From: Jeanne Tarvin <jtarvin@ramboll.com>
Sent: Friday, July 23, 2021 10:31 AM
To: McKnight, Kevin - DNR
Cc: Hudson Green; Paul Lindquist; Susan Petrofske; Tom Nordgren
Subject: BRRTS: 02-08-520157 & 06-08-426946 (Former Mirro Plant 20)
Attachments: Table 1. Sump Vapor Analytical Results.pdf

Kevin,

We wanted to provide you with a brief status update regarding the Former Mirro 20 site in Chilton. On July 7th and 8th, Ramboll staff were on site to perform the initial basement subfloor drainage system and sump vapor assessment activities. During the site visit, samples were collected of the sump water, sump vapor, and solids present within the subfloor drainage system as described in the WDNR approved Site Investigation Work Plan and subsequent communications. A formal data transmittal will be prepared and submitted to the WDNR and property owner in accordance with NR 716.14 following receipt of the various sampling results from this event.

In the interim, we wanted to provide you with the recently received sump vapor sample analytical results. A copy of the laboratory analytical report and draft table for the sump vapor samples is attached for your reference. As you may recall, two sumps (East Sump and West Sump) were identified for sampling during this site visit. At WDNR's direction, Ramboll collected sump vapor samples rather than indoor air samples (as originally proposed in the Site Investigation Work Plan) as part of this assessment. Prior to sampling, the sumps were sealed using plastic sheeting. The plastic sheeting was secured to the sumps and surrounding concrete floor using duct tape. Sump vapors were allowed to equilibrate for at least 18-hours prior to sample collection. Vapor samples were collected in a 6-liter stainless steel Summa canister and submitted for CVOC and PVOC analysis (EPA Method TO-15). Given the vapor samples were collected in temporarily sealed sumps, the sump vapor sample results are not considered representative of indoor air quality within the large basement or sub-slab vapor quality. The plastic sheeting placed over the sump openings was left in place, including temporary sheeting added to the Large Sump that was not sampled during this event to assess the validity of sealing. The basement remains unoccupied by the building owner and/or current tenants. Two large permanent wall fans installed near the east sump that exhaust to the building exterior were in operation at the time of the site visit. We will be reviewing these results in the context of the pending sump water sample results, upcoming WDNR approved site investigation activities, and the well documented area wide CVOC issues associated with open BRRTS cases surrounding the site (i.e., former Larson's Cleaners). As you may recall, the area-wide PCE groundwater plume from the Larson's Cleaners extends onto the southeastern portion of the subject site.

Please let us know if you have any questions. I am going to give you a quick call to discuss these results.
Regards, Jeanne

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Table 1. Sump Vapor Analytical Results

Former Mirro Plant No. 20
44 Walnut Street, Chilton, WI
BRRTS No.: 02-08-520157 (ERP) & 06-08-426946 (VPLE)

DRAFT

			PVOC	PVOC	PVOC	PVOC	PVOC	PVOC	PVOC	PVOC	PVOC	PVOC	CVOC	CVOC	CVOC	CVOC	CVOC	CVOC	CVOC	CVOC
Sample Location	Sample Type	Sample Date	Benzene	Ethylbenzene	Toluene	Xylene, o	Xylenes, m + p	Xylenes, Total	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Methyl-tert-butyl-ether	Naphthalene	1,1,1-Trichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
		Reporting Units:	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3
VRSL Large Commercial/Industrial:			**1,600**	**4,900**	**2,200,000**	**44,000**	**44,000**	**44,000**	**26,000**	**26,000**	**47,000**	**360**	**2,200,000**	**88,000**	**470**	**NS**	**18,000**	**NS**	**880**	**2,800**
VAL Large Commercial/Industrial:			16	49	22,000	440	440	440	260	260	470	3.6	22,000	880	4.7	NS	180	NS	8.8	28
EAST SUMP	Sump Vapor	07/08/2021	0.93	0.46 U	2.5	0.61 J	2.6 J	3.2 J	1.4 J	0.63 J	0.19 U	4.4	17.3	62.1	0.65 J	7,760	3,150	287	1,470	385
WEST SUMP	Sump Vapor	07/08/2021	0.18 U	0.49 U	2.2	0.74 J	2.9	3.6 J	2.0	0.71 J	0.20 U	4.6	6.1	0.22 U	0.31 U	0.98 J	1.5	0.27 U	0.43 J	0.14 U
EAST SUMP CERT#2767	QA/QC	07/13/2021	0.057 U	0.15 U	0.12 U	0.14 U	0.32 U	0.32 U	0.18 U	0.14 U	0.063 U	1.1 U	0.093 U	0.069 U	0.097 U	0.098 U	0.15 U	0.084 U	0.098 U	0.043 U
WEST SUMP CERT#0842	QA/QC	07/13/2021	0.057 U	0.15 U	0.12 U	0.14 U	0.32 U	0.32 U	0.18 U	0.14 U	0.063 U	1.1 U	0.093 U	0.069 U	0.097 U	0.098 U	0.15 U	0.084 U	0.098 U	0.043 U

[O:MGP 7/21/21, C: LDH 7/21/2021]

Notes:
Sump vapor samples were collected from basement sumps sealed with plastic sheeting for 18-hours prior to sample collection. These sump vapor samples are not considered representative of indoor air or sub-slab conditions within the basement.
The Sub-Slab VRSL and Indoor Air VAL are, thus, provided here as points of reference, only.

J = Estimated concentration
U = Concentration was not detected above the reported limit

Acronyms:
µg/m³ = micrograms per cubic meter
BRRTS = Bureau for Remediation and Redevelopment Tracking System (Wisconsin Department of Natural Resources (WDNR))
CVOC = Chlorinated Volatile Organic Compound
PVOC = Petroleum Volatile Organic Compound
VAL = Vapor Action Level for indoor air
VRSL = Vapor Risk Screening Level (= VAL/Attenuation Factor) for subsurface samples

VALs and VRSLs based on U.S.EPA Regional Screening Level Tables; see http://dnr.wi.gov/topic/brownfields/vapor.html for more details.