Arkansas Department of Health

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Review of Trafalgar Road Fire Site Surface Water Samples for May 22nd and June 4th, 2019

The Arkansas Department of Health (ADH) is conducting an ongoing review of the results of surface water samples from the Trafalgar Road Fire site as they become available. These samples were collected by the Arkansas Department of Environmental Quality's (ADEQ) contractor, EnSafe, at the northern perimeter of the site. The May 22, 2019 and June 4, 2019 sample results were provided to ADH on July 3, 2019.

	Concentrations in Milligrams per Liter		
Sample Date	**Arsenic**	**Benzene**	**Manganese**
January 23, 2019	0.0207	0.0045	3.69
February 7, 2019	0.0553	0.0061	2.13
March 1, 2019	0.0130	0.0068	4.16
March 15, 2019	0.0198	None Detected	3.28
April 5, 2019	0.0147	0.0048	2.89
April 19, 2019	0.0114	0.0045	1.99
May 1, 2019	0.0371	0.0042	4.56
May 15, 2019	0.0084	0.0007	2.84
May 22, 2019	0.0323	0.0022	3.21
June 4, 2019	0.0241	0.0012	2.49
June 4, 2019	0.0219	0.0013	2.46

The same compounds identified from the initial January 23, 2019 samples (arsenic, manganese, and benzene) were present and evaluated by ADH for this review. The table above displays those compounds from all ten (10) rounds of sampling results ADH has received to date (duplicate results are included from the June 4th sampling event).

The results from this evaluation and all previous samples are consistent with the February 13, 2019 Health Consultation conclusions, "*that potential exposure, such as from accidental splashing or wading, to surface water by dermal (skin) contact with any of the chemicals detected in the surface water at the perimeter of the Trafalgar Road Fire site poses* ***no apparent public health hazard***. ADH concludes that dermal contact with surface water from the perimeter of the Trafalgar Road Fire site is not expected to harm people's health because all levels of arsenic, manganese, and benzene were found to be below calculated risk levels related to public health."

ADH will continue to evaluate surface water sample results as they are received by ADEQ.