

Memorandum

To: File

From: Tami Rice

Date: 08/04/2009

Re: Assessment Summary, Barr AST site – Red Oak

At about 4:00PM on July 16, 2009, Dan Cook, Jim Kacer, and I arrived at the Barr AST site in Red Oak. The current site owner, Mr. Calvin Brown, was notified of our arrival and was present onsite briefly during drilling of the first and last borings. Using a screen point 15 and our geoprobe, we collected groundwater samples at three individual locations onsite (GP-1 through GP-3). The sample locations were in the general vicinity of the former aboveground storage tanks (ASTs) with one sample (GP-1) located centrally in the AST vicinity and two samples (GP-2 and GP-3) located to the south in the direction of the nearest receptors (houses with basements). When we arrived onsite, we discovered a sewer line that runs along the western boundary of the site.

The first boring (GP-1, located in the center of the former AST vicinity) was initially drilled to 20 feet since water has been observed onsite between 12 to 17 feet. Water was not observed at 20 feet so the equipment was removed and reinstalled in the same location to a depth of 32 feet. A petroleum odor was observed in the boring. The second boring (GP-2) was drilled southwest of the first boring (GP-1). A petroleum odor was also observed in this boring. The last boring (GP-3) was drilled southeast of GP-1 and straight east of GP-2. No apparent petroleum odor was observed in GP-3. All of the borings were 32 feet deep with screened intervals of 28 to 32 feet below ground surface. Groundwater samples were collected from each boring and analyzed using method OA-1 (benzene, toluene, ethylbenzene, xylene, including methyl tert-butyl ether [MTBE]) and OA-2 (total extractable hydrocarbons [TEH]).

The petroleum constituents analyzed were not detected in the groundwater samples collected onsite. Please see Table 1 below for comparison of the concentrations found onsite with the applicable statewide standards.

Table 1 - Groundwater Concentrations (ug/L)							
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	TEH-diesel	TEH-waste oil
GP-1	<2	<2	<2	<5	<2	<100	<100
GP-2	<2	<2	<2	<5	<2	<100	<100
GP-3	<2	<2	<2	<5	<2	<100	<100
Standard	5	1,000	700	10,000	21	1,200	400

Based on the information presented above, no further action is necessary on the Former Barr AST site at this time. Please note that this judgment is based on information currently available to the Department and is subject to revision if additional information indicates such a change is warranted.