



February 21, 2014

Kathleen McDaniel  
Interim City Attorney  
City of Manitowoc  
900 Quay St  
Manitowoc, WI 54220

SUBJECT: Concurrence to Remove Sub-slab Sample Ports at 3518 Hecker Rd Residence  
Former Town of Newton Gravel Pit, 3130 Hecker Road, Manitowoc, WI  
WDNR BRRTS # 02-36-000268

Dear Ms. McDaniel:

The Wisconsin Department of Natural Resources (WDNR) has reviewed the January 17, 2014 report, *Yindra Residence Vapor Intrusion Investigation*. In this report the City of Manitowoc documented vapor intrusion sampling activities and analytical results for indoor, sub-slab, and outdoor air. WDNR concurs there are no vapor intrusion impacts associated with contaminants detected in groundwater and sub-slab sampling ports can be removed from the basement floor at the 3518 Hecker Road residence.

Laboratory analytical results showed no detects for cis-1,2-dichloroethylene (DCE) and vinyl chloride (VC) and low level detects for benzene. Due to the benzene detect, other volatile organic compounds (VOC) were included in the analysis to determine if benzene was a result of vapors from groundwater contamination. AECOM concluded that the benzene was not associated with the contaminants detected in groundwater. The detected VOCs did not exceed WDNR Vapor Action Level standards.

WDNR reviewed these results January 28, 2014 with Theresa Evanson, WDNR Vapor Intrusion Specialist. She agreed that the VOC detects were not a result from contaminants in groundwater. The detected VOCs have been commonly found in many other indoor and sub-slab air samples. In addition, the approximate 20 feet separation between the static groundwater level and the basement floor is likely why the benzene detects are not associated with the contaminants in groundwater. Also, the high volatility rates of DCE & VC are likely why these compounds were not detected in the sub-slab or indoor air samples. Elizabeth Evans, Wisconsin Department of Health Services, also reviewed the results on February 14, 2014 and determined there were no health-related concerns.

WDNR appreciates your efforts and continued cooperation for this site. Please feel free to contact me at 920-662-5178 if you have any questions regarding this letter.

Sincerely,

Tauren R. Beggs  
Hydrogeologist  
Northeast Region Remediation & Redevelopment Program

cc: Dave Henderson, AECOM