Tony Evers, Governor Preston D. Cole, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



April 6, 2021

HUSCH BLACKWELL LLP 33 E MAIN ST STE 300 MADISON WI 53703

Subject: Vapor Intrusion – Short Term Risks for Trichloroethylene Vapors, Vapor Intrusion Pathway Assessment, and Immediate and Interim Actions CARRIAGE CLEANERS 3707 W LOOMIS RD, GREENFIELD, WI BRRTS# 02-41-552212 FID# 241487180

#### Dear Sir or Madam:

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## The purpose of this letter is to communicate three points related to vapor intrusion:

- 1. TCE poses short-term risks to human health that justify accelerated assessment, investigation and mitigation of the vapor intrusion pathway.
- 2. Assessment of the vapor intrusion pathway is part of the investigation process and should be assessed as early as possible and routinely re-assessed throughout the life of a project.
- 3. Immediate and interim actions may be necessary early in the site investigation process to protect human health from contaminated vapors.

We encourage you to discuss this information with your environmental consultant. The DNR believes the health risks of TCE vapors are serious enough that it should be one of *the first things* evaluated as part of a site investigation, especially at sites where contamination may impact sensitive populations. RPs should be diligent about screening for TCE in vapors as early in the site investigation process as possible, to determine if immediate actions are warranted to reduce harmful exposure.

### **Health Risk**

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The VOC, trichloroethylene (TCE), poses a short-term (i.e., acute) health risk in indoor air at certain concentrations that justifies expedited assessment, investigation and mitigation as immediate or interim actions (USEPA, 2014; Makris et al., 2016). As discussed in DNR vapor intrusion guidance (see below), quickly identifying demographics is a key component of the risk assessment. This is supported by the Department of Health Services. TCE also poses a long-term (i.e., chronic) health risk.

TCE is a chlorinated solvent commonly used as a parts washer and degreaser of metal equipment. It is also used for spot cleaning and found in household items such as aerosols. TCE is also a breakdown product of tetrachloroethylene (PCE or "perc"). PCE is a chlorinated solvent used in commercial and industrial businesses such as dry cleaners, metal plating, paper mills, etc. When released to the environment, PCE, TCE (either as a source or a breakdown product) and other contaminants readily migrate through soil, groundwater and subsurface air.

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Assessment of the vapor intrusion pathway is a critical part of an environmental investigation. Wisconsin Administrative Code (Wis. Admin. Code) Chapter NR 716 outlines the requirements for investigation of contamination in the environment. Specifically, Wis. Admin. Code § NR 716.11(3)(a) requires the field investigation "determine the nature, degree and extent, both areal and vertical, of the hazardous substances or environmental pollution in **all** affected media," which includes sub-surface and indoor air. In addition, Wis. Admin. Code § NR 716.11(5) specifies that the field investigation include an evaluation of the "potential pathways for migration of the contamination, including drainage improvements, utility corridors, bedrock and permeable material or soil along which **vapors**, free product or contaminated water may flow."

A vapor intrusion pathway assessment may demonstrate that an immediate or interim action is required under Wis. Admin. Code ch. NR 708. Wis. Admin. Code § NR 708.05(2) states "for hazardous substance discharges that pose an **imminent threat to public health**, safety or welfare or the environment, responsible parties shall conduct all necessary emergency immediate actions." Under Wis. Admin. Code § NR 708.11(1), appropriate interim actions must be taken when "necessary to... **minimize any threat to public health**, **safety or welfare** or the environment" and could include "constructing a temporary engineering control, such as low permeability cover, or **installing and operating a vapor mitigation system**" per Wis. Admin. Code § NR 708.11(2)(d).

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MAY VANG (414) 232-0126 may.vang@wisconsin.gov

Sincerely,

Christine Haag Program Director

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Remediation & Redevelopment Program

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April 6, 2021

LOOMIS LLC ATTN: GERALD BUTZ 1120 WEST DECORAH RD WEST BEND WI 53095

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April 6, 2021

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WHYTE HIRSCHBOECK DUDEK S C 555 E WELLS ST STE 1900 MILWAUKEE WI 53202

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