

December 17, 2020

Mr. David Hanson  
Senior Waste Management Specialist  
Department of Natural Resources  
2300 N. Dr. Martin Luther King Dr.  
Milwaukee, WI 53212-3128

**Project # 40420**

**Subject: Passive Air Sampling Plan for the Community Within the Corridor, Limited Partnership, located at 2748 N. 32nd Street, 3212 West Center Street, 2727 N. 32nd Street, 2758 N. 33rd Street, and 2784 N. 32nd Street, in Milwaukee, WI BRRTS #02-41-263675, FID #241025400**

Dear Mr. Hanson:

K. Singh & Associates, Inc. (KSingh) is pleased to respond to WDNR's letter of December 11, 2020 providing review of the Sub-Slab Vapor Investigation Work Plan for the referenced facility and providing additional information on passive vapor sample collection. In particular, KSingh reviewed the EPA document entitled "Passive Samplers for Investigations of Air Quality: Method Description, Implementation, and Comparison to Alternative Sampling Methods". Based on the material received and reviewed, KSingh has prepared a plan for Passive Indoor Air Sampling in accordance with EPA Method TO-17 as follows.

KSingh proposes to collect passive vapor samples over a two-week period at the Community Within the Corridor Project within the four elevator shafts of the Community Within the Corridor building. Sampling will be performed once the building is cleared of all drums or other materials within the building that could be a source of Volatile Organic Compounds (VOCs) in indoor air.

The passive samples will be collected utilizing Radiello 130 SE passive sampling media. Sampling procedures, as provided by Radiello and Millipore Sigma via <https://www.sigmaaldrich.com/technical-documents/articles/analytical/radiello-air-sampler/instructions.html> are included in Attachment A. The following steps will be performed.

1. Preparation of Sampling Equipment

The supporting plate will be assembled in the office, equipment will be gathered, and paperwork will be prepared.

2. Set Up and Commencement of Passive Air Sampling

The sample media will be placed on the floor of the elevator or suspended on a secure line within the shaft with starting times written down utilizing a pen, not a marker, to avoid contamination of the media. At each elevator shaft, the location for sampling will be determined so that the sampler can be placed in a dry place without excessive humidity. Each Radiello 130 SE sampler will be handled with the user wearing Nitrile gloves which will be changed between each sampling location.

### 3. Collection of Passive Air Sampling Media for Analysis

Following two weeks of sampling, the sampling will be ended. K. Singh will return to the site and return each Radiello 130 SE sampling media to its sealed case while wearing fresh Nitrile.

Photographs will be taken and field notes recorded to document date, time, location, conditions, and other notable occurrences during the passive air sampling investigation.

Once all samples are collected, the samples will be shipped to Eurofins Air Toxics, LLC of Folsom, California, or other approved laboratory, utilizing chain-of-custody procedures for testing in accordance with EPA Method TO-17. The results will be reported to WDNR following receipt and analysis of the laboratory report.

Should you have any questions or require any additional information, please feel free to contact us at 262-821-1171.

Sincerely,

**K. SINGH & ASSOCIATES, INC.**



Kyle R. Vander Heiden  
Staff Geologist



Robert T. Reineke, P.E.  
Project Manager



Pratap N. Singh, Ph.D., P.E.  
Principal Engineer

cc: Pamela A. Mylotta, NR Region Program Manager / Wisconsin Department of Natural Resources  
Que El-Amin / Scott Crawford, Inc.  
Shane LaFave / Roers Companies

Enc: Attachment A - Passive Vapor Sampling Procedures

## ATTACHMENT A

### Passive Vapor Sampling Procedures

## before sampling assembling the supporting plate

Before using **radiello**, you have to assemble the supporting plate with the clip, necessary to suspend it, and the adhesive label pocket.



1 insert the clip strip in the slot, with the peg facing upwards



2 ply the strip and insert the peg into the hole



3 peel off the transparent pocket

**user tip**  
Assemble the supporting plate in your laboratory before the sampling campaign to save time in the field

and place it onto the plate in a central position; if you prefer, the pocket can be applied to the rear of the plate, but **BE CAREFUL**, always with the label insertion slot on the side (otherwise, if it starts raining the label can get wet)



## on-field to start the sampling

open the plastic bag, draw the cartridge out from the tube and put it in the diffusive body. **Keep the glass or the plastic tube and stopper in the original plastic bag.**

The lower part of the diffusive body holds a seat for the central positioning of the cartridge. **A correctly centered cartridge should not stick out even by half a millimeter. If it does, the cartridge is not correctly positioned and out of axis.**

**BE CAREFUL: do not hold the diffusive body horizontally when you screw it onto the plate, otherwise the cartridge could come out from its seat and stick out.**

As a consequence, when the diffusive body is screwed onto the supporting plate the cartridge is bent, the geometry of the sampler is disturbed and the results obtained become unreliable. **To place the cartridge centrally you need only to tap on the diffusive body.**

Insert a label in the pocket without peeling it off. Keep note of the date and time and expose **radiello**. Sampling has started.

**user tip**  
Do not touch the cartridge with your fingers if possible, particularly if it is impregnated with reactive



**user tip**  
even if you can write date and time of the sampling start and end on the adhesive label, we suggest you to keep note of these parameters also separately: after a week exposure with bad weather conditions, your writing might have become illegible!  
**DO NOT USE MARKER PENS** to write on the label: they contain solvents that are sampled by **radiello**!

## after the sampling

Keep note of the date and time of the end of exposure.

Place the cartridge into the tube, peel off the label and stick it onto the tube **such that the barcode is parallel to the axis of the tube.**

if you have performed the sampling of different polluting compounds at the same time, **BE CAREFUL NOT TO MIX UP THE TUBES**: place the exposed cartridge in its original tube, identified by the code printed on the plastic bag.



**IMPORTANT**  
Always stick the label such that the barcode is parallel to the axis of the tube: any other position will compromise the barcode automated reading by the optic reading device.