

From: Erica Klingfus <eklingfus@msa-ps.com>
Sent: Tuesday, August 9, 2022 12:52 PM
To: Herbst, Barbara J - DNR
Subject: RE: Smith's Union 76 TSSA
Attachments: 12036004 A.2 Soil Data Table.pdf

Follow Up Flag: Follow up
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Hi Barb – Here's the table with data from the TSSA along with data from nearby soil sample locations G-8 and SB-2 collected during previous investigation activities. Concentrations detected during TSSA sampling are lesser than/similar to sample results from the previous investigation samples collected from similar depths. Let me know if there are any other questions or if there's anything else you think would be of help.

Thanks!

Erica

From: Herbst, Barbara J - DNR <barbara.herbst@wisconsin.gov>
Sent: Monday, August 8, 2022 10:57 AM
To: Erica Klingfus <eklingfus@msa-ps.com>
Subject: RE: Smith's Union 76 TSSA

Thanks Erica. This will indeed help, and so would combining the data. I appreciate the effort. Thank you!
Barb

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Barb Herbst

Phone: (715) 492-1891

Barbara.Herbst@Wisconsin.gov

From: Erica Klingfus <eklingfus@msa-ps.com>
Sent: Monday, August 8, 2022 10:43 AM
To: Herbst, Barbara J - DNR <barbara.herbst@wisconsin.gov>
Subject: RE: Smith's Union 76 TSSA

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Hi Barb – I've attached an overlay map with previous soil sampling locations/estimated extent of soil and groundwater contamination along with the most recent soil sampling locations. If it would be helpful for me to compile data from the TSSA/previous report into tables, let me know.

Thanks,

Erica

From: Erica Klingfus
Sent: Wednesday, August 3, 2022 9:06 AM
To: Herbst, Barbara J - DNR <barbara.herbst@wisconsin.gov>
Subject: RE: Smith's Union 76 TSSA

Hi Barb - thanks for your quick response, I will have one put together and sent over.

From: Herbst, Barbara J - DNR <barbara.herbst@wisconsin.gov>
Sent: Wednesday, August 3, 2022 9:04 AM
To: Erica Klingfus <eklingfus@msa-ps.com>
Subject: Smith's Union 76 TSSA

Hi Erica,

I am in receipt of the TSSA report for the Smith's Union 76 tank found during site paving. As a release is noted in the soil, this TSSA will go to the review committee. In order to relate this tank and the soil results found, it would be helpful to place this tank data/location/samples on an overlay of the residual contamination maps of the closed site. Basically the TSSA is asking for a NAR, so some data to support that would be required.

I will put this on the review date for the end of August/early September.

Thank you!

Barb

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

Barbara J. Herbst, P.G., C.P.G.

Hydrogeologist

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Table A.2. Soil Analytical Table
Douglas County Forestry Department
Solon Springs, WI
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SAMPLE/BORING #	Nearby Samples from Previous Investigation					Soil RCLs (mg/kg)	December 2018 Data
	G-8-1	G-8-2	G-8-3	G-8-5	SB-2		
DEPTH to Water Table (ft BGS)							
Date Collected	9/19/2012	9/19/2012	9/19/2012	9/19/2012	10/22/1990		
DEPTH (ft BGS)	3.5	8.0	12.0	17.0	17.0		
H2O							
SOIL TYPE							
	Soil Concentrations in mg/kg (or ppm)					Non-Industrial Direct Contact	Soil to GW
Benzene	<0.025	<i>0.212</i>	<0.025	<i>0.123</i>	<i>0.014</i>	1.6	0.0051
Toluene	<0.025	0.500	0.0311	<0.025	0.007	818	1,1072
Ethylbenzene	<0.025	0.530	<0.025	<0.025	0.006	8.02	1.57
Total Xylenes	<0.075	3.6	0.151	<0.075	0.09	260	3.96
Methyl tertiary butyl ether (MTBE)	<0.025	<0.025	<0.025	<0.025	--	63.8	0.027
Naphthalene	<0.025	0.132	0.048	<0.025	--	5.52	0.6582
1,3,5-Trimethylbenzene	<0.025	<i>1.39</i>	0.062	0.063	--	182	1.3787*
1,2,4-Trimethylbenzene	<0.025	<i>2.44</i>	0.145	0.036	--	219	1.3787*
Lead	6.72	--	--	--	<2.5	52	27
Gasoline Range Organics	<10	24	<10	12	--		
Diesel Range Organics	--	--	--	--	--		

Exceedance Highlights:

BOLD font indicates DC RCL exceedance, and BTV exceedance for metals.

Italic font indicates GW RCL Exceedance. Groundwater quality (> NR 140 ES) may be affected when GW RCLs are exceeded.

- indicates parameter was not analyzed. Only compounds detected in at least one sample are included in table. See laboratory report for all results.

* = standard is for total analytes of compound

Table A.2. Soil Analytical Table
Douglas County Forestry Department
Solon Springs, WI
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SAMPLE/BORING #	TSSA Samples						Soil RCLs (mg/kg)	December 2018 Data
	S-1	S-2	S-3	S-4	B-1	B-2		
DEPTH to Water Table (ft BGS)								
Date Collected	7/12/2022	7/12/2022	7/12/2022	7/12/2022	7/12/2022	7/12/2022		
DEPTH (ft BGS)	6	6	6	6	8	8		
H2O								
SOIL TYPE								
	Soil Concentrations in mg/kg (or ppm)						Non-Industrial Direct Contact	Soil to GW
Benzene	<i>0.151</i>	<i>0.0370</i>	<0.0271	<0.0373	<0.0274	<0.0267	1.6	0.0051
Toluene	<0.269	<0.294	<0.271	<0.373	<0.274	<0.267	818	1.1072
Ethylbenzene	0.0617	0.0839	<0.0271	<0.0373	<0.0274	<0.0267	8.02	1.57
Total Xylenes	0.2522	1.289	0.156	<0.112	0.354	<0.080	260	3.96
Methyl tertiary butyl ether (MTBE)	<0.0537	<0.0588	<0.0543	<0.0747	<0.0549	<0.0533	63.8	0.027
Naphthalene	<0.269	0.411	<0.271	<0.373	<0.274	<0.267	5.52	0.6582
1,3,5-Trimethylbenzene	0.0740	0.943	0.0864	<0.0747	0.152	<0.0533	182	1.3787*
1,2,4-Trimethylbenzene	0.189	1.44	0.121	<0.0747	0.359	<0.0533	219	1.3787*
Lead	--	--	--	--	--	--	52	27
Gasoline Range Organics	<5.37	19.2	6.33	<7.47	7.95	<5.33		
Diesel Range Organics	--	--	--	--	--	--		

Exceedance Highlights:

BOLD font indicates DC RCL exceedance, and BTV exceedance for metals.

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