

2017 JUN 16 AM 8:34

# CERTIFICATION

Consumer Confidence Report (CCR)

City of Horn Lake

Public Water Supply Name

170022

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: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ , \_\_\_\_ / \_\_\_\_ / \_\_\_\_ , \_\_\_\_ / \_\_\_\_ / \_\_\_\_

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

Date Mailed/Distributed: 6/12/2017

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 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

*James Shields*, Director of Operations

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

6/13/17

Date

### Submission options (Select one method ONLY)

**Mail:** (U.S. Postal Service)  
MSDH, Bureau of Public Water Supply  
P.O. Box 1700  
Jackson, MS 39215

**Fax:** (601) 576 - 7800

**Email:** [water.reports@msdh.ms.gov](mailto:water.reports@msdh.ms.gov)

**CCR Deadline to MSDH & Customers by July 1, 2017!**

PS Form 3602-R - USPS Marketing Mail - Permit Imprint

Horn Lake  
Twin Lakes Final

Postage Summary

<b>Account Holder:</b>	NEEL-SCHAFFER 5740 GETWELL RD BLDG 2 SOUTHAVEN, MS 38672 -7361  Contact: JANA LUNSFORD (662) 890 - 6404	<b>Mailing Agent:</b>	MEMPHIS DIRECT MAIL 4222 PILOT DR MEMPHIS, TN 38118 -6932	<b>Mail Owner:</b>	HORN LAKE UTILITY AND SANITATION DEPARTMENT 3101 GOODMAN RD W HORN LAKE, MS 38637 -1173																
<b>Account Number:</b>	1399710																				
<b>Permit:</b>	Permit Imprint 380			<b>Processing Category:</b>	Letters																
	CRID: 6926094		CRID: 2445259		CRID: 6254679																
<b>Statement FS Fee Waiver %:</b>	99.64%																				
<b>Post Office Of Mailing:</b>	MEMPHIS TN 38101-9651	<b>Mailer's Mailing Date:</b>	06/05/2017																		
<b>Post Office of Permit:</b>	MEMPHIS TN 38101-9651																				
<b>Mailer Declared Weight of Single Piece:</b>	0.0219 lbs.	<b>Mailer Declared Total Pieces:</b>	5,316 pcs.	<b>Mailer Declared Total Weight:</b>	116.4204 lbs.																
<b>USPS Determined Weight of Single Piece:</b>	0.0219 lbs.	<b>USPS Determined Total Pieces:</b>	5,316 pcs.	<b>USPS Determined Total Weight:</b>	116.4204 lbs.																
				<b>Total Postage:</b>	\$ 1,149.10																
<b>Sequencing Date:</b>		<b>Address Matching Date - Automation:</b>	06/05/2017	<b>Address Matching Date - Carrier Route:</b>	06/05/2017																
<b>No of Containers:</b>	<table border="1"> <tr> <td>1' MM Trays</td> <td>2' MM Trays</td> <td>2' EMM Trays</td> <td>Flat Trays</td> <td>Sacks</td> <td>Pallets</td> <td>Other</td> </tr> <tr> <td>3</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							1' MM Trays	2' MM Trays	2' EMM Trays	Flat Trays	Sacks	Pallets	Other	3	6					
1' MM Trays	2' MM Trays	2' EMM Trays	Flat Trays	Sacks	Pallets	Other															
3	6																				
<b>Customer Reference ID:</b>	66385-106383																				
<b>Move Update Method:</b>	NCOALink	<b>NSA:</b>	NO																		
<b>Political Mail:</b>	NO		<b>Official Election Mail:</b> NO																		
<b>Mailpiece is a product sample:</b>	NO		<b>Mailpieces contain a DVD/CD or other Disk:</b> NO																		
<b>Incentive/Discount Claimed:</b>	NO		<b>AB Testing Claimed:</b> NO																		
			<b>Type of Fee:</b> N/A																		
<b>Mail Arrival Date and Time:</b>	06/12/2017 16:19		<b>Payment Date and Time:</b> 06/12/2017 16:19																		
<b>Comments:</b>																					
<b>Container Grouping ID:</b>																					
<b>Copal Mailing Type:</b>																					
<b>SSF TID Number:</b>																					

Part A: Automation Letters

Line Number	Entry Discount	Title	Description	Price	Quantity	Subtotal Postage	FS Discount	Discount Total*	Fee Total	Postage
A3	NONE	Mixed AADC	Letters 3.5 oz (0.2188 lbs) or less	0.288	2pcs.	\$ 0.5760	\$ 0.0020	\$ -0.0020	\$ 0.0000	\$ 0.5740
A7	DSCF	5-Digit	Letters 3.5 oz (0.2188 lbs) or less	0.217	5292pcs.	\$ 1,148.3640	\$ 5.2920	\$ -5.2920	\$ 0.0000	\$ 1,143.0720
A8	DSCF	AADC	Letters 3.5 oz (0.2188 lbs) or less	0.237	3pcs.	\$ 0.7110	\$ 0.0030	\$ -0.0030	\$ 0.0000	\$ 0.7080
A9						Part A Total (Add lines A1-A8)				\$ 1,144.3540
A10		DISPLAY ONLY Letters - Number of Pieces that Comply	Full Service Intelligent Mail Option	0.001	5297pcs.					

Part B: Nonautomation Letters

Line Number	Entry Discount	Title	Description	Price	Quantity	Subtotal Postage	FS Discount	Discount Total	Fee Total	Postage
B5	DSCF	AADC	Machinable Letters 3.5 oz (0.2188 lbs) or less	0.250	19pcs.	\$ 4.7500	\$ 0.0000	\$ 0.0000	\$ 0.0000	\$ 4.7500
B28						Part B Total (Add lines B1-B27)				\$ 4.7500

Total Full Service Discount From All Parts \$ -5.2970

	<b>Total Postage From All Parts</b>	\$ 1,149.1040
For Extra Services and Other Fees	Total From Attached Form 3540-S	N/A
	<b>Total Postage</b>	<b>\$ 1,149.10</b>
	Total Incentive/Discount Claimed \$ - 5.2970	

\* May contain both Full Service Intelligent Mail and other discount - see Instructions page for additional information.

USPS Use Only			
Perform Verification:	Verification data not available at this time.		
<b>One Pass/Two Pass Verification</b>			
Received:	Error Percentage:	Additional Postage:	\$ 0.00
A/R/C:	Cost Avoidance:	Verifying Employee's Name:	
Total Additional Postage:	\$ 0.00	Number of Reworked Pieces:	

This mailing has been inspected concerning:  
 (1) eligibility for postage prices claimed;  
 (2) proper preparation (*and presort where required*);  
 (3) proper completion of postage statement; and  
 (4) payment of annual fee (*if required*).

**This postage statement was verified and accepted under the PostalOne! program. No postal signature or round stamp is required.**

## 2016 Annual Water Quality Report

### City of Horn Lake

#### PWS# 170022

We are pleased to present to you this year's Annual Water Quality Report. We want to keep you informed about the quality water and services we deliver to you everyday. Our goal is to provide you with a safe and dependable supply of drinking water.

### Horn Lake Consumer Confidence Report

**Is my water safe?**  
Last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and state drinking water health standards. The City of Horn Lake vigilantly safeguards the water supplies and once again we are proud to report that our system has not violated a maximum contaminant level or any other water quality standard.

**Where does my water come from?**  
In 2016 our water department distributed 379,360,200 gallons of water to our customers. Our water is groundwater pumped from a natural underground aquifer, the Sparta Aquifer. The water is drawn by wells.

**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).

**Source water assessment and its availability**  
Source Water Assessment Program was conducted by the Department of Environmental Quality under contract from the Mississippi Department of Health. The results of the report are available at: <http://landandwater.deq.ms.gov/swa/repors/lecorr.asp?Id=0170022>

The susceptibility assessment ranking for each well is:

- PWS ID: 170022, Source ID: 1, Susceptibility: Moderate
- PWS ID: 170022, Source ID: 2, Susceptibility: Moderate
- PWS ID: 170022, Source ID: 3, Susceptibility: Moderate
- PWS ID: 170022, Source ID: 4, Susceptibility: Moderate

**Conservation Tips**

- Repair household leaks.
- Use water saving shower heads, faucets, toilets and appliances.
- Wash only full loads of clothes or dishes.

**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. The City of Horn Lake 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 Mississippi State Department of Health Public Health Laboratory offers lead testing for \$10 per sample. Please contact 601.576.7582 if you wish to have your water tested.

**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). 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. Microbial contaminants, such as viruses and bacteria that 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. In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

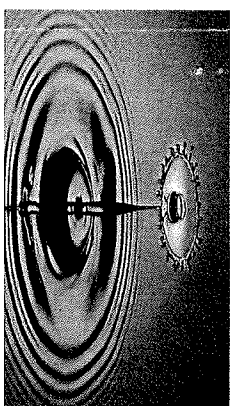
**Contact Us**

If you have any questions about this report or concerning your water utility, please contact Spencer Shields, the Director of Operations, at 662-342-7099, or by writing to the following address: City of Horn Lake in c/o of Utility and Sanitation Department, 3101 Goodman Road West, Horn Lake, MS 38637. If you want to learn more, please attend any of our regularly scheduled meetings on the 1st and 3rd Tuesdays of each month, at 6:00 P.M., in City Hall at 3101 Goodman Road West.

### Water Quality Data Table

The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. 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 change frequently.

Contaminant	MCLG	MCL	Year	Range		Sample Date	Violation	Typical Source
	or MRDLG	TT, or MRDL		Low	High			
<b>Inorganic Contaminants</b>								
Cyanide [as Free Cl] (ppb)	200	200	< 15	< 15	< 15	2014	No	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Antimony (ppb)	6	6	< 0.50	< 0.50	< 0.50	2015	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; test addition.
Arsenic (ppb)	0	10	< 0.50	< 0.50	< 0.50	2015	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium (ppm)	2	2	0.018	0.018	0.018	2015	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Beryllium (ppb)	4	4	< 0.5	< 0.5	< 0.5	2015	No	Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries.
Cadmium (ppb)	5	5	< 0.5	< 0.5	< 0.5	2015	No	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; runoff from waste batteries and paints.
Chromium (ppb)	100	100	< 0.8	< 0.8	< 0.8	2015	No	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride (ppm)	4	4	< 0.1	< 0.1	< 0.1	2015	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Mercury [Inorganic] (ppb)	2	2	< 0.5	< 0.5	< 0.5	2015	No	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland.
Selenium (ppb)	50	50	< 2.5	< 2.5	< 2.5	2015	No	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Thallium (ppb)	2	2	< 0.5	< 0.5	< 0.5	2015	No	Discharge from electronics, glass, and leaching from ore-processing sites; drug factories.
Nitrate [measured as Nitrogen] (ppm)	10	10	0.43	0.43	0.43	2016	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite [measured as Nitrogen] (ppm)	1	1	< 0.02	< 0.02	< 0.02	2016	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Copper (ppm)	1.3	1.3=AL	0.2	All sites below AL	All sites below AL	2016	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.
Lead (ppb)	0	15=AL	1.0	All sites below AL	All sites below AL	2016	No	Corrosion of household plumbing systems; Erosion of natural deposits.
Chlorine <sup>2</sup> (ppm)	MRDLG=4	MRDL=4	1.30	0.90	1.80	2016	No	Water additive used to control microbes.
Halocetic Acids (HAA5) (ppb)	NA	60	5.0	3.0	5.0	2016	No	Byproduct of drinking water chlorination.
Total Trihalo-Methane (ppb)	0	80	8.58	<4.00	8.58	2016	No	Byproduct of drinking water chlorination.



Term	Definition
ppm	ppm: parts per million, or milligrams per liter (mg/L).
ppb	ppb: parts per billion, or micrograms per liter (µg/L).
NA	NA: not applicable.
N/D	N/D: Not detected.
N/R	N/R: Monitoring not required, but recommended.
<b>Important Drinking Water Definitions</b>	
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.
Variance and Exemption	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
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.
MNR	MNR: Monitored, Not Regulated.
MRDL	Maximum Residual Disinfection 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 contaminants.
MPL	MPL: State Assigned Maximum Permissible Level.