



Consulting
Engineers
and Scientists

December 8, 2020

Project 201.01069.001

Mr. Eric Botterman, P.E.
Millennium Engineering, Inc.
62 Elm Street
Salisbury, Massachusetts 01952

RE: Response to Comments No. 2
City of Newburyport Department of Public Services
Proposed Property Redevelopment
Former Circle Finishing
U.S. Route 1 Traffic Circle
Newburyport, Massachusetts
MassDEP Release Tracking No. (RTN) 3-0392

Dear Mr. Botterman:

Ransom Consulting, LLC (Ransom) has prepared this letter for Millennium Engineering, Inc. (MEI) responding to comments from Mr. Jonathan Carey of the City of Newburyport Department of Public Services regarding the disturbance of soils and potential impacts to the public water supply connection to the proposed building at the above-referenced property (the Site).

CITYOF NEWBURYPORT COMMENT

As provided in a December 7, 2020 email from Mr. Jonathan Carey of the City of Newburyport Department of Public Services, Mr. Carey voiced a third concern: In the event of a water main break at the Site, could contaminated soil be pulled into the broken line during a negative pressure event?

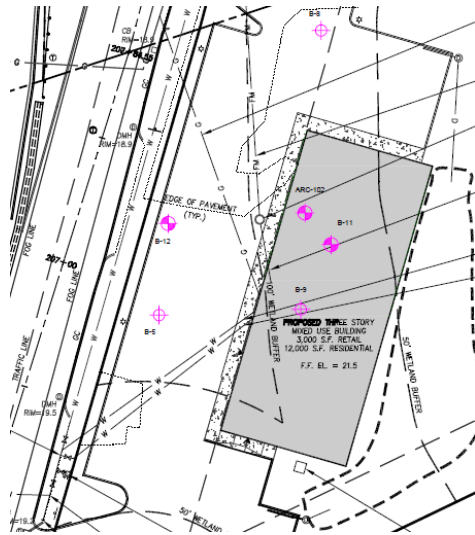
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Mr. Eric Botterman, P.E.
Millennium Engineering, Inc.

RESPONSE TO COMMENT

There was a boring (B-5) advanced in the general vicinity of the two water mains proposed to service the proposed new building at the Site. As shown on the boring log for B-5 (a copy of which is provided as Attachment A), no evidence of contamination was observed in the shallow soils (i.e., a depth interval of 2 to 4 feet below the ground surface [bgs]). In addition, a soil sample was collected from this boring at a depth interval of 6 to 8 feet bgs; with the exception of a low concentration of ethylbenzene, no other volatile organic compounds were detected in this sample at concentrations above laboratory reporting limits. The concentration of ethylbenzene detected in the sample was 48.9 micrograms per kilogram ($\mu\text{g}/\text{kg}$); this concentration is well below its corresponding and most stringent Method 1 standard of 40,000 $\mu\text{g}/\text{kg}$.



As provided in Ransom's previous response to comments letter, the samples exhibiting the greatest concentrations of petroleum VOCs were collected below the water table.

We understand that the proposed water lines will be installed approximately 0.75 to 1 foot above the water table. Therefore, it is unlikely that contaminants will be pulled into the water lines in the event of a line break.

If you have any questions regarding this letter, please contact me at (978) 465-1822.

Sincerely,

RANSOM CONSULTING, LLC

Timothy J. Snay, LSP, LEP
Principal, Vice President

TJS:ts
Attachment

ATTACHMENT A

Boring Log for B-5

Response to Comments No. 2
City of Newburyport Department of Public Services
Proposed Property Redevelopment
Former Circle Finishing
U.S. Route 1 Traffic Circle
Newburyport, Massachusetts
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BORING LOG

ENVIRONMENTAL ENGINEERS AND CONSULTANTS
 194 FORBES ROAD
 BRAINTREE, MASSACHUSETTS 02184
 phone (781) 356-7300 fax (781) 356-2211

Site: Circle Finishing, Inc.
 Route 1 Traffic Circle
 Newburyport, Massachusetts

Boring No. B-5
 Page: 1 of 1
 File No 103-01258

Date: 10/17/01 Boring Equipment Description: Track-mounted Geoprobe
 Reported by: Rich Mall
 Boring Co: TDS Sampler Description: 4'-2"-diameter Acetate sleeve
 Foreman: _____ Field Testing Equipment: Photovac 2020 equipped with a 10.6 eV lamp
 Others: _____

Depth	Sample Information			PID	Sample	Equipment Installed
	No.	Recovery/ Penetration	Blows/ 6"	Field Test Data	Description:	
4		24"/48" (2-4')	NA	0.0 ppm	Brown, med-fine Sand, some gravel/pebbles	No equipment installed
8		24"/48" (6-8')	NA	413.0 ppm	Brown, med/fine/silty Sand, wet, some pebbles	
12		48"/48" (8-12')	NA	64.7 ppm	Brown, fine-silty Sand, trace black glass, few pebbles	
					Gray Clay with Brown med Sand in bottom of sleeve	
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Notes: 1. Groundwater encountered @ 5.5 fbg.
 2. Clay encountered @ 11 fbg.
 3. *Soil samples collected from (6-8') for VPH and VOCs analyses.
 4. Odors/staining evident in (4-8') and (8-12') soil intervals.