bonds and any funding that remains after O&M and debt services requirements are met.



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 attached

- ii. Describe what lift station work has been done in the last year.

See attached

- iii. What collection system improvements does the community have under construction for the next 5 years?

See attached

### B. If you have ponds please answer the following questions:

✓ Check one box.

- |   |                              |                             |
|---|------------------------------|-----------------------------|
| i. Do you have duckweed buildup in the ponds?                                       | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| ii. Do you mow the dikes regularly (at least monthly), to the waters edge?          | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| iii. Do you have bushes or trees growing on the dikes or in the ponds?              | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| iv. Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| v. Do you exercise all of your valves?  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| vi. Are your control manholes in good structural shape?                             | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| vii. Do you maintain at least 3 feet of freeboard in all of your ponds?             | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| viii. Do you visit your pond system at least weekly?                                | <input type="checkbox"/> Yes | <input type="checkbox"/> No |



**LA0036412 SOUTH WASTEWATER PLANT BASIN**  
**MONITORING PERIOD – SEPTEMBER 1, 2018 THRU AUGUST 31, 2019**  
**LA MWPP Environmental Audit Part 9:**

**Subjective Evaluation**

- A1.** The City-Parish has continued an aggressive physical inspection and preventative maintenance program on the sewer system. Currently, the City-Parish is on an approximate 8-year rotation for the physical inspection of the collection system, which includes, pipeline cleaning, televising, and smoke testing, and manhole inspection. Additionally, the City-Parish has implemented a grease and root treatment for areas subject to dense tree canopy and high-impact fats, oils and grease (FOG) contributors.

Additionally, the City-Parish maintains multiple annual contracts to complete point repairs, emergency point repairs, valve maintenance, cured-in-place lining and remove and replace for existing pipelines. A summary of the activities is included in the table below.

<b>Gravity Collection System</b>	<b>SEP. 2018</b>	<b>Q4 2018</b>	<b>Q1 2019</b>	<b>Q2 2019</b>	<b>JUL/AUG 2019</b>	<b>Total</b>
Lines Cleaned (ft)	23,935	104,940	113,953	211,007	34,483	488,319
CCTV Inspected (ft)	23,306	113,289	120,373	211,960	66,959	535,887
Smoke Tested (ft)	9,094	32,409	119,856	3,266	2,632	167,257
Smoke Tested (no. of locations)	1	0	0	3	2	6
Dye Water Flooded (no. of locations)	0	0	0	0	0	0
Manholes Inspected (no.)	84	277	307	37	137	841
Lines Repaired (no.)	58	169	147	190	161	725
Manholes Rehabilitated (no.)	31	489	283	331	166	1,300
<b>Force Mains</b>						
Visual Surface Inspection (Miles)	9	15	18	20	13	74
Repaired (no.)	3	11	0	2	3	18
<b>Air Release Valves</b>						
Inspected / Maintained	44	74	91	99	63	371
Repaired (no.)	19	32	34	37	31	153

- A2.** The City-Parish maintains a routine pump station preventative maintenance and reactive maintenance program. Additionally, the City-Parish maintains multiple maintenance contracts, including mechanical, electrical, instrumentation, and controls maintenance, chemical addition, and odor control operations and maintenance services, to assist the City-Parish in maintaining the pumping systems. The pump station staff is responsible for visits to pump stations for general observations and preventative maintenance and completing repairs to pump stations, identified through site visits, SCADA, and/or public notifications. A summary of the activities is included in the table below.

<b>Pump &amp; Lift Stations</b>	<b>SEP. 2018</b>	<b>Q4 2018</b>	<b>Q1 2019</b>	<b>Q2 2019</b>	<b>JUL/AUG 2019</b>	<b>Total</b>
Inspections (no.)	627	785	733	877	331	3353
Wet Wells Cleaned	82	218	230	186	144	860
Repaired (no.)	11	24	29	38	34	136

- A3.** The City-Parish is completing a \$1.25 billion capital improvements program to improve conveyance, pumping, and treatment capacities and rehabilitate existing system assets. The projects under this program were completed in December 2018.

As the major CIP is coming to a close, the City-Parish continues planning, engineering, and construction efforts to continually improve system operation and efficiency. This includes routine collection system rehabilitation through the point repairs, cured-in-place pipe lining, and remove and replace of existing damage pipelines. Additionally, multiple projects are ongoing to rehabilitate or replace approximately 10 pump stations and completion of the lining of critical large diameter gravity pipeline infrastructure.

The City-Parish continues to plan and prioritize collection system improvements. Over the next five years, the City-Parish plans to complete the rehabilitation of critical, large diameter pipelines, upgrades and rehabilitations to various pump stations throughout the system, including capacity, de-ragging, and odor control improvements, and continuing to identify and provide connections to areas within the parish that remain on septic systems.

Permit #:

LA0036412

C. Treatment Plants

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

☒ Yes ☐ No (✓ Check one box.)

10/4/2019  
*Influent flow meter calibration date(s)*

10/4/2019  
*Effluent flow meter calibration date(s)*

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

There were various issues with the sodium hypochlorite induction units which led to fecal excursions. A major cave-in on influent gravity piping led to various operations and maintenance issues due to excessive rocks damaging equipment.

- 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.

☒

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 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?

☒

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?

☒

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.

☒

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. 16120) limits the discharge of heavy metals, chemical and toxic substances.

- ii. Has it been necessary to enforce?

✓ Check one box.

☒

Yes

☐

No

*If Yes, Please describe:*

The Sewer User Fee Ordinance is strictly enforced by the City Parish and self monitoring sampling. The same apply to the Pretreatment Ordinance. Enforcement mechanisms include discharge permits, surcharges, letter 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: <i>Influent Flow/Loadings</i>	0	80 points
Part 2: <i>Effluent Quality / Plant Performance</i>	30	100 points
Part 3: <i>Age of WWTF</i>	10	50 points
Part 4: <i>Overflows and Bypasses</i>	100	100 points
Part 5: <i>Ultimate Disposition of Sludge</i>	50	100 points
Part 6: <i>New Development</i>	0	30 points
Part 7: <i>Operator Certification Training</i>	0	100 points

TOTAL POINTS:

190

ADOPTED  
EAST BATON ROUGE SEWAGE  
COMMISSION

ADOPTED  
METROPOLITAN COUNCIL

By Hudson  
Introduction 11/26/19  
P.H. 12/1/19

DEC 11 2019

DEC 11 2019

Osby  
COUNCIL ADMINISTRATOR TREASURER

Osby  
COUNCIL ADMINISTRATOR TREASURER

19-01310

RESOLUTION

EBROSCO RESOLUTION

54646  
8442

AUTHORIZING THE MAYOR-PRESIDENT AND/OR  
EBROSCO TO APPROVE THE SUBMITTAL OF THE  
LOUISIANA MUNICIPAL WATER POLLUTION  
PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE  
NORTH TREATMENT PLANT (LA0036439 AI#4843) TO  
THE LOUISIANA DEPARTMENT OF ENVIRONMENTAL  
QUALITY (LDEQ) FOR THE MONITORING PERIOD OF  
SEPTEMBER 1, 2018 THROUGH AUGUST 31, 2019.

BE IT RESOLVED by the Metropolitan Council of the Parish of  
East Baton Rouge and City of Baton Rouge and by the Board of  
Commissioners of the East Baton Rouge Sewerage Commission  
(EBROSCO), acting as the Authority for EBROSCO, that:

Section 1. The Mayor-President, on behalf of the City of  
Baton Rouge and Parish of East Baton Rouge, and/or the East Baton  
Rouge Sewerage Commission, represented by President of said  
Commission, are hereby authorized to approve the submittal of the  
Louisiana Municipal Water Pollution Prevention (MWPP)  
Environmental Audit for the North Treatment Plant (LA0036439  
AI#4843) to the Louisiana Department of Environmental Quality  
(LDEQ) for the monitoring period of September 1, 2018 through  
August 31, 2019.

Section 2. Said audit shall be approved by the Office of  
the Parish Attorney as to form and legality.



By Hudson  
Introduction 11/26/19  
P.H. 12/11/19

**ADOPTED**  
EAST BATON ROUGE SEWAGE  
COMMISSION

DEC 11 2019

**ADOPTED**  
METROPOLITAN COUNCIL

DEC 11 2019

Cheryl Kead  
COUNCIL ADMINISTRATOR TREASURER

Cheryl Kead  
COUNCIL ADMINISTRATOR TREASURER

19-01309

RESOLUTION 54645

EBROSCO RESOLUTION 8441

AUTHORIZING THE MAYOR-PRESIDENT AND/OR EBROSCO TO APPROVE THE SUBMITTAL OF THE LOUISIANA MUNICIPAL WATER POLLUTION PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE SOUTH TREATMENT PLANT (LA0036412 AI#4841) TO THE LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ) FOR THE MONITORING PERIOD OF SEPTEMBER 1, 2018 THROUGH AUGUST 31, 2019.

BE IT RESOLVED by the Metropolitan Council of the Parish of East Baton Rouge and City of Baton Rouge and by the Board of Commissioners of the East Baton Rouge Sewerage Commission (EBROSCO), acting as the Authority for EBROSCO, that:

Section 1. The Mayor-President, on behalf of the City of Baton Rouge and Parish of East Baton Rouge, and/or the East Baton Rouge Sewerage Commission, represented by President of said Commission, are hereby authorized to approve the submittal of the Louisiana Municipal Water Pollution Prevention (MWPP) Environmental Audit for the South Treatment Plant (LA0036412 AI#4841) to the Louisiana Department of Environmental Quality (LDEQ) for the monitoring period of September 1, 2018 through August 31, 2019.

Section 2. Said audit shall be approved by the Office of the Parish Attorney as to form and legality.

# 2019 Annual Report Attachment B- Environmental Results Monitoring

**Environmental Results Monitoring Program  
Phase II, Quarter 2 Results**



4949 Essen Lane  
Baton Rouge, LA 70809  
www.jacobs.com

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<b>Subject</b>	Environmental Results Monitoring Program Phase II, Quarter 2 Results	<b>Project Name</b>	Baton Rouge Sanitary Sewer Overflow Program
<b>Attention</b>	Richard Speer, P.E. Director, Department of Environmental Services	<b>Project No.</b>	BTRSSO16
<b>From</b>	Obie Watts, P.E.		
<b>Date</b>	July 18, 2019		
<b>Copies to</b>	Adam Smith, P.E. – DES Joseph Young, P.E. - Jacobs		

---

## Purpose

On April 5, 2019, the City of Baton Rouge, Parish of East Baton Rouge (City/Parish) conducted the 1st quarterly Phase II Environmental Results Monitoring (ERM) event, as required by the 2002 Consent Decree. The purpose of this memorandum is to characterize the rain event, summarize the sampling procedures, and report laboratory analysis results. Background information regarding the purpose and procedures of the ERM program can be found in the ERM Plan (Exhibit G to the Consent Decree).

## Rain Event

Rain data was recorded at USGS monitoring stations located upstream of each of the designated sample locations. The locations of the observed USGS monitoring stations are shown in Figure 1, along with sample site locations.

Rainfall data from the April 4 and 5 event is summarized graphically in Figure 2. The event had a relatively short duration, with high-intensity rainfall occurring during the mid-morning hours of April 4. A summary of the rainfall at each sample site at the time of sample collection is provided in Table 1.

## Procedures

One grab sample was taken from each of the five designated sample sites between the hours of 8:46 AM and 9:03 AM. Samples were drawn from the approximate center of each stream. Grab samples from each site were poured in three separate laboratory-prepared sample containers. Sample containers were labeled with sample date, time, and location name immediately following sample collection. Samples were stored on ice and delivered to the laboratory immediately following collection of the final sample. Chain of custody forms were completed by the sampling team and the receiving and analytical laboratory.

All samples were analyzed at the local laboratory for the parameters established in the ERM plan, which include fecal coliform, fecal streptococcus, and enterococcus. Sample holding times and laboratory procedures conformed with those outlines in the USEPA “Methods for Chemical Analysis of Water and Wastes”, 1983, and USEPA “Test Methods for the Examination of Solid Waste – SW846”, 1992.

## **Results**

Results of laboratory analyses are summarized in Table 2. Further analysis of these results based on future water quality and stream flow data will be conducted upon completion of Phase I Baseline Monitoring. Estimate of stream flow rates based on available gage height/elevation data recorded at USGS monitoring stations is currently being investigated. Gate height/elevation data from April 4 and 5, 2019 recorded at USGS stream flow monitoring stations upstream of each sample location, is shown in Figure 3.

# Tables

**Table 1: Sample Time/Rainfall Summary for Phase II, Quarter 2**

Location	Sample Time	Total Rainfall (in)	Peak Intensity (in/hr)
Comite at Port Hudson - Pride	9:05 AM	1.56	0.56
Comite at Greenwell Springs <sup>a</sup>	9:45 AM	3.17	0.85
Bayou Fountain at Grand Lakes	8:46 AM	3.4	2.12
Ward Creek at Highland Road	9:03 AM	3.26	1.6
Jones Creek at Oneal Lane	9:27 AM	0.52	0.32

<sup>a</sup> The Comite River at Greenwell Springs gage does not have a precipitation gage. The hourly rainfall recorded at Baton Rouge airport is listed as a substitute for rainfall recorded at the gage.

In: Inches; hr: Hour

**Table 2: Water Quality Sampling Results for Phase II, Quarter 2**

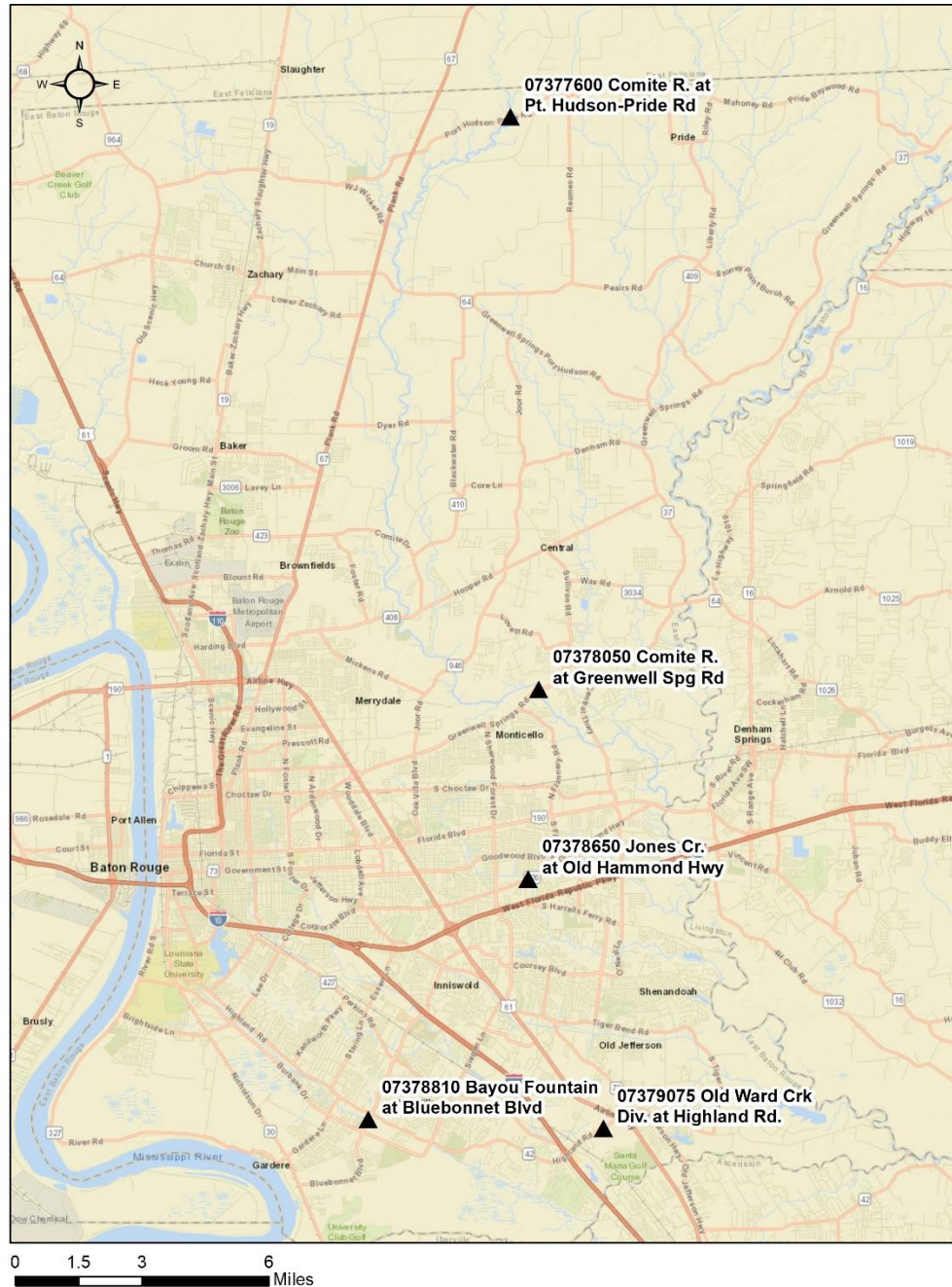
Location	Sampling Location				
	Comite – Port Hudson	Comite – Greenwell Springs	Bayou Fountain	Ward Creek	Jones Creek
Fecal Coliform (MPN/100 ml)	>4839.2	>4839.2	>4839.2	>4839.2	>4839.2
Enterococci (MPN/100 ml)	>2419.6	>2419.6	>2419.6	>2419.6	>2419.6
Total Rainfall (in) <sup>a</sup>	1.57	3.17	3.43	3.26	0.53
Gage Height (ft) <sup>a</sup>	14.89	21.14	10.26	7.15	N/A <sup>b</sup>

<sup>a</sup> Values at time of sample collection. <sup>b</sup> No gage height data is available at the time the sample was taken.

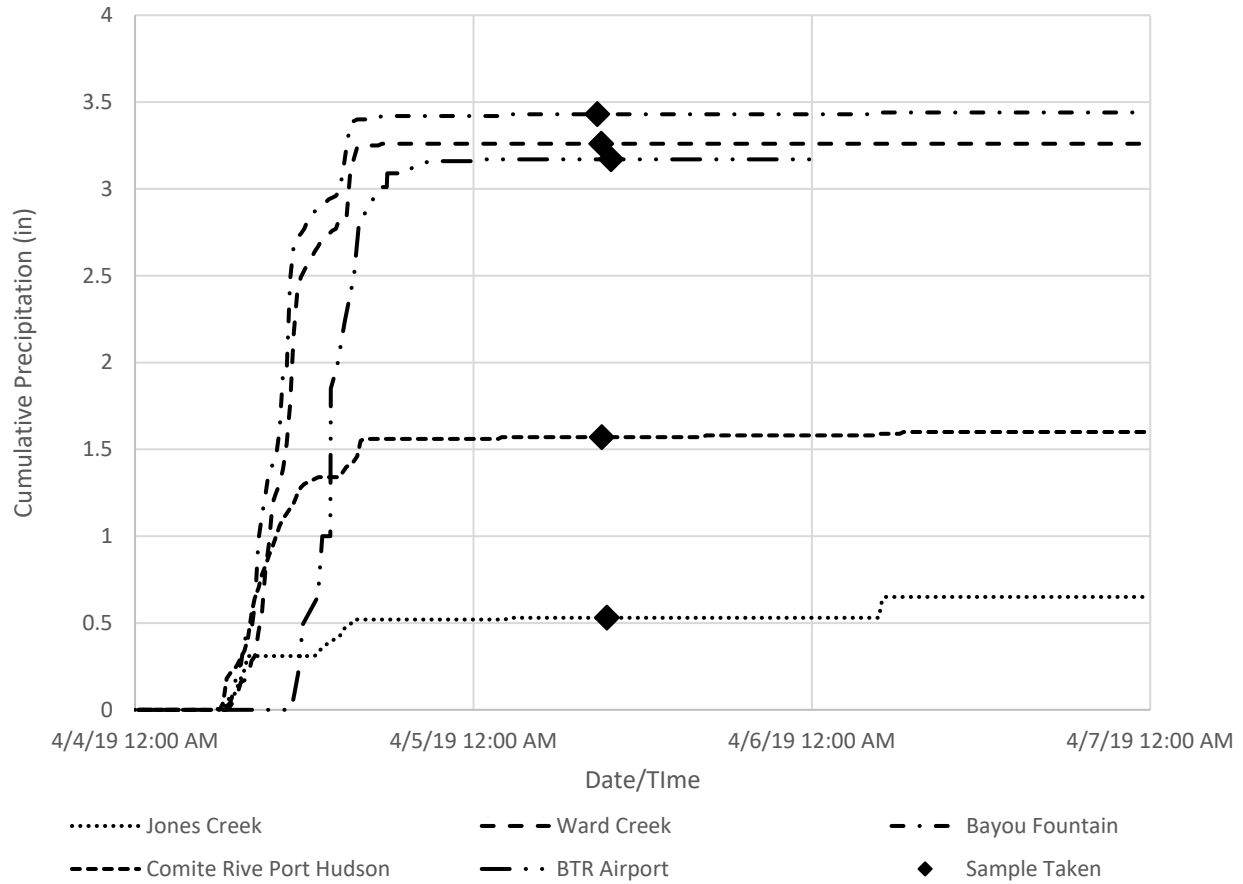
MPN: Most Probable Number; ml: Milliliters



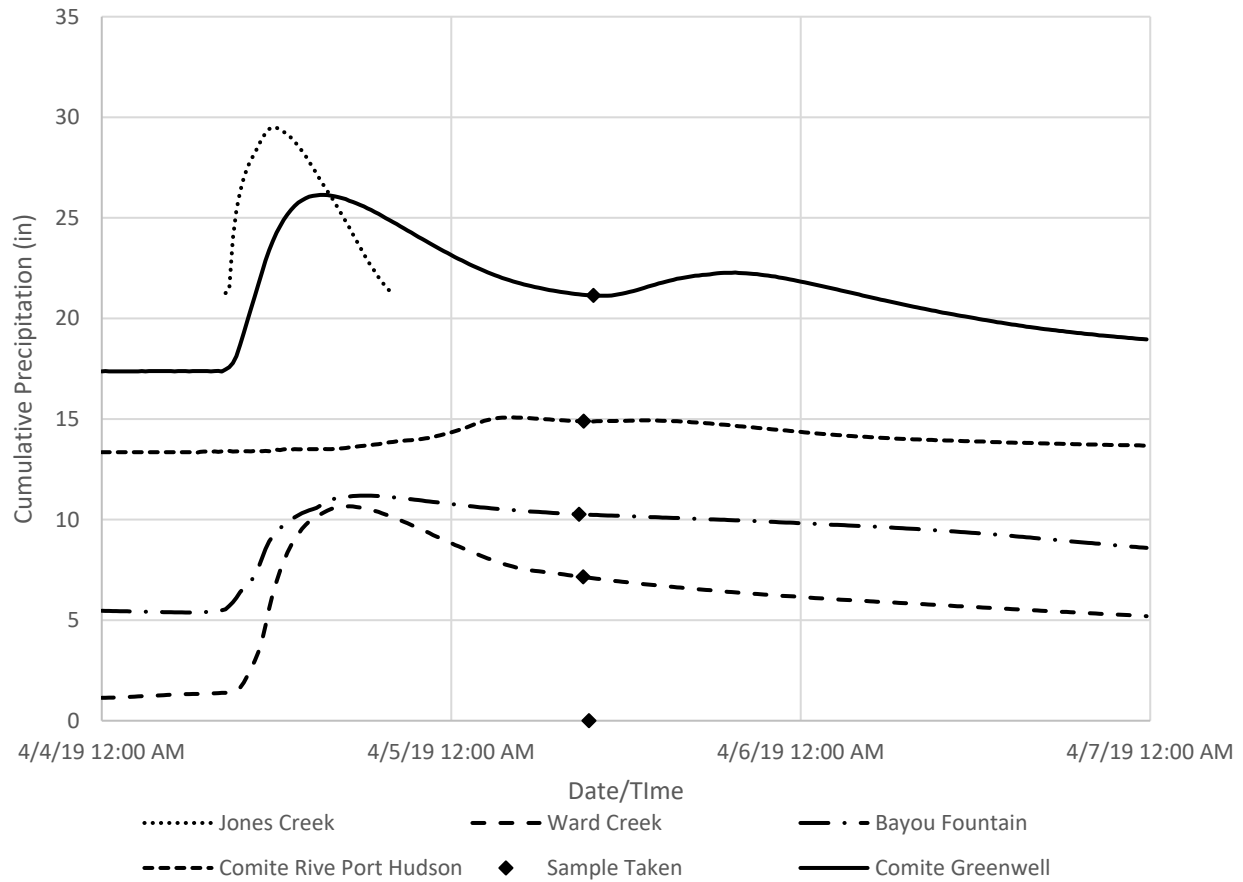
## Figures



**Figure 1: Sampling Locations**



**Figure 2: April 4-7 Cumulative Precipitation**



**Figure 3: April 4-7, 2019 USGS Gage Height**

Note: The Jones Creek gage is missing a substantial amount of records for gage height. There is no gage height data for Jones Creek at the time the sample was taken, therefore the Jones Creek sample is not marked on Figure 3.





*Element Materials Technology Lafayette*  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

April 08, 2019

Sarah Boudreaux  
East Baton Rouge Parish Pretreatment Division  
345 Chippewa St.  
Baton Rouge, LA 70805  
TEL:  
FAX

RE: 800001878

Order No.: 19040350

Dear Sarah Boudreaux:

Element Materials Technology Lafayette received 5 sample(s) on 4/5/2019 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA180028. ISDH Certification No.: C-LA-01. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibaux  
Customer Service Supervisor  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344



*Element Materials Technology Lafayette*  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

## Case Narrative

WO#: **19040350**  
Date: **4/8/2019**

---

**CLIENT:** East Baton Rouge Parish Pretreatment Divi  
**Project:** 800001878

---

The Enterococci and Fecal Streptococci analyses were subcontracted to Waypoint Analytical. Their report is attached in its entirety.



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## Sample Log-In Check List

Client Name: **EAST\_BR\_PRETREATM**

Work Order Number: **19040350**

RcptNo: **1**

Logged by: **Caitlin Duplantis** **4/5/2019 12:15:00 PM**

Completed By: **Caitlin Duplantis** **4/5/2019 3:43:15 PM**

Reviewed By: **Cristina Thibaux** **4/8/2019 8:27:47 AM**

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Client delivered directly to subcontractor

### Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐  
4. Shipping container/cooler in good condition? Yes ☒ No ☐  
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒  
No. Seal Date: Signed By:  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☒ NA ☐

Person Notified:  Date   
By Whom:  Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding:   
Client Instructions:

18. Additional remarks:

Samples were brought directly to the subcontractor to ensure holding time was met.

### Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
-----------	-------------------------	-----------	-------------	---------	-----------	-----------



4/8/2019

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette, LA, 70508

Ref: Report Number: 19-095-0212  
Project Description: Baton Rouge DES - 19040350-001A

Dear Ms. Caitlin Duplantis:

Waypoint Analytical Louisiana, Inc. received sample(s) on 4/5/2019 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Please be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please do not hesitate to contact me or client services.

Sincerely,



Anthony J. Albert  
Laboratory Director

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.*



**Sample Summary Table**

**Report Number:** 19-095-0212

**Client Project Description:** Baton Rouge DES - 19040350-001A

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
62323	Greenwell Springs Rd & Cormick	Aqueous	04/05/2019 09:45	



5041 Taravella Road, Marrero, LA 70072  
Main 504-371-8557 ° Fax 504-371-8560  
www.waypointanalytical.com

01210

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette , LA 70508

Project Baton Rouge DES - 19040350-001A  
Information :

Report Date : 04/08/2019  
Received : 04/05/2019

Anthony J. Albert  
Laboratory Director

Report Number : **19-095-0212**

**REPORT OF ANALYSIS**

Lab No : **62323**

Matrix: **Aqueous**

Sample ID : **Greenwell Springs Rd & Cormick**

Sampled: **4/5/2019 9:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Enterococci	>2419.6	MPN/100mL	2	1	04/05/19 15:27	MJM	Enterolert
Fecal Coliform	>4839.2	MPN/100mL	2	1	04/05/19 15:25	MJM	Colilert-18 Fecal

**Qualifiers/  
Definitions**

Dilution Factor

MQL

Method Quantitation Limit



## Cooler Receipt Form

Customer Number: **01210**

Customer Name: **Element Materials Technology**

Report Number: **19-095-0212**

### Shipping Method

☐ Fed Ex      ☐ US Postal      ☐ Lab      ☐ Other :   
☐ UPS      ☒ Client      ☐ Courier      Thermometer ID:

Shipping container/cooler uncompromised? ☒ Yes ☐ No

Number of coolers received

Custody seals intact on shipping container/cooler? ☐ Yes ☐ No ☒ Not Required

Custody seals intact on sample bottles? ☐ Yes ☐ No ☒ Not Required

Chain of Custody (COC) present? ☒ Yes ☐ No

COC agrees with sample label(s)? ☒ Yes ☐ No

COC properly completed ☒ Yes ☐ No

Samples in proper containers? ☒ Yes ☐ No

Sample containers intact? ☒ Yes ☐ No

Sufficient sample volume for indicated test(s)? ☒ Yes ☐ No

All samples received within holding time? ☒ Yes ☐ No

Cooler temperature in compliance? ☒ Yes ☐ No

Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun. ☒ Yes ☐ No

Water - Sample containers properly preserved ☒ Yes ☐ No ☐ N/A

Water - VOA vials free of headspace ☐ Yes ☐ No ☒ N/A

Trip Blanks received with VOAs ☐ Yes ☐ No ☒ N/A

Soil VOA method 5035 – compliance criteria met ☐ Yes ☐ No ☒ N/A

☐ High concentration container (48 hr)      ☐ Low concentration EnCore samplers (48 hr)  
☐ High concentration pre-weighed (methanol -14 d)      ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included? ☐ Yes ☒ No

Comments:

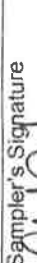
Signature:

Date & Time:





## Chain of Custody

Laboratory Number:

Company Name:	Baton Rouge DES		Billing Information:		PO Number:	Project Name/Number: 800001878	Page of
Contact Name:	Sarah Boudreaux				Quote Number:	 Sampler's Signature	<b>Matrix Code</b>  DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge SOL = Solid O = Oil SO = Soil F = Food SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid
Address:	345 Chippewa Street				Required QC Level		
City, State Zip:	Baton Rouge, LA				Bill Monthly	Shipping Method:	
Phone Number:	2256150661		Ext:		<input type="checkbox"/> Yes <input type="checkbox"/> No	UPS / FedEx / Airborne DHL / Element / Hand / Mail	
Fax Number:							
E-mail Address:	SAboudreaux@brla.gov						

Element Materials Technology  
Greenwell Springs Rd & Cormick

19-095-0212  
01210  
04-05-2019  
15:02:14

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1		4/5/19 12:15		4/5/19 12:15	
2					Received at lab on ice?
3					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   Temp:

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

9901 Innovation Drive, Suite 115  
 Daleville, IN  
 47334-0569 USA  
 P 765-378-4103  
 F 765-378-4109

629 Washington St. Suite 300  
Columbus, IN  
47201-6231 USA  
P 812-375-0531  
F 812-375-0731

**560 South Zimmer Road  
Warsaw, IN  
46580-2368 USA  
P 574-267-3305  
F 574-269-6569**

3371 Cleveland Road, Suite 100A  
South Bend, IN  
46628-9780 USA  
P 574-277-0707  
F 574-273-5699

2417 W. Pinhook Rd  
Lafayette, LA  
70508-3344 USA  
P 337-2335-0483  
F 337-2333-6540



## CHAIN OF CUSTODY RECORD

Omega COCID 8122

PAGE: 1

OF: 1

SUB CONTRACTOR <b>Waypoint_Marrero L</b> COMPANY <b>Waypoint Analytical</b>					SPECIAL INSTRUCTIONS / COMMENTS Enterococci and Fecal streptococcus testing		
ADDRESS: <b>5041 Taravella Road</b>							
CITY, STATE ZIP <b>Marrero, LA 70072</b>							
PHONE: <b>(504) 371-8557</b> FAX _____ EMAIL _____							
ACCOUNT # _____							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS Metha HOT Sample Notation, Ad
1	19040350-001A N/A, N/A #	Greenwell Springs	16OZAMGU	Aqueous	4/5/2019 9:45:00 AM	1	
2	19040350-002A N/A, N/A #	Highland Rd-Ward	16OZAMGU	Aqueous	4/5/2019 9:03:00 AM	1	
3	19040350-003A N/A, N/A #	Oneal Ln/Jones Cre	16OZAMGU	Aqueous	4/5/2019 9:27:00 AM	1	
4	19040350-004A N/A, N/A #	Port Hudson-Pride	16OZAMGU	Aqueous	4/5/2019 9:05:00 AM	1	
5	19040350-005A N/A, N/A #	Grand Lakes/Bayou	16OZAMGU	Aqueous	4/5/2019 8:46:00 AM	1	

SampNum ClientSampleID  
001A - Greenwell Springs Rd & Comite  
002A - Highland Rd-Ward Creek  
003A - Oneal Ln/Jones Creek  
004A - Port Hudson-Pride & Comite  
005A - Grand Lakes/Bayou Fountain

Relinquished By: <b>Caitlin Duplantis</b>	Date: <b>4/5/19</b>	Time:	Received By:	Date:	Time:	REPORT TRANSMITTAL DE: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/>  FOR LAB USE ONLY Temp of samples _____ °C Attempt Comments _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: Standard <input type="checkbox"/> RUSH Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/> Note: RUSH requests will incur surcharges!						



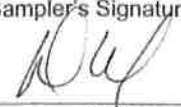


Element™


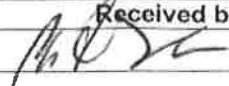
62322

Chain of Custody

Laboratory  
Number:

Company Name: Contact Name: Address: City, State Zip: Phone Number: Fax Number: E-mail Address:	<b>Client Information:</b>	<b>Billing Information:</b>	PO Number:	Project Name/Number:
	Baton Rouge DES		Quote Number:	Sampler's Signature 
	Samh Boudreaux		Required QC Level	
	345 Chippewa St.		Bill Monthly	
	Baton Rouge, LA		<input type="checkbox"/> Yes <input type="checkbox"/> No	Shipping Method:
225 615 0661	Ext:			UPS / FedEx / Airb DHL / Element / Hand

<b>Which Regulations Apply:</b> <input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RISC <input type="checkbox"/> Drinking Water <input type="checkbox"/> Distribution <input type="checkbox"/> Special <input type="checkbox"/> State <input type="checkbox"/> Other	<b>Turn Time</b> <input type="checkbox"/> Standard RUSH <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> Other	(Rush turn times will incur a surcharge and must be pre-approved by lab.)	<b>Container</b> Quantity Type P=Plastic, G=Glass, V=Vial	<b>Pres.</b> HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<b>Requested Tests</b>			
<b>Sample ID/Description</b>		<b>Collection Information</b>		Matrix	Quantity	Type	Pres.	Requested Tests
		Date	Time					
Highland Rd - Ward Creek		4/5/19	9:03 AM	Grab	W	1	P	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ✓ Feed Coliform ✓ Enterococcus

	Relinquished by	Date/Time	Received by	Date/Time
1		4/5/19 12:15		4/5/19 12:15
2				
3				

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with Element Materials Technology reserves the right to return unused sample portions.

9301 Innovation Drive, Suite 115  
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 47334-0569 USA  
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 Columbus, IN  
 47201-6231 USA  
 P 812-375-0531  
 F 812-375-0731

2121 East Washington Boulevard  
 Fort Wayne, IN  
 46803-1328 USA  
 P 260-471-7000  
 F 260-471-7777

560 South Zimmer Road  
 Warsaw, IN  
 46580-2368 USA  
 P 574-267-3305  
 F 574-269-6569

3371 Cleveland Road, Suite  
 South Bend, IN  
 46628-0780 USA  
 P 574-277-0707  
 F 574-273-5699



## CHAIN OF CUSTODY RECORD

Omega COCID 8122

PAGE: 1

OF: 1

SUB CONTRACTOR <b>Waypoint_Marrero L</b> COMPANY <b>Waypoint Analytical</b>		SPECIAL INSTRUCTIONS / COMMENTS					
ADDRESS <b>5041 Taravella Road</b>		Enterococci and Fecal streptococcus testing.					
CITY, STATE, ZIP <b>Marrero, LA 70072</b>							
PHONE <b>(504) 371-8557</b> FAX _____ EMAIL _____							
ACCOUNT # _____							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Metha HOT Sample Notation, Ad
1	19040350-001A N/A, N/A #	Greenwell Springs	16OZAMGU	Aqueous	4/5/2019 9:45:00 AM	1	
2	19040350-002A N/A, N/A #	Highland Rd-Ward	16OZAMGU	Aqueous	4/5/2019 9:03:00 AM	1	
3	19040350-003A N/A, N/A #	Oneal Ln/Jones Cre	16OZAMGU	Aqueous	4/5/2019 9:27:00 AM	1	
4	19040350-004A N/A, N/A #	Port Hudson-Pride	16OZAMGU	Aqueous	4/5/2019 9:05:00 AM	1	
5	19040350-005A N/A, N/A #	Grand Lakes/Bayou	16OZAMGU	Aqueous	4/5/2019 8:46:00 AM	1	

SampNum ClientSampID  
001A - Greenwell Springs Rd & Comite  
002A - Highland Rd-Ward Creek  
003A - Oneal Ln/Jones Creek  
004A - Port Hudson-Pride & Comite  
005A - Grand Lakes/Bayou Fountain

Relinquished By <b>Caitlin Duplantis</b>	Date <b>4/5/19</b>	Time	Received By	Date	Time	REPORT TRANSMITTAL DE: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/>	
Relinquished By	Date	Time	Received By	Date	Time		FOR LAB USE ONLY Temp of samples _____ °C Attempt 1 Comments _____
Relinquished By	Date	Time	Received By	Date	Time		
TAT: Standard <input type="checkbox"/> RUSH <input checked="" type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>							
Note: RUSH requests will incur surcharges!							

4/8/2019

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette, LA, 70508

Ref: Report Number: 19-095-0211  
Project Description: Baton Rouge DES - 19040350-002A

Dear Ms. Caitlin Duplantis:

Waypoint Analytical Louisiana, Inc. received sample(s) on 4/5/2019 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Please be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please do not hesitate to contact me or client services.

Sincerely,



Anthony J. Albert  
Laboratory Director

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.*





5041 Taravella Road, Marrero, LA 70072  
Main 504-371-8557 • Fax 504-371-8560  
[www.waypointanalytical.com](http://www.waypointanalytical.com)

#### Sample Summary Table

**Report Number:** 19-095-0211

**Client Project Description:** Baton Rouge DES - 19040350-002A

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
62322	Highland Rd - Ward Creek	Aqueous	04/05/2019 09:03	

01210

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette, LA 70508

Project : Baton Rouge DES - 19040350-002A  
Information :

Report Date : 04/08/2019  
Received : 04/05/2019



Report Number : **19-095-0211**

## REPORT OF ANALYSIS

Anthony J. Albert  
Laboratory Director

Lab No : **62322**

Sample ID : **Highland Rd - Ward Creek**

Matrix: **Aqueous**

Sampled: **4/5/2019 9:03**

Test	Results	Units	ML	DF	Date / Time Analyzed	By	Analytical Method
Enterococci	>2419.6	MPN/100mL	2	1	04/05/19 15:27	MJM	Enterolert
Fecal Coliform	>4839.2	MPN/100mL	2	1	04/05/19 15:25	MJM	Coli-18 Fecal

### Qualifiers/ Definitions

Dilution Factor

ML

Method Quantitation Limit

**Cooler Receipt Form**

Customer Number: **01210**

Customer Name: **Element Materials Technology**

Report Number: **19-095-0211**

**Shipping Method**

☐ Fed Ex      ☐ US Postal      ☐ Lab      ☐ Other :   
☐ UPS      ☒ Client      ☐ Courier      Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)	<input type="checkbox"/> Low concentration EnCore samplers (48 hr)		
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)	<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:






## Chain of Custody

Laboratory Number:

<b>Client Information:</b>	<b>Billing Information:</b>		<b>PO Number:</b>	<b>Project Name/Number:</b>	<b>Page</b> <b>of</b>
Company Name: Baton Rouge DES				<b>Matrix Code</b>  DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge SOL = Solid O = Oil SO = Soil F = Food SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid	
Contact Name: Sarah Boudreaux					
Address: 345 Chippewa St.			Sampler's Signature 		
City, State Zip: Baton Rouge, LA					
Phone Number: 225 650 6661	Ext: 				
Fax Number:			Shipping Method: UPS / FedEx / Airborne DHL / Element / Hand / Mail		
E-mail Address:					

Element Materials Technology  
Highland Rd - Ward Creek

19-095-0211  
01210  
04-05-2019  
14:59:58

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1		4/5/19 12:15		4/5/19 12:15	
2					Received at lab on ice?
3					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   Temp:

Page 10

novation Drive, Suite 115	Daleville, IN	47334-0569 USA	P 765-378-4103	F 765-378-4109
629 Washington St. Suite 300	Columbus, IN	47201-6231 USA	P 812-375-0531	F 812-375-0731
2121 East Washington Boulevard	Fort Wayne, IN	46803-1328 USA	P 260-471-7000	F 260-471-7777
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3371 Cleveland Road, Suite 100A	South Bend, IN	46628-9780 USA	P 574-277-0707	F 574-273-6540
2417 W. Pinhook Rd	Lafayette, LA	70508-3344 USA	P 337-235-0483	F 337-233-6540

4/8/2019

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette, LA, 70508

Ref: Report Number: 19-095-0213  
Project Description: Baton Rouge DES - 19040350-003A

Dear Ms. Caitlin Duplantis:

Waypoint Analytical Louisiana, Inc. received sample(s) on 4/5/2019 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Please be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please do not hesitate to contact me or client services.

Sincerely,



Anthony J. Albert  
Laboratory Director

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.*



5041 Taravella Road, Marrero, LA 70072  
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[www.waypointanalytical.com](http://www.waypointanalytical.com)

**Sample Summary Table**

**Report Number:** 19-095-0213

**Client Project Description:** Baton Rouge DES - 19040350-003A

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
62324	Oneal Ln/ Jones Creek	Aqueous	04/05/2019 09:27	

01210

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette, LA 70508

Project Baton Rouge DES - 19040350-003A  
Information :

Report Date : 04/08/2019  
Received : 04/05/2019



Anthony J. Albert  
Laboratory Director

Report Number : **19-095-0213**

## REPORT OF ANALYSIS

Lab No : **62324**  
Sample ID : **Oneal Ln/ Jones Creek**

Matrix: **Aqueous**  
Sampled: **4/5/2019 9:27**

Test	Results	Units	ML	DF	Date / Time Analyzed	By	Analytical Method
Enterococci	>2419.6	MPN/100mL	2	1	04/05/19 15:27	MJM	Enterolert
Fecal Coliform	>4839.2	MPN/100mL	2	1	04/05/19 15:25	MJM	Colilert-18 Fecal

### Qualifiers/ Definitions

Dilution Factor

ML

Method Quantitation Limit



## Cooler Receipt Form

Customer Number: **01210**

Customer Name: **Element Materials Technology**

Report Number: **19-095-0213**

### Shipping Method

☐ Fed Ex      ☐ US Postal      ☐ Lab      ☐ Other :   
☐ UPS      ☒ Client      ☐ Courier      Thermometer ID:

Shipping container/cooler uncompromised? ☒ Yes ☐ No

Number of coolers received

Custody seals intact on shipping container/cooler? ☐ Yes ☐ No ☒ Not Required

Custody seals intact on sample bottles? ☐ Yes ☐ No ☒ Not Required

Chain of Custody (COC) present? ☒ Yes ☐ No

COC agrees with sample label(s)? ☒ Yes ☐ No

COC properly completed ☒ Yes ☐ No

Samples in proper containers? ☒ Yes ☐ No

Sample containers intact? ☒ Yes ☐ No

Sufficient sample volume for indicated test(s)? ☒ Yes ☐ No

All samples received within holding time? ☒ Yes ☐ No

Cooler temperature in compliance? ☒ Yes ☐ No

Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun. ☒ Yes ☐ No

Water - Sample containers properly preserved ☒ Yes ☐ No ☐ N/A

Water - VOA vials free of headspace ☐ Yes ☐ No ☒ N/A

Trip Blanks received with VOAs ☐ Yes ☐ No ☒ N/A

Soil VOA method 5035 – compliance criteria met ☐ Yes ☐ No ☒ N/A

☐ High concentration container (48 hr)      ☐ Low concentration EnCore samplers (48 hr)  
☐ High concentration pre-weighed (methanol -14 d)      ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included? ☐ Yes ☒ No

Comments:

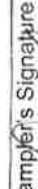
Signature:

Date & Time:

ement 62324

## Chain of Custody

Laboratory Number:


Client Information:	Billing Information:	PO Number:	Project Name/Number:	Page of
Company Name: Baton Rouge DES				Matrix Code  DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge SOL = Solid O = Oil SO = Soil F = Food SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid
Contact Name: Sarah Bandreaux		Quote Number:		
Address: 345 Chippewa St.		Required QC Level	Sampler's Signature 	
City, State Zip: Baton Rouge, LA			Shipping Method:  UPS / FedEx / Airborne DHL / Element / Hand / Mail	
Phone Number: 225 650 6661	Ext:	Bill Monthly		
Fax Number:		<input type="checkbox"/> Yes		
E-mail Address:		<input type="checkbox"/> No		



Element Materials Technology  
Oneal Ln/ Jones Creek

19-095-0213  
01210  
04-05-2019  
15:04:25

[illegible]

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1		4/5/19 12:15			
2					Received at lab on ice?
3					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp:

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

3307 Innovation Drive, Suite 115	Daleville, IN	47334-0569 USA	P 785-378-4103	F 785-378-4109
629 Washington St. Suite 300	Columbus, IN	47201-6231 USA	P 812-375-0531	F 812-375-0731
2121 East Washington Boulevard	Fort Wayne, IN	46803-1328 USA	P 260-471-7000	F 260-471-7777
560 South Zimmer Road	Warsaw, IN	46580-2368 USA	P 574-267-3305	F 574-269-5669
3371 Cleveland Road, Suite 100A	South Bend, IN	46628-9780 USA	P 574-277-0707	F 574-273-5699
2417 W. Pinhook Rd	Lafayette, LA	70508-3344 USA	P 337-235-0483	F 337-233-6540



## CHAIN OF CUSTODY RECORD

Omega COCID 8122

PAGE: 1

OF: 1

SUB CONTRACTOR	Waypoint_Marrero L	COMPANY	Waypoint Analytical	SPECIAL INSTRUCTIONS / COMMENTS Enterococci and fecal streptococcus testing.
ADDRESS	5041 Taravella Road			
CITY, STATE, ZIP	Marrero, LA 70072			
PHONE	(504) 371-8557	FAX	EMAIL	
ACCOUNT #				

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methar HOT Sample Notation: Ad
1	19040350-001A N/A, N/A #	Greenwell Springs	16OZAMGU	Aqueous	4/5/2019 9:45:00 AM	1	
2	19040350-002A N/A, N/A #	Highland Rd-Ward	16OZAMGU	Aqueous	4/5/2019 9:03:00 AM	1	
3	19040350-003A N/A, N/A #	Oneal Ln/Jones Cre	16OZAMGU	Aqueous	4/5/2019 9:27:00 AM	1	
4	19040350-004A N/A, N/A #	Port Hudson-Pride	16OZAMGU	Aqueous	4/5/2019 9:05:00 AM	1	
5	19040350-005A N/A, N/A #	Grand Lakes/Bayou	16OZAMGU	Aqueous	4/5/2019 8:46:00 AM	1	

## SampNum ClientSampID

001A - Greenwell Springs Rd & Comite  
002A - Highland Rd-Ward Creek  
003A - Oneal Ln/Jones Creek  
004A - Port Hudson-Pride & Comite  
005A - Grand Lakes/Bayou Fountain

Relinquished By:	Date	Time	Received By	Date	Time	REPORT TRANSMITTAL DES <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/>  FOR LAB USE ONLY Temp of samples _____ °C Attempt 1 Comments: _____
Relinquished By:	Date	Time	Received By	Date	Time	
Relinquished By:	Date	Time	Received By	Date	Time	
TAT: Standard <input type="checkbox"/> RUSH Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/> Note: RUSH requests will incur surcharges!						

4/8/2019

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette, LA, 70508

Ref: Report Number: 19-095-0214  
Project Description: Baton Rouge DES - 19040350-004A

Dear Ms. Caitlin Duplantis:

Waypoint Analytical Louisiana, Inc. received sample(s) on 4/5/2019 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Please be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please do not hesitate to contact me or client services.

Sincerely,



Anthony J. Albert  
Laboratory Director

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.*

Page 23 of 39





**Sample Summary Table**

**Report Number:** 19-095-0214

**Client Project Description:** Baton Rouge DES - 19040350-004A

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
62325	Port Hudson - Pride & Comite	Aqueous	04/05/2019 09:05	



5041 Taravella Road, Marrero, LA 70072  
Main 504-371-8557 ° Fax 504-371-8560  
www.waypointanalytical.com

01210

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette , LA 70508

Project      Baton Rouge DES - 19040350-004A  
Information :

Report Date : 04/08/2019  
Received : 04/05/2019

Anthony J. Albert  
Laboratory Director

Report Number : **19-095-0214**

**REPORT OF ANALYSIS**

Lab No : **62325**

Matrix: **Aqueous**

Sample ID : **Port Hudson - Pride & Comite**

Sampled: **4/5/2019 9:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Enterococci	>2419.6	MPN/100mL	2	1	04/05/19 15:27	MJM	Enterolert
Fecal Coliform	>4839.2	MPN/100mL	2	1	04/05/19 15:25	MJM	Colilert-18 Fecal

**Qualifiers/  
Definitions**

Dilution Factor

MQL

Method Quantitation Limit

**Cooler Receipt Form**

Customer Number: **01210**

Customer Name: **Element Materials Technology**

Report Number: **19-095-0214**

**Shipping Method**

☐ Fed Ex      ☐ US Postal      ☐ Lab      ☐ Other :   
☐ UPS      ☒ Client      ☐ Courier      Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)	<input type="checkbox"/> Low concentration EnCore samplers (48 hr)		
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)	<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:







## CHAIN OF CUSTODY RECORD

Omega COCID 8122

PAGE: 1

OF: 1

SUB CONTRACTOR: <b>Waypoint_Marrero L</b>	COMPANY: <b>Waypoint Analytical</b>	SPECIAL INSTRUCTIONS / COMMENTS Enterococci and Fecal streptococcus testing
ADDRESS: <b>5041 Taravella Road</b>		
CITY, STATE, ZIP: <b>Marrero, LA 70072</b>		
PHONE: <b>(504) 371-8557</b>	FAX: _____ EMAIL: _____	
ACCOUNT # _____		

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Meibohm HOT Sample Notation. Ad
1	19040350-001A N/A, N/A #	Greenwell Springs	16OZAMGU	Aqueous	4/5/2019 9:45:00 AM	1	
2	19040350-002A N/A, N/A #	Highland Rd-Ward	16OZAMGU	Aqueous	4/5/2019 9:03:00 AM	1	
3	19040350-003A N/A, N/A #	Oneal Ln/Jones Cre	16OZAMGU	Aqueous	4/5/2019 9:27:00 AM	1	
4	19040350-004A N/A, N/A #	Port Hudson-Pride	16OZAMGU	Aqueous	4/5/2019 9:05:00 AM	1	
5	19040350-005A N/A, N/A #	Grand Lakes/Bayou	16OZAMGU	Aqueous	4/5/2019 8:46:00 AM	1	

## SampNum ClientSampID

001A - Greenwell Springs Rd & Comite  
002A - Highland Rd-Ward Creek  
003A - Oneal Ln/Jones Creek  
004A - Port Hudson-Pride & Comite  
005A - Grand Lakes/Bayou Fountain

Relinquished By: <b>Carlin Duplantis</b>	Date: <b>4/5/19</b>	Time: _____	Received By: _____	Date: _____	Time: _____	REPORT TRANSMITTAL DE: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/>	
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____		FOR LAB USE ONLY Temp of samples: _____ °C Attempt: _____ Comments: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____		
TAT: Standard <input type="checkbox"/> RUSH <input type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>							
Note: RUSH requests will incur surcharges!							

4/8/2019

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette, LA, 70508

Ref: Report Number: 19-095-0215  
Project Description: Baton Rouge DES - 19040350-005A

Dear Ms. Caitlin Duplantis:

Waypoint Analytical Louisiana, Inc. received sample(s) on 4/5/2019 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Please be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please do not hesitate to contact me or client services.

Sincerely,



Anthony J. Albert  
Laboratory Director

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.*

Page 29 of 39



**Sample Summary Table**

**Report Number:** 19-095-0215

**Client Project Description:** Baton Rouge DES - 19040350-005A

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
62326	Grand Lakes / Bayou Fountain	Aqueous	04/05/2019 08:46	



5041 Taravella Road, Marrero, LA 70072  
Main 504-371-8557 ° Fax 504-371-8560  
www.waypointanalytical.com

01210

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette , LA 70508

Project Baton Rouge DES - 19040350-005A  
Information :

Report Date : 04/08/2019  
Received : 04/05/2019

Anthony J. Albert  
Laboratory Director

Report Number : **19-095-0215**

**REPORT OF ANALYSIS**

Lab No : **62326**

Matrix: **Aqueous**

Sample ID : **Grand Lakes / Bayou Fountain**

Sampled: **4/5/2019 8:46**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Enterococci	>2419.6	MPN/100mL	2	1	04/05/19 15:27	MJM	Enterolert
Fecal Coliform	>4839.2	MPN/100mL	2	1	04/05/19 15:25	MJM	Colilert-18 Fecal

**Qualifiers/  
Definitions**

Dilution Factor

MQL

Method Quantitation Limit



## Cooler Receipt Form

Customer Number: **01210**

Customer Name: **Element Materials Technology**

Report Number: **19-095-0215**

### Shipping Method

☐ Fed Ex      ☐ US Postal      ☐ Lab      ☐ Other :   
☐ UPS      ☒ Client      ☐ Courier      Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)	<input type="checkbox"/> Low concentration EnCore samplers (48 hr)		
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)	<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:



## Chain of Custody



62324

ement



Client Information:		Billing Information:		PO Number:		Project Name/Number:		Page of	
Company Name:		Baton Rouge DES						Matrix Code	
Contact Name:		Sarah Boudreaux						DW = Drinking Water	
Address:		345 Chipmunk St.						WW = Waste Water	
								GW = Ground Water	
City, State Zip:		Baton Rouge, LA						AQ = Aqueous	
Phone Number:		225 615 0661		Ext:				OT = Other	
Fax Number:				Bill Monthly				SL = Sludge	
				<input type="checkbox"/> Yes <input type="checkbox"/> No				O = Oil	
E-mail Address:		sahouclreaux@brla.gov						F = Food	
								NG = Natural Gas	
								NGL = Natural Gas Liquid	
								PW = Produced Water	
								CF = Completion Fluid	
								Shipping Method:	
								UPS / FedEx / Airborne DHL / Element / Hand / Mail	
								Sampler's Signature	
								Required QC Level	

[illegible]

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1		4/5/19 12:15		4/5/19 12:15	
2					
3					

Received at lab on ice?  
☒ Yes ☐ No Temp: \_\_\_\_\_

Innovation Drive, Suite 115 Daleville, IN 47334-0569 USA P 765-378-4103 F 765-378-4109	629 Washington St. Suite 300 Columbus, IN 47201-6231 USA P 812-375-0531 F 812-375-0731	2121 East Washington Boulevard Fort Wayne, IN 46803-1328 USA P 260-471-7000 F 260-471-7777	560 South Zimmer Road Warsaw, IN 46580-3368 USA P 574-267-3305 F 574-269-6569	3371 Cleveland Road, Suite 100A South Bend, IN 46628-9780 USA P 574-277-0707 F 574-273-5699	2417 W. Pinhook Rd Lafayette, LA 70508-3344 USA P 337-235-0483 F 337-233-6540
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Page 5 of 6



## CHAIN OF CUSTODY RECORD

Omega COCID 8122

PAGE: 1

OF: 1

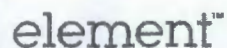
SUB CONTRACTOR	Waypoint_Marrero L	COMPANY	Waypoint Analytical	SPECIAL INSTRUCTIONS / COMMENTS Enterococci and Fecal streptococcus testing
ADDRESS:	5041 Taravella Road			
CITY, STATE, ZIP	Marrero, LA 70072			
PHONE	(504) 371-8557	FAX	EMAIL	
ACCOUNT #:				

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Metha HOT Sample Notation, Ad
1	19040350-001A N/A, N/A #	Greenwell Springs	16OZAMGU	Aqueous	4/5/2019 9:45:00 AM	1	
2	19040350-002A N/A, N/A #	Highland Rd-Ward	16OZAMGU	Aqueous	4/5/2019 9:03:00 AM	1	
3	19040350-003A N/A, N/A #	Oneal Ln/Jones Cre	16OZAMGU	Aqueous	4/5/2019 9:27:00 AM	1	
4	19040350-004A N/A, N/A #	Port Hudson-Pride	16OZAMGU	Aqueous	4/5/2019 9:05:00 AM	1	
5	19040350-005A N/A, N/A #	Grand Lakes/Bayou	16OZAMGU	Aqueous	4/5/2019 8:46:00 AM	1	


## SampNum ClientSampID

001A - Greenwell Springs Rd & Comite  
002A - Highland Rd-Ward Creek  
003A - Oneal Ln/Jones Creek  
004A - Port Hudson-Pride & Comite  
005A - Grand Lakes/Bayou Fountain



Relinquished By: Caitlin Duplantis	Date: 4/5/19	Time:	Received By:	Date:	Time:	REPORT TRANSMITTAL DI <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/>	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		FOR LAB USE ONLY Temp of samples _____ °C    Attemp Comments: _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		
<b>TAT:</b> Standard <input type="checkbox"/> RUSH <input type="checkbox"/> Next DD <input type="checkbox"/> 2nd DD <input type="checkbox"/> 3rd DD <input type="checkbox"/>							
Note: RUSH requests will incur surcharges!							



Laboratory Number: 19040350

Company Name: Contact Name: Address:  City, State Zip:  Phone Number: Fax Number:  E-mail Address:	Client Information:	Billing Information:	PO Number:	Project Name/Number:	Page of <b>Matrix Code</b>  DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge    SOL = Solid O = Oil        SO = Soil F = Food       SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid
	Baton Rouge DES			800001878	
	Sarah Boudreaux		Quote Number:		
	345 Chippewa Street		Required QC Level	Sampler's Signature 	
	Baton Rouge, LA		Bill Monthly	Shipping Method:	
2256150661    Ext:		Ext:	<input type="checkbox"/> Yes <input type="checkbox"/> No	UPS / FedEx / Airborne DHL / Element / Hand / Mail	
	SAboudreaux@brla.gov				

[illegible]

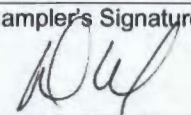
	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1		4/5/19 12:15		4/5/19 12:15	
2					Received at lab on ice?
3					<input type="checkbox"/> Yes <input type="checkbox"/> No Temp:

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

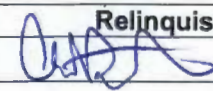
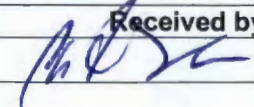


# Chain of Custody

Laboratory  
Number: 19040350

Company Name: Contact Name: Address: City, State Zip: Phone Number: Fax Number: E-mail Address:	<b>Client Information:</b>	<b>Billing Information:</b>	PO Number:	Project Name/Number:	Page of <b>Matrix Code</b> DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge SOL = Solid O = Oil SO = Soil F = Food SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid
	Baton Rouge DES				
	Sarah Boudreaux		Quote Number:		
	345 Chippewa St.		Required QC Level	Sampler's Signature 	
	Baton Rouge, LA		Bill Monthly	Shipping Method:	
	Ext:	Ext:	<input type="checkbox"/> Yes <input type="checkbox"/> No	UPS / FedEx / Airborne DHL / Element / Hand / Mail	

Which Regulations Apply:		Turn Time		(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container		Pres.	Requested Tests										Comments
<input type="checkbox"/> RCRA <input type="checkbox"/> Drinking Water <input type="checkbox"/> POTW <input type="checkbox"/> Distribution <input type="checkbox"/> NPDES <input type="checkbox"/> Special <input type="checkbox"/> USDA/FDA <input type="checkbox"/> State <input type="checkbox"/> RECAP/RISC <input type="checkbox"/> Other		<input type="checkbox"/> Standard <input type="checkbox"/> RUSH <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> Other			Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>											
Sample ID/Description		Date	Time	Grab / Composite	Matrix													
Highland Rd - Ward Creek		4/5/19	9:03 AM	Grab	W	1	P											

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1		4/5/19 12:15		4/5/19 12:15	
2					Received at lab on ice?
3					<input type="checkbox"/> Yes <input type="checkbox"/> No Temp:

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.



element™

62324

## Chain of Custody

Laboratory  
Number: 19040350Company  
Name:  
Contact Name:  
Address:  
City, State Zip:  
Phone  
Number:  
Fax Number:  
E-mail  
Address:

## Client Information:

Baton Rouge DES  
Sarah Boudreaux  
345 Chippewa St.

Baton Rouge, LA

225 665 0661

## Billing Information:

PO Number:

Quote Number:

Required QC Level

Bill Monthly

☐ Yes☐ No

Project Name/Number:

Sampler's Signature

Shipping Method:

UPS / FedEx / Airborne  
DHL / Element / Hand / Mail

Page of

## Matrix Code

DW = Drinking Water  
WW = Waste Water  
GW = Ground Water  
AQ = Aqueous  
OT = Other  
SL = Sludge SOL = Solid  
O = Oil SO = Soil  
F = Food SW = Swab  
NG = Natural Gas  
NGL = Natural Gas Liquid  
PW = Produced Water  
CF = Completion Fluid

Which Regulations Apply:		Turn Time		(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container		Pres.	Requested Tests										Cc	
<input type="checkbox"/> RCRA	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Standard	<input type="checkbox"/> RUSH		Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>												
<input type="checkbox"/> POTW	<input type="checkbox"/> Distribution	<input type="checkbox"/> 1 Day																	
<input type="checkbox"/> NPDES	<input type="checkbox"/> Special	<input type="checkbox"/> 2 Day																	
<input type="checkbox"/> USDA/FDA	<input type="checkbox"/> State	<input type="checkbox"/> Other																	
<input type="checkbox"/> RECAP/RISC	<input type="checkbox"/> Other																		
Sample ID/Description		Collection Information			Matrix	Quantity	Type	Pres.	Requested Tests										Cc
Date	Time	Grab / Composite																	
Oneal Ln / Jones Creek	4/5/19	9:27	Grab	W	1	P													
		AM																	

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1		4/5/19 12:15			
2					Received at lab on ice?
3					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp:

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

9301 Innovation Drive, Suite 115  
Daleville, IN  
47334-0569 USA  
P 765-378-4103  
F 765-378-4109

629 Washington St. Suite 300  
Columbus, IN  
47201-6231 USA  
P 812-375-0531  
F 812-375-0731

2121 East Washington Boulevard  
Fort Wayne, IN  
46803-1328 USA  
P 260-471-7000  
F 260-471-7777

560 South Zimmer Road  
Warsaw, IN  
46580-2368 USA  
P 574-267-3305  
F 574-269-6569

3371 Grand Road, Suite 100A  
South Bend, IN  
46628-9780 USA  
P 574-277-0707  
F 574-273-5699

2417 W. Pinhook Rd  
Lafayette, LA  
70508-3344 USA  
P 337-235-0483  
F 337-233-6540

19-095-0213  
01210  
04-05-2019  
15:04:25  
Element Materials Technology  
Oneal Ln / Jones Creek





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62325

## Chain of Custody

Laboratory  
Number:

19040350

Company Name: Contact Name: Address: City, State Zip: Phone Number: Fax Number: E-mail Address:	<b>Client Information:</b>	<b>Billing Information:</b>	PO Number:	Project Name/Number:	Page of <b>Matrix Code</b> DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge SOL = Solid O = Oil SO = Soil F = Food SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid
	Baton Rouge DES			800001878	
	Sarah Boudreaux		Quote Number:		
	345 Chippewa Street		Required QC Level		
	Baton Rouge, LA		Bill Monthly		
	2256150661 Ext:		Ext:	Sampler's Signature 	
				<input type="checkbox"/> Yes <input type="checkbox"/> No	Shipping Method: UPS / FedEx / Airborne DHL / Element / Hand / Mail
	SAboudreaux@brla.gov				

Which Regulations Apply:		Turn Time		(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container		Pres.	Requested Tests										Comments
<input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RISC		<input type="checkbox"/> Drinking Water <input type="checkbox"/> Distribution <input type="checkbox"/> Special <input type="checkbox"/> State <input checked="" type="checkbox"/> Other			<input type="checkbox"/> Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> Other		Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Fecal Coliform	Fecal streptococcus	Enterococcus	XXXXXX	XXXXXX				
Sample ID/Description		Date	Time	Grab / Composite	Matrix													
Port Hudson - Pride & Comite		4/5/19	9:05 AM	Grab	W	1	P											

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1		4/5/19 12:15		4/5/19 12:15	
2					Received at lab on ice?
3					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp:

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

9301 Innovation Drive, Suite 115  
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P 574-267-3305  
F 574-269-6569

3376 Cleveland Road, Suite 100A  
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46628-9780 USA  
P 574-277-0707  
F 574-273-5699

2417 W. Pinhook Rd  
Lafayette, LA  
70508-3344 USA  
P 337-235-0483  
F 337-233-6540

Element Materials Technology  
Port Hudson - Pride & Comite  
19-095-0214  
01210  
04-05-2019  
15:06:17



element™

62324

## Chain of Custody

Laboratory  
Number:

19040350

Company Name: Contact Name: Address: City, State Zip: Phone Number: Fax Number: E-mail Address:	<b>Client Information:</b>	<b>Billing Information:</b>	PO Number:	Project Name/Number:	Page of <b>Matrix Code</b> DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge SOL = Solid O = Oil SO = Soil F = Food SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid
	Baton Rouge DES				
	Sarah Boudreaux		Quote Number:		
	345 Chippewa St.		Required QC Level	Sampler's Signature 	
	Baton Rouge, LA		Bill Monthly	Shipping Method:	
225 615 0661	Ext:	Ext:	<input type="checkbox"/> Yes	UPS / FedEx / Airborne	
			<input type="checkbox"/> No	DHL / Element / Hand / Mail	
	Saboudreaux@brla.gov				

Which Regulations Apply:		Turn Time		(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container		Pres.	Requested Tests										Comments	
<input type="checkbox"/> RCRA	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Standard	<input type="checkbox"/> RUSH		Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>												
<input type="checkbox"/> POTW	<input type="checkbox"/> Distribution	<input type="checkbox"/> 1 Day																	
<input type="checkbox"/> NPDES	<input type="checkbox"/> Special	<input type="checkbox"/> 2 Day																	
<input type="checkbox"/> USDA/FDA	<input type="checkbox"/> State	<input type="checkbox"/> Other																	
<input type="checkbox"/> RECAP/RISC	<input type="checkbox"/> Other																		
Sample ID/Description		Collection Information		Matrix															
Date	Time	Grab / Composite																	
Grand Lakes / Bayou Fountain	4/5/19	8:46 Am	Grab	W	1	P													

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1		4/5/19 12:15		4/5/19 12:15	
2					Received at lab on ice?
3					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp:

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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560 South Zimmer Road  
Warsaw, IN  
46580-2368 USA  
P 574-267-3305  
F 574-269-6569

3370 Cleveland Road, Suite 100A  
South Bend, IN  
46628-9780 USA  
P 574-277-0707  
F 574-273-5699

2417 W. Pinhook Rd  
Lafayette, LA  
70508-3344 USA  
P 337-235-0483  
F 337-233-6540

Element Materials Technology  
Grand Lakes / Bayou Fountain  
19-095-0215  
01210  
04-05-2019  
15:09:26



**Environmental Results Monitoring Program  
Phase II, Quarter 3 Results**

4949 Essen Lane  
Baton Rouge, LA 70809

www.jacobs.com

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<b>Subject</b>	<b>Environmental Results Monitoring Project Name</b>	Baton Rouge SSOP
	<b>Program Phase II, Quarter 3 Results</b>	
<b>Attention</b>	Mr. Richard Speer, P.E. Director, Department of Environmental Services City of Baton Rouge, Louisiana	<b>Project No.</b> BTRSSO16
<b>From</b>	Obie Watts, P.E.	
<b>Date</b>	July 18, 2019 Revised January 6, 2020	
<b>Copies to</b>	File	

---

## Purpose

On August 23, 2019, the City of Baton Rouge, Parish of East Baton Rouge conducted the 2<sup>nd</sup> quarterly Phase II Baseline Monitoring event, as required by the 2002 Consent Decree. The purpose of this memorandum is to characterize the rain event, summarize the sampling procedures, and report laboratory analysis results. Background information on the Environmental Results Monitoring (ERM) program can be found in the ERM Plan (Exhibit G of the Consent Decree).

This is a revised version of the July 18, 2019 to show corrected cumulative precipitation depths that were in error on the original document.

## Rain Event

Rainfall data was recorded at USGS monitoring stations located upstream of each of the designated sample locations. The locations of the observed USGS monitoring stations are shown in Figure 1.

Cumulative precipitation from the rain event over August 21-23, 2019 is shown in Figure 2. The event had a relatively short duration, with the highest-intensity rainfall occurring during 3:15 to 4:30 PM on August 21. A summary of the rainfall at each sample site is provided in Table 1.

## Procedures

One grab sample was taken from each of the five designated sample sites between the hours of 7:15 AM and 8:17 AM. Samples were taken from the approximate center of each stream. Grab samples from each site were poured into three separate laboratory-prepared sample containers, which were labeled with the

sample date, time, and location name immediately following sample collection. Samples were stored on ice and delivered to the laboratory immediately following collection of the final sample.

All samples were analyzed at the local laboratory for the parameters established in the ERM plan, which include fecal coliform, fecal streptococcus, and enterococcus. Sample holding times and laboratory procedures conformed with those outlines in the USEPA “Methods for Chemical Analysis of Water and Wastes”, 1983, and USEPA “Test Methods for the Examination of Solid Waste – SW846”, 1992.

## **Results**

Results of laboratory analyses are summarized in Table 2. Further analysis of these results based on future water quality and stream flow data will be conducted upon completion of Phase I Baseline Monitoring. Gage height data from August 21-23, 2019, recorded at USGS stream flow monitoring stations upstream of each sample location, are shown in Figure 3.

## Tables

**Table 1: Sample Time/Rainfall Summary for Phase II, Quarter 3**

Location	Sample Date and Time	Total Rainfall (in)	Peak Intensity (in/hr)	Peak Intensity Date and Time
Comite R. at Greenwell Springs Rd. <sup>a</sup>	8/23/19 7:15 AM	0.41	0.28	8/21/19 3:53 PM
Bayou Fountain at Grand Lakes Dr.	8/23/19 7:18 AM	0.91	0.72	8/21/19 3:15 PM
Ward Cr. at Highland Rd.	8/23/19 7:46 AM	3.09	2.87	8/21/19 3:30 PM
Comite R. at Port Hudson-Pride Rd.	8/23/19 7:50 AM	0.20	0.10	8/21/19 4:30 PM
Jones Cr. at O'Neal Ln.	8/23/19 8:17 AM	0.52	0.36	8/21/19 3:45 PM

<sup>a</sup> The Comite River at Greenwell Springs gage does not have a precipitation gage. The hourly rainfall recorded at Baton Rouge airport is listed as a substitute for rainfall recorded at the gage.

In: Inches; hr: Hour

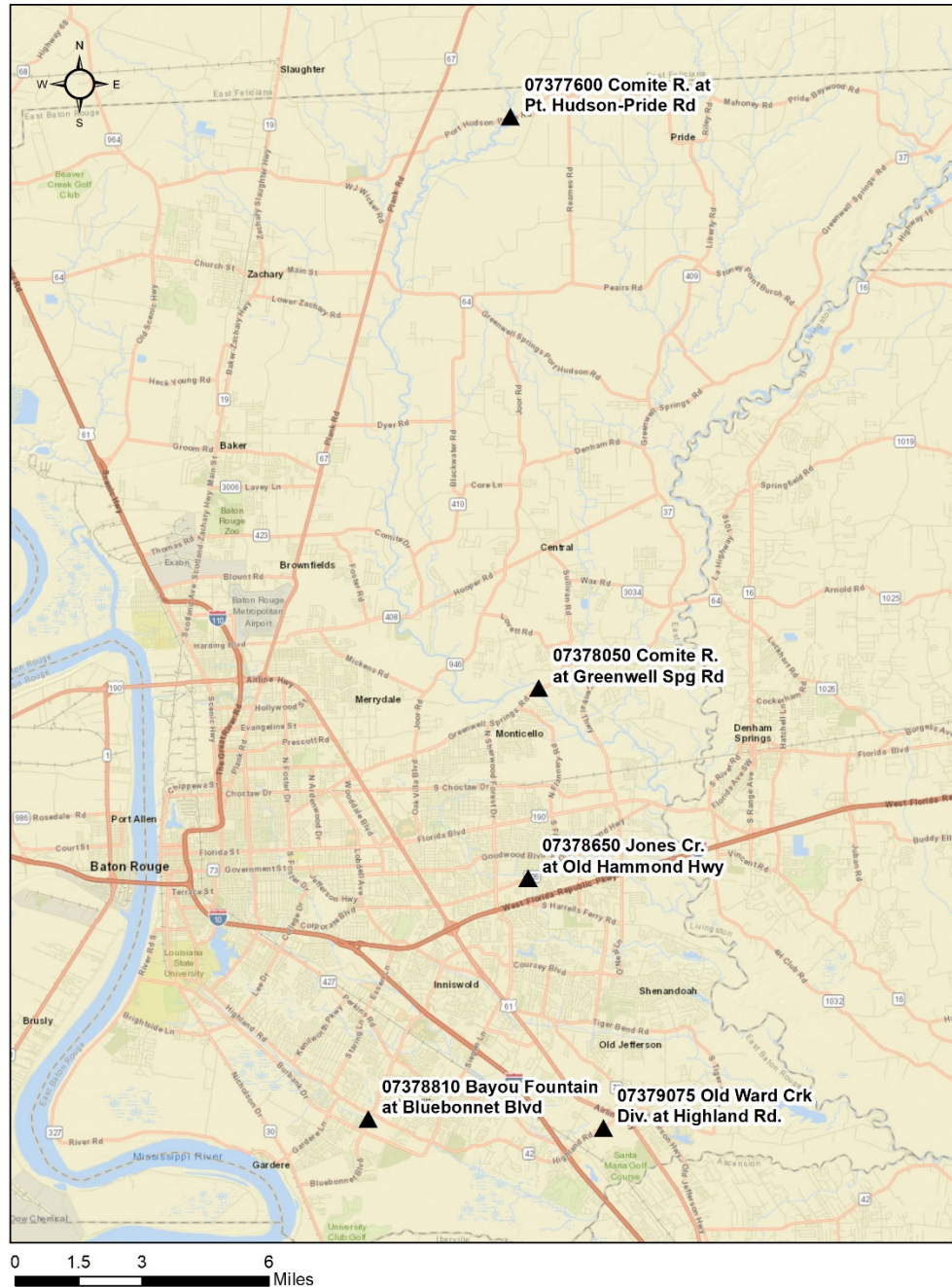
**Table 2: Water Quality Sampling Results for Phase II, Quarter 3**

Location	Sample Date and Time	Fecal Coliform (MPN/100 mL)	Enterococci (MPN/100 mL)
Comite R. at Greenwell Springs Rd. <sup>a</sup>	8/23/19 7:15 AM	>2419.6	>2419.6
Bayou Fountain at Grand Lakes Dr.	8/23/19 7:18 AM	>2419.6	1990
Ward Cr. at Highland Rd.	8/23/19 7:46 AM	>2419.6	>2419.6
Comite R. at Port Hudson-Pride Rd.	8/23/19 7:50 AM	727	461
Jones Cr. at O'Neal Ln.	8/23/19 8:17 AM	>2419.6	>2419.6

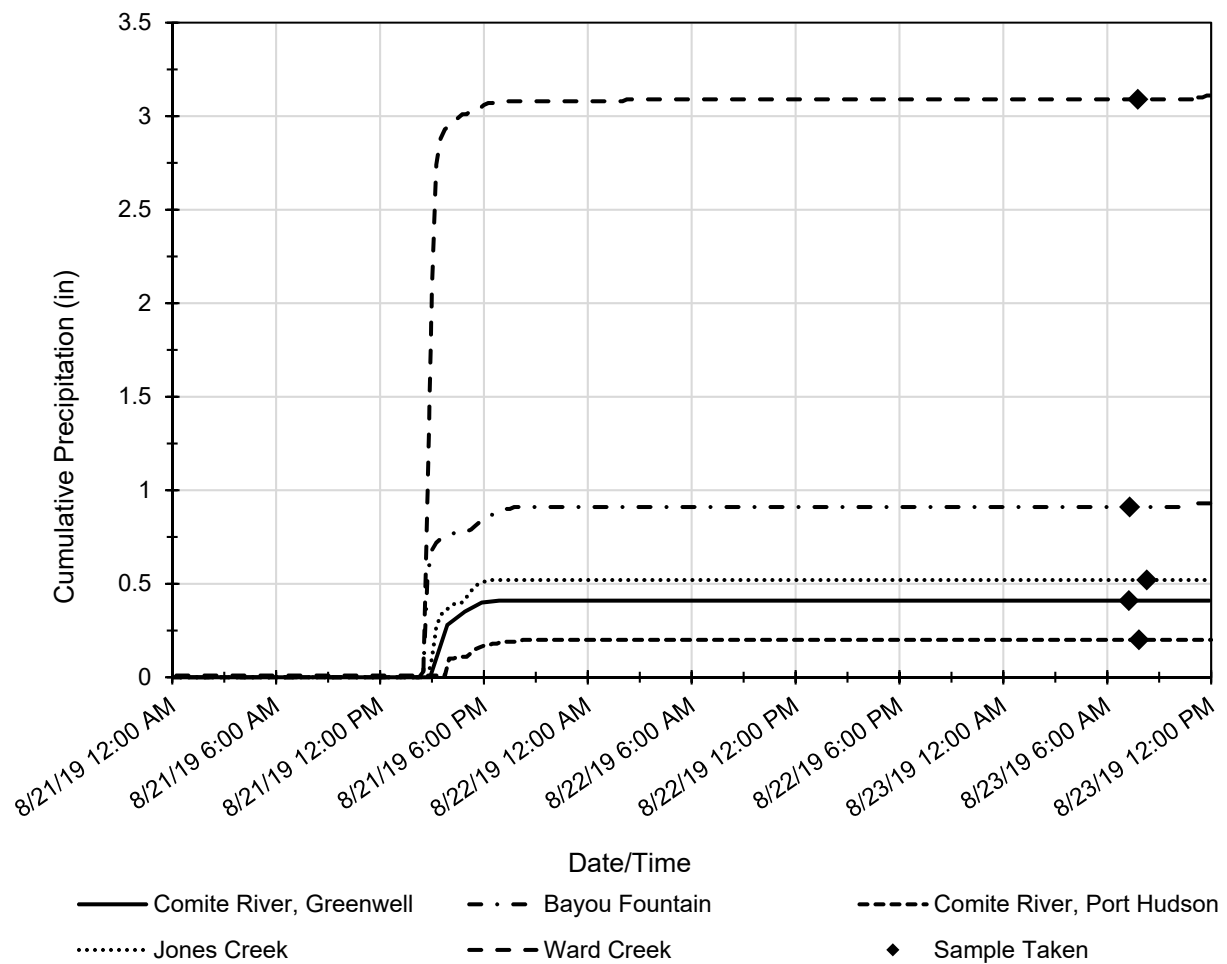
MPN: Most Probable Number; mL: Milliliters



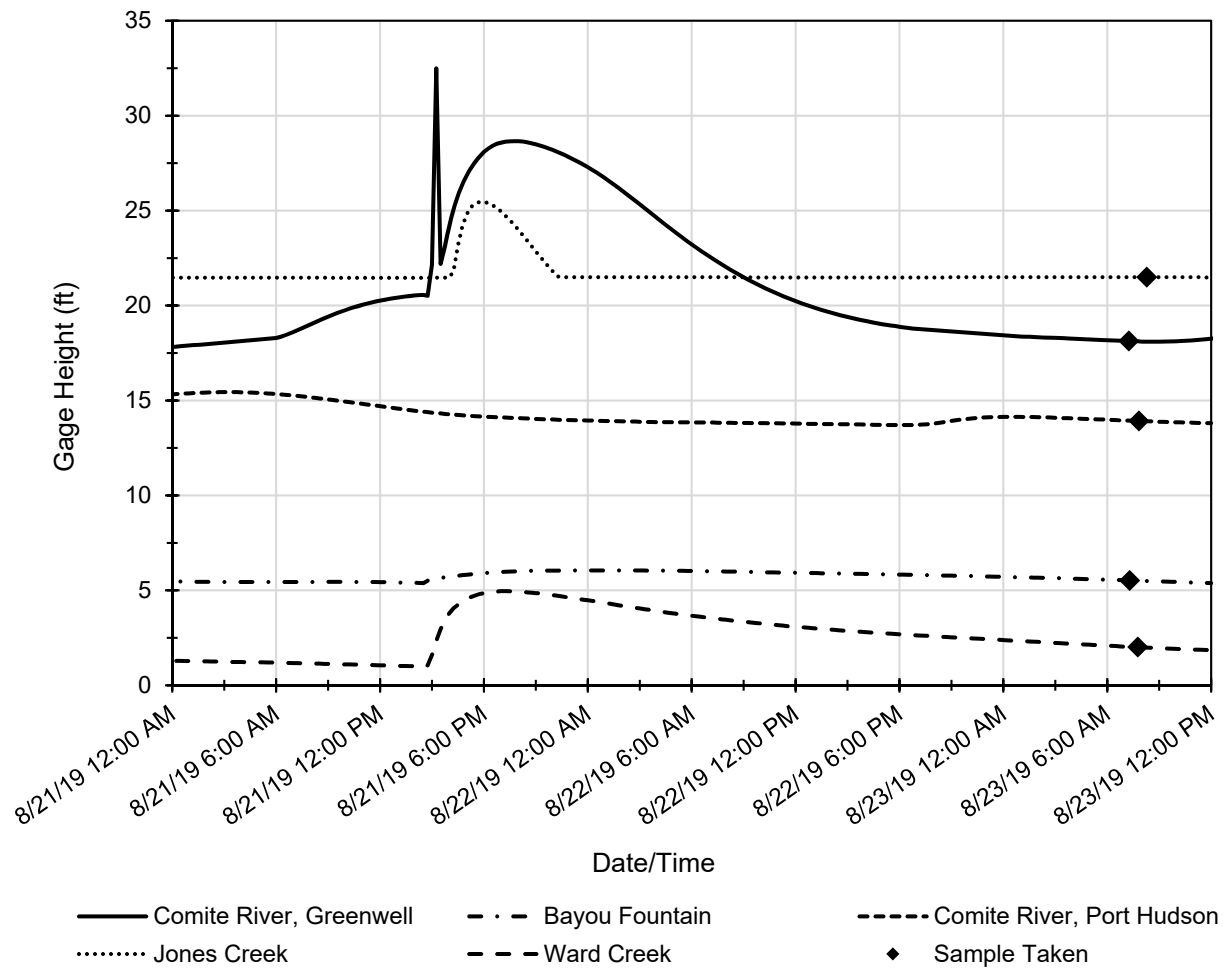
## Figures



**Figure 1: Sampling Locations**



**Figure 2: August 21-23, 2019 Cumulative Precipitation**



**Figure 3: August 21-23, 2019 USGS Gage Height**



*Element Materials Technology Lafayette*  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

August 27, 2019

Sarah Boudreaux  
East Baton Rouge Parish Pretreatment Division  
345 Chippewa St.  
Baton Rouge, LA 70805  
TEL:  
FAX:

RE: O'Neal & Jones Creek JC-0819-W

Order No.: 19081142

Dear Sarah Boudreaux:

Element Materials Technology Lafayette received 1 sample(s) on 8/22/2019 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA180028. ISDH Certification No.: C-LA-01. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibaux  
Customer Service Supervisor  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344





Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

## Case Narrative

WO#: 19081142  
Date: 8/27/2019

---

**CLIENT:** East Baton Rouge Parish Pretreatment Divi  
**Project:** O'Neal & Jones Creek JC-0819-W

---

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).

The Enterococci with Fecal Coliform analysis was subcontracted to Waypoint Analytical. Their report is attached in its entirety.

Note: Both Element and the sub lab, Waypoint Analytical, were provided with a sample to analyze for Fecal Coliform. The client was made aware of the issue and the lab was authorized to provide both results in the report.



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## Analytical Report

(consolidated)

WO#: 19081142

Date Reported: 8/27/2019

**CLIENT:** East Baton Rouge Parish Pretreatment Division **Collection Date:** 8/22/2019 8:17:00 AM  
**Project:** O'Neal & Jones Creek JC-0819-W  
**Lab ID:** 19081142-001 **Matrix:** AQUEOUS  
**Client Sample ID** O'Neal & Jones Creek JC-0819-W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18	Analyst: SD	
Fecal Coliform	1,010	1.0		MPN/100mL	1	8/22/2019 12:43:00 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## QC SUMMARY REPORT

WO#: 19081142

27-Aug-19

**Client:** East Baton Rouge Parish Pretreatment Division

**Project:** O'Neal & Jones Creek JC-0819-W

**BatchID:** R81376

Sample ID: <b>MB-R81376</b>	SampType: <b>MBLK</b>	TestCode: <b>FECAL_COLI</b>	Units: <b>MPN/100mL</b>	Prep Date:	RunNo: <b>81376</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R81376</b>	TestNo: <b>Colilert-18</b>		Analysis Date: <b>8/22/2019</b>	SeqNo: <b>2040295</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	< 1.0	1.0									

Sample ID: 19081139-002ADUP	SampType: DUP	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 81376						
Client ID: ZZZZZZ	Batch ID: R81376	TestNo: Colilert-18		Analysis Date: 8/22/2019	SeqNo: 2040297						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	31.0	10.0						10.0	102	20	R

**NOTES:**

R - High RPD due to low analyte concentration. In this range, high RPD's may be expected.

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## Sample Log-In Check List

Client Name: **EAST\_BR\_PRETREATM**

Work Order Number: **19081142**

RcptNo: **1**

Logged by: **Danielle Hollier** **8/22/2019 11:26:00 AM**

*Danielle Hollier*

Completed By: **Danielle Hollier** **8/22/2019 11:49:53 AM**

*Danielle Hollier*

Reviewed By: **Caitlin Duplantis** **8/27/2019 11:26:48 AM**

*Caitlin Duplantis*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐  
4. Shipping container/cooler in good condition? Yes ☒ No ☐  
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒  
No. Seal Date: Signed By:  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels? Yes ☒ No ☐  
(Note discrepancies on chain of custody)  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met? Yes ☒ No ☐  
(If no, notify customer for authorization.)

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:  Date:   
By Whom:  Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding:   
Client Instructions:

18. Additional remarks:

Enterococci sample was delivered directly to Waypoint.

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Not Present			



8/26/2019

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette, LA, 70508

Ref: Report Number: 19-234-0005  
Project Description: JC-0819-W

Dear Ms. Caitlin Duplantis:

Waypoint Analytical Louisiana, Inc. received sample(s) on 8/22/2019 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

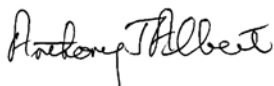
Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Please be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please do not hesitate to contact me or client services.

Sincerely,



Anthony J. Albert  
Laboratory Director

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.*



**Sample Summary Table**

**Report Number:** 19-234-0005

**Client Project Description:** JC-0819-W

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
66899	O'Neal & Jones Creek	Aqueous	08/22/2019 08:17	08/22/2019

01210

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette , LA 70508

Project JC-0819-W  
Information :

Report Date : 08/26/2019  
Received : 08/22/2019



Report Number : **19-234-0005**

## REPORT OF ANALYSIS

Anthony J. Albert  
Laboratory Director

Lab No : **66899**

Matrix: **Aqueous**

Sample ID : **O'Neal & Jones Creek**

Sampled: **8/22/2019 8:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Enterococci	> <b>2419.6</b>	MPN/100mL	1	1	08/22/19 12:15	AD	Enterolert
Fecal Coliform	> <b>2419.6</b>	MPN/100mL	< 1	1	08/22/19 14:52	DAV	Colilert-18 Fecal

### Qualifiers/ Definitions

DF Dilution Factor  
MQL Method Quantitation Limit

L Limit Exceeded

## Cooler Receipt Form

Customer Number: **01210**

Customer Name: **Element Materials Technology**

Report Number: **19-234-0005**

### Shipping Method

☐ Fed Ex      ☐ US Postal      ☐ Lab      ☐ Other :   
☐ UPS      ☒ Client      ☐ Courier      Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)	<input type="checkbox"/> Low concentration EnCore samplers (48 hr)		
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)	<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:



JC - 0819 - W



**Chain of Custody Record for Fecal Coliform Testing**

Wastewater Treatment Laboratory  
2443 River Rd.  
Baton Rouge, LA 70802

66899

Sampler Name	Date	Time Taken	Site/Location	Comments/Remarks
Andrew Allenman	8/22/2019	8:17AM	O'NEAL & Jones Creek	LOCAL fishing off Bridge near sample site
Andrew Allenman	8/22/2019	8:17AM	O'NEAL & Jones Creek	LOCAL fishing off Bridge near sample site
				Fecal Coliform JH
				Enterococci JH

Relinquished By:	Received By:	Time:	Date:
Joseph Hebert	<i>[Signature]</i>	1140	8/22/19

19-234-0005
   
01210
   
08-22-2019
   
12:02:05
   
Element Materials Technology
   
JC-0819-W



element™

# Chain of Custody

Laboratory Number: **19081142**

<b>Client Information:</b>		<b>Billing Information:</b>		PO Number:	Project Name/Number:	Page of
Company Name: <b>EBR</b>					<b>O'Neal &amp; Jones Creek</b>	<b>Matrix Code</b>
Contact Name:				Quote Number:	<b>JL-0819-L</b>	DW = Drinking Water
Address:				Required QC Level	<b>Andrew Alleman</b>	WW = Waste Water
City, State Zip:						GW = Ground Water
Phone Number:		Ext:		Bill Monthly		AQ = Aqueous
Fax Number:				<input type="checkbox"/> Yes		OT = Other
E-mail Address:				<input type="checkbox"/> No		SL = Sludge SOL = Solid
						O = Oil SO = Soil
						F = Food SW = Swab
						NG = Natural Gas
						NGL = Natural Gas Liquid
						PW = Produced Water
						CF = Completion Fluid

<b>Which Regulations Apply:</b>		<b>Turn Time</b>		(Rush turn times will incur a surcharge and must be pre-approved by lab.)	<b>Container</b>		<b>Pres.</b>	<b>Requested Tests</b>										<b>Comments</b>	
<input type="checkbox"/> RCRA <input type="checkbox"/> Drinking Water <input type="checkbox"/> POTW <input type="checkbox"/> Distribution <input type="checkbox"/> NPDES <input type="checkbox"/> Special <input type="checkbox"/> USDA/FDA <input type="checkbox"/> State <input type="checkbox"/> RECAP/RISC <input type="checkbox"/> Other		<input type="checkbox"/> Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> Other			Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>												
<b>Sample ID/Description</b>		<b>Collection Information</b>		<b>Matrix</b>															
	Date	Time	Grab / Composite																
	8-22-19	0817		AQ	1	P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	X											

<b>Relinquished by</b>		<b>Date/Time</b>		<b>Received by</b>		<b>Date/Time</b>		<b>Field Notes:</b>
1 <b>Al. Acosta</b>		8/23/19 11:26				8-22-19 1126		
2								
3								Received at lab on ice? <input checked="" type="checkbox"/> <b>JA</b>
								<input type="checkbox"/> Yes <input type="checkbox"/> No Temp: <b>0.3°</b>

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

8800 North US 31  
Columbus, IN  
47201 USA  
P 812-375-0531  
F 812-375-0731

328 Ley Road, Suite 100  
Fort Wayne, IN  
46825 USA  
P 260-471-7000  
F 260-471-7777

909 Executive Dr  
Warsaw, IN  
46580 USA  
P 574-267-3305  
F 574-269-6569

3371 Cleveland Road, Suite 100A  
South Bend, IN  
46628 USA  
P 574-277-0707  
F 574-273-5699

2417 W. Pinhook Rd  
Lafayette, LA  
70508 USA  
P 337-235-0483  
F 337-233-6540





*Element Materials Technology Lafayette*  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

August 27, 2019

Sarah Boudreaux  
East Baton Rouge Parish Pretreatment Division  
345 Chippewa St.  
Baton Rouge, LA 70805  
TEL:  
FAX:

RE: Highland Rd & Ward Creek WC-0819-W

Order No.: 19081143

Dear Sarah Boudreaux:

Element Materials Technology Lafayette received 1 sample(s) on 8/22/2019 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA180028. ISDH Certification No.: C-LA-01. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibaux  
Customer Service Supervisor  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

## Case Narrative

WO#: 19081143  
Date: 8/27/2019

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**CLIENT:** East Baton Rouge Parish Pretreatment Divi  
**Project:** Highland Rd & Ward Creek WC-0819-W

---

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).

The Enterococci with Fecal Coliform analysis was subcontracted to Waypoint Analytical. Their report is attached in its entirety.

Note: Both Element and the sub lab, Waypoint Analytical, were provided with a sample to analyze for Fecal Coliform. The client was made aware of the issue and the lab was authorized to provide both results in the report.





Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## Analytical Report

(consolidated)

WO#: **19081143**

Date Reported: **8/27/2019**

**CLIENT:** East Baton Rouge Parish Pretreatment Division **Collection Date:** 8/22/2019 7:46:00 AM  
**Project:** Highland Rd & Ward Creek WC-0819-W  
**Lab ID:** 19081143-001 **Matrix:** AQUEOUS  
**Client Sample ID** Highland Rd & Ward Creek WC-0819-W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18	Analyst: SD	
Fecal Coliform	691	1.0		MPN/100mL	1	8/22/2019 12:43:00 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## QC SUMMARY REPORT

WO#: 19081143  
27-Aug-19

**Client:** East Baton Rouge Parish Pretreatment Division  
**Project:** Highland Rd & Ward Creek WC-0819-W

**BatchID:** R81376

Sample ID: <b>MB-R81376</b>	SampType: <b>MBLK</b>	TestCode: <b>FECAL_COLI</b>	Units: <b>MPN/100mL</b>	Prep Date:	RunNo: <b>81376</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R81376</b>	TestNo: <b>Colilert-18</b>		Analysis Date: <b>8/22/2019</b>	SeqNo: <b>2040295</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	< 1.0	1.0									

Sample ID: 19081139-002ADUP	SampType: DUP	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 81376						
Client ID: ZZZZZZ	Batch ID: R81376	TestNo: Colilert-18		Analysis Date: 8/22/2019	SeqNo: 2040297						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	31.0	10.0						10.0	102	20	R

**NOTES:**

R - High RPD due to low analyte concentration. In this range, high RPD's may be expected.

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## Sample Log-In Check List

Client Name: **EAST\_BR\_PRETREATM**

Work Order Number: **19081143**

RcptNo: **1**

Logged by: **Danielle Hollier** **8/22/2019 11:30:00 AM**

*Danielle Hollier*

Completed By: **Danielle Hollier** **8/22/2019 11:52:50 AM**

*Danielle Hollier*

Reviewed By: **Caitlin Duplantis** **8/27/2019 11:27:32 AM**

*Caitlin Duplantis*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐  
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐  
4. Shipping container/cooler in good condition? Yes ☒ No ☐  
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒  
No. Seal Date: Signed By:  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels? Yes ☒ No ☐  
(Note discrepancies on chain of custody)  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met? Yes ☒ No ☐  
(If no, notify customer for authorization.)

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:  Date:   
By Whom:  Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding:   
Client Instructions:

18. Additional remarks:

No sampler's signature by client

Enterococci sample was delivered directly to Waypoint.

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Not Present			

8/26/2019

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette, LA, 70508

Ref: Report Number: 19-234-0007  
Project Description: WC-0819-W

Dear Ms. Caitlin Duplantis:

Waypoint Analytical Louisiana, Inc. received sample(s) on 8/22/2019 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

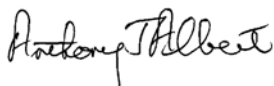
Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Please be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please do not hesitate to contact me or client services.

Sincerely,



Anthony J. Albert  
Laboratory Director

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.*





**Sample Summary Table**

**Report Number:** 19-234-0007

**Client Project Description:** WC-0819-W

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
66901	Highland & Ward Creek	Aqueous	08/22/2019 07:46	08/22/2019

01210

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette , LA 70508

Project WC-0819-W  
Information :

Report Date : 08/26/2019  
Received : 08/22/2019



Report Number : **19-234-0007**

## REPORT OF ANALYSIS

Anthony J. Albert  
Laboratory Director

Lab No : **66901**

Matrix: **Aqueous**

Sample ID : **Highland & Ward Creek**

Sampled: **8/22/2019 7:46**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Enterococci	> <b>2419.6</b>	MPN/100mL	1	1	08/22/19 12:15	AD	Enterolert
Fecal Coliform	> <b>2419.6</b>	MPN/100mL	< 1	1	08/22/19 14:52	DAV	Colilert-18 Fecal

### Qualifiers/ Definitions

DF Dilution Factor  
MQL Method Quantitation Limit

L Limit Exceeded

## Cooler Receipt Form

Customer Number: **01210**

Customer Name: **Element Materials Technology**

Report Number: **19-234-0007**

### Shipping Method

☐ Fed Ex      ☐ US Postal      ☐ Lab      ☐ Other :   
☐ UPS      ☒ Client      ☐ Courier      Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)	<input type="checkbox"/> Low concentration EnCore samplers (48 hr)		
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)	<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

WC-0819-W



**Chain of Custody Record for Fecal Coliform Testing**

Wastewater Treatment Laboratory  
2443 River Rd.  
Baton Rouge, LA 70802

66901

Sampler Name	Date	Time Taken	Site/Location	Comments/Remarks
Andrew Allemen	8/22/2019	7:46 AM	Highland & Ward creek	Fecal Coliform JH
Andrew Allemen	8/22/2019	7:46 AM	Highland & Ward creek	Enterococci JH

Relinquished By:	Received By:	Time:	Date:
Joseph Hebert	<i>[Signature]</i>	1140	8/22/19


 19-234-0007  
 01210  
 Element Materials Technology  
 WC-0819-W  
 08-22-2019  
 12:05:28





element

# Chain of Custody

Laboratory Number: **19081143**

<b>Client Information:</b>		<b>Billing Information:</b>		PO Number:	Project Name/Number:	Page of
Company Name: <b>EBR</b>					<b>Highland Rd. +</b>	<b>Matrix Code</b> DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge SOL = Solid O = Oil SO = Soil F = Food SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid
Contact Name:				Quote Number:	<b>Ward Creek WL-0814</b>	
Address:					Sampler's Signature	
City, State Zip:				Required QC Level		
Phone Number:		Ext:		Bill Monthly	Shipping Method:	
Fax Number:				<input type="checkbox"/> Yes	<b>UPS / FedEx / NOW</b>	
E-mail Address:				<input type="checkbox"/> No	<b>DHL / Element / Hand / Mail</b>	

Which Regulations Apply:		Turn Time		(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container		Pres.	Requested Tests										Comments
<input type="checkbox"/> RCRA	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Standard	<input type="checkbox"/> RUSH		Quantity	Type	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>											
<input type="checkbox"/> POTW	<input type="checkbox"/> Distribution	<input type="checkbox"/> 1 Day			P=Plastic, G=Glass, V=Vial													
<input type="checkbox"/> NPDES	<input type="checkbox"/> Special	<input type="checkbox"/> 2 Day																
<input type="checkbox"/> USDA/FDA	<input type="checkbox"/> State	<input type="checkbox"/> Other																
<input type="checkbox"/> RECAP/RISC	<input type="checkbox"/> Other																	

Sample ID/Description	Collection Information			Matrix	Quantity	Type	Pres.	Fecal	Requested Tests										Comments
	Date	Time	Grab / Composite																
	<b>8-22-19</b>	<b>0746</b>		<b>AQ</b>	<b>1</b>	<b>P</b>	<b>Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub></b>	<b>X</b>											

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1	<b>EBR</b>	<b>8/22/19 11:30</b>	<b>[Signature]</b>	<b>8-22-19 11:30</b>	
2					Received at lab on ice? <b>DA</b>
3					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: <b>0.3</b>

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

8800 North US 31  
Columbus, IN  
47201 USA  
P 812-375-0531  
F 812-375-0731

328 Ley Road, Suite 100  
Fort Wayne, IN  
46825 USA  
P 260-471-7000  
F 260-471-7777

909 Executive Dr  
Warsaw, IN  
46580 USA  
P 574-267-3305  
F 574-269-6569

3371 Cleveland Road, Suite 100A  
South Bend, IN  
46628 USA  
P 574-277-0707  
F 574-273-5699

2417 W. Pinhook Rd  
Lafayette, LA  
70508 USA  
P 337-235-0483  
F 337-233-6540



*Element Materials Technology Lafayette*  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

August 27, 2019

Sarah Boudreaux  
East Baton Rouge Parish Pretreatment Division  
345 Chippewa St.  
Baton Rouge, LA 70805  
TEL:  
FAX:

RE: Pt. Hudson CRN-0819-W

Order No.: 19081144

Dear Sarah Boudreaux:

Element Materials Technology Lafayette received 1 sample(s) on 8/22/2019 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA180028. ISDH Certification No.: C-LA-01. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibaux  
Customer Service Supervisor  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

## Case Narrative

WO#: 19081144  
Date: 8/27/2019

---

**CLIENT:** East Baton Rouge Parish Pretreatment Divi  
**Project:** Pt. Hudson CRN-0819-W

---

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).

The Enterococci with Fecal Coliform analysis was subcontracted to Waypoint Analytical. Their report is attached in its entirety.

Note: Both Element and the sub lab, Waypoint Analytical, were provided with a sample to analyze for Fecal Coliform. The client was made aware of the issue and the lab was authorized to provide both results in the report.



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## Analytical Report

(consolidated)

WO#: **19081144**

Date Reported: **8/27/2019**

**CLIENT:** East Baton Rouge Parish Pretreatment Division **Collection Date:** 8/22/2019 7:50:00 AM  
**Project:** Pt. Hudson CRN-0819-W  
**Lab ID:** 19081144-001 **Matrix:** AQUEOUS  
**Client Sample ID** Pt. Hudson CRN-0819-W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18	Analyst: SD	
Fecal Coliform	362	1.0		MPN/100mL	1	8/22/2019 12:43:00 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode





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## QC SUMMARY REPORT

WO#: 19081144  
27-Aug-19

**Client:** East Baton Rouge Parish Pretreatment Division  
**Project:** Pt. Hudson CRN-0819-W

**BatchID:** R81376

Sample ID: <b>MB-R81376</b>	SampType: <b>MBLK</b>	TestCode: <b>FECAL_COLI</b>	Units: <b>MPN/100mL</b>	Prep Date:	RunNo: <b>81376</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R81376</b>	TestNo: <b>Colilert-18</b>		Analysis Date: <b>8/22/2019</b>	SeqNo: <b>2040295</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	< 1.0	1.0									

Sample ID: 19081139-002ADUP	SampType: DUP	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 81376						
Client ID: ZZZZZZ	Batch ID: R81376	TestNo: Colilert-18		Analysis Date: 8/22/2019	SeqNo: 2040297						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	31.0	10.0						10.0	102	20	R

### NOTES:

R - High RPD due to low analyte concentration. In this range, high RPD's may be expected.

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



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Website: www.element.com

## Sample Log-In Check List

Client Name: **EAST\_BR\_PRETREATM**

Work Order Number: **19081144**

RcptNo: **1**

Logged by: **Danielle Hollier** **8/22/2019 11:30:00 AM**

*Danielle Hollier*

Completed By: **Danielle Hollier** **8/22/2019 11:57:21 AM**

*Danielle Hollier*

Reviewed By: **Caitlin Duplantis** **8/27/2019 11:29:41 AM**

*Caitlin Duplantis*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐  
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐  
4. Shipping container/cooler in good condition? Yes ☒ No ☐  
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒  
No. Seal Date: Signed By:  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels? Yes ☒ No ☐  
(Note discrepancies on chain of custody)  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met? Yes ☒ No ☐  
(If no, notify customer for authorization.)

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:  Date:   
By Whom:  Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding:   
Client Instructions:

18. Additional remarks:

Improper error correction(s) made by client

Enterococci sample was delivered directly to Waypoint. No sampler's signature by client

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Not Present			

8/26/2019

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette, LA, 70508

Ref: Report Number: 19-234-0004  
Project Description: CRN-0819-W

Dear Ms. Caitlin Duplantis:

Waypoint Analytical Louisiana, Inc. received sample(s) on 8/22/2019 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

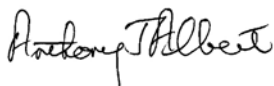
Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Please be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please do not hesitate to contact me or client services.

Sincerely,



Anthony J. Albert  
Laboratory Director

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.*



**Sample Summary Table**

**Report Number:** 19-234-0004

**Client Project Description:** CRN-0819-W

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
66898	Pt. Hudson	Aqueous	08/22/2019 07:50	08/22/2019



01210

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette , LA 70508

Project CRN-0819-W  
Information :

Report Date : 08/26/2019  
Received : 08/22/2019



Report Number : **19-234-0004**

## REPORT OF ANALYSIS

Anthony J. Albert  
Laboratory Director

Lab No : **66898**

Matrix: **Aqueous**

Sample ID : **Pt. Hudson**

Sampled: **8/22/2019 7:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Enterococci	<b>461</b>	MPN/100mL	1	1	08/22/19 12:15	AD	Enterolert
Fecal Coliform	<b>727</b>	MPN/100mL	< 1	1	08/22/19 14:52	DAV	Colilert-18 Fecal

### Qualifiers/ Definitions

DF Dilution Factor  
MQL Method Quantitation Limit

L Limit Exceeded

### Cooler Receipt Form

Customer Number: **01210**

Customer Name: **Element Materials Technology**

Report Number: **19-234-0004**

### Shipping Method

☐ Fed Ex      ☐ US Postal      ☐ Lab      ☐ Other :   
☐ UPS      ☒ Client      ☐ Courier      Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)	<input type="checkbox"/> Low concentration EnCore samplers (48 hr)		
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)	<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

CRN-0819-W



**Chain of Custody Record for Fecal Coliform Testing**

Wastewater Treatment Laboratory  
2443 River Rd.  
Baton Rouge, LA 70802

66898

Sampler Name	Date	Time Taken	Site/Location	Comments/Remarks
OW/JDH	8/22	7:50	Pt. Hudson	Fecal Coliform JH
OW/JDH	8/22	7:50	PT. Hudson	Enterococci JH

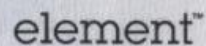
Relinquished By:	Received By:	Time:	Date:
Joseph Hebert	<i>[Signature]</i>	1146	8/22/19



Element Materials Technology  
CRN-0819-W

19-234-0004  
01210  
08-22-2019  
12:00:42





Laboratory Number: 19081144

<b>Client Information:</b>		<b>Billing Information:</b>		<b>PO Number:</b>		<b>Project Name/Number:</b>		<b>Page</b> of <b>Matrix Code</b>	
Company Name: <b>EBK</b>						<b>Pt. Hudson</b>		<b>DW = Drinking Water</b>	
Contact Name:				Quote Number:		<b>CRN-0819-W</b>		<b>WW = Waste Water</b>	
Address:						Sampler's Signature		<b>GW = Ground Water</b>	
				Required QC Level				<b>AQ = Aqueous</b>	
City, State Zip:								<b>OT = Other</b>	
Phone Number:		Ext:		Ext:		Shipping Method:		<b>SL = Sludge SOL = Solid</b>	
Fax Number:				<input type="checkbox"/> Yes <input type="checkbox"/> No		<b>UPS / FedEx / NOW</b> <b>DHL / Element / Hand / Mail</b>		<b>O = Oil SO = Soil</b>	
E-mail Address:								<b>F = Food SW = Swab</b>	
								<b>NG = Natural Gas</b>	
								<b>NGL = Natural Gas Liquid</b>	
								<b>PW = Produced Water</b>	
								<b>CF = Completion Fluid</b>	

[illegible]

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1	<i>Ad Hues</i>	8/22/19 11:30	<i>[Signature]</i>	8-22-19 1130	Received at lab on ice? <i>✓</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: <i>0.3</i>
2					
3					

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

2417 W. Pinhook Rd  
Lafayette, LA  
70508 USA  
P 337-235-0483  
F 337-233-6540





*Element Materials Technology Lafayette*  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

August 27, 2019

Sarah Boudreaux  
East Baton Rouge Parish Pretreatment Division  
345 Chippewa St.  
Baton Rouge, LA 70805  
TEL:  
FAX:

RE: Grand Lakes Bayou Fountain BF-0819-W

Order No.: 19081145

Dear Sarah Boudreaux:

Element Materials Technology Lafayette received 1 sample(s) on 8/22/2019 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA180028. ISDH Certification No.: C-LA-01. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibaux  
Customer Service Supervisor  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344



Element Materials Technology Lafayette  
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Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

## Case Narrative

WO#: 19081145  
Date: 8/27/2019

---

**CLIENT:** East Baton Rouge Parish Pretreatment Divi  
**Project:** Grand Lakes Bayou Fountain BF-0819-W

---

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).

The Enterococci with Fecal Coliform analysis was subcontracted to Waypoint Analytical. Their report is attached in its entirety.

Note: Both Element and the sub lab, Waypoint Analytical, were provided with a sample to analyze for Fecal Coliform. The client was made aware of the issue and the lab was authorized to provide both results in the report.



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## Analytical Report

(consolidated)

WO#: 19081145

Date Reported: 8/27/2019

**CLIENT:** East Baton Rouge Parish Pretreatment Division **Collection Date:** 8/22/2019 7:18:00 AM  
**Project:** Grand Lakes Bayou Fountain BF-0819-W  
**Lab ID:** 19081145-001 **Matrix:** AQUEOUS  
**Client Sample ID** Grand Lakes Bayou Fountain BF-0819-W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18	Analyst: SD	
Fecal Coliform	691	1.0		MPN/100mL	1	8/22/2019 12:43:00 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



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## QC SUMMARY REPORT

WO#: 19081145

27-Aug-19

**Client:** East Baton Rouge Parish Pretreatment Division

**Project:** Grand Lakes Bayou Fountain BF-0819-W

**BatchID:** R81376

Sample ID: <b>MB-R81376</b>	SampType: <b>MBLK</b>	TestCode: <b>FECAL_COLI</b>	Units: <b>MPN/100mL</b>	Prep Date:	RunNo: <b>81376</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R81376</b>	TestNo: <b>Colilert-18</b>		Analysis Date: <b>8/22/2019</b>	SeqNo: <b>2040295</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fecal Coliform	< 1.0	1.0									
----------------	-------	-----	--	--	--	--	--	--	--	--	--

Sample ID: 19081139-002ADUP	SampType: DUP	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 81376						
Client ID: ZZZZZZ	Batch ID: R81376	TestNo: Colilert-18		Analysis Date: 8/22/2019	SeqNo: 2040297						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fecal Coliform	31.0	10.0						10.0	102	20	R
----------------	------	------	--	--	--	--	--	------	-----	----	---

### NOTES:

R - High RPD due to low analyte concentration. In this range, high RPD's may be expected.

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		





Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## Sample Log-In Check List

Client Name: **EAST\_BR\_PRETREATM**

Work Order Number: **19081145**

RcptNo: **1**

Logged by: **Danielle Hollier** **8/22/2019 11:30:00 AM**

*Danielle Hollier*

Completed By: **Danielle Hollier** **8/22/2019 11:59:03 AM**

*Danielle Hollier*

Reviewed By: **Caitlin Duplantis** **8/27/2019 11:30:47 AM**

*Caitlin Duplantis*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐  
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐  
4. Shipping container/cooler in good condition? Yes ☒ No ☐  
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒  
No. Seal Date: Signed By:  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels? Yes ☒ No ☐  
(Note discrepancies on chain of custody)  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met? Yes ☒ No ☐  
(If no, notify customer for authorization.)

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:  Date:   
By Whom:  Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding:   
Client Instructions:

18. Additional remarks:

No sampler's signature by client

Enterococci sample was delivered directly to Waypoint.

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Not Present			

8/26/2019

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette, LA, 70508

Ref: Report Number: 19-234-0006  
Project Description: BF-0819-W

Dear Ms. Caitlin Duplantis:

Waypoint Analytical Louisiana, Inc. received sample(s) on 8/22/2019 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

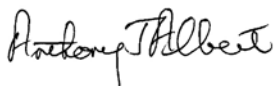
Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Please be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please do not hesitate to contact me or client services.

Sincerely,



Anthony J. Albert  
Laboratory Director

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.*



**Sample Summary Table**

**Report Number:** 19-234-0006

**Client Project Description:** BF-0819-W

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
66900	Grand Lakes Bayou Fountain	Aqueous	08/22/2019 07:18	08/22/2019

01210

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette , LA 70508

Project BF-0819-W  
Information :

Report Date : 08/26/2019  
Received : 08/22/2019



Report Number : **19-234-0006**

## REPORT OF ANALYSIS

Anthony J. Albert  
Laboratory Director

Lab No : **66900**

Matrix: **Aqueous**

Sample ID : **Grand Lakes Bayou Fountain**

Sampled: **8/22/2019 7:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Enterococci	<b>1990</b>	MPN/100mL	1	1	08/22/19 12:15	AD	Enterolert
Fecal Coliform	<b>2420</b>	MPN/100mL	< 1	1	08/22/19 14:52	DAV	Colilert-18 Fecal

### Qualifiers/ Definitions

DF Dilution Factor  
MQL Method Quantitation Limit

L Limit Exceeded



## Cooler Receipt Form

Customer Number: **01210**

Customer Name: **Element Materials Technology**

Report Number: **19-234-0006**

### Shipping Method

☐ Fed Ex      ☐ US Postal      ☐ Lab      ☐ Other :   
☐ UPS      ☒ Client      ☐ Courier      Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)	<input type="checkbox"/> Low concentration EnCore samplers (48 hr)		
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)	<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

# BF-0819-W



## Chain of Custody Record for Fecal Coliform Testing

Wastewater Treatment Laboratory  
2443 River Rd.  
Baton Rouge, LA 70802

66900

Sampler Name	Date	Time Taken	Site/Location	Comments/Remarks
grand lakes Bayou fountain	8/22/2019	7:18AM	grand lakes Bayou fountain	Fecal Coliform
grand lakes Bayou fountain	8/22/2019	7:18AM	grand lakes Bayou fountain	Enterococci

Andrew  
Atteman  
Andrew  
Atteman

JH  
JH

Relinquished By:	Received By:	Time:	Date:
Joseph Hebert	<i>[Signature]</i>	1140	8/22/19

19-234-0006  
01210  
08-22-2019  
12:03:52  
Element Materials Technology  
BF-0819-W



element™

# Chain of Custody

Laboratory Number: **19081145**

Client Information:		Billing Information:		PO Number:	Project Name/Number:	Page of
Company Name: <b>EBR</b>					<b>Grand Lakes BF-0819</b>	<b>Matrix Code</b>
Contact Name:				Quote Number:	<b>Bayou Fountain</b>	DW = Drinking Water
Address:				Required QC Level		WW = Waste Water
City, State Zip:						GW = Ground Water
Phone Number:		Ext:		Bill Monthly		AQ = Aqueous
Fax Number:				<input type="checkbox"/> Yes		OT = Other
E-mail Address:				<input type="checkbox"/> No		SL = Sludge SOL = Solid
						O = Oil SO = Soil
						F = Food SW = Swab
						NG = Natural Gas
						NGL = Natural Gas Liquid
						PW = Produced Water
						CF = Completion Fluid

Which Regulations Apply:		Turn Time		(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container		Pres.	Requested Tests										Comments	
<input type="checkbox"/> RCRA	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Standard	<input type="checkbox"/> RUSH		Quantity	Type	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>												
<input type="checkbox"/> POTW	<input type="checkbox"/> Distribution	<input type="checkbox"/> 1 Day																	
<input type="checkbox"/> NPDES	<input type="checkbox"/> Special	<input type="checkbox"/> 2 Day																	
<input type="checkbox"/> USDA/FDA	<input type="checkbox"/> State	<input type="checkbox"/> Other																	
<input type="checkbox"/> RECAP/RISC	<input type="checkbox"/> Other																		

Sample ID/Description	Collection Information			Matrix	Quantity	Type	Pres.	Requested Tests	Comments
	Date	Time	Grab / Composite						
	8-22-19	0718		AQ	1	P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	X	

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1	<i>[Signature]</i>	8/22/19 11:30	<i>[Signature]</i>	8-22-19 1130	
2					Received at lab on ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 0.3°C
3					

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

8800 North US 31  
Columbus, IN  
47201 USA  
P 812-375-0531  
F 812-375-0731

328 Ley Road, Suite 100  
Fort Wayne, IN  
46825 USA  
P 260-471-7000  
F 260-471-7777

909 Executive Dr  
Warsaw, IN  
46580 USA  
P 574-267-3305  
F 574-269-6569

3371 Cleveland Road, Suite 100A  
South Bend, IN  
46628 USA  
P 574-277-0707  
F 574-273-5699

2417 W. Pinhook Rd  
Lafayette, LA  
70508 USA  
P 337-235-0483  
F 337-233-6540





*Element Materials Technology Lafayette*  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

August 27, 2019

Sarah Boudreaux  
East Baton Rouge Parish Pretreatment Division  
345 Chippewa St.  
Baton Rouge, LA 70805  
TEL:  
FAX:

RE: Greenwell Comite CR-0819-W

Order No.: 19081146

Dear Sarah Boudreaux:

Element Materials Technology Lafayette received 1 sample(s) on 8/22/2019 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA180028. ISDH Certification No.: C-LA-01. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibeaux  
Customer Service Supervisor  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344





Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

## Case Narrative

WO#: 19081146  
Date: 8/27/2019

---

**CLIENT:** East Baton Rouge Parish Pretreatment Divi  
**Project:** Greenwell Comite CR-0819-W

---

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).

The Enterococci with Fecal Coliform analysis was subcontracted to Waypoint Analytical. Their report is attached in its entirety.

Note: Both Element and the sub lab, Waypoint Analytical, were provided with a sample to analyze for Fecal Coliform. The client was made aware of the issue and the lab was authorized to provide both results in the report.



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## Analytical Report

(consolidated)

WO#: 19081146

Date Reported: 8/27/2019

**CLIENT:** East Baton Rouge Parish Pretreatment Division **Collection Date:** 8/22/2019 7:15:00 AM  
**Project:** Greenwell Comite CR-0819-W  
**Lab ID:** 19081146-001 **Matrix:** AQUEOUS  
**Client Sample ID** Greenwell Comite CR-0819-W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18	Analyst: SD	
Fecal Coliform	691	1.0		MPN/100mL	1	8/22/2019 12:43:00 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## QC SUMMARY REPORT

WO#: 19081146  
27-Aug-19

**Client:** East Baton Rouge Parish Pretreatment Division  
**Project:** Greenwell Comite CR-0819-W

**BatchID:** R81376

Sample ID: <b>MB-R81376</b>	SampType: <b>MBLK</b>	TestCode: <b>FECAL_COLI</b>	Units: <b>MPN/100mL</b>	Prep Date:	RunNo: <b>81376</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R81376</b>	TestNo: <b>Colilert-18</b>		Analysis Date: <b>8/22/2019</b>	SeqNo: <b>2040295</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	< 1.0	1.0									

Sample ID: 19081139-002ADUP	SampType: DUP	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 81376						
Client ID: ZZZZZZ	Batch ID: R81376	TestNo: Colilert-18		Analysis Date: 8/22/2019	SeqNo: 2040297						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	31.0	10.0						10.0	102	20	R

### NOTES:

R - High RPD due to low analyte concentration. In this range, high RPD's may be expected.

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## Sample Log-In Check List

Client Name: **EAST\_BR\_PRETREATM**

Work Order Number: **19081146**

RcptNo: **1**

Logged by: **Danielle Hollier** **8/22/2019 11:30:00 AM**

*Danielle Hollier*

Completed By: **Danielle Hollier** **8/22/2019 12:01:06 PM**

*Danielle Hollier*

Reviewed By: **Caitlin Duplantis** **8/27/2019 11:32:11 AM**

*Caitlin Duplantis*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐  
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐  
4. Shipping container/cooler in good condition? Yes ☒ No ☐  
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒  
No. Seal Date: Signed By:  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels? Yes ☒ No ☐  
(Note discrepancies on chain of custody)  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met? Yes ☒ No ☐  
(If no, notify customer for authorization.)

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:  Date:   
By Whom:  Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding:   
Client Instructions:

18. Additional remarks:

No sampler's signature by client

Enterococci sample was delivered directly to Waypoint.

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Not Present			



8/26/2019

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette, LA, 70508

Ref: Report Number: 19-234-0003  
Project Description: CR-0819-W

Dear Ms. Caitlin Duplantis:

Waypoint Analytical Louisiana, Inc. received sample(s) on 8/22/2019 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. Unless otherwise noted, the analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

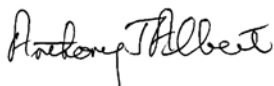
Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance. Analyses reported which indicate "Field" for these parameters were analyzed by the client in the field. Results for solid samples are reported on an as received or "wet weight" basis unless otherwise specified.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

All quality control measures undertaken in accordance with Waypoint Analytical Louisiana, Inc. CompQAP990807A and revisions under the terms of the Louisiana Environmental Laboratory Accreditation Program (Certificate #02041) are within acceptance ranges established in that document with the exception of the items indicated and/or discussed in a Case Narrative.

The results are shown on the attached analysis sheet(s). Please be aware that the time analyzed for certain samples (e.g. - BOD, CBOD, etc.) refer to the time the sample batch was begun and not necessarily to the time an individual sample was begun. Thank you for allowing Waypoint Analytical Louisiana, Inc. to serve you. Should I be of further assistance, if you have any questions or need additional information please do not hesitate to contact me or client services.

Sincerely,



Anthony J. Albert  
Laboratory Director

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis. This report may be reproduced in full only with the written permission of the laboratory and/or the entity to which it is addressed. Results contained herein relate only to the sample(s) submitted to the laboratory.*



**Sample Summary Table**

**Report Number:** 19-234-0003

**Client Project Description:** CR-0819-W

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
66897	Greenwell/ Comide	Aqueous	08/22/2019 07:15	08/22/2019

01210

Element Materials Technology  
Ms. Caitlin Duplantis  
2417 West Pinhook Road  
Lafayette , LA 70508

Project CR-0819-W  
Information :

Report Date : 08/26/2019  
Received : 08/22/2019



Report Number : **19-234-0003**

## REPORT OF ANALYSIS

Anthony J. Albert  
Laboratory Director

Lab No : **66897**

Matrix: **Aqueous**

Sample ID : **Greenwell/ Comide**

Sampled: **8/22/2019 7:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Enterococci	> <b>2419.6</b>	MPN/100mL	1	1	08/22/19 12:15	AD	Enterolert
Fecal Coliform	> <b>2419.6</b>	MPN/100mL	< 1	1	08/22/19 14:52	DAV	Colilert-18 Fecal

### Qualifiers/ Definitions

DF Dilution Factor  
MQL Method Quantitation Limit

L Limit Exceeded

### Cooler Receipt Form

Customer Number: **01210**

Customer Name: **Element Materials Technology**

Report Number: **19-234-0003**

#### Shipping Method

☐ Fed Ex      ☐ US Postal      ☐ Lab      ☐ Other :   
☐ UPS      ☒ Client      ☐ Courier      Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)	<input type="checkbox"/> Low concentration EnCore samplers (48 hr)		
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)	<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:



# CR-0819-W



## Chain of Custody Record for Fecal Coliform Testing

Wastewater Treatment Laboratory  
2443 River Rd.  
Baton Rouge, LA 70802

66897  
~~66879~~  
CRU

Sampler Name	Date	Time Taken	Site/Location	Comments/Remarks	
OW/JDH	8/22	7:15	Greenwell / Comide	Fecal Coliform	JH
OW/JDH	8/22	7:15	Greenwell / Comide	Enterococci	JH

Relinquished By:	Received By:	Time:	Date:
Joseph Hebert	<i>[Signature]</i>	1140	8/22/19



Element Materials Technology  
CR-0819-W

19-234-0003  
01210  
08-22-2019  
11:56:59



element™

# Chain of Custody

Laboratory Number: 19081146

Company Name: <b>EBR</b>	Billing Information:	PO Number:	Project Name/Number: <b>Greenwell Comite</b>	Page of
Contact Name:		Quote Number:	<b>CR-0819-W</b>	<b>Matrix Code</b>
Address:		Required QC Level:	Sampler's Signature	DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge SOL = Solid O = Oil SO = Soil F = Food SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid
City, State Zip:		Bill Monthly	Shipping Method:	
Phone Number:	Ext:	<input type="checkbox"/> Yes	<b>UPS / FedEx / NOW</b>	
Fax Number:		<input type="checkbox"/> No	<b>DHL / Element / Hand / Mail</b>	
E-mail Address:				

Which Regulations Apply:		Turn Time		(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container		Pres.	Requested Tests										Comments
<input type="checkbox"/> RCRA	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Standard	<input type="checkbox"/> RUSH		Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>											
<input type="checkbox"/> POTW	<input type="checkbox"/> Distribution	<input type="checkbox"/> 1 Day																
<input type="checkbox"/> NPDES	<input type="checkbox"/> Special	<input type="checkbox"/> 2 Day																
<input type="checkbox"/> USDA/FDA	<input type="checkbox"/> State	<input type="checkbox"/> Other																
<input type="checkbox"/> RECAP/RISC	<input type="checkbox"/> Other																	

Sample ID/Description	Collection Information			Matrix	Quantity	Type P=Plastic, G=Glass, V=Vial	Pres.	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Fecal								
	Date	Time	Grab / Composite														
	8-22-19	0715		AQ	1	P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	X									

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1	<i>[Signature]</i>	8/22/19 11:30	<i>[Signature]</i>	8-22-19 1130	
2					Received at lab on ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 0.3
3					

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

8800 North US 31  
Columbus, IN  
47201 USA  
P 812-375-0531  
F 812-375-0731

328 Ley Road, Suite 100  
Fort Wayne, IN  
46825 USA  
P 260-471-7000  
F 260-471-7777

909 Executive Dr  
Warsaw, IN  
46580 USA  
P 574-267-3305  
F 574-269-6569

3371 Cleveland Road, Suite 100A  
South Bend, IN  
46628 USA  
P 574-277-0707  
F 574-273-5699

2417 W. Pinhook Rd  
Lafayette, LA  
70508 USA  
P 337-235-0483  
F 337-233-6540

**Environmental Results Monitoring Program  
Phase II, Quarter 4 Results**



100 North Street, Suite 901  
Baton Rouge, LA 70802

www.jacobs.com

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<b>Subject</b>	<b>Environmental Results Monitoring Program Phase II, Quarter 4 Results</b>	<b>Project Name</b>	Baton Rouge SSOP
<b>Attention</b>	Mr. Richard Speer, P.E. Director, Department of Environmental Services City of Baton Rouge, Louisiana	<b>Project No.</b>	BTRSSO16
<b>From</b>	Patrick Gervais		
<b>Date</b>	December 31, 2019		
<b>Copies to</b>	File		

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### Purpose

On December 17, 2019, the City of Baton Rouge, Parish of East Baton Rouge conducted the 4<sup>th</sup> quarterly Phase I Baseline Monitoring event, as required by the 2002 Consent Decree. The purpose of this memorandum is to characterize the rain event, summarize the sampling procedures, and report laboratory analysis results. Background information on the Environmental Results Monitoring (ERM) program can be found in the ERM Plan (Exhibit G of the Consent Decree).

### Rain Event

Rainfall data was recorded at USGS monitoring stations located upstream of each of the designated sample locations. The locations of the observed USGS monitoring stations are shown in Figure 1.

Cumulative precipitation from the rain event over December 17, 2019 is shown in Figure 2. The event had a relatively short duration, with the highest-intensity rainfall occurring during 8:15 to 10:45 PM on December 16. A summary of the rainfall at each sample site is provided in Table 1. There were no observed rain events during Quarter 4 of 2019 that met the criteria of a minimum of 2-inches of rainfall over a 24-hour period.

### Procedures

One grab sample was taken from each of the five designated sample sites between the hours of 11:37 AM and 1:10 PM. Samples were taken from the approximate center of each stream. Grab samples from each site were poured into three separate laboratory-prepared sample containers, which were labeled with the sample date, time, and location name immediately following sample collection. Samples were stored on ice and delivered to the laboratory immediately following collection of the final sample.



All samples were analyzed at the local laboratory for the parameters established in the ERM plan, which include fecal coliform, fecal streptococcus, and enterococcus. Sample holding times and laboratory procedures conformed with those outlines in the USEPA "Methods for Chemical Analysis of Water and Wastes", 1983, and USEPA "Test Methods for the Examination of Solid Waste – SW846", 1992.

### **Results**

Results of laboratory analyses are summarized in Table 2. Further analysis of these results based on future water quality and stream flow data will be conducted upon completion of Phase I Baseline Monitoring. Gage height data from December 15-19, 2019, recorded at USGS stream flow monitoring stations upstream of each sample location, are shown in Figure 3.

## Tables

**Table 1: Rainfall Summary for Phase II, Quarter 4**

Location	Sample Date and Time	Total Rainfall (in)	Peak Intensity (in/hr)	Peak Intensity Date and Time
Comite R. at Greenwell Springs Rd. <sup>a</sup>	12/17/19 11:37 AM	0.52	0.35	12/16/19 10:00 PM
Bayou Fountain at Grand Lakes Dr.	12/17/19 11:40 AM	0.84	0.69	12/16/19 10:15 PM
Comite R. at Port Hudson-Pride Rd.	12/17/19 12:11 PM	0.73	0.27	12/16/19 8:30 PM
Jones Cr. at O'Neal Ln.	12/17/19 12:20 PM	1.06	0.66	12/16/19 10:15 PM
Ward Cr. at Highland Rd.	12/17/19 1:10 PM	1.11	0.93	12/16/19 10:45 PM

<sup>a</sup> The Comite River at Greenwell Springs gage does not have a precipitation gage. The hourly rainfall recorded at Baton Rouge airport is listed as a substitute for rainfall recorded at the gage.

in: Inches; hr: Hour

**Table 2: Water Quality Sampling Results for Phase II, Quarter 4**

Location	Sample Date and Time	Fecal Coliform (col./100 mL)	Enterococci (MPN/100 mL)
Comite R. at Greenwell Springs Rd.	12/17/19 11:37 AM	>60,000	>2,410
Bayou Fountain at Grand Lakes Dr.	12/17/19 11:40 AM	>60,000	>2,410
Comite R. at Port Hudson-Pride Rd.	12/17/19 12:11 PM	33,000	>2,410
Jones Cr. at O'Neal Ln.	12/17/19 12:20 PM	15,000	>2,410
Ward Cr. at Highland Rd.	12/17/19 1:10 PM	>60,000	>2,410

col.: Colonies; MPN: Most Probable Number; mL: Milliliters

## Figures

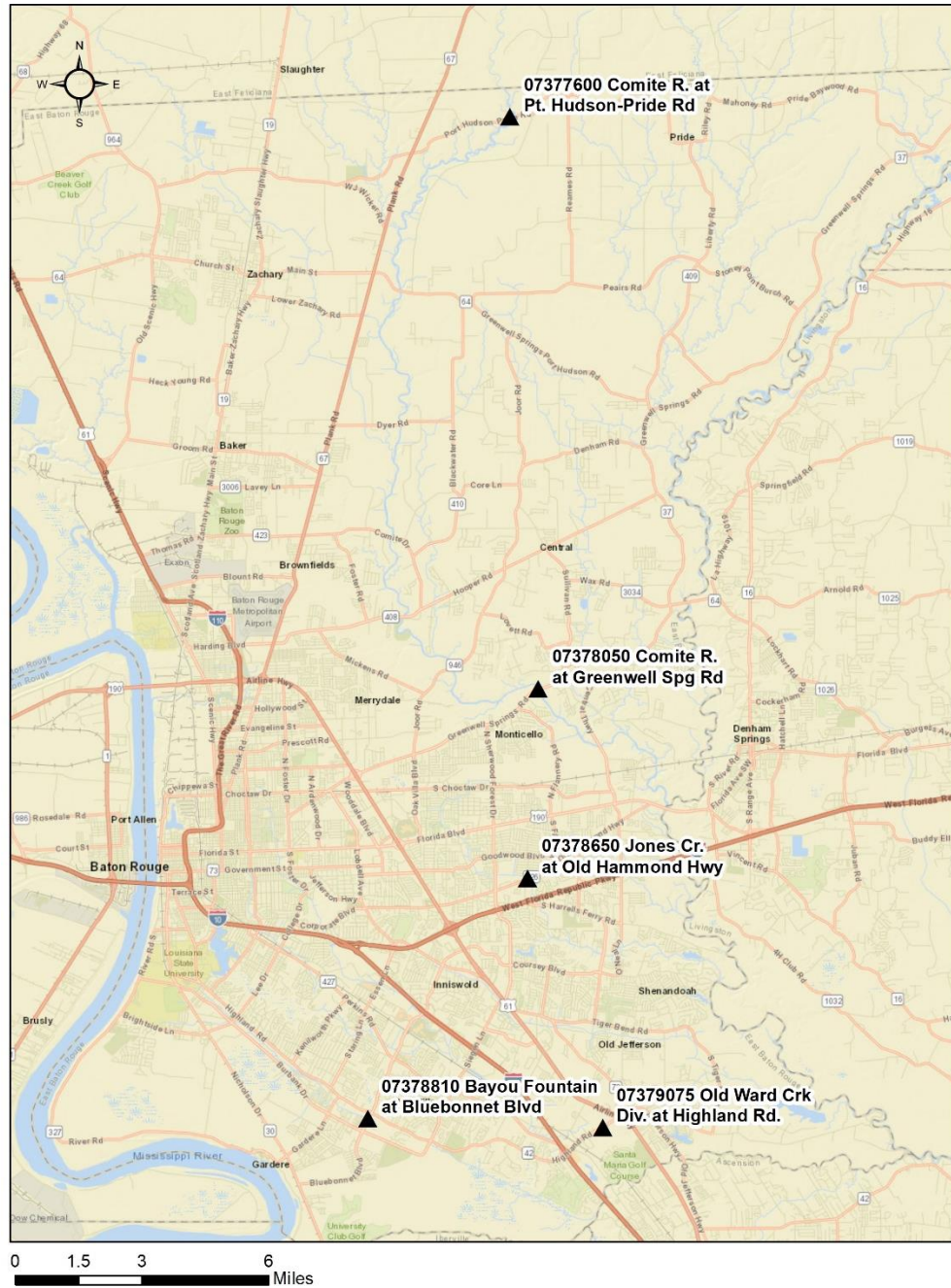
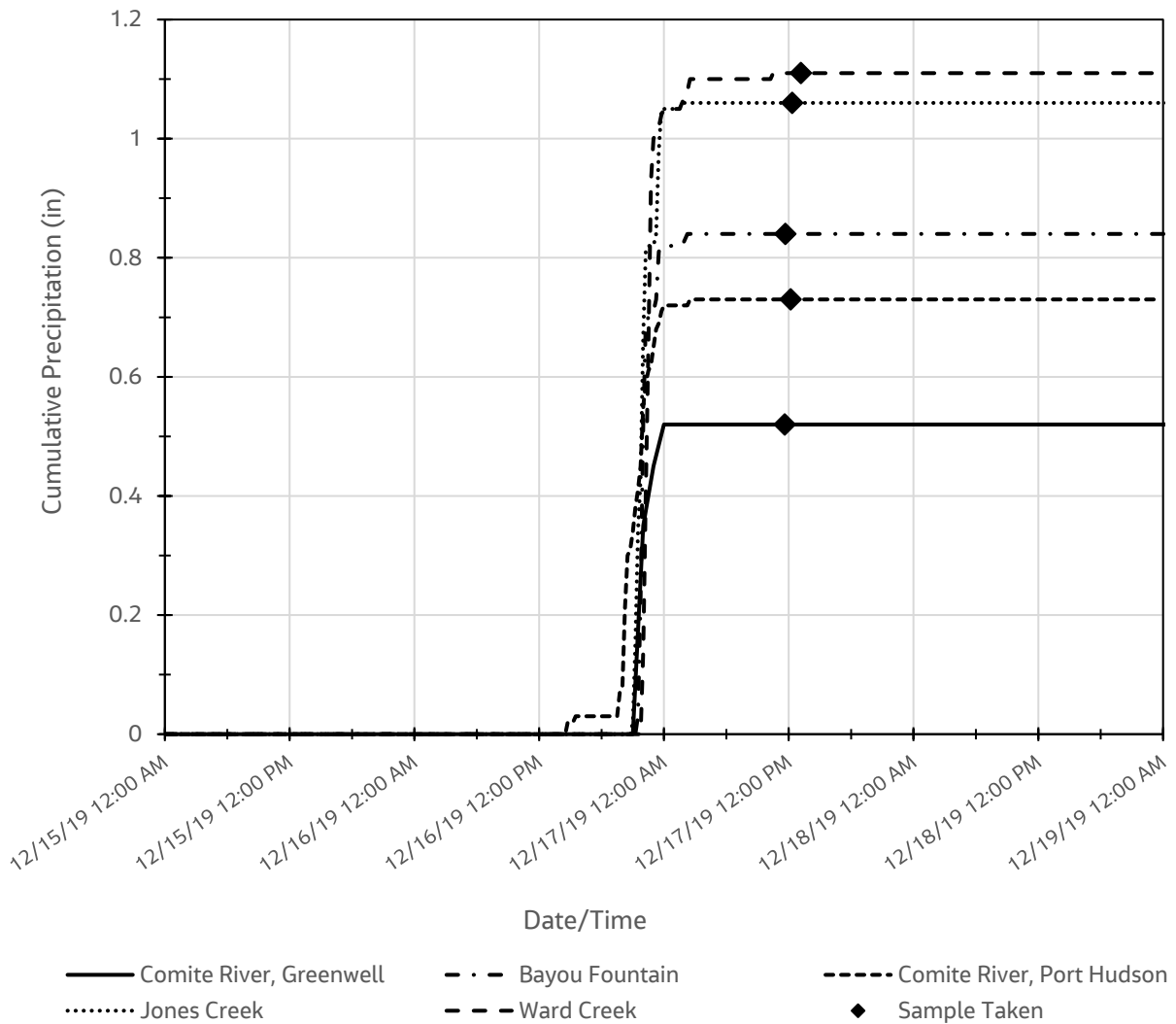
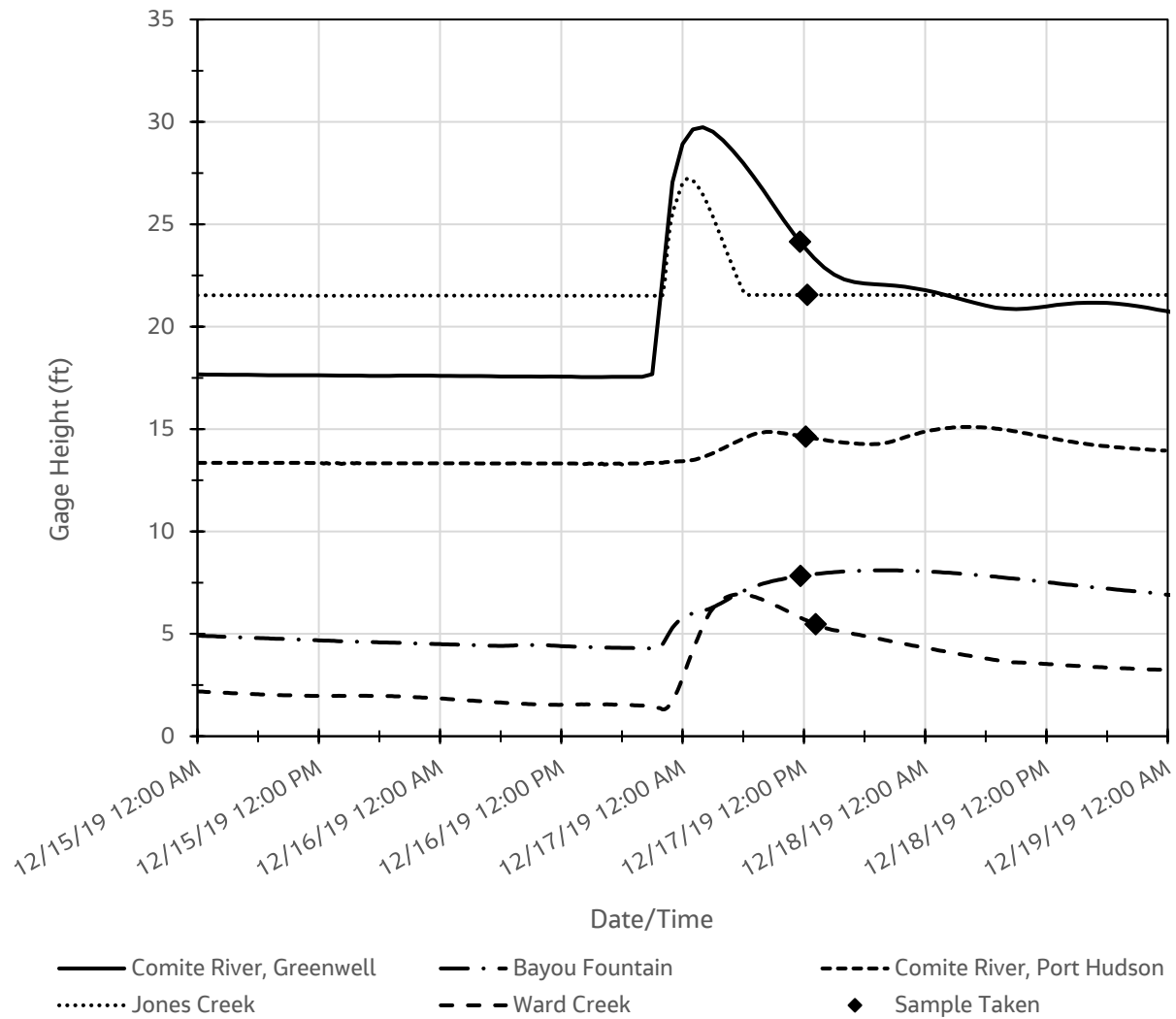


Figure 1: Sampling Locations



**Figure 2: Cumulative Precipitation – December 15-19, 2019**



**Figure 3: USGS Gage Height – December 15-19, 2019**





*Element Materials Technology Lafayette*  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: [www.element.com](http://www.element.com)

December 19, 2019

Michael F Lowe  
East Baton Rouge Parish  
2443 River Rd.  
Baton Rouge, LA 70802  
TEL:  
FAX: 225 389 3111

RE: North WW Treatment Plant-Outfall 001 Daily

Order No.: 19120863

Dear Michael F Lowe:

Element Materials Technology Lafayette received 5 sample(s) on 12/17/2019 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA180028. ISDH Certification No.: C-LA-01. NDELCP Certification No.: R-226. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibeaux  
Customer Service Supervisor  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344



Element Materials Technology Lafayette  
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## Case Narrative

WO#: 19120863  
Date: 12/19/2019

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**CLIENT:** East Baton Rouge Parish  
**Project:** North WW Treatment Plant-Outfall 001 Daily

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Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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## Analytical Report

(consolidated)

WO#: 19120863

Date Reported: 12/19/2019

**CLIENT:** East Baton Rouge Parish **Collection Date:** 12/17/2019 11:37:00 AM  
**Project:** North WW Treatment Plant-Outfall 001 Daily  
**Lab ID:** 19120863-001 **Matrix:** AQUEOUS  
**Client Sample ID** Greenwell Springs & Comite River

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D	Analyst: <b>BXB</b>	
Enterococci	>2410	1.0		MPN/100mL	1	12/17/2019 4:01:00 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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## Analytical Report

(consolidated)

WO#: 19120863

Date Reported: 12/19/2019

**CLIENT:** East Baton Rouge Parish **Collection Date:** 12/17/2019 12:11:00 PM  
**Project:** North WW Treatment Plant-Outfall 001 Daily  
**Lab ID:** 19120863-002 **Matrix:** AQUEOUS  
**Client Sample ID** Port Hudson Pride & Comite River

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D	Analyst: BXB	
Enterococci	>2410	1.0		MPN/100mL	1	12/17/2019 4:01:00 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette  
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Website: www.element.com

## Analytical Report

(consolidated)

WO#: 19120863

Date Reported: 12/19/2019

**CLIENT:** East Baton Rouge Parish **Collection Date:** 12/17/2019 1:10:00 PM  
**Project:** North WW Treatment Plant-Outfall 001 Daily  
**Lab ID:** 19120863-003 **Matrix:** AQUEOUS  
**Client Sample ID** Highland Rd/Ward Creek

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D	Analyst: BXB	
Enterococci	>2410	1.0		MPN/100mL	1	12/17/2019 4:01:00 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		





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Website: www.element.com

## Analytical Report

(consolidated)

WO#: 19120863

Date Reported: 12/19/2019

**CLIENT:** East Baton Rouge Parish **Collection Date:** 12/17/2019 11:40:00 AM  
**Project:** North WW Treatment Plant-Outfall 001 Daily  
**Lab ID:** 19120863-004 **Matrix:** AQUEOUS  
**Client Sample ID** Grand Lakes Dr. & Bayou Fountain

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D	Analyst: BXB	
Enterococci	>2410	1.0		MPN/100mL	1	12/17/2019 4:01:00 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



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Website: www.element.com

## Analytical Report

(consolidated)

WO#: 19120863

Date Reported: 12/19/2019

**CLIENT:** East Baton Rouge Parish **Collection Date:** 12/17/2019 12:20:00 PM  
**Project:** North WW Treatment Plant-Outfall 001 Daily  
**Lab ID:** 19120863-005 **Matrix:** AQUEOUS  
**Client Sample ID** O'neal Lane/Jones Creek

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D	Analyst: <b>BXB</b>	
Enterococci	>2410	1.0		MPN/100mL	1	12/17/2019 4:01:00 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## QC SUMMARY REPORT

WO#: 19120863  
19-Dec-19

**Client:** East Baton Rouge Parish

**Project:** North WW Treatment Plant-Outfall 001 Daily

**BatchID:** R84623

Sample ID: <b>MB-R84623</b>	SampType: <b>MBLK</b>	TestCode: <b>ENTEROCOC</b>	Units: <b>MPN/100mL</b>	Prep Date:	RunNo: <b>84623</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R84623</b>	TestNo: <b>SM9230D</b>	Analysis Date: <b>12/17/2019</b>	SeqNo: <b>2122615</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Enterococci	< 1.0	1.0									

**Qualifiers:**  
H Holding times for preparation or analysis exceeded  
RL Reporting Limit  
W Sample container temperature is out of limit as specified at testcode

M Matrix Interference  
SDL Sample detection limit

ND Not Detected at the Reporting Limit  
U Analyte not detected



Element Materials Technology Lafayette  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344  
TEL: (337) 235-0483 FAX: (337) 233-6540  
Website: www.element.com

## Sample Log-In Check List

Client Name: **EAST\_BR\_NORTHPLAN**

Work Order Number: **19120863**

RcptNo: **1**

Logged by: **Danielle Hollier** **12/17/2019 3:30:00 PM**

Completed By: **Danielle Hollier** **12/17/2019 4:35:11 PM**

Reviewed By: **Cristina Thibeaux** **12/19/2019 1:13:57 PM**

*Danielle Hollier*  
*Danielle Hollier*  
*Cristina Thibeaux*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐  
4. Shipping container/cooler in good condition? Yes ☒ No ☐  
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒  
No. Seal Date: Signed By:  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels? Yes ☒ No ☐  
(Note discrepancies on chain of custody)  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met? Yes ☒ No ☐  
(If no, notify customer for authorization.)

### Special Handling (if applicable)

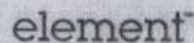
17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:  Date:   
By Whom:  Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding:   
Client Instructions:

18. Additional remarks:

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Not Present			

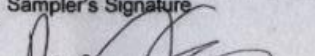
Laboratory  
Number:

19120862

Page 1 of 1


DW = Drinking Water  
WW = Waste Water  
GW = Ground Water  
AQ = Aqueous  
OT = Other

SL = Sludge      SOL = Solid  
O = Oil      SO = Soil  
F = Food      SW = Swab  
NG = Natural Gas  
NGL = Natural Gas Liquid  
PW = Produced Water  
CF = Completion Fluid

Company Name:	Client Information:	Billing Information:	PO Number:	Project Name/Number:	Page 1 of 1
Contact Name:	East Baton Rouge Parish	Same	Quote Number:	North WW Treatment Plant-Outfall 001 (Daily)	<b>Matrix Code</b>
Address:	Michael F Lowe		Required QC Level	Sampler's Signature	DW = Drinking Water
City, State Zip:	2443 River Rd.				WW = Waste Water
Phone Number:	Baton Rouge, LA 70802				GW = Ground Water
Fax Number:	(225) 389-3240 Ext:	Ext:	Bill Monthly		AQ = Aqueous
E-mail Address:	mlowe@brla.gov		<input type="checkbox"/> Yes <input type="checkbox"/> No	Shipping Method:	OT = Other
				UPS / FedEx / Airborne	SL = Sludge SOL = Solid
				DHL / Element / Hand / Mail	O = Oil SO = Soil
					F = Food SW = Swab
					NG = Natural Gas
					NGL = Natural Gas Liquid
					PW = Produced Water
					CF = Completion Fluid

Which Regulations Apply:		Turn Time		(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container		Pres.	Requested Tests								Comments
<input type="checkbox"/> RCRA	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Standard	<input type="checkbox"/> RUSH		Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Enterococci								
<input type="checkbox"/> POTW	<input type="checkbox"/> Distribution	<input type="checkbox"/> 1 Day	<input type="checkbox"/> 2 Day	Matrix												
<input type="checkbox"/> NPDES	<input type="checkbox"/> Special	<input type="checkbox"/> Other														
<input type="checkbox"/> USDA/FDA	<input type="checkbox"/> State															
<input type="checkbox"/> RECAP/RISC	<input type="checkbox"/> Other															
Collection Information																
Sample ID/Description				Date	Time	Grab / Composite	Matrix									
Greenwell Springs & Comite River				12-17-19	1137	Grab	AQ	1	P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	X					
Port Hudson Pride & Comite River				12-17-19	1211	Grab	AQ	1	P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	X					
Highland Rd/Ward Creek				12-17-19	1310	Grab	AQ	1	P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	X					
Grand Lakes Dr. & Bayou Fountain				12-17-19	1140	Grab	AQ	1	P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	X					
O'neal Lane/Jones Creek				12-17-19	1220	Grab	AQ	1	P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	X					

Completion Field  
 Effluent:  
 pH: \_\_\_\_\_ @  
 TRC: \_\_\_\_\_ @  
 Flow: \_\_\_\_\_ @  
 Temp: \_\_\_\_\_ @  
 Gravity Influent:  
 pH: \_\_\_\_\_ @  
 Force Main Influent:

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1	Joseph Hebert	12/17/19 3:30pm		12-17-19 1530	
2	.				Received at lab on ice? <i>off</i>
3					<input type="checkbox"/> Yes <input type="checkbox"/> No Temp: <i>5.6°</i>

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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