From:	Gross, Stu
To:	Graham, Joseph R - DNR
Cc:	Lennie, Brian; Christian Zuidmulder; Cull, Whitney; Morberg, Kyle
Subject:	FW: Sampling Summary and Next Steps - Petroleum Related Sheen, C. Reiss Dock Property, Superior; BRRTS # 02-16-589248
Date:	Wednesday, November 27, 2024 12:43:15 PM
Attachments:	image001.png image002.png image003.png

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Good afternoon Joe-

A brief update. Stantec personnel were on-site November 20th and 25th to monitor the ditch and gauge the presence of a sheen on water within the ditch. No sheen was observed during either visit. We intend to complete additional observations following the Thanksgiving holiday break.

Representative Photo from November 20th event (taken at location where former sheen was observed)

Representative Photo from November 25th event (taken at location where former sheen was observed)

Feel free to reach out with any questions. Thank you.

Stu Gross PG
BC1937 Practice Lead/Senior Project Manager

From: Gross, Stu
Sent: Friday, November 15, 2024 1:26 PM
To: Graham, Joseph R - DNR <Joseph.Graham@wisconsin.gov>
Cc: Christian Zuidmulder <Christian.Zuidmulder@Thecreiss.com>; Lennie, Brian <Brian.Lennie@stantec.com>; Morberg, Kyle <kyle.morberg@stantec.com>; Cull, Whitney <Whitney.Cull@stantec.com>
Subject: Sampling Summary and Next Steps - Petroleum Related Sheen, C. Reiss Dock Property, Superior; BRRTS # 02-16-589248

Good afternoon Joe-
This email is intended to provide the results of recent water sampling activities and provide insight into planned activities associated with the presence of a petroleum sheen in the railroad ditch at the C. Reiss Dock Property in Superior.

On November 4, 2014, a water sample was collected from ponded water within the ditch located along the west railroad ditch. The approximate sampling is at Station 16+00 (based on Figure 7 *Groundwater Elevation Detail*. The sample was collected from ponded water within the ditch and immediately transferred to laboratory provided containers for analysis of petroleum volatile organic compounds (PVOCs) plus naphthalene. The results of the analysis are presented below. Based on the sample results, benzene, naphthalene, and trimethylbenzenes exceed established Chapter NR140 Wisconsin Administrative Code preventive action limits (PALs) for each respective compound.

Table 1: Summary of Water Analysis						
	Collection Date	*Parameter*	*Units*	*Result*	*PAL*	*ES*
Seep 1	11/4/2024	Benzene	ug/l	1.8	*0.5*	*5*
		Ethylbenzene	ug/l	95.1	*140*	*700*
		MTBE	ug/l	<1.0	*12*	*60*
		Naphthalene	ug/l	37.7	*10*	*100*
		Toluene	ug/l	39.7	*160*	*800*
		Total Trimethylbenzenes	ug/l	138.8	*96*	*480*
		Xylene	ug/l	201	*400*	*2000*
			ug/l	= micrograms per liter		
				=exceeds established PAL		

Earlier this week, another site visit occurred. A sheen remained on the water surface within the ditch but appeared to be limited in extent to the area of origin. Since the sheen appears to be localized, water within the ditch is ponded, and the ditch is not designed to flow beyond its current geometry except during periods of heavy rainfall, we intend to continue monitoring the ditch on a weekly basis through November. If the sheen remains throughout this time, we intend to construct a small clay covering on the downward side of the ditch, approximately 20 feet from the origin of the sheen, to prevent it from migrating further to the north. Either Stantec or on-site personnel would continue monitoring the ditch on a weekly basis. During each monitoring event, the water level within the ditch would be gauged along with any differences in sheen thickness. Weekly email updates would be provided to WDNR and include current photographs. If measurable free product is observed within the ditch at any time, a more active approach to recover the product and address its origin would occur. This could include reconstructing, elevating, and additional lining of the ditch with clay to prevent water from entering from the underlying sand beneath the ditch.

We have already implemented routine ditch observations and will begin providing updates. In the interim, please contact us with any questions. Thank you.

Stu Gross PG
BC1937 Practice Lead/Senior Project Manager

Direct: 262-643-9159
Mobile: 414-526-3974
stu.gross@stantec.com

Stantec
12080 Corporate Parkway Suite 200
Mequon WI 53092-2649 US

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