



MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY  
**BAYOU CASOTTE INDUSTRIAL PARK**  
 PASCAGOULA, JACKSON COUNTY, MISSISSIPPI

Fact Sheet No. 2

OCTOBER 2014

CONTACT INFORMATION

For more information on investigation efforts, or should you have any questions or concerns, please feel free to phone, write, or email one of the following:

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<sup>1</sup>**OSHA PEL**

(permissible exposure limit) = 5 ppm (averaged over an 8-hour work shift)

<sup>2</sup>**NIOSH IDLH**

(immediately dangerous to life or health) = 100 ppm

<sup>3</sup>**AIHA ERPG-2**

(maximum airborne concentration below which it is believed that nearly all persons could be exposed for up to 1 hour without experiencing or developing irreversible or other serious health effects or symptoms that could impair their abilities to take protective action) = 3 ppm

**CONTINUING TO ADDRESS CITIZENS CONCERNS  
 IN PASCAGOULA**

**AIR MONITORING FOR SULFUR DIOXIDE**

In August 2014, local industry from Bayou Casotte Industrial Park installed community air monitors to monitor for Sulfur Dioxide. The Sulfur Dioxide data is measured in parts per million (ppm). The data shows that there were four recorded measurements:

- Measurement #1:** Recorded on 9/5/2014 at 12:28 am (28 minutes after midnight). The wind was blowing from the South Southeast at 3 miles per hour (light air, not really breezy). The reading of Sulfur Dioxide was 0.6 parts per million (ppm).
- Measurement # 2:** Recorded on 9/5/2014 between 11:56 and 11:57 am. The wind was blowing from the North Northwest at 4 miles per hour (light breeze). The reading of Sulfur Dioxide was 0.8 ppm.
- Measurement # 3:** Recorded on 9/12/2014 a measurement was recorded between 1:19 and 1:20 pm. The wind was blowing from the Southeast at 13 miles per hour (gentle breeze). The reading of Sulfur Dioxide was 0.7ppm.
- Measurement # 4:** Recorded on 9/16/2014 between 6:31 and 6:32 pm. The wind was blowing from the East Southeast at 7 miles per hour (light breeze). The reading of Sulfur Dioxide was 0.6 ppm.

*An analogy to help visualize the scale for ppm is to think of one minute in two years. Two years have 1,051,898 minutes.*

Standards and Guidelines Comparison

The standards and guidelines for Sulfur Dioxide, according to the Agency for Toxic Substances and Diseases have been established by the following agencies: Occupational Safety & Health Administration (OSHA), National Institute for Occupational Safety and Health (NIOCH), and American Industrial Hygiene Association (AIHA).

The following table shows a comparison of the monitor readings made with the standards established by the federal government.

Recorded Measurements	OSHA <sup>1</sup>	NIOSH <sup>2</sup>	AIHA <sup>3</sup>
0.6	5	100	3
0.8	5	100	3
0.7	5	100	3
0.6	5	100	3