From:	Rob Hoverman <rhoverman@enviroforensics.com> Tuesday, November 8, 2022 3:58 PM</rhoverman@enviroforensics.com>		
Sent:			
То:	Schultz, Josie M - DNR		
Cc:	Lee Amundson		
Subject:	RE: 1404 S Webster		
Attachments:	200030-0040-Fig.1 VI assessment locatrions.pdf; Econo Care - Allouez VI		
	Table.pdf		
Follow Up Flag:	Follow up		
Flag Status:	Flagged		

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## Josie,

As discussed, we conducted two rounds of vapor intrusion assessments and one sewer gas assessment for the former Econo Care Cleaners. Generally, these results, as shown on the attached **Table 1** show, were below their respective screening levels. One sample from 930 Derby contained TCE above its screening level. After receiving the results, EnviroForensics resurveyed chemicals from within the home. One product was identified as containing trichloroethene (TCE), and it was immediately removed from the home. Because TCE is not readily found as a constituent of concern at the site and a product was identified from the home with an exceedance of vapor action levels, it appears very unlikely there is a vapor risk scenario for the properties being assessed.

To confirm the product was the source of indoor air detections and that there is not likely a vapor risk, EnviroForensics developed this extended vapor intrusion assessment based on the previous vapor results and WDNR Guidance Documents RR-800 and RR-649. We propose to expand the scope of the preferential pathway evaluation from the two previously sampled manholes to include five (5) manholes. The additional sample locations will allow monitoring of up- and down-gradient sewer conditions contributing to potential vapor encroachment conditions and identifying or eliminating other properties for vapor intrusion assessments. **Figure 1** presents the sample locations.

Rather than collecting a grab sample that shows only a short snapshot of the conditions in the sewer, we recommend using Beacon<sup>®</sup> passive adsorbent samplers for a 28-day interval. Deploying a corresponding indoor air sample at each of the four (4) previously sampled structures allows for overlapping vapor data and potential sewer sources within the properties previously investigated. In addition, we propose a single-day 8-hour passive sewer sample from the sewer manholes on the same day as a sanitary sewer cleanout, sump pump crock, and sub-slab sampling from within each structure. The grab sample from the sewer

cleanout and the sub-slab will correlate with the sewer main conditions during the sample day. This plan will depend on coordinating all sampling locations on a single day. <u>Assistance from the</u> <u>WDNR may be necessary for 1410 Webster as the owner was difficult for the first round and did</u> <u>not cooperate for the second round.</u> The sampling plan for all locations is summarized below.

Sample Location	Summa Canister Grab Samples	Beacon Passive Samples
	3 – One within the sanitary line, one	2 – One 28-day sample from
926 Derby Lane	from the sump, and one SSV	basement and 1 <sup>st</sup> floor each
	3 – One within the sanitary line, one	2 - One 28-day sample from
930 Derby Lane	from the sump, and one SSV	basement and 1 <sup>st</sup> floor each
	2 – One within the sanitary line and	
1404 S. Webster Lane	one SSV	1 - 28-day sample
	3 – One within the sanitary line, one	2 -One 28-day sample from
1410 S. Webster Lane	from the sump, and one SSV	basement and 1 <sup>st</sup> floor each
Webster Manhole #1		
(previously sampled)	None	2 - One 28 day and one 8 hour
Webster Manhole #2		
(upgradient)	None	2 - One 28 day and one 8-hour
Derby Lane Manhole #1		
(previously sampled)	None	2 - One 28 day and one 8-hour
Derby Lane Manhole #2	None	2 - One 28 day and one 8-hour
Derby Lane Manhole #3	None	2 - One 28 day and one 8-hour

Please let me know if you have any questions.

Rob Hoverman, Northern Midwest Regional Director EnviroForensics<sup>®</sup> | 414.630.0060

From: Rob Hoverman
Sent: Monday, November 7, 2022 9:23 AM
To: Schultz, Josie M - DNR <josie.schultz@wisconsin.gov>
Cc: Lee Amundson <lee.amundson@ki.com>
Subject: RE: 1404 S Webster

Josie,

I've attached the data tables, groundwater flow map, and a figure with all groundwater data.

Let me know if you have any immediate questions.

Rob Hoverman, Northern Midwest Regional Director EnviroForensics<sup>®</sup> | 414.630.0060 From: Schultz, Josie M - DNR <<u>josie.schultz@wisconsin.gov</u>> Sent: Wednesday, November 2, 2022 3:31 PM To: Rob Hoverman <<u>rhoverman@enviroforensics.com</u>> Cc: Lee Amundson <<u>lee.amundson@ki.com</u>> Subject: 1404 S Webster

Rob,

Thank you for the conversation this afternoon regarding the status of the 1404 S Webster site, BRRTS # 02-05-514372. As mentioned during the call, DNR is requesting you proceed with resampling of 930 S Derby and submit a workplan as soon as possible as there is an acute health risk concern with the TCE that was detected in indoor air. This should be performed concurrently with the resampling and expansion of the sanitary sewer investigation, and resampling of the other buildings. I'm also requesting submittal of the groundwater sampling results to the DNR.

Please let me know if you have any questions or concerns moving forward.

Thanks, Josie

We are committed to service excellence. Visit our survey at <u>http://dnr.wi.gov/customersurvey</u> to evaluate how I did.

Josie M. Schultz Hydrogeologist – Northeast Region Remediation and Redevelopment Team Wisconsin Department of Natural Resources 2984 Shawano Avenue, Green Bay, WI 54313-6727 Cell Phone: 920-366-5685 Josie.Schultz@Wisconsin.gov







Legend Property boundary Underground sanitary utility line Arrow for flow direction Structure to be assessed for vapor intrusion risk

SSG-1 🋞 Proposed sewer gas sample location

VAPOR INTRUSION ASSESSMENT LOCATIONS				
1404 South Webster Avenue Green Bay, Wisconsin				
	Figure			
ENVIRO <b>erensics</b>	1			
/	Project			
825 North Capitol Avenue  Indianapolis, IN 46204 EnviroForensics.com	200030			

## TABLE 1VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY

Former Econo Care Cleaners 1404 South Webster Avenue, Wisconsin

trans-1,2-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene Sample Sample Sample Trichloroethene Address Vinyl Chloride Identification Location Date **INDOOR/OUTDOOR AIR Residential Vapor Action Level** 2.1 1.7 42 NE NE **Small Commercial Vapor Action Level** 180 8.8 NE 180 28 <0.278 8/19/2021 <0.237 <0.197 <0.231 <0.148 IA-1/AMB-1 Zone 1 2/23/2022 <3.19 <1.07 <19.8 <39.6 <1.28 8/19/2021 <0.278 <0.237 < 0.197 < 0.231 <0.148 IA-2/AMB-2 Zone 4 2/23/2022 <3.19 <1.07 <19.8 <39.6 <1.28 1324 S Webster Kitchen Kitchen 9/16/2021 <2.3 <1.9 NA NA NA Play Area 9/16/2021 Play Area <2.3 <1.9 NA NA NA Outdoor Outdoor 9/16/2021 <2.3 <1.9 NA NA NA 1404 S Webster 2/23/2022 <3.19 <1.07 <19.8 <39.6 <1.28 IA-1 **Back Hallway** 4/12/2022 < 0.13 0.66 J 0.34 J < 0.30 <0.26 IA-B Basement 8/2/2022 1.0 J <0.29 <0.29 <0.25 <0.13 926 Derby Spare 4/12/2022 0.52 J < 0.30 < 0.30 1.4 <0.13 IA-1 Bedroom 8/2/2022 3.1 <0.29 <0.29 < 0.25 < 0.13 2/24/2022 <3.19 <1.07 <19.8 <39.6 <1.28 IA-B Basement 8/25/2022 3.2 5.2 <0.28 <0.25 < 0.13 2/24/2022 <3.19 <1.07 <19.8 <39.6 <1.28 930 Derby IA-1 1st Floor 8/25/2022 2.3 2.9 < 0.38 <0.81 <1.28 2/24/2022 <3.19 <1.07 <19.8 <39.6 <1.28 IA-2 2nd Floor 8/25/2022 <0.13 2.9 2.8 < 0.38 <0.81 IA-B Basement 2/25/2022 <3.19 <1.07 <19.8 <39.6 <1.28 1410 S Webster <19.8 IA-1 1st Floor 2/25/2022 <3.19 <1.07 <39.6 <1.28 IA-2 2nd Floor 2/25/2022 <3.19 <1.07 <19.8 <39.6 <1.28 Outdoor Air OA Outside 2/24/2022 <3.19 <1.07 <19.8 <39.6 <1.28 **SUB-SLAB VAPOR Residential Vapor Risk Screening Level** 1,400 70 NE NE 57 Small Commercial Vapor Risk Screening Level 5,800 290 5,800 NE 930 VP-1 Between Zone 8/19/2021 3.5 <0.237 < 0.197 <0.231 <0.148 <31.9 SSV-1 2/23/2022 <10.7 <396 <12.8 3 & 4 <198 1324 S Webster Between Zone VP-2 8/19/2021 0.61 J <0.237 <0.197 <0.231 <0.148 SSV-2 <198 <396 <12.8 1&2 2/23/2022 133 <10.7 1404 S Webster SSV-1 <12.8 Closet 2/23/2022 <31.9 <10.7 <198 <396 4/12/2022 44.0 5.4 < 0.39 <0.33 < 0.17 926 Derby SSV-1 Basement 8/2/2022 < 0.38 <0.33 < 0.17 323 3.7 930 Derby <12.8 SSV-1 Basement 2/24/2022 111 <10.7 <198 <396 8/25/2022 <0.38 930 Derby 128 1.8 <0.81 <0.16 SSV-1 Basement <31.9 2/25/2022 <10.7 <198 <396 <12.8 Storage Closet 1410 S Webster SSV-1 8/2/2022 4.4 0.70 J <0.32 <0.16 368 SUMP VAPOR **Residential Vapor Risk Screening Level** 1,400 70 NE NE 57 930 Derby SUMP Basement 2/24/2022 <10.7 <198 <31.9 <396 <12.8 SANITARY SEWER GAS **Residential Vapor Risk Screening Level** 1,400 70 NE NE 57 **Small Commercial Vapor Risk Screening Level** NE 5,800 930 290 5.800 Webster Ave 2/24/2022 S Webster Ave <31.9 <10.7 <12.8 SSG-1 <198 <396 Derby Lane 2/24/2022 SSG-2 Derby Ln 690 32.8 <198 <396 <12.8

Notes:

Vapor Action and Risk Screeing Levels are calculated according to WDNR Publication RR-800 and subsequent vapor intrusion guidance

Results reported in micrograms per cubic meter ( $\mu g/m^3$ )

Samples analyzed according to EPA Method TO-15

NE = Screening/action level not established

Bolded values are above detection limits

Bolded and shaded values exceed the applicable screening or action level

J = Analyte concentration detected between the laboratory Reporting Limit and the laboratory Method Detection Limit

