



FACT SHEET 2019

INTRODUCTION:

The Mississippi Department of Environmental Quality (MDEQ) conducted soil sampling and analysis in the Airport Circle Community in Grenada, MS, on August 21, 2018. The objective of the soil sampling activities was to assess if any contaminants were present in the Airport Circle Community above any of the applicable soil remediation standards or if no further action (investigation or remedial action) was required. The soil samples were analyzed to determine the presence (and/or absence) of volatile and some semi-volatile organic compounds. In addition, water samples were taken during this investigation as part of a precautionary approach to protect public health.

More detailed information about the results follows, and additional information is posted on the website: <https://www.mdeq.ms.gov/about-mdeq/office-of-community-engagement/environmental-justice/oc-electronic-file-room/community-organizations/>.

Please direct any questions about the results, or any of MDEQ's work in Grenada, to the points of contact listed on the last page.

SUMMARY OF MDEQ SAMPLING RESULTS:

Based on results received to date, MDEQ has determined that there is no immediate threat to public health in the Airport Circle Community due to soil contamination. In addition, the drinking water sampling indicated results below EPA drinking water standards.

TABLE #1
LOCATION OF AIRPORT CIRCLE
COMMUNITY SAMPLES

| Sample Site | Type of Sample |
|----------------------|----------------|
| Pruitt Backyard 1 | Soil |
| Pruitt Backyard 2 | Soil |
| Hawkins Side Yard 1 | Soil |
| Hawkins Front Faucet | Water |
| Rose Kitchen Faucet | Water |
| Hydrant by Church | Water |



All samples were analyzed for Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), and metals. Table #2 shows the constituents that were detected in the soil samples and compares these detected levels to MDEQ's Tier 1 Target Remediation Goals (TRGs) for Residential Properties. These constituent-specific TRGs have been determined to be protective of human health and the environment.

**TABLE #2
DETECTION IN SOIL SAMPLES**

| Sample ID | Arsenic (mg/kg) | Barium (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Lead (mg/kg) | Mercury (mg/kg) |
|-------------------|-----------------|----------------|-----------------|------------------|--------------|-----------------|
| Pruitt Back Yard | 5.61 | 52.9 | 0.172 | 14 | 17.7 | 0.0321 |
| Pruitt Front Yard | 2.56 | 67.2 | BDL | 11.2 | 7.16 | BDL |
| Hawkins Side Yard | 6.41 | 60.2 | 0.164 | 140 | 18.7 | 0.0708 |
| Tier 1 TRG Value | 0.426 | 5,480 | 39.1 | 227 | 400 | 10 |

**BDL represents Below Detection Limit*



As can be seen in Table #2, the Arsenic values detected in the soil sample exceeded its constituent-specific Tier 1 TRG. However, according to a geological survey conducted by MDEQ’s Office of Geology, baseline levels of Arsenic in this region can range as high as 10 mg/kg. Therefore, Arsenic levels detected in the above samples are within baseline levels. No other constituents other than the ones shown in Table #2 were identified above laboratory detection limits, which were set to be protective of human health and the environment.

CONTACT FOR MORE INFORMATION

LYNN CHAMBERS
LCHAMBERS@MDEQ.MS.GOV
 601-961-5117

MELISSA COLLIER
MCOLLIER@MDEQ.MS.GOV
 601-961-5025