

MISSISSIPPI STATE DEPARTMENT OF HEALTH
BUREAU OF PUBLIC WATER SUPPLY
CCR CERTIFICATION
CALENDAR YEAR 2013

2014 JUN 19 AM 10:28

HOUSTON ESTATES UTILITY
Public Water Supply Name

0300162
List PWS ID #s for all Community Water Systems included in this CCR

The Federal Safe Drinking Water Act (SDWA) requires each Community public water system to develop and distribute a Consumer Confidence Report (CCR) to its customers each year. Depending on the population served by the public water system, this CCR must be mailed or delivered to the customers, published in a newspaper of local circulation, or provided to the customers upon request. Make sure you follow the proper procedures when distributing the CCR. **You must mail, fax or email a copy of the CCR and Certification to MSDH. Please check all boxes that apply.**

Customers were informed of availability of CCR by: *(Attach copy of publication, water bill or other)*

- Advertisement in local paper (attach copy of advertisement)
- On water bills (attach copy of bill)
- Email message (MUST Email the message to the address below)
- Other _____

Date(s) customers were informed: 06/20/14

CCR was distributed by U.S. Postal Service or other direct delivery. Must specify other direct delivery methods used U.S. Postal Service

Date Mailed/Distributed: 06/20/14

CCR was distributed by Email (MUST Email MSDH a copy) Date Emailed: ___/___/___
As a URL (Provide URL _____)
As an attachment
As text within the body of the email message

CCR was published in local newspaper. *(Attach copy of published CCR or proof of publication)*

Name of Newspaper: _____

Date Published: ___/___/___

CCR was posted in public places. *(Attach list of locations)* Date Posted: ___/___/___

CCR was posted on a publicly accessible internet site at the following address (**DIRECT URL REQUIRED**):

CERTIFICATION

I hereby certify that the 2013 Consumer Confidence Report (CCR) has been distributed to the customers of this public water system in the form and manner identified above and that I used distribution methods allowed by the SDWA. I further certify that the information included in this CCR is true and correct and is consistent with the water quality monitoring data provided to the public water system officials by the Mississippi State Department of Health, Bureau of Public Water Supply.

Jeannie Reeves
Name/Title (President, Mayor, Owner, etc.)

6-11-2014
Date

Deliver or send via U.S. Postal Service:
Bureau of Public Water Supply
P.O. Box 1700
Jackson, MS 39215

May be faxed to:
(601)576-7800

May be emailed to:
Melanie.Yanklowski@msdh.state.ms.us

2013 Drinking Water Quality Report

Houston Estates Utility PWS 0300162

Is my water safe?

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed customers are our best allies.

Do I need to take special precautions?

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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

Where does my water come from?

Our water comes from the Graham Ferry Aquifer.

Source water assessment and its availability

The source water assessment ranks our water supply as moderate for susceptibility to contamination. This report is available at the office.

Why are there contaminants in my drinking water?

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 Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791).

How can I get involved?

If you have any questions concerning your water supply, please contact Jeanne Reeves at 228.497.3627.

Description of Water Treatment Process

Your water is treated by disinfection. Disinfection involves the addition of chlorine or other disinfectant to kill dangerous bacteria and microorganisms that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

Monitoring and reporting of compliance data violations

During a sanitary survey conducted on 10/1/2012, the Mississippi State Department of Health cited the following significant deficiency(s):

LACK OF REDUNDANT MECHANICAL COMPONENTS WHERE TREATMENT IS REQUIRED
 IMPROPERLY CONSTRUCTED WELL (NOT PROPERLY GROUTED)

Corrective Action: MSDH is currently working with this system to return them to compliance since the expiration of the compliance deadline. It is anticipated we will be returned to compliance by December 31, 2014.

Additional Information for Lead

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. Houston Estates Utility 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>.

Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

| Contaminants | MCLG or MRDLG | MCL, TT, or MRDL | Your Water | Range | | Sample Date | Violation | Typical Source |
|-------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|---------------|-------|------|----------------|-----------|-------------------------------------------|
| | | | | Low | High | | | |
| Disinfectants & Disinfectant By-Products | | | | | | | | |
| (There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants) | | | | | | | | |
| Haloacetic Acids (HAA5) (ppb) | NA | 60 | 27 | NA | | 2013 | No | By-product of drinking water chlorination |
| Chlorine (as Cl ₂) (ppm) | 4 | 4 | 1 | 0.7 | 1.2 | 2013 | No | Water additive used to control microbes |
| TTHMs [Total Trihalomethanes] (ppb) | NA | 80 | 35.6 | NA | | 2013 | No | By-product of drinking water disinfection |
| Inorganic Contaminants | | | | | | | | |

| | | | | | | | | |
|----------------------------------------------|-------------|-----------|-------------------|--------------------|-------------------------------|-------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Barium (ppm) | 2 | 2 | 0.129 | NA | | 2009 | No | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |
| Fluoride (ppm) | 4 | 4 | 0.641 | NA | | 2009 | No | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Nitrate [measured as Nitrogen] (ppm) | 10 | 10 | 0.08 | NA | | 2013 | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Nitrite [measured as Nitrogen] (ppm) | 1 | 1 | 0.02 | NA | | 2013 | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Antimony (ppb) | 6 | 6 | 0.5 | NA | | 2009 | No | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; test addition. |
| Arsenic (ppb) | 0 | 10 | 0.5 | NA | | 2009 | No | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes |
| Beryllium (ppb) | 4 | 4 | 0.1 | NA | | 2009 | No | Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries |
| Cadmium (ppb) | 5 | 5 | 0.1 | NA | | 2009 | No | Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; runoff from waste batteries and paints |
| Chromium (ppb) | 100 | 100 | 0.95 | NA | | 2009 | No | Discharge from steel and pulp mills; Erosion of natural deposits |
| Cyanide [as Free Cn] (ppb) | 200 | 200 | 15 | NA | | 2009 | No | Discharge from plastic and fertilizer factories; Discharge from steel/metal factories |
| Mercury [Inorganic] (ppb) | 2 | 2 | 0.2 | NA | | 2009 | No | Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland |
| Selenium (ppb) | 50 | 50 | 2.5 | NA | | 2009 | No | Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines |
| Thallium (ppb) | 0.5 | 2 | 0.5 | NA | | 2009 | No | Discharge from electronics, glass, and Leaching from ore-processing sites; drug factories |
| Radioactive Contaminants | | | | | | | | |
| Alpha emitters (pCi/L) | 0 | 15 | 1.8 | 1.3 | 1.8 | 2012 | No | Erosion of natural deposits |
| Uranium (ug/L) | 0 | 30 | 0.169 | 0.161 | 0.169 | 2011 | No | Erosion of natural deposits |
| Contaminants | MCLG | AL | Your Water | Sample Date | # Samples Exceeding AL | Exceeds AL | Typical Source | |
| Inorganic Contaminants | | | | | | | | |
| Copper - action level at consumer taps (ppm) | 1.3 | 1.3 | 0.5 | 2012 | 0 | No | Corrosion of household plumbing systems; Erosion of natural deposits | |
| Lead - action level at consumer taps (ppb) | 0 | 15 | 0 | 2012 | 0 | No | Corrosion of household plumbing systems; Erosion of natural deposits | |

Undetected Contaminants

The following contaminants were monitored for, but not detected, in your water.

| <u>Contaminants</u> | <u>MCLG</u> or <u>MRDLG</u> | <u>MCL</u> or <u>MRDL</u> | <u>Your</u> <u>Water</u> | <u>Violation</u> | <u>Typical Source</u> |
|-----------------------------------|-----------------------------------|---------------------------------|-----------------------------|------------------|-----------------------------|
| Radium (combined 226/228) (pCi/L) | 0 | 5 | ND | No | Erosion of natural deposits |

| Unit Descriptions | |
|--------------------------|----------------------------------------------------------------|
| Term | Definition |
| ug/L | ug/L : Number of micrograms of substance in one liter of water |
| ppm | ppm: parts per million, or milligrams per liter (mg/L) |
| ppb | ppb: parts per billion, or micrograms per liter (µg/L) |
| pCi/L | pCi/L: picocuries per liter (a measure of radioactivity) |
| NA | NA: not applicable |
| ND | ND: Not detected |
| NR | NR: Monitoring not required, but recommended. |

| TT Violation | Explanation | Duration of violation | Corrective Actions | *Health Effects Language |
|-------------------|---------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ground Water Rule | Failure to Take Corrective Actions within Required Time Frame | 9/13/2013-Present | The system has entered into a bilateral compliance agreement and/or corrected the deficiency. | Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. |

| Important Drinking Water Definitions | |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Term | Definition |
| MCLG | MCLG: Maximum Contaminant Level Goal: 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. |
| MCL | MCL: Maximum Contaminant Level: 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. |
| TT | TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water. |
| AL | AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. |

| | |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Variances and Exemptions | Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions. |
| MRDLG | MRDLG: Maximum residual disinfection level goal. 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. |
| MRDL | MRDL: Maximum residual disinfectant level. 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. |
| MNR | MNR: Monitored Not Regulated |
| MPL | MPL: State Assigned Maximum Permissible Level |

For more information please contact:

Contact Name: Jeanne Reeves
Address:
MS
Phone: 228.497.3627

2013 Drinking Water Quality Report

Houston Estates Utility PWS 0300162

HOUSTON WATER SUPPLY
2014 JUN 19 AM 10: 28

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Monitoring and reporting of compliance data violations

During a sanitary survey conducted on 10/1/2012, the Mississippi State Department of Health cited the following significant deficiency(s):

During 2013, we received a violation for failure to report corrective actions related to a significant deficiency. The significant deficiency has been corrected and resolved and no further action is required.

Corrective Action: MSDH is currently working with this system to return them to compliance since the expiration of the compliance deadline. It is anticipated we will be returned to compliance by December 31, 2014.

Additional Information for Lead

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. Houston Estates Utility 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>.

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| <u>Contaminants</u> | <u>MCLG</u> or <u>MRDLG</u> | <u>MCL,</u> <u>TT, or</u> <u>MRDL</u> | <u>Your</u> <u>Water</u> | <u>Range</u> <u>Low</u> <u>High</u> | <u>Sample</u> <u>Date</u> | <u>Violation</u> | <u>Typical Source</u> |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------|-----------------------------|----------------------------------------|------------------------------|------------------|-------------------------------------------|
| Disinfectants & Disinfectant By-Products | | | | | | | |
| (There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants) | | | | | | | |
| Haloacetic Acids (HAA5) (ppb) | NA | 60 | 39 | NA | 2011 | No | By-product of drinking water chlorination |
| Chlorine (as Cl2) (ppm) | 4 | 4 | 1 | 0.7 1.2 | 2013 | No | Water additive used to control microbes |
| TTHMs [Total Trihalomethanes] (ppb) | NA | 80 | 41 | NA | 2011 | No | By-product of drinking water disinfection |
| Inorganic Contaminants | | | | | | | |

| | | | | | | | | |
|--------------------------------------|-----|-----|-------|----|--|------|----|-------------------------------------------------------------------------------------------------------------------------------------|
| Barium (ppm) | 2 | 2 | 0.129 | NA | | 2009 | No | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |
| Fluoride (ppm) | 4 | 4 | 0.641 | NA | | 2009 | No | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Nitrate [measured as Nitrogen] (ppm) | 10 | 10 | 0.08 | NA | | 2013 | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Nitrite [measured as Nitrogen] (ppm) | 1 | 1 | 0.02 | NA | | 2013 | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Antimony (ppb) | 6 | 6 | 0.5 | NA | | 2009 | No | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; test addition. |
| Arsenic (ppb) | 0 | 10 | 0.5 | NA | | 2009 | No | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes |
| Beryllium (ppb) | 4 | 4 | 0.1 | NA | | 2009 | No | Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries |
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| Mercury [Inorganic] (ppb) | 2 | 2 | 0.2 | NA | | 2009 | No | Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland |
| Selenium (ppb) | 50 | 50 | 2.5 | NA | | 2009 | No | Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines |
| Thallium (ppb) | 0.5 | 2 | 0.5 | NA | | 2009 | No | Discharge from electronics, glass, and Leaching from ore-processing sites; drug factories |

Radioactive Contaminants

| | | | | | | | | |
|------------------------|---|----|-------|-------|-------|------|----|-----------------------------|
| Alpha emitters (pCi/L) | 0 | 15 | 1.8 | 1.3 | 1.8 | 2012 | No | Erosion of natural deposits |
| Uranium (ug/L) | 0 | 30 | 0.169 | 0.161 | 0.169 | 2011 | No | Erosion of natural deposits |

| <u>Contaminants</u> | <u>MCLG</u> | <u>AL</u> | <u>Your Water</u> | <u>Sample Date</u> | <u># Samples Exceeding AL</u> | <u>Exceeds AL</u> | <u>Typical Source</u> |
|---------------------|-------------|-----------|-------------------|--------------------|-------------------------------|-------------------|-----------------------|
|---------------------|-------------|-----------|-------------------|--------------------|-------------------------------|-------------------|-----------------------|

Inorganic Contaminants

| | | | | | | | |
|----------------------------------------------|-----|-----|-----|------|---|----|----------------------------------------------------------------------|
| Copper - action level at consumer taps (ppm) | 1.3 | 1.3 | 0.5 | 2012 | 0 | No | Corrosion of household plumbing systems; Erosion of natural deposits |
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| Unit Descriptions | |
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| NA | NA: not applicable |
| ND | ND: Not detected |
| NR | NR: Monitoring not required, but recommended. |

| TT Violation | Explanation | Duration of violation | Corrective Actions | *Health Effects Language |
|---------------------|---------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| AL | AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. |

| | |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Variations and Exemptions | Variations and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions. |
| MRDLG | MRDLG: Maximum residual disinfection level goal. 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. |
| MRDL | MRDL: Maximum residual disinfectant level. 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. |
| MNR | MNR: Monitored Not Regulated |
| MPL | MPL: State Assigned Maximum Permissible Level |

For more information please contact:

Contact Name: Jeanne Reeves
Address:
MS
Phone: 228.497.3627