

**CORRECTED COPY**  
*Annual Drinking Water Quality Report*  
*St. Andrews Water & Sewer, Inc.*  
PWS ID#: 0300033  
June 2009

**APPROVED**

**Is my water safe?**

We are pleased to provide you with this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. This report shows our water quality and what it means.

**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 peoples 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 infections by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

**Where does my water come from?**

Our water source is from two wells, which pump from the Pascagoula Formation Aquifer.

**Why are there contaminants in my drinking water?**

All drinking water, including bottled drinking water, may reasonably be expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these constituents does not necessarily pose a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

**How can I get involved?**

If you have any questions about this report or concerning your water utility, please contact Gregory Williams at 228-875-2582. We want our valued customers to be informed about their water utility. The Annual Water Quality Report will be published in the Ocean Springs Record. A copy of this report may be picked up at 1000 N. Halstead Ste C., Ocean Springs, MS 39564.

**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. ABC Water Association 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 Public Health Laboratory offers lead testing for \$10 per sample. Please contact 601.576.7582 if you wish your water tested.

**Monitoring and reporting of compliance data violations**

We are required to monitor your drinking water for specific constituents on a monthly basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. Beginning January 1, 2004, the Mississippi State Department of Health (MSDH) required public water systems that use chlorine as a primary disinfectant to monitor /test for chlorine residuals as required by the Stage 1 Disinfection By-Products Rule. We did complete the monitoring requirements for bacteriological sampling. In an effort to ensure systems complete all monitoring requirements, MSHD now notifies systems of any missing samples prior to the end of the compliance period.

\*\*\*\*\* A MESSAGE FROM MSHD CONCERNING RADIOLOGICAL SAMPLING \*\*\*\*\*

In accordance with the Radionuclides Rule, all community public water supplies were required to sample quarterly for radionuclides beginning January 2007 – December 2007. Your public water supply completed sampling by the scheduled deadline; however during an audit of the Mississippi State Department of Health Radiological Health Laboratory, the Environmental Protection Agency (EPA) suspended analyses and reporting of radiological compliance samples and results until further notice.

Although this was not the result of inaction by the public water supply, MSDH was required to issue a violation. The Bureau of Public Water Supply is taking action to resolve this issue as quickly as possible. If you have any questions, please contact Melissa Parker, Deputy Director, Bureau of Public Water Supply, at 601.576.7518.

### 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 this report. The EPA and the Mississippi State Department of Health requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Contaminant (units)	MCLG (Mg/l)	MCL (Mg/l)	Your Water Well #1 Well #2	Range Low - High	Sample Date	Violation Y/N	Common sources of contaminant in drinking water
<b>Disinfectants &amp; Disinfectant By Products</b> (There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.)							
Chlorine (as Cl <sub>2</sub> ) ppm	4	4	1.03 mg/L	1.03 – 1.56 mg/L	2008	N	Water additive used to control microbes.
<b>VOC Sample Results - No VOCs detected (Volatile Organic Contaminates)</b> 2008							
<b>Inorganic Contaminants</b>							
Antimony(mg/l)	0.006	0.006	<0.0005 <0.0005	0 0	2/14/06	N	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic(mg/l)	none	0.050	<0.0005 <0.0005	0 0	2/14/06	N	Erosion of natural deposits; runoff from orchards; runoff from glass & electronics production waste
Barium (mg/l)	2	2	0.004212 0.004493	NA	2/14/06	N	Erosion of natural deposits; Discharge from metal refineries; Discharge of drilling waste
Beryllium(mg/l)	0.004	0.004	<0.0001 <0.0001	0 0	2/14/06	N	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium(mg/l)	0.005	0.005	<0.0001 <0.0001	0 0	2/14/06	N	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries & paints
Chromium(mg/l)	0.100	0.100	0.000639 0.001285	NA	2/14/06	N	Erosion of natural deposits; Discharge from steel & pulp mills.
Copper (ppm)	1.3	AL=1.3	0.1507	0	08/04/04	N	Erosion of natural deposits; Leaching; Corrosion of household plumbing systems; from wood preservatives
Cyanide(mg/l)	0.200	0.200	<0.005 <0.005	0 0	2/14/06	N	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride (mg/l)	4.0	4.0	0.485801 0.480433	NA	2/14/06	N	Erosion of natural deposits; Discharge from fertilizer and aluminum factories.
Lead (ppb)	0	AL=15	0.0013	0	08/04/04	N	Erosion of natural deposits; Corrosion of household plumbing systems
Mercury(mg/l)	0.002	0.002	<0.0002 <0.0002	0 0	2/14/06	N	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and crop lands

Nitrate (ppm) (measured as Nitrogen)	10	10	<0.08 <0.08	0 0	6/11/08	N	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (ppm)	1	1	<0.02 <0.02	0 0	6/11/08	N	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium(mg/l)	0.050	0.050	0.0005 0.0005	0 0	2/14/06	N	Discharge from petroleum refineries; erosion of natural deposits; discharge from mines
Thallium(mg/l)	0.002	0.002	<0.0005 <0.0005	0 0	2/14/06	N	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

NA: Not Applicable

ND: Not Detected

NR: Not Required

ppm parts per million

ppb: parts per billion

**Important Drinking Water Definitions:**

**MCGL: Maximum Contaminant Level Goal**- The "Goal" is 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: Maximum Contaminant Level** - The "Maximum Allowed" is 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.

**AL: Action Level**- the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**TT: Treatment Technique** - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water

**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: 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.

St. Andrews Water & Sewer  
P. O. Box 694  
Ocean Springs, MS 39566

REG indicates MVA "pass through" rate

**Statement Date:**  
Jun 15, 2009  
**816800**

Due Date	Description	Amount
6/1/09	2009-61	35.40
6/1/09	REG9-50	17.10

PETER CHIRANIDA  
6800 BIDDIX EVANS RD  
OCEAN SPRINGS, MS 39569

**Total Due** 52.50

The consumer confidence report for 2008 has been corrected to include chlorine residual results. Copies of this report are available at our office.

2009 JUN 10 09:10

# BUREAU OF PUBLIC WATER SUPPLY

## CALENDAR YEAR 2008 CONSUMER CONFIDENCE REPORT CERTIFICATION FORM

St Andrews Water & Sewer Inc.  
Public Water Supply Name

0300033  
List PWS ID #s for all Water Systems Covered by this CCR

The Federal Safe Drinking Water Act 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 to the customers, published in a newspaper of local circulation, or provided to the customers upon request.

### Please Answer the Following Questions Regarding the Consumer Confidence Report

- Customers were informed of availability of CCR by: *(Attach copy of publication, water bill or other)*
  - Advertisement in local paper
  - On water bills
  - Other \_\_\_\_\_

Date customers were informed: 5/28/2009

- CCR was distributed by mail or other direct delivery. Specify other direct delivery methods:

Date Mailed/Distributed:  / /

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

Name of Newspaper: Ocean Springs Record

Date Published: 5/28/09

- CCR was posted in public places. *(Attach list of locations)*

Date Posted:  / /

- CCR was posted on a publicly accessible internet site at the address: www. \_\_\_\_\_

### CERTIFICATION

I hereby certify that a consumer confidence report (CCR) has been distributed to the customers of this public water system in the form and manner identified above. 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.

[Signature]  
Name/Title (President, Mayor, Owner, etc.)

6/5/09  
Date

Mail Completed Form to: Bureau of Public Water Supply/P.O. Box 1700/Jackson, MS 39215  
Phone: 601-576-7518

# PROOF OF PUBLICATION

P.O. BOX 1650  
OCEAN SPRINGS, MS 39566

STATE OF MISSISSIPPI  
COUNTY OF JACKSON

Before me, the undersigned Notary Public of Harrison County, Mississippi, personally appeared **VICKI L. FOX** who, being by me first duly sworn, did depose and say that she is a clerk of **the OCEAN SPRINGS RECORD** newspaper published in Harrison County, Mississippi, and that publication of the notice, a copy of which is hereto attached, has been made in said paper 1 time in the following numbers and on the following dates of such paper, viz:

**Vol. 44 No. 22 dated the 28 day of May, 2009**

Affiant further states on oath that said newspaper has been established and published continuously in said county for a period of more than twelve months next prior to the first publication of said notice.

Vicki L. Fox  
Clerk

Sworn to and subscribed before me this the 28th day  
of May, 2009.

Patricia A. Elvin  
NOTARY PUBLIC



Printer's Fee: \$ 242.04

Furnishing proof of Publication: \$ 3.00

Total Cost: \$ 245.04

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**\*\*\*\*\* A MESSAGE FROM MSMD CONCERNING RADIOLOGICAL SAMPLING \*\*\*\*\***

In accordance with the

**Water Quality Data Table**

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Contaminant (units)	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of samples Exceeding MCL/ACL	MCLG (Mg/l)	MCL (Mg/l)	Common sources of contaminant in drinking water
<b>VOC Sample Results - No Vocs detected</b> 09/22/08 (Volatile Organic Contaminants)							
<b>Inorganic Contaminants</b>							
Antimony(mg/l)	N	2/14/06	<0.0005 <0.0005	0 0	0.006	0.006	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic(mg/l)	N	2/14/06	<0.0005 <0.0005	0 0	none	0.050	Erosion of natural deposits; runoff from orchards; runoff from glass & electronics production waste
Barium (mg/l)	N	2/14/06	0.004212 0.004493	NA	2	2	Erosion of natural deposits; Discharge from metal refineries; Discharge of drilling waste
Beryllium(mg/l)	N	2/14/06	<0.0001 <0.0001	0 0	0.004	0.004	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium(mg/l)	N	2/14/06	<0.0001 <0.0001	0 0	0.005	0.005	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries & paints
Chromium(mg/l)	N	2/14/06	0.000639 0.001285	NA	0.100	0.100	Erosion of natural deposits; Discharge from steel & pulp mills.
Copper (ppm)	N	08/04/04	0.1507	0	1.3	AL=1.3	Erosion of natural deposits; Leaching; Corrosion of household plumbing systems; from wood preservatives
Cyanide(mg/l)	N	2/14/06	<0.005 <0.005	0 0	0.200	0.200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride (mg/l)	N	2/14/06	0.485801 0.480433	NA	4.0	4.0	Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Lead (ppb)	N	08/04/04	0.0013	0	0	AL=15	Erosion of natural deposits; Corrosion of household plumbing systems
Mercury(mg/l)	N	2/14/06	<0.0002 <0.0002	0 0	0.002	0.002	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and crop lands
Nitrate (ppm) (measured as Nitrogen)	N	6/11/08	<0.08 <0.08	0 0	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (ppm)	N	6/11/08	<0.02 <0.02	0 0	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium(mg/l)	N	2/14/06	0.0005 0.0005	0 0	0.050	0.050	Discharge from petroleum refineries; erosion of natural deposits; discharge from mines
Thallium(mg/l)	N	2/14/06	<0.0005 <0.0005	0 0	0.002	0.002	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

NA: Not Applicable  
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11 OS 228 5-28-09

# 2008 CCR Contact Information

Date: 6/11/09

Time: 9:51

PWSID: 300033

System Name: St Andrews

Lead/Copper Language

MSDH Message re: Radiological Lab

MRDL Violation

Chlorine Residual (MRDL) RAA

Other Violation(s) \_\_\_\_\_

Will correct report & mail copy marked "**corrected copy**" to MSDH.

Will notify customers of availability of corrected report on next monthly bill.

Will do corrected copy of CCR and notify customers  
of available corrected report on water bill and mail  
to us and customers by July 1, 2009

Spoke with Chris Office Manager 228 218-0100  
(Operator, Owner, Secretary)

Fax #  
228-875-2582