



Site Location Map: In Spring 2007 ATSDR extended the air investigation to include three new monitor sites, in addition to two existing rural locations in Warren Township, Washington County, Ohio. The new monitors are located in Marietta, Ohio and Boaz and Vienna, West Virginia.

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Update of ATSDR Activities

This is the second installment of the Air Investigation newsletter created to keep the community up to date with ATSDR's ongoing activities in the Mid-Ohio Valley area.

The last newsletter explained how ATSDR got involved in studying exposures in communities impacted by emissions from the former Union Carbide facility, and what we have done since our first trip there in 2002. Initial air monitoring, an air model, and community interest in a health study have warranted additional monitoring in the community. This expanded air investigation began in April 2007, and added four monitors to the existing monitoring network. This newsletter presents the metals concentrations at these sites from July-September 2007.

What Air Monitor Data Tells You

Lots of things can change over the year. Wind and rainfall can vary by season. Manganese emissions may be higher some months than others because of changes in the amount of alloys (mixture of metals) being made. This is why ATSDR plans to collect 12 months of air monitoring data in each community. ATSDR is monitoring long enough to make sure that we know a true yearly average. ATSDR wants to make sure that public health decisions are made on the best available data that we can provide.

ATSDR now has data for the first six months of monitoring. The table in Page 2 includes results for the fourth to sixth months (July-September) of our ongoing air investigation.

QUARTER 2– AVERAGE AIR LEVEL , $\mu\text{g}/\text{m}^3$ (July, August, September 2007)*†

METAL	CAREER CENTER AIR MONITOR WARREN TOWNSHIP, OH	HARMAR VILLAGE AIR MONITOR MARIETTA, OH	BOAZ AIR MONITOR BOAZ, WV	VIENNA AIR MONITOR VIENNA, WV
ARSENIC	0.00079 (0.00085, 0.00077, 0.00076)	0.0083 (0.00088, 0.0012, 0.0012)	0.0013 (0.0012, 0.0014, 0.0012)	0.0014 (0.0013, 0.0015, 0.0014)
BERYLLIUM	BDL	BDL	BDL	BDL
CADMIUM	0.00017 (0.00023, 0.00017, 0.00011)	0.00019 (0.00019, 0.00022, 0.00015)	0.00022 (0.00024, 0.0018, 0.00024)	0.00025 (0.00032, 0.00021, 0.00022)
CHROMIUM	BDL	BDL	BDL	BDL
LEAD	0.0041 (0.0041, 0.0038, 0.0043)	0.0046 (0.0041, 0.0045, 0.0052)	0.0047 (0.0044, 0.0040, 0.0057)	0.0055 (0.0058, 0.0051, 0.0055)
MANGANESE	0.065 (0.060, 0.079, 0.055)	0.010 (0.10, 0.13, 0.082)	0.11 (0.13, 0.10, 0.11)	0.19 (0.18, 0.21, 0.17)
NICKEL	BDL	BDL	BDL	BDL
ZINC	0.025 (0.038, 0.023, 0.015)	0.026 (0.036, 0.026, 0.017)	0.021 (0.022, 0.019, 0.023)	0.031 (0.032, 0.031, 0.029)

*Concentrations in parentheses are ordered (July, August, and September)

†BDL= Below the detection limit of the analytical method

NOTE: THESE PRELIMINARY DATA HAVE BEEN COLLECTED OVER A SHORT TIME. THEY SHOULD NOT BE USED TO MAKE DECISIONS ABOUT THE USUAL AIR LEVELS OF MANGANESE IN A COMMUNITY.

ATSDR Website

Check out our website for information on ATSDR's history and ongoing activities in the Mid-Ohio Valley at http://www.atsdr.cdc.gov/sites/washington_marietta/index.html. Come back often to get the latest ATSDR site news!

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ATSDR is a federal public health agency of the U.S. Department of Health and Human Services. ATSDR serves the public by using the best science, taking responsive public health actions, and providing trusted health information to prevent harmful exposures and diseases related to toxic substances.

Questions?

If you have questions, please do not hesitate to contact CDC Info toll free at 1-888-422-8737, select option 2. When the operator answers, reference the "Marietta Air Emissions" site and ask for the following staff. An operator will transfer your call.

- For questions about chemical exposures: Michelle Colledge (ATSDR Region 5)
- For health-related questions: Stephanie Davis (ATSDR, Division of Health Studies)