

Thompson, Matthew A - DNR

From: Thompson, Matthew A - DNR
Sent: Monday, January 27, 2020 3:02 PM
To: 'Matthew Michalski'
Cc: Brian Bailey; Dave Larsen
Subject: RE: Bandbox Laundry Sparta BRRTS# 02-42-551921

Matthew,

Sewer line sampling is still required despite the factors you lined out. The concern lies less so with groundwater interacting with the line and more with former disposal activities at the site. My understanding of the protocol is that the line purge relates only to tubing used to collect the sample and not the ambient air. Unfortunately the protocol is limited in detail and being on the front end of this sampling there is not much guidance to go off of. I would recommend documenting your sample collection procedure and submitting it along with results to reduce confusion during closure committee re-review.

Thanks,

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Matt Thompson

Office: 715-839-3750

MatthewA.Thompson@wisconsin.gov

From: Matthew Michalski <mmichalski@reiengineering.com>
Sent: Monday, January 27, 2020 9:40 AM
To: Thompson, Matthew A - DNR <MatthewA.Thompson@wisconsin.gov>
Cc: Brian Bailey <Bbailey@reiengineering.com>; Dave Larsen <dlarsen@reiengineering.com>
Subject: RE: Bandbox Laundry Sparta BRRTS# 02-42-551921

Matt,

I was wondering if you have been able to go over my questions concerning the proposed sewer vapor sampling based on my review of the Investigation Protocol from the Sewer and Utility Tunnels as Preferential Pathways for Volatile Organic Compounds Migration Into Buildings: Risk Factors and Investigation Protocol (ESTCP Project ER—201505) that was linked on the RR Report Program News page on October 30th.

Thank you,

Matthew Michalski




Matthew Michalski – Hydrogeologist/ Environmental Compliance Consultant



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Hydrogeologist/
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From: Matthew Michalski
Sent: Wednesday, November 13, 2019 3:52 PM
To: Thompson, Matthew A - DNR <MatthewA.Thompson@wisconsin.gov>; Brian Bailey <BBailey@reiengineering.com>
Subject: RE: Bandbox Laundry Sparta BRRTS# 02-42-551921

Matt,

I have been going over the Investigation Protocol from the Sewer and Utility Tunnels as Preferential Pathways for Volatile Organic Compounds Migration Into Buildings: Risk Factors and Investigation Protocol (ESTCP Project ER—201505) that was linked on the RR Report Program News page on October 30th. Based on this document, the following higher risk scenarios were identified for the potential of vapor intrusion through sewer/utility tunnels:

1. Discharge of Impacted Groundwater to Sewer Line.
 - No known discharge of impacted groundwater to the sewer line is currently known to be occurring at this site.
2. Sewer Intersects NAPL/Vadose Zone Source.
 - Based on laboratory analytical results neither the sewer main or lateral intersects the area of residual unsaturated soil contamination at this site.
3. Sewer Intersects Contaminated Groundwater.
 - The Investigation Protocol recommends using applicable groundwater and vadose zone screening criteria for vapor intrusion. Based on RR-800, and the guidance regarding building foundations, if dissolved phase groundwater contamination is in contact with the sewer line vapor intrusion would be the vapor intrusion risk at this site. However, this would only be an issue if the sewer main was at a depth greater than the shallowest groundwater. Based on monitoring wells MW2 and MW3 the shallowest groundwater has been during the site investigation and remediation has been 11.95 feet bls (MW2) and 14.00 feet bls (MW3) and the most recent analytical results dissolved phase groundwater contamination only appears to exceed the NR140 PAL. Shouldn't the first step be verifying the depth of the sewer main as the lateral will be shallower and I'm assuming the piping under the building itself will be significantly shallower.

If the sewer main is shallower than groundwater, would sewer line sampling still be required?

Also, regarding sampling from the manhole or clean-out. How would these be sealed, especially the manhole, to eliminate the potential of atmospheric or other outside sources from entering the sample during collection. I'm also assuming you would want the surface seal, as a significant volume of air would need to be purged to make sure you were not collecting stagnate air from the vertical pipe (clean-out or manhole) as the sampling point would be approximately one foot above the lateral based on the Investigation Protocol.




I apologize for asking so many questions, but as this hit us out of the blue and with limited time frame to complete to the satisfaction of the WDNR.

Thank you,

Matthew Michalski

Matthew Michalski – Hydrogeologist/ Environmental Compliance Consultant



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From: Thompson, Matthew A - DNR <MatthewA.Thompson@wisconsin.gov>
Sent: Wednesday, November 6, 2019 11:22 AM
To: Brian Bailey <BBailey@reiengineering.com>; Matthew Michalski <mmichalski@reiengineering.com>
Subject: RE: Bandbox Laundry Sparta BRRTS# 02-42-551921

Brian and Matt-

I spoke with our Vapor team lead for recommendations about completing the vapor investigation at this site. A question that she had was regarding lateral replacement that may have taken place since the facility became a dry location- do you know if the sewer lateral was replaced during that time?

During our call you asked where a sample could be taken. I've been advised that a sewer cleanout could be sampled from using a 1L summa and tube. Manholes can also be used for access to sewer lines up and down stream of the building if the source of CVOC vapors needs to be pinpointed. CVOCs should be the only analytes screened for during this assessment. I think Dave also asked if a PID could be used for this assessment- it cannot, a sample should be collected using a 1L summa canister.

If other questions come up while preparing a change order for the site feel free to reach out.

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Matt Thompson

Office: 715-839-3750

MatthewA.Thompson@wisconsin.gov

From: Thompson, Matthew A - DNR
Sent: Thursday, October 17, 2019 11:44 AM
To: Matthew Michalski <mmichalski@reiengineering.com>
Cc: Brian Bailey <BBailey@reiengineering.com>
Subject: Bandbox Laundry Sparta BRRTS# 02-42-551921

Matthew,

The west central region closure committee recently reviewed the Bandbox Cleaners & Laundry closure request and are asking for additional investigation to be performed at the site. The closure committee would like the sanitary sewer assessed for VOC vapors. I attempted to reach Mr. Tessman, a hard copy of the attached letter has been sent to him.

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Matt Thompson

Hydrogeologist – Remediation and Redevelopment

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