



July 29, 2024

To: Benjamin McPherson, P.E.

From: John Black

Re: Demolition of former Purifier Boxes (BLDG. 68) and Temporary Cover on Purifier Contents
Riverview Innovation & Technology Campus
BCP site #C915353
3875 River Road
Tonawanda, NY 14150

Dear Mr. McPherson,

Riverview Innovation & Technology Campus is proposing the demolition of the former Purifier Boxes (Figure No. 1) Building No. 68, on the Riverview Innovation & Technology Campus, Inc. (RITC) Brownfield Cleanup Program (BCP) Site (#C915353) in the Town of Tonawanda, New York. Historically, this structure was used to purify coke oven gas (COG) generated onsite during coking operations. The exact dates relating to the operation of Building No.68 are unknown, however, it is believed that the former purifier boxes were one of the original COG purification methods on site, beginning in 1917. The exact date the purifier boxes were taken offline is unknown.

Upon initial inspection of Building No. 68, it was deemed unsafe to conduct an inspection for asbestos containing material (ACM). Due to the age and former operation of Building No. 68, it was classified as a condemned structure to be managed by controlled demolition. Until recently, the area around Building No. 68 was unsafe to allow for inspection. Demolition of adjacent structures and regrading of the surrounding area allowed for a licensed asbestos inspector from 56 Services to perform an inspection and collect samples of suspected ACM on July 02, 2024. The results of the inspection and samples collected were negative for asbestos.

In addition to the deteriorating stability of the outer walls, there is data to suggest that without a roof over the purifiers, precipitation onto the contents is leaching iron, cyanide, and other COG constituents onto the adjacent surfaces that may runoff as stormwater.



Photograph No. 1
Purifier Boxes (outlined in blue) and Iron Oxide Pile (outlined in yellow)
June 2024

RITC is proposing to demolish Building No.68 in accordance with the approved Demolition Work Plan (*Inventum Engineering P.C. March 2021*) and Brownfield Cleanup Program guidelines. The following is a summary of RITC's proposed demolition plan for Building No.68.

- Demolition will begin on Purifier Box No. 3, eastern most structure.
- Accessible steel will be removed with an excavator equipped with a grapple.
- Exterior brick will be removed with an excavator and segregated directly south of the structure.
- Interior brick, or brick in contact with purifier box residuals, will be segregated and placed on and covered with 8-millimeter polyethylene sheeting.
- Concrete will be removed and stockpiled to the southeast.
- Concrete or brick that exhibits staining or impacts from purifier box residuals will be segregated and stored adjacent to the interior brick. These materials will be sampled for characterization following completion of demolition.
- All Purifier Box residuals will be stockpiled on 8- millimeter (min) polyethylene sheeting at the west end of the Iron Oxide Pile (Figure 1).
- All Purifier Box residuals will be placed on and covered with 8-millimeter (min) polyethylene sheeting.
- Representative samples of each purifier box will be collected as the residuals are moved to the stockpile location. Each representative sample will be sampled for:
 - Volatile Organic Compounds (VOCs),
 - Semi-volatile Organic Compounds (SVOCs),
 - Metals
 - Ammonia
 - Cyanide



- In the event surface water or groundwater needs to be managed, it will be pumped to the Mixing Pad for pre-treatment by settling, bag filters, and granular activated carbon, before discharge to the publicly owned treatment works (POTW).
- Any piping encountered will be inspected for process residuals. If residuals are present, they will be removed from the piping and stored with the Purifier Box residuals.
- Once the Purifier Boxes and associated foundations are removed, the underlying soils will be inspected. If any visual or olfactory evidence of contamination is identified, samples will be collected for:
 - Volatile Organic Compounds (VOCs),
 - Semi-volatile Organic Compounds (SVOCs),
 - Metals
 - Ammonia
 - Cyanide
- Active air monitoring for VOCs and dust particulate will be ongoing during demolition. In accordance with the approved community air monitoring program (CAMP), three fixed perimeter air monitoring stations and a fourth mobile station will be placed within 50 feet downwind of the demolition.
- The demolition will progress westward into Box No.2 and finish with Box No.1. All steps described above will be applied to the demolition of Box No.1 and Box No. 2.

Detailed notes of the demolition will be recorded in field books by Inventum Engineering personnel. Photographs will be taken to document the demolition process, along with post-demolition aerial photographs. Following demolition, brick and concrete characterization samples will be collected to determine if materials may be used as fill on site. All steel will be recycled with Niagara metals.

Please let us know if you have any questions.

Sincerely yours,

A handwritten signature in blue ink, appearing to read "John P. Black", is written on a light yellow rectangular background.

John P. Black
Partner





WORK AREA



PURIFIER BOXES DEMOLITION



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FIGURE 1 DRAWING NUMBER PURIFIER BOX DEMOLITION	

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