

## MEMORANDUM

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DATE : March 28, 2023

TO : Pratap Singh, Ph.D., PE / KSingh

FROM : Robert Reineke, PE / KSingh

SUBJECT : Vapor Mitigation Efforts – Community Within the Corridor – East Block  
March 28, 2023

COPY TO : Shane LaFave/ Roers Companies, Project #40441

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I and Kevin from Northshore met in the parking lot of CWC West Block at 8:45 am.

All fans were operating. Garage fans operate at regular intervals at high speed and appear to operate continuously at a lower level.

PID readings in the building were 0.0 ppm on the third floor with one reading of 0.1 and 0.0 ppm in the garage and gym. Readings in the second floor hallway were between 0.0 and 0.4 ppm. Readings on the first floor were between 0.0 and 0.1. The sump crock in the mechanical room had a reading of 37.1 ppm. The sump was sealed with duct tape.

Further smoke testing was performed in order to identify leaks. No further leaks were detected.

Both blowers were determined to be running. Fliteway installed three valves to control flow from various zones. Vacuum readings were performed to try to measure effectiveness. More time needed to assess.

An additional vapor pin was installed in the southeast portion of the building. Results were 0.091 inches of H<sub>2</sub>O. Vapor pins on the western portion of the building had vacuum measurements consistently less than 0.004 inches H<sub>2</sub>O. All pins were left in place for additional progress monitoring.

The following recommendations are made:

1. Complete installation of Vapor Extraction Point and Fan in Mechanical Room by Greenfire
2. Access first floor affected units to perform additional PID air screening and sub-slab vacuum measurements.
3. We recommend increasing the blower capacity and adding radon fans in areas of concern so that sufficient vacuum is achieved.
4. Screen affected areas with the PID to determine if progress is being made via ventilation.
5. Perform additional vacuum testing on newly installed vapor pins.
6. Liquid in the northern blower will be drained no later than 3/29.

7. Continue to install vapor pins and adjust system to see if vacuum can be established under affected areas.

Action items for Wednesday, March 29.

1. Seek access to all apartments on first floor to third floor and take PID Readings. Repeat this twice tomorrow.
2. Measure VOCs with PID in Mechanical Room.
3. Install valves for the north blower to control vacuum as needed.
4. Prepare for GC/MS testing. This will require a secure room with a table.
5. Continue working on smoke testing, sealing, and vacuum measurement.
6. Assess the adequacy of blower size.
7. Shut down ventilation fans at beginning of the day.