

MINDEN WATER SYSTEM
PUBLIC WATER SUPPLY ID: LA1119021

2019 CCR

CONSUMER CONFIDENCE REPORT

The Water We Drink

MINDEN WATER SYSTEM Public Water Supply ID: LA1119021

We are pleased to present to you the Annual Water Quality Report for the year 2019. This report is designed to inform you about the quality of your water and services we deliver to you every day (Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien). Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

Our water source(s) are listed below:

Source Name	Source Water Type
WELL #10	Ground Water
WELL #05	Ground Water
WELL #08	Ground Water
WELL #06	Ground Water
WELL #04	Ground Water
WELL #11	Ground Water
WELL #09	Ground Water
WELL #01	Ground Water
WELL #07	Ground Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

Microbial Contaminants - such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic Contaminants - such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and Herbicides - which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

Organic Chemical Contaminants - including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

Radioactive Contaminants - which can be naturally-occurring or be the result of oil and gas production and mining activities.

A Source Water Assessment Plan (SWAP) is now available from our office. This plan is an assessment of a delineated area around our listed sources through which contaminants, if present, could migrate and reach our source water. It also includes an inventory of potential sources of contamination within the delineated area, and a determination of the water supply's susceptibility to contamination by the identified potential sources. According to the Source Water Assessment Plan, our water system had a susceptibility rating of 'HIGH'. If you would like to review the Source Water Assessment Plan, please feel free to contact our office.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health. We want our valued customers to be informed about their water utility. If you have any questions about this report, want to attend any scheduled meetings, or simply want to learn more about your drinking water, please contact Rick Buckner at 318-371-4250.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. MINDEN WATER SYSTEM is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

The Louisiana Department of Health routinely monitors for constituents in your drinking water according to Federal and State laws. The tables that follow show the results of our monitoring during the period of January 1st to December 31st, 2019. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

In the tables below, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms, we've provided the following definitions:

Parts per million (ppm) or Milligrams per liter (mg/L) – one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (ug/L) – one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Picocuries per liter (pCi/L) – picocuries per liter is a measure of the radioactivity in water.

Treatment Technique (TT) – an enforceable procedure or level of technological performance which public water systems must follow to ensure control of a contaminant.

Action level (AL) – the concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

Maximum contaminant level (MCL) – the “Maximum Allowed” MCL is the highest level of a contaminant that is allowed in drinking water. MCL’s are set as close to the MCLG’s as feasible using the best available treatment technology.

Maximum contaminant level goal (MCLG) – the “Goal” is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLG’s allow for a margin of safety.

Maximum residual disinfectant level (MRDL) – The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum residual disinfectant level goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Level 1 assessment – A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment – A very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

During the period covered by this report we had the below noted violations.

Compliance Period	Analyte	Type
No Violations Occurred in the Calendar Year of 2019		

Our water system tested a minimum of 15 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. With the microbiological samples collected, the water system collects disinfectant residuals to ensure control of microbial growth.

Disinfectant	Date	HighestRAA	Unit	Range	MRDL	MRDLG	Typical Source
CHLORINE	2019	0.9	ppm	0.3 - 1.26	4	4	Water additive used to control microbes.

In the tables below, we have shown the regulated contaminants that were detected. Chemical Sampling of our drinking water may not be required on an annual basis; therefore, information provided in this table refers back to the latest year of chemical sampling results. To determine compliance with the primary drinking water standards, the treated water is monitored when a contaminant is elevated in the source water.

Source Water Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
BARIUM	6/25/2018	0.16	0.064 - 0.16	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
BERYLLIUM, TOTAL	4/6/2018	0.57	0 - 0.57	ppb	4	4	Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries
CADMIUM	6/25/2018	0.57	0 - 0.57	ppb	5	5	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; Runoff from waste batteries and paints
FLUORIDE	6/25/2018	0.18	0.06 - 0.18	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories

Treated Water Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
BARIUM	4/6/2018	0.12	0.11 - 0.12	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
BERYLLIUM, TOTAL	4/6/2018	0.52	0 - 0.52	ppb	4	4	Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries
NITRATE-NITRITE	3/26/2019	0.54	0 - 0.54	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Source Water Radiological Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
GROSS ALPHA PARTICLE ACTIVITY	6/25/2018	1.56	0 - 1.56	pCi/l	15	0	Erosion of natural deposits
GROSS ALPHA, INCL. RADON & U	7/13/2015	4.56	0 - 4.56	PCI/L			

GROSS BETA PARTICLE ACTIVITY	6/25/2018	3.01	0 - 3.01	pCi/l	50	0	Decay of natural and man-made deposits. Note: The gross beta particle activity MCL is 4 millirems/year annual dose equivalent to the total body or any internal organ. 50 pCi/L is used as a screening level.
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Treated Water Radiological Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
COMBINED RADIUM (-226 & -228)	5/21/2019	1.496	0 - 1.496	pCi/l	5	0	Erosion of natural deposits

Lead and Copper	Date	90 TH Percentile	Range	Unit	AL	Sites Over AL	Typical Source
LEAD	2015 - 2017	1	0 - 23	ppb	15	1	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfection Byproducts	Sample Point	Period	Highest LRAA	Range	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	1108 PINE STREET	2019	2	1.26 - 3	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	119 N TANGLEWOOD DR	2019	2	0 - 1.69	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	404 INDUSTRIAL DRIVE	2019	2	1.26 - 1.74	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	HWY 531 AND INDUSTRIAL	2019	2	1.82 - 2	ppb	60	0	By-product of drinking water disinfection
TTHM	1108 PINE STREET	2019	11	7.8 - 15	ppb	80	0	By-product of drinking water chlorination
TTHM	119 N TANGLEWOOD DR	2019	4	0 - 6.5	ppb	80	0	By-product of drinking water chlorination
TTHM	404 INDUSTRIAL DRIVE	2019	6	2.2 - 8	ppb	80	0	By-product of drinking water chlorination
TTHM	HWY 531 AND INDUSTRIAL	2019	8	6.8 - 9.1	ppb	80	0	By-product of drinking water chlorination

Source Secondary Contaminants	Collection Date	Highest Value	Range	Unit	SMCL
CHLORIDE	7/20/2015	8.8	4.5 - 8.8	MG/L	250
IRON	4/6/2018	3	0 - 3	MG/L	0.3
MANGANESE	6/25/2018	0.091	0.02 - 0.091	MG/L	0.05
PH	7/20/2015	8.8	6 - 8.8	SU	8.5
SULFATE	7/20/2015	20.7	5.9 - 20.7	MG/L	250
ZINC	4/6/2018	0.028	0 - 0.028	MG/L	5

Treated Secondary Contaminants	Collection Date	Highest Value	Range	Unit	SMCL
IRON	4/6/2018	2.4	0.1 - 2.4	MG/L	0.3
MANGANESE	4/6/2018	0.064	0.038 - 0.064	MG/L	0.05
ZINC	4/6/2018	0.031	0 - 0.031	MG/L	5

+++++Environmental Protection Agency Required Health Effects Language+++++
Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

There are no additional required health effects notices.

There are no additional required health effects violation notices.

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Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers.

We at the MINDEN WATER SYSTEM work around the clock to provide top quality drinking water to every tap. We ask that all our customers help us protect and conserve our water sources, which are the heart of our community, our way of life, and our children's future. Please call our office if you have questions.

Unregulated Contaminate Material Report

The Louisiana Department of Health routinely monitors for constituents in your drinking water according to Federal and State laws. The reports that follow show the results of monitoring during the period of October 2018 through April 2019 for the presence of Unregulated Contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.



Eaton Analytical

110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Bayou Tex Services, LLC
Attn: Ben Head
241 Suzanne Drive
Shreveport, LA 71115

Report: 432341
Priority: Standard Written
Status: Final
Lab ID Code: IN00035
PWS ID: LA1119021

PWS Facility ID: 44004
Sampling Point ID: 7AUI
Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082160	7AUI	200.8	10/08/18 13:15	Client	10/09/18 10:15
4082161	7AUI	525.3	10/08/18 13:15	Client	10/09/18 10:15
4082162	7AUI	530	10/08/18 13:15	Client	10/09/18 10:15
4082163	7AUI	541	10/08/18 13:15	Client	10/09/18 10:15

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Karen Fullmer at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Karen Fullmer ASM

Authorized Signature

Title

11/08/2018

Date

Client Name: Bayou Tex Services, LLC
Report #: 432341

Sampling Point ID: 7AUI

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1053	Germanium	200.8	0.300	< 0.300	ug/L	10/16/18 12:30	10/17/18 14:47	4082160
1032	Manganese	200.8	0.400	40.4	ug/L	10/16/18 12:30	10/17/18 14:47	4082160
2115	alpha-Hexachlorocyclohexane	525.3	0.0100	< 0.0100	ug/L	10/22/18 08:30	10/24/18 21:12	4082161
2057	Chlorpyrifos	525.3	0.0300	< 0.0300	ug/L	10/22/18 08:30	10/24/18 21:12	4082161
2116	Dimethipin	525.3	0.200	< 0.200	ug/L	10/22/18 08:30	10/24/18 21:12	4082161
7570	Ethoprop	525.3	0.0300	< 0.0300	ug/L	10/22/18 08:30	10/24/18 21:12	4082161
2117	Oxyfluorfen	525.3	0.0500	< 0.0500	ug/L	10/22/18 08:30	10/24/18 21:12	4082161
2118	Profenofos	525.3	0.300	< 0.300	ug/L	10/22/18 08:30	10/24/18 21:12	4082161
2119	Tebuconazole	525.3	0.200	< 0.200	ug/L	10/22/18 08:30	10/24/18 21:12	4082161
2114	Permethrin, cis & trans	525.3	0.0400	< 0.0400	ug/L	10/22/18 08:30	10/24/18 21:12	4082161
2120	Tribufos	525.3	0.0700	< 0.0700	ug/L	10/22/18 08:30	10/24/18 21:12	4082161
2433	Butylated hydroxyanisole	530	0.0300	< 0.0300	ug/L	10/17/18 08:30	10/26/18 09:22	4082162
2434	o-Toluidine	530	0.00700	< 0.00700	ug/L	10/17/18 08:30	10/26/18 09:22	4082162
3435	Quinoline	530	0.0200	< 0.0200	ug/L	10/17/18 08:30	10/26/18 09:22	4082162
2084	1-Butanol	541	2.00	< 2.00	ug/L	11/05/18 08:05	11/06/18 13:09	4082163
2431	2-Methoxyethanol	541	0.400	< 0.400	ug/L	11/05/18 08:05	11/06/18 13:09	4082163
2432	2-Propen-1-ol	541	0.500	< 0.500	ug/L	11/05/18 08:05	11/06/18 13:09	4082163

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



Eaton Analytical

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1 800 332 4345

Laboratory Report

Client: Bayou Tex Services, LLC

Report: 432334

Attn: Ben Head
241 Suzanne Drive
Shreveport, LA 71115

Priority: Standard Written

Status: Final

Lab ID Code: IN00035

PWS ID: LA1119021

PWS Facility ID: 99001

Sampling Point ID: DBP01

Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082136	DBP 01	552.3	10/08/18 14:35	Client	10/09/18 10:15

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Karen Fullmer at (574) 233-4777.

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Karen Fullmer ASM

Authorized Signature

Title

10/25/2018

Date

Client Name: Bayou Tex Services, LLC

Report #: 432334

Sampling Point ID: DBP01

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2455	Bromochloroacetic acid	552.3	0.300	0.748	ug/L	10/16/18 07:30	10/17/18 05:13	4082136
9535	Bromodichloroacetic acid	552.3	0.500	< 0.500	ug/L	10/16/18 07:30	10/17/18 05:13	4082136
9339	Chlorodibromoacetic acid	552.3	0.300	0.377	ug/L	10/16/18 07:30	10/17/18 05:13	4082136
2454	Dibromoacetic acid	552.3	0.300	1.11	ug/L	10/16/18 07:30	10/17/18 05:13	4082136
2451	Dichloroacetic acid	552.3	0.200	0.388	ug/L	10/16/18 07:30	10/17/18 05:13	4082136
2453	Monobromoacetic acid	552.3	0.300	< 0.300	ug/L	10/16/18 07:30	10/17/18 05:13	4082136
2450	Monochloroacetic acid	552.3	2.00	< 2.00	ug/L	10/16/18 07:30	10/17/18 05:13	4082136
9639	Tribromoacetic acid	552.3	2.00	< 2.00	ug/L	10/16/18 07:30	10/17/18 05:13	4082136
2452	Trichloroacetic acid	552.3	0.500	< 0.500	ug/L	10/16/18 07:30	10/17/18 05:13	4082136

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.



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Laboratory Report

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Report: 432334

Attn: Ben Head
241 Suzanne Drive
Shreveport, LA 71115

Priority: Standard Written

Status: Final

Lab ID Code: IN00035

PWS ID: LA1119021

PWS Facility ID: 99001

Sampling Point ID: DBP02

Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082137	DBP 02	552.3	10/08/18 14:00	Client	10/09/18 10:15

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Karen Fullmer ASM

Authorized Signature

Title

10/25/2018

Date

Client Name: Bayou Tex Services, LLC

Report #: 432334

Sampling Point ID: DBP02

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2455	Bromochloroacetic acid	552.3	0.300	0.357	ug/L	10/16/18 07:30	10/17/18 05:49	4082137
9535	Bromodichloroacetic acid	552.3	0.500	< 0.500	ug/L	10/16/18 07:30	10/17/18 05:49	4082137
9339	Chlorodibromoacetic acid	552.3	0.300	0.335	ug/L	10/16/18 07:30	10/17/18 05:49	4082137
2454	Dibromoacetic acid	552.3	0.300	0.721	ug/L	10/16/18 07:30	10/17/18 05:49	4082137
2451	Dichloroacetic acid	552.3	0.200	< 0.200	ug/L	10/16/18 07:30	10/17/18 05:49	4082137
2453	Monobromoacetic acid	552.3	0.300	< 0.300	ug/L	10/16/18 07:30	10/17/18 05:49	4082137
2450	Monochloroacetic acid	552.3	2.00	< 2.00	ug/L	10/16/18 07:30	10/17/18 05:49	4082137
9639	Tribromoacetic acid	552.3	2.00	< 2.00	ug/L	10/16/18 07:30	10/17/18 05:49	4082137
2452	Trichloroacetic acid	552.3	0.500	< 0.500	ug/L	10/16/18 07:30	10/17/18 05:49	4082137

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.



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Report: 432334

Attn: Ben Head
241 Suzanne Drive
Shreveport, LA 71115

Priority: Standard Written

Status: Final

Lab ID Code: IN00035

PWS ID: LA1119021

PWS Facility ID: 99001

Sampling Point ID: DBP03

Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082138	DBP 03	552.3	10/08/18 13:45	Client	10/09/18 10:15

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

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Authorized Signature

Title

10/25/2018

Date

Client Name: Bayou Tex Services, LLC

Report #: 432334

Sampling Point ID: DBP03

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2455	Bromochloroacetic acid	552.3	0.300	0.864	ug/L	10/16/18 07:30	10/17/18 08:11	4082138
9535	Bromodichloroacetic acid	552.3	0.500	< 0.500	ug/L	10/16/18 07:30	10/17/18 08:11	4082138
9339	Chlorodibromoacetic acid	552.3	0.300	0.422	ug/L	10/16/18 07:30	10/17/18 08:11	4082138
2454	Dibromoacetic acid	552.3	0.300	1.23	ug/L	10/16/18 07:30	10/17/18 08:11	4082138
2451	Dichloroacetic acid	552.3	0.200	0.384	ug/L	10/16/18 07:30	10/17/18 08:11	4082138
2453	Monobromoacetic acid	552.3	0.300	< 0.300	ug/L	10/16/18 07:30	10/17/18 08:11	4082138
2450	Monochloroacetic acid	552.3	2.00	< 2.00	ug/L	10/16/18 07:30	10/17/18 08:11	4082138
9639	Tribromoacetic acid	552.3	2.00	< 2.00	ug/L	10/16/18 07:30	10/17/18 08:11	4082138
2452	Trichloroacetic acid	552.3	0.500	< 0.500	ug/L	10/16/18 07:30	10/17/18 08:11	4082138

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.



Eaton Analytical

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Laboratory Report

Client: Bayou Tex Services, LLC

Report: 432334

Attn: Ben Head
241 Suzanne Drive
Shreveport, LA 71115

Priority: Standard Written

Status: Final

Lab ID Code: IN00035

PWS Facility ID: 99001

PWS ID: LA1119021

Sampling Point ID: DBP04

Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082139	DBP 04	552.3	10/08/18 14:20	Client	10/09/18 10:15

Report Summary

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Title

10/25/2018

Date

Client Name: Bayou Tex Services, LLC

Report #: 432334

Sampling Point ID: DBP04

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2455	Bromochloroacetic acid	552.3	0.300	0.497	ug/L	10/16/18 07:30	10/17/18 08:47	4082139
9535	Bromodichloroacetic acid	552.3	0.500	< 0.500	ug/L	10/16/18 07:30	10/17/18 08:47	4082139
9339	Chlorodibromoacetic acid	552.3	0.300	0.335	ug/L	10/16/18 07:30	10/17/18 08:47	4082139
2454	Dibromoacetic acid	552.3	0.300	0.870	ug/L	10/16/18 07:30	10/17/18 08:47	4082139
2451	Dichloroacetic acid	552.3	0.200	< 0.200	ug/L	10/16/18 07:30	10/17/18 08:47	4082139
2453	Monobromoacetic acid	552.3	0.300	< 0.300	ug/L	10/16/18 07:30	10/17/18 08:47	4082139
2450	Monochloroacetic acid	552.3	2.00	< 2.00	ug/L	10/16/18 07:30	10/17/18 08:47	4082139
9639	Tribromoacetic acid	552.3	2.00	< 2.00	ug/L	10/16/18 07:30	10/17/18 08:47	4082139
2452	Trichloroacetic acid	552.3	0.500	< 0.500	ug/L	10/16/18 07:30	10/17/18 08:47	4082139

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Laboratory Report

Client: Bayou Tex Services, LLC

Report: 432334

Attn: Ben Head
241 Suzanne Drive
Shreveport, LA 71115

Priority: Standard Written

Status: Final

Lab ID Code: IN00035

PWS Facility ID: 22001

PWS ID: LA1119021

Sampling Point ID: 7JFD

Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082140	7 JFD/Well #1	300.0	10/08/18 11:10	Client	10/09/18 10:15
4082141	7 JFD/Well #1	5310 C	10/08/18 11:10	Client	10/09/18 10:15

Report Summary

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Client Name: Bayou Tex Services, LLC

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Client Name: Bayou Tex Services, LLC

Report #: 432334

Sampling Point ID: 7JFD

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1004	Bromide	300.0	20.0	30.0	ug/L	---	10/16/18 08:10	4082140
2920	Total Organic Carbon (TOC)	5310 C	1000	< 1000	ug/L	---	10/17/18 08:38	4082141

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Laboratory Report

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Report: 432334

Attn: Ben Head
241 Suzanne Drive
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Priority: Standard Written

Status: Final

Lab ID Code: IN00035

PWS Facility ID: 22002

PWS ID: LA1119021

Sampling Point ID: 7JFE

Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082142	7 JFE/Well #4	300.0	10/08/18 11:25	Client	10/09/18 10:15
4082143	7 JFE/Well #4	5310 C	10/08/18 11:25	Client	10/09/18 10:15

Report Summary

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Date

Client Name: Bayou Tex Services, LLC

Report #: 432334

Sampling Point ID: 7JFE

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1004	Bromide	300.0	20.0	24.9	ug/L	---	10/16/18 08:46	4082142
2920	Total Organic Carbon (TOC)	5310 C	1000	< 1000	ug/L	---	10/17/18 08:58	4082143

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.



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Attn: Ben Head
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Priority: Standard Written

Status: Final

Lab ID Code: IN00035

PWS Facility ID: 22003

PWS ID: LA1119021

Sampling Point ID: 7JFF

Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082144	7 JFF/Well #5	300.0	10/08/18 11:45	Client	10/09/18 10:15
4082145	7 JFF/Well #5	5310 C	10/08/18 11:45	Client	10/09/18 10:15

Report Summary

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Report #: 432334

Title _____

10/25/2018
Date _____

Sampling Point ID: 7JFF

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1004	Bromide	300.0	20.0	74.0	ug/L	---	10/16/18 09:22	4082144
2920	Total Organic Carbon (TOC)	5310 C	1000	< 1000	ug/L	---	10/17/18 09:18	4082145

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.



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Status: Final

Lab ID Code: IN00035

PWS Facility ID: 22004

PWS ID: LA1119021

Sampling Point ID: 7JFG

Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082146	7 JFG/Well #6	300.0	10/08/18 11:35	Client	10/09/18 10:15
4082147	7 JFG/Well #6	5310 C	10/08/18 11:35	Client	10/09/18 10:15

Report Summary

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Report #: 432334

Sampling Point ID: 7JFG

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1004	Bromide	300.0	20.0	< 20.0	ug/L	---	10/16/18 09:58	4082146
2920	Total Organic Carbon (TOC)	5310 C	1000	< 1000	ug/L	---	10/17/18 09:37	4082147

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.



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Report: 432334
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Status: Final
Lab ID Code: IN00035
PWS ID: LA1119021

PWS Facility ID: 22005
Sampling Point ID: 7JFH
Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082148	7 JHF/Well #7	300.0	10/08/18 12:40	Client	10/09/18 10:15
4082149	7 JHF/Well #7	5310 C	10/08/18 12:40	Client	10/09/18 10:15

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

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Report #: 432334

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Client Name: Bayou Tex Services, LLC

Report #: 432334

Sampling Point ID: 7JFH

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1004	Bromide	300.0	20.0	44.9	ug/L	---	10/16/18 10:34	4082148
2920	Total Organic Carbon (TOC)	5310 C	1000	< 1000	ug/L	---	10/17/18 09:57	4082149

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.



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Status: Final
Lab ID Code: IN00035
PWS ID: LA1119021

PWS Facility ID: 22006
Sampling Point ID: 7JFI
Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082150	7 JFI/Well #8	300.0	10/08/18 11:55	Client	10/09/18 10:15
4082151	7 JFI/Well #8	5310 C	10/08/18 11:55	Client	10/09/18 10:15

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Client Name: Bayou Tex Services, LLC
Report #: 432334

10/25/2018
Date _____

Sampling Point ID: 7JFI

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1004	Bromide	300.0	20.0	152	ug/L	---	10/16/18 11:10	4082150
2920	Total Organic Carbon (TOC)	5310 C	1000	< 1000	ug/L	---	10/17/18 10:16	4082151

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.



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Report: 432334

Attn: Ben Head
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Priority: Standard Written

Status: Final

Lab ID Code: IN00035

PWS Facility ID: 22007

PWS ID: LA1119021

Sampling Point ID: 7JFJ

Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082152	7 JFJ/Well #9	300.0	10/08/18 12:10	Client	10/09/18 10:15
4082153	7 JFJ/Well #9	5310 C	10/08/18 12:10	Client	10/09/18 10:15

Report Summary

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Title

10/25/2018

Date

Client Name: Bayou Tex Services, LLC
Report #: 432334

Client Name: Bayou Tex Services, LLC

Report #: 432334

Sampling Point ID: 7JFJ

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1004	Bromide	300.0	20.0	49.7	ug/L	---	10/16/18 11:46	4082152
2920	Total Organic Carbon (TOC)	5310 C	1000	< 1000	ug/L	---	10/17/18 10:36	4082153

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.



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Laboratory Report

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Report: 432334

Attn: Ben Head
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Priority: Standard Written

Status: Final

Lab ID Code: IN00035

PWS Facility ID: 22008

PWS ID: LA1119021

Sampling Point ID: 7JFK

Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082154	7 JFKWell #10	300.0	10/08/18 12:25	Client	10/09/18 10:15
4082155	7 JFKWell #10	5310 C	10/08/18 12:25	Client	10/09/18 10:15

Report Summary

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Date

Client Name: Bayou Tex Services, LLC

Report #: 432334

Sampling Point ID: 7JFK

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1004	Bromide	300.0	20.0	42.5	ug/L	--	10/16/18 12:22	4082154
2920	Total Organic Carbon (TOC)	5310 C	1000	< 1000	ug/L	---	10/17/18 10:56	4082155

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.



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Report: 432334

Attn: Ben Head
241 Suzanne Drive
Shreveport, LA 71115

Priority: Standard Written

Status: Final

Lab ID Code: IN00035

PWS Facility ID: 22011

PWS ID: LA1119021

Sampling Point ID: 7JYZ

Sample Event Code: SE1

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4082156	7 JYZ/Well #11	300.0	10/08/18 13:05	Client	10/09/18 10:15
4082157	7 JYZ/Well #11	5310 C	10/08/18 13:05	Client	10/09/18 10:15

Report Summary

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Title

10/25/2018

Date

Client Name: Bayou Tex Services, LLC

Report #: 432334

Sampling Point ID: 7JYZ

PWS ID: LA1119021

UCMR Result Summary								
Analyte ID #	Analyte	Method	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1004	Bromide	300.0	20.0	< 20.0	ug/L	---	10/16/18 12:58	4082156
2920	Total Organic Carbon (TOC)	5310 C	1000	< 1000	ug/L	---	10/17/18 11:15	4082157

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.