4/21/2025

RE: Consumer Confidence Report

Dear Richwood Resident,

Richwood is required to provide Richwood's water customers with the Public Water System's most recent water quality report in the form of chemical analysis results. In addition to the chemical analysis provided in the report, there are also listed any Texas Commission on Environmental Quality (TCEQ) violations for Richwood for the calendar year of 2024.

If you have any questions, comments, or concerns about the data contained within this report, please feel free to contact Richwood City Hall at:

979-265-2082, option 5

Clif Custer
Director of Public Works
City of Richwood

2024 Consumer Confidence Report for Public Water System CITY OF RICHWOOD

This is your water quality report for January 1 to December 31, 2024

CITY OF RICHWOOD provides surface water and ground water from **the Gulf Coast Aquifer & Brazos River** located in **Brazoria County**.

For more information regarding this report contact:

Name Clifton Custer

Phone (979)265-2082, option 5

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (979) 265-2082.

Definitions and Abbreviations

Definitions and Abbreviations	The following tables contain scientific terms and measures, some of which may require explanation.
Action Level:	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
Level 1 Assessment:	A Level 1 assessment is 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 Level 2 assessment is 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.
Maximum Contaminant Level or MCL:	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
Maximum Contaminant Level Goal or MCLG:	The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
Maximum residual disinfectant level or 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 or 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.
MFL	million fibers per liter (a measure of asbestos)
mrem:	millirems per year (a measure of radiation absorbed by the body)
na:	not applicable.
NTU	nephelometric turbidity units (a measure of turbidity)
pCi/L	picocuries per liter (a measure of radioactivity)

Definitions and Abbreviations

ppb:	micrograms per liter or parts per billion
ppm:	milligrams per liter or parts per million
ppq	parts per quadrillion, or picograms per liter (pg/L)
ppt	parts per trillion, or nanograms per liter (ng/L)
Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water.

Information about your Drinking 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 the 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.

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. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

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 storm water 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 storm water 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 storm water runoff, and septic systems.

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

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. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

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. We are responsible for providing high quality drinking water, but we 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.

Information about Source Water

CITY OF RICHWOOD purchases water from BRAZOSPORT WATER AUTHORITY. BRAZOSPORT WATER AUTHORITY provides purchase surface water from **the Brazos River located in Brazoria County.**
[insert a table containing any contaminant that was detected in the provider's water for this calendar year, unless that contaminant has been separately monitored in your water system (i.e. TTHM, HAA5, Lead and Copper, Coliforms)].

TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact **Richwood Public Works Director, Clifton Custer at (979)265-2082, option 5.**

Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 positive monthly sample.	2		0	N	Naturally present in the environment.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2024	1.3	1.3	0.493	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
Lead	2024	0	15	2.28	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

2024 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2024	20	3.2 - 33	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

*The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year

Total Trihalomethanes (TTHM)	2024	21	2.7 - 29.5	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

*The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2024	0.114	0.114 - 0.114	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2024	40	40 - 40	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2024	0.21	0.21 - 0.21	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2024	1	0 - 0.65	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2024	6.9	6.9 - 6.9	0	50	pCi/L*	N	Decay of natural and man-made deposits.

*EPA considers 50 pCi/L to be the level of concern for beta particles.

Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Atrazine	2024	3	3.2 - 3.2	3	3	ppb	N	Runoff from herbicide used on row crops.

Disinfectant Residual

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Total Chlorine	2024	**1.71ppm**	**.5 – 3.40ppm**	4	4	Parts per million	N	Water additive used to control microbes.

Violations

Lead and Copper Rule

The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

Violation Type	Violation Begin	Violation End	Violation Explanation
LEAD CONSUMER NOTICE (LCR)	09/29/2024	11/19/2024	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.

Unregulated Contaminant Monitoring Rule (UCMR5) Sample Results

Unregulated Contaminant	Collection Date	Average Level (µg/L)	Range of Levels Detected
Lithium	2023	29.6	9.9 - 44
NFDHA	2023	N/A (single sample result)	0.0313
PFBA	2023	0.018	0.0075 - 0.038
PFBS	2023	0.004	0.004 - 0.005
PFHxA	2023	0.0053	0.0048 - 0.0057
PFPeA	2023	0.13	0.01 - 0.18

2024 Water Quality Test Results (Brazosport Water Authority)

TEXAS Health and Human Services

Texas Department of State Health Services

PUBLIC HEALTH LABORATORY DIVISION

Volatile Organic Compounds by GC/MS Analysis Report

Lab Copy/Reprint

Address: 1100 W 49th St
Austin, TX 78756
Mail: PO Box 149347, MC-1947
Austin, TX 78714-9347
envsciadmin@dshs.texas.gov
www.dshs.state.tx.us
512-776-7587

Submitter ID # (PWS ID #): 0200497

BRAZOSPORT WATER AUTHORITY
WOODRUFF, RONALD, E
1251 FM 2004 RD
LAKE JACKSON, TX 77566-4096

Date Reported: 03/14/2025
Report ID# : 20250314104558AG75297

Lab Sample ID# : AG75297
Sample Priority : NORMAL
TCEQ Sample ID: 2400157

Water Source :
Entry Point(s) : EP001

Date Collected : 02/28/2024 09:33
Date Received : 02/29/2024
Date Analyzed : 03/04/2024

Conc. Units : µg/L
Method : EPA 524.2
Analyst : AK
Sample Cond. : Acceptable

Regulated Cmpds.	Result	Qualifier
Benzene [1]	<0.5	
Carbon tetrachloride [1]	<0.5	
Monochlorobenzene [1]	<0.5	
o-Dichlorobenzene [1]	<0.5	
para-Dichlorobenzene [1]	<0.5	
1,2-Dichloroethane [1]	<0.5	
1,1-Dichloroethylene [1]	<0.5	
cis-1,2-Dichloroethylene [1]	<0.5	
trans-1,2-Dichloroethylene [1]	<0.5	
1,2-Dichloropropane [1]	<0.5	
Dichloromethane [1]	<0.5	
Ethylbenzene [1]	<0.5	
Styrene [1]	<0.5	
Tetrachloroethylene [1]	<0.5	
Toluene [1]	<0.5	
1,2,4-Trichlorobenzene [1]	<0.5	
1,1,1-Trichloroethane [1]	<0.5	
1,1,2-Trichloroethane [1]	<0.5	
Trichloroethylene [1]	<0.5	
Vinyl chloride [1]	<0.5	
Xylenes (total) [1]	<0.5	

Monitored Cmpds.	Result	Qualifier
Chloroform	**1.7**	
Bromodichloromethane	**2.9**	
Dibromochloromethane	**3.2**	
Bromoform	**1.9**	
Dibromomethane	<1.0	
1,3-Dichlorobenzene	<1.0	
1,1-Dichloropropene	<1.0	
1,1-Dichloroethane	<1.0	
1,1,2,2-Tetrachloroethane	<1.0	
1,3-Dichloropropane	<1.0	
Chloromethane	<2.0	
Bromomethane	<2.0	XN
1,2,3-Trichloropropane	<1.0	
1,1,1,2-Tetrachloroethane	<1.0	G
Chloroethane	<2.0	
2,2-Dichloropropane	<1.0	G
2-Chlorotoluene	<1.0	
4-Chlorotoluene	<1.0	
Bromobenzene	<1.0	
cis-1,3-Dichloropropene	<1.0	
trans-1,3-Dichloropropene	<1.0	

Monitored Cmpds	Result	Qualifier
1,2,4-Trimethylbenzene	<1.0	
1,2,3-Trichlorobenzene	<1.0	
n-Propylbenzene	<1.0	
n-Butylbenzene	<1.0	
Naphthalene	<1.0	
Hexachlorobutadiene	<1.0	
1,3,5-Trimethylbenzene	<1.0	
4-Isopropyltoluene	<1.0	
Isopropylbenzene	<1.0	
t-Butylbenzene	<1.0	
s-Butylbenzene	<1.0	
Trichlorofluoromethane	<2.0	
Dichlorodifluoromethane	<2.0	
Bromochloromethane	<1.0	

Other Compounds	Result	Qualifier
Acetone	<10	
Acrylonitrile	<10	
2-Butanone (MEK)	<10	
Carbon disulfide	<1.0	
Ethyl methacrylate	<1.0	
2-Hexanone	<1.0	
Iodomethane	<5.0	
Methyl methacrylate	<1.0	
4-Methyl-2-pentanone (MIBK)	<2.0	
Methyl-t-butyl ether (MTBE)	<0.5	
Tetrahydrofuran	<5.0	

Comments:

X - The Minimum Reporting Limit (MRL) verification check did not meet the method acceptance limits.
N - See sample comments.
G - CCV/LFB recovery was below method acceptance limits.

EPA Method 524.2: CCV/LFB recovery of Bromomethane was above method acceptance limits. Bromomethane was not detected in the sample. The test results on this report relate only to the sample identified on this report. The test results for analytes noted([1]) meet all TNI (2016 Standard) requirements.

Authorized by Team Lead CJONES on 03/14/2024

Page 1 of 1

TEXAS Health and Human Services

Texas Department of State Health Services

PUBLIC HEALTH LABORATORY DIVISION

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www.dshs.state.tx.us
512-776-7587

Submitter ID # (PWS ID #): 0200497

BRAZOSPORT WATER AUTHORITY
WOODRUFF, RONALD, E
1251 FM 2004 RD
LAKE JACKSON, TX 77566-4096

Date Reported: 03/14/2025
Report ID# : 20250314104558AG82347

Lab Sample ID# : AG82347
Sample Priority : NORMAL
TCEQ Sample ID: 2406664

Water Source :
Entry Point(s) : EP001

Date Collected : 04/23/2024 08:13
Date Received : 04/24/2024
Date Analyzed : 04/25/2024

Conc. Units : µg/L
Method : EPA 524.2
Analyst : CJ
Sample Cond. : Acceptable

Regulated Cmpds.	Result	Qualifier
Benzene ¹	<0.5	
Carbon tetrachloride ¹	<0.5	
Monochlorobenzene ¹	<0.5	
o-Dichlorobenzene ¹	<0.5	
para-Dichlorobenzene ¹	<0.5	
1,2-Dichloroethane ¹	<0.5	
1,1-Dichloroethylene ¹	<0.5	
cis-1,2-Dichloroethylene ¹	<0.5	
trans-1,2-Dichloroethylene ¹	<0.5	
1,2-Dichloropropane ¹	<0.5	
Dichloromethane ¹	<0.5	
Ethylbenzene ¹	<0.5	
Styrene ¹	<0.5	
Tetrachloroethylene ¹	<0.5	
Toluene ¹	<0.5	
1,2,4-Trichlorobenzene ¹	<0.5	
1,1,1-Trichloroethane ¹	<0.5	
1,1,2-Trichloroethane ¹	<0.5	
Trichloroethylene ¹	<0.5	
Vinyl chloride ¹	<0.5	
Xylenes (total) ¹	<0.5	
Monitored Cmpds.	**Result**	**Qualifier**
Chloroform	**4.7**	
Bromodichloromethane	**8.8**	
Dibromochloromethane	**9.4**	
Bromoform	**6.8**	
Dibromomethane	<1.0	
1,3-Dichlorobenzene	<1.0	
1,1-Dichloropropene	<1.0	
1,1-Dichloroethane	<1.0	
1,1,2,2-Tetrachloroethane	<1.0	
1,3-Dichloropropane	<1.0	
Chloromethane	<2.0	
Bromomethane	<2.0	
1,2,3-Trichloropropane	<1.0	
1,1,1,2-Tetrachloroethane	<1.0	
Chloroethane	<2.0	
2,2-Dichloropropane	<1.0	
2-Chlorotoluene	<1.0	
4-Chlorotoluene	<1.0	
Bromobenzene	<1.0	
cis-1,3-Dichloropropene	<1.0	
trans-1,3-Dichloropropene	<1.0	

Monitored Cmpds	Result	Qualifier
1,2,4-Trimethylbenzene	<1.0	
1,2,3-Trichlorobenzene	<1.0	
n-Propylbenzene	<1.0	
n-Butylbenzene	<1.0	
Naphthalene	<1.0	
Hexachlorobutadiene	<1.0	
1,3,5-Trimethylbenzene	<1.0	
4-Isopropyltoluene	<1.0	
Isopropylbenzene	<1.0	
t-Butylbenzene	<1.0	
s-Butylbenzene	<1.0	
Trichlorofluoromethane	<2.0	
Dichlorodifluoromethane	<2.0	
Bromochloromethane	<1.0	
Other Compounds	**Result**	**Qualifier**
Acetone	<10	
Acrylonitrile	<10	
2-Butanone (MEK)	<10	
Carbon disulfide	<1.0	
Ethyl methacrylate	<1.0	
2-Hexanone	<1.0	
Iodomethane	<5.0	
Methyl methacrylate	<1.0	
4-Methyl-2-pentanone (MIBK)	<2.0	
Methyl-t-butyl ether (MTBE)	<0.5	
Tetrahydrofuran	<5.0	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹ meet all TNI (2016 Standard) requirements.

Authorized by Branch Manager TDUNN on 05/13/2024

TEXAS Health and Human Services

Texas Department of State Health Services

PUBLIC HEALTH LABORATORY DIVISION

Volatile Organic Compounds by GC/MS Analysis Report

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Austin, TX 78714-9347
envsciadmin@dshs.texas.gov
www.dshs.state.tx.us
512-776-7587

Submitter ID # (PWS ID #): 0200497

BRAZOSPORT WATER AUTHORITY
WOODRUFF, RONALD, E
1251 FM 2004 RD
LAKE JACKSON, TX 77566-4096

Date Reported: 03/14/2025
Report ID# : 20250314104558AG97386

Lab Sample ID# : AG97386
Sample Priority : NORMAL
TCEQ Sample ID: 2406776

Water Source :
Entry Point(s) : EP001

Date Collected : 08/28/2024 07:14
Date Received : 08/29/2024
Date Analyzed : 09/03/2024

Conc. Units : µg/L
Method : EPA 524.2
Analyst : JL
Sample Cond. : Acceptable

Regulated Cmpds.	Result	Qualifier
Benzene [1]	<0.5	
Carbon tetrachloride [1]	<0.5	
Monochlorobenzene [1]	<0.5	
o-Dichlorobenzene [1]	<0.5	
para-Dichlorobenzene [1]	<0.5	
1,2-Dichloroethane [1]	<0.5	
1,1-Dichloroethylene [1]	<0.5	
cis-1,2-Dichloroethylene [1]	<0.5	
trans-1,2-Dichloroethylene [1]	<0.5	
1,2-Dichloropropane [1]	<0.5	
Dichloromethane [1]	<0.5	
Ethylbenzene [1]	<0.5	
Styrene [1]	<0.5	
Tetrachloroethylene [1]	<0.5	
Toluene [1]	<0.5	
1,2,4-Trichlorobenzene [1]	<0.5	
1,1,1-Trichloroethane [1]	<0.5	
1,1,2-Trichloroethane [1]	<0.5	
Trichloroethylene [1]	<0.5	
Vinyl chloride [1]	<0.5	
Xylenes (total) [1]	<0.5	

Monitored Cmpds.	Result	Qualifier
Chloroform	**2.1**	
Bromodichloromethane	**3.3**	
Dibromochloromethane	**3.1**	
Bromoform	**2.2**	
Dibromomethane	<1.0	
1,3-Dichlorobenzene	<1.0	
1,1-Dichloropropene	<1.0	
1,1-Dichloroethane	<1.0	
1,1,2,2-Tetrachloroethane	<1.0	
1,3-Dichloropropane	<1.0	
Chloromethane	<2.0	
Bromomethane	<2.0	
1,2,3-Trichloropropane	<1.0	
1,1,1,2-Tetrachloroethane	<1.0	
Chloroethane	<2.0	
2,2-Dichloropropane	<1.0	
2-Chlorotoluene	<1.0	
4-Chlorotoluene	<1.0	
Bromobenzene	<1.0	
cis-1,3-Dichloropropene	<1.0	
trans-1,3-Dichloropropene	<1.0	

Monitored Cmpds	Result	Qualifier
1,2,4-Trimethylbenzene	<1.0	
1,2,3-Trichlorobenzene	<1.0	
n-Propylbenzene	<1.0	
n-Butylbenzene	<1.0	
Naphthalene	<1.0	
Hexachlorobutadiene	<1.0	
1,3,5-Trimethylbenzene	<1.0	
4-Isopropyltoluene	<1.0	
Isopropylbenzene	<1.0	
t-Butylbenzene	<1.0	
s-Butylbenzene	<1.0	
Trichlorofluoromethane	<2.0	
Dichlorodifluoromethane	<2.0	
Bromochloromethane	<1.0	

Other Compounds	Result	Qualifier
Acetone	<10	
Acrylonitrile	<10	
2-Butanone (MEK)	<10	
Carbon disulfide	<1.0	
Ethyl methacrylate	<1.0	
2-Hexanone	<1.0	
Iodomethane	<5.0	
Methyl methacrylate	<1.0	
4-Methyl-2-pentanone (MIBK)	<2.0	
Methyl-t-butyl ether (MTBE)	<0.5	
Tetrahydrofuran	<5.0	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted([1] meet all TNI (2016 Standard) requirements.

Authorized by Team Lead CJONES on 09/09/2024

TEXAS Health and Human Services

Texas Department of State Health Services

PUBLIC HEALTH LABORATORY DIVISION

Semivolatiles Organic Analysis Report

Lab Copy/Reprint

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Austin, TX 78756
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Austin, TX 78714-9347
envsciadmin@dshs.texas.gov
www.dshs.state.tx.us
512-776-7587

Submitter ID # (PWS ID #): 0200497

BRAZOSPORT WATER AUTHORITY
WOODRUFF, RONALD, E
1251 FM 2004 RD
LAKE JACKSON, TX 77566-4096

Date Reported: 03/14/2025
Report ID#: 20250314104558AG75352

Lab Sample ID#: AG75352
Sample Priority: NORMAL
TCEQ Sample ID: 2408782
Water Source:
Entry Point(s): EP001

Date Collected: 02/28/2024 09:37
Date Received: 02/29/2024
Date Analyzed: 03/25/2024
Extraction Date: 03/11/2024

Conc. Units: µg/L
Method: EPA 525.2
Analyst: KP
Sample Cond.: Acceptable

Regulated Compounds	Result	Qualifier
Alachlor [1]	<0.2	
Atrazine [1]	<0.1	
Benzo[a]pyrene [1]	<0.02	
alpha-Chlordane	<0.2	
gamma-Chlordane	<0.2	
trans-Nonachlor	<0.2	
Di(2-ethylhexyl) adipate [1]	<0.6	
Di(2-ethylhexyl) phthalate [1]	<0.6	
Heptachlor [1]	<0.04	
Hexachlorobenzene [1]	<0.1	
Hexachlorocyclopentadiene [1]	<0.1	*
Lindane [1]	<0.02	
Methoxychlor [1]	<0.1	
Simazine [1]	<0.07	

Monitored Compounds	Result	Qualifier
Acenaphthene	<0.20	
Acenaphthylene	<0.20	
Aldrin	<0.20	*
Anthracene	<0.20	
Benzo(a)anthracene	<0.20	
Benzo[b]fluoranthene	<0.20	
Benzo[g,h,i]perylene	<0.20	
Benzo[k]fluoranthene	<0.20	
Bromacil	<0.20	
Butachlor	<0.20	
Butylbenzylphthalate	<2.0	
2-Chlorobiphenyl	<0.20	
Chrysene	<0.20	
Dibenz[a,h]anthracene	<0.20	
Di-n-butylphthalate	<2.0	
2,3-Dichlorobiphenyl	<0.20	
Dieldrin	<0.20	
Diethylphthalate	<2.0	

Monitored Compounds continued	Result	Qualifier
Dimethylphthalate	<2.0	
Fluorene	<0.20	
2,2',3,3',4,4',6-Heptachlorobiphenyl	<0.50	
2,2',4,4',5,6'-Hexachlorobiphenyl	<0.20	
Indeno[1,2,3-cd]pyrene	<0.20	
Metolachlor	<0.20	
Metribuzin	<0.20	
Naphthalene	<0.20	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	<0.50	
2,2',3',4,6-Pentachlorobiphenyl	<0.20	
Phenanthrene	<0.20	
Propachlor	<0.20	
Pyrene	<0.20	
2,2',4,4'-Tetrachlorobiphenyl	<0.20	
2,4,5-Trichlorobiphenyl	<0.20	
Trifluralin	<0.20	

Comments:

* - This analyte has known instability and/or method performance issues and quantitation should be considered approximate.

The test results on this report relate only to the sample identified on this report. The test results for analytes noted([1] meet all TNI (2016 Standard) requirements.

Authorized by Team Lead JHE on 04/04/2024

TEXAS Health and Human Services

Texas Department of State Health Services

PUBLIC HEALTH LABORATORY DIVISION

Pesticides by Method 508.1 Analysis Report

Lab Copy/Reprint

Address: 1100 W 49th St
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Mail: PO Box 149347, MC-1947
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envsciadmin@dshs.texas.gov
www.dshs.state.tx.us
512-776-7587

Submitter ID # (PWS ID #): 0200497

BRAZOSPORT WATER AUTHORITY
WOODRUFF, RONALD, E
1251 FM 2004 RD
LAKE JACKSON, TX 77566-4096

Date Reported: 03/14/2025
Report ID# : 20250314104558AG75352

Lab Sample ID# : AG75352
Sample Priority : NORMAL
TCEQ Sample ID: 2408782

Water Source :
Entry Point(s) : EP001

Date Collected : 02/28/2024 09:37
Date Received : 02/29/2024
Date Analyzed : 03/26/2024

Conc. Units : ug/L
Method : 508.1 Rev. 2.0
Analyst : TS
Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
Chlordane [1]	<0.2	
Endrin [1]	<0.01	
Heptachlor epoxide [1]	<0.02	
Toxaphene [1]	<1.	

Screened Compounds	Result	Qualifier
Aroclor 1016 [2]	<0.08	
Aroclor 1221 [2]	<20.	
Aroclor 1232 [2]	<0.5	
Aroclor 1242 [2]	<0.3	
Aroclor 1248 [2]	<0.1	
Aroclor 1254 [2]	<0.1	
Aroclor 1260 [2]	<0.2	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted([1]) meet all TNI (2016 Standard) requirements. The test results for analytes noted([2]) meet all TNI (2016 Standard) requirements for Aroclor Identification. Aroclor quantitation i not accredited.

Authorized by Team Lead JHE on 04/04/2024

TEXAS
Health and Human Services

Texas Department of State Health Services

PUBLIC HEALTH LABORATORY DIVISION

Herbicides in Drinking Water Analysis Report

Lab Copy/Reprint

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512-776-7587

Submitter ID # (PWS ID #): 0200497

BRAZOSPORT WATER AUTHORITY
WOODRUFF, RONALD, E
1251 FM 2004 RD
LAKE JACKSON, TX 77566-4096

Date Reported: 03/14/2025
Report ID# : 20250314104558AG82379

Lab Sample ID# : AG82379
Sample Priority : NORMAL
TCEQ Sample ID: 2422553

Water Source :
Entry Point(s) : EP001

Date Collected : 04/23/2024 08:13
Date Received : 04/24/2024
Date Analyzed : 05/15/2024
Extraction Date : 05/02/2024

Conc. Units : µg/L
Method : 515.4 Rev. 1.0
Analyst : BF
Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
2,4-D [1]	<0.1	
2,4,5-TP (Silvex) [1]	<0.2	
Pentachlorophenol [1]	<0.04	
Dalapon [1]	<1	
Dinoseb [1]	<0.2	
Picloram [1]	<0.1	

Non Regulated Compounds	Result	Qualifier
Acifluorfen	<1.0	
Bentazon	<2.0	
Chloramben	<1.0	
2,4-DB	<2.0	
Dicamba	<1.0	
3,5-Dichlorobenzoic acid	<1.0	
Dichlorprop	<2.0	
Quinclorac	<1.0	
2,4,5-T	<0.5	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted([1] meet all TNI (2016 Standard) requirements.

Authorized by Group Manager AVINYARD on 06/03/2024

TEXAS Health and Human Services

Texas Department of State Health Services

PUBLIC HEALTH LABORATORY DIVISION

Herbicides in Drinking Water Analysis Report

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512-776-7587

Submitter ID # (PWS ID #): 0200497

BRAZOSPORT WATER AUTHORITY
WOODRUFF, RONALD, E
1251 FM 2004 RD
LAKE JACKSON, TX 77566-4096

Date Reported: 03/14/2025
Report ID# : 20250314104558AG75339

Lab Sample ID# : AG75339
Sample Priority : NORMAL
TCEQ Sample ID: 2423004

Water Source :
Entry Point(s) : EP001

Date Collected : 02/28/2024 09:38
Date Received : 02/29/2024
Date Analyzed : 03/13/2024
Extraction Date : 03/06/2024

Conc. Units : µg/L
Method : 515.4 Rev. 1.0
Analyst : RM
Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
2,4-D [1]	<0.1	
2,4,5-TP (Silvex) [1]	<0.2	
Pentachlorophenol [1]	<0.04	
Dalapon [1]	<1	
Dinoseb [1]	<0.2	
Picloram [1]	<0.1	

Non Regulated Compounds	Result	Qualifier
Acifluorfen	<1.0	
Bentazon	<2.0	
Chloramben	<1.0	
2,4-DB	<2.0	
Dicamba	<1.0	
3,5-Dichlorobenzoic acid	<1.0	
Dichlorprop	<2.0	
Quinclorac	<1.0	
2,4,5-T	<0.5	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted([1] meet all TNI (2016 Standard) requirements.

Authorized by Group Manager AVINYARD on 03/25/2024

TEXAS Health and Human Services

Texas Department of State Health Services

PUBLIC HEALTH LABORATORY DIVISION

*ALL METALS
Analysis Report

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BRAZOSPORT WATER AUTHORITY
WOODRUFF, RONALD, E
1251 FM 2004 RD
LAKE JACKSON, TX 77566-4096

Date Reported: 03/14/2025
Report ID# : 20250314104558AG75165

Lab Sample ID# : AG75165
Sample Priority : NORMAL
TCEQ Sample ID: 2415197
Water Source :
Entry Point(s) : EP001
Date Collected : 02/28/2024 09:38
Date Received : 02/29/2024

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Acidification	Completed		EPA 200.2	02/29/2024	TH
pH Check	Completed		EPA 200.2	03/01/2024	TH
Turbidity Screen	Completed		SM 2130B	03/01/2024	TH
Visible Particles	Completed			03/01/2024	TH
Total Hardness as CaCO3 by Calculation	**159**	mg/L	SM 2340B	03/05/2024	TH
Aluminum [1]	**0.0395**	mg/L	EPA 200.8	03/07/2024	KL
Antimony [1]	< 0.0010	mg/L	EPA 200.8	03/07/2024	KL
Arsenic [1]	< 0.0020	mg/L	EPA 200.8	03/07/2024	KL
Barium [1]	**0.0983**	mg/L	EPA 200.8	03/07/2024	KL
Beryllium [1]	< 0.00080	mg/L	EPA 200.8	03/07/2024	KL
Cadmium [1]	< 0.0010	mg/L	EPA 200.8	03/07/2024	KL
Calcium	**47.4**	mg/L	EPA 200.7	03/05/2024	TH
Chromium [1]	< 0.0100	mg/L	EPA 200.8	03/07/2024	KL
Copper [1]	**0.0042**	mg/L	EPA 200.8	03/07/2024	KL
Iron [1]	**0.061**	mg/L	EPA 200.7	03/05/2024	TH
Lead [1]	< 0.0010	mg/L	EPA 200.8	03/07/2024	KL
Magnesium [1]	**9.94**	mg/L	EPA 200.7	03/05/2024	TH
Manganese [1]	**0.0054**	mg/L	EPA 200.8	03/07/2024	KL
Mercury [1]	< 0.00040	mg/L	EPA 245.1	03/12/2024	DP
Nickel [1]	**0.0023**	mg/L	EPA 200.8	03/07/2024	KL
Potassium [1]	**5.18**	mg/L	EPA 200.7	03/05/2024	TH
Selenium [1]	< 0.0030	mg/L	EPA 200.8	03/07/2024	KL
Silver [1]	< 0.0100	mg/L	EPA 200.8	03/07/2024	KL
Sodium [1]	**62.9**	mg/L	EPA 200.7	03/05/2024	TH
Thallium [1]	< 0.00040	mg/L	EPA 200.8	03/07/2024	KL
Zinc [1]	< 0.0050	mg/L	EPA 200.8	03/07/2024	KL

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2016 Standard) requirements.

Authorized by Group Manager HNGO on 03/26/2024

TEXAS Health and Human Services

Texas Department of State Health Services

PUBLIC HEALTH LABORATORY DIVISION

***ALL MINERALS**
Analysis Report

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Submitter ID # (PWS ID #): 0200497

BRAZOSPORT WATER AUTHORITY
WOODRUFF, RONALD, E
1251 FM 2004 RD
LAKE JACKSON, TX 77566-4096

Date Reported: 03/14/2025
Report ID# : 20250314104556AG75128

Lab Sample ID# : AG75128
Sample Priority : NORMAL
TCEQ Sample ID: 2417949

Water Source :
Entry Point(s) : EP001

Date Collected : 02/28/2024 09:38
Date Received : 02/29/2024

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Field pH Result	8.2	pH			
Conductance @ 25.0 °C [1]	**660**	µmho/cm	SM 2510 B	03/04/2024 14:02	DB
Phenolphthalein Alkalinity as CaCO3	<10	mg/L	SM 2320B	03/04/2024 09:07	ME
Total Alkalinity as CaCO3	**121**	mg/L	SM 2320B	03/04/2024 09:07	ME
Bicarbonate	**148**	mg/L	SM 2320B	03/04/2024 09:07	ME
Carbonate	<10	mg/L	SM 2320B	03/04/2024 09:07	ME
Fluoride [1]	**0.17**	mg/L	EPA 300.0	02/29/2024 18:51	NP
Chloride [1]	**80**	mg/L	EPA 300.0	03/01/2024 16:27	NP
Sulfate [1]	**79**	mg/L	EPA 300.0	03/01/2024 16:27	NP
Total Dissolved Solids [1]	**384**	mg/L	SM 2540C	02/29/2024 12:20	DB
Nitrate as N [1]	**0.21**	mg/L	EPA 353.2	02/29/2024 14:31	AD

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2016 Standard) requirements.

Authorized by Team Lead NPATEL on 03/11/2024

TEXAS Health and Human Services

Texas Department of State Health Services

PUBLIC HEALTH LABORATORY DIVISION

***SINGLE MINERAL**
Analysis Report

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512-776-7587

Submitter ID # (PWS ID #): 0200497

BRAZOSPORT WATER AUTHORITY
WOODRUFF, RONALD, E
1251 FM 2004 RD
LAKE JACKSON, TX 77566-4096

Date Reported: 03/14/2025
Report ID# : 20250314104558AG75144

Lab Sample ID# : AG75144
Sample Priority : NORMAL
TCEQ Sample ID: 2427291

Water Source :
Entry Point(s) : EP001

Date Collected : 02/28/2024 09:39
Date Received : 02/29/2024

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Total Cyanide [1]	**0.02**	mg/L	10-204-00-1-X	03/06/2024 12:52	ME

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2016 Standard) requirements.

Authorized by Team Lead NPATEL on 03/11/2024

TEXAS Health and Human Services

Texas Department of State Health Services

PUBLIC HEALTH LABORATORY DIVISION

Trihalomethanes by GC/MS Analysis Report

Lab Copy/Reprint

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Submitter ID # (PWS ID #): 0200497

BRAZOSPORT WATER AUTHORITY
WOODRUFF, RONALD, E
1251 FM 2004 RD
LAKE JACKSON, TX 77566-4096

Date Reported: 03/14/2025
Report ID# : 20250314104558AG97331

Lab Sample ID# : AG97331
Sample Priority : NORMAL
TCEQ Sample ID: 2449948

Water Source :
Entry Point(s) : DBP2-01

Date Collected : 08/28/2024 07:35
Date Received : 08/29/2024
Date Analyzed : 08/30/2024

Conc. Units : µg/L
Method : EPA 524.2
Analyst : AK
Sample Cond. : Acceptable

Trihalomethanes	Result	Qualifier
Chloroform	**2.1**	
Bromodichloromethane	**2.9**	
Dibromochloromethane	**2.2**	
Bromoform	<1.0	
Total Trihalomethanes [1]	**7.2**	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted([1] meet all TNI (2016 Standard) requirements.

Authorized by Chemist IV BFLAMMANG on 09/17/2024

TEXAS Health and Human Services

Texas Department of State Health Services

PUBLIC HEALTH LABORATORY DIVISION

EPA 552.2 Haloacetic Acids Analysis Report

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512-776-7587

Submitter ID # (PWS ID #): 0200497

BRAZOSPORT WATER AUTHORITY
WOODRUFF, RONALD, E
1251 FM 2004 RD
LAKE JACKSON, TX 77566-4096

Date Reported: 03/14/2025
Report ID# : 20250314104558AG97331

Lab Sample ID# : AG97331
Sample Priority : NORMAL
TCEQ Sample ID: 2449948

Water Source :
Entry Point(s) : DBP2-01

Date Collected : 08/28/2024 07:35
Date Received : 08/29/2024
Date Analyzed : 09/10/2024
Extraction Date : 09/05/2024

Conc. Units : µg/L
Method : 552.2 Rev 1.0
Analyst : TS
Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
Monochloroacetic acid	<2.0	
Dichloroacetic acid	**3.0**	
Trichloroacetic acid	<1.0	
Monobromoacetic acid	<1.0	
Dibromoacetic acid	**3.4**	
Total HAA5 [1]	**6.4**	

Monitored Compounds	Result	Qualifier
Bromochloroacetic acid	**3.4**	
Dalapon	<1.0	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted([1] meet all TNI (2016 Standard) requirements.

Authorized by Chemist IV BFLAMMANG on 09/17/2024

Lead and Copper Service Line Inventory

Due to a recent revision to the Environmental Protection Agency's Lead and Copper Rule, all public water systems were required to develop an inventory of water service line material. This inventory was developed to determine if the City of Richwood had any identifiable lead service lines or fittings currently in service within the water distribution system. The overall goal of identification of water services containing lead is to rid the water distribution system of all lead fittings and/or service line material containing lead. Richwood's Service Line Inventory is a fluid document and is updated as the city adds new water services or replaces existing water services. Richwood Service Line Inventory can be viewed using the following link:

https://richwoodtx.gov/download/164/service-line-inventory/3632/sli-initial-template_tx0200035-form-20943.pdf

Note:

Past analysis of water from Richwood's water distribution system has resulted in no samples with lead concentrations that qualify as "Action Level" or even "Maximum Containment Level". For further information regarding Lead and Copper sampling or Richwood's current Service Line Inventory, please contact:

Clifton Custer
Director of Public Works
City of Richwood
Office: (979)265-2082