

Smith, Ralph N - DNR

From: Jason Powell <jasonp@metcohq.com>
Sent: Tuesday, July 17, 2018 2:13 PM
To: Smith, Ralph N - DNR; Loveland, Vicky
Subject: RE: Solon Springs sites
Attachments: 3127_001.pdf; 3128_001.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Attached are the site layout maps and groundwater data tables for the Smith's Union 76 Station (Former) site. New monitoring wells MW-9 and MW-10 showed no laboratory detects. Also, our original down-gradient wells MW-7 and MW-8 also showed no laboratory detections during the last sampling event conducted on 6/20/18.

Our clients private well, forestry service private well, and Lucias County Park private well were all sampled. We could not collect a sample from the daycare as the daycare manager would not allow us to sample even though the property owner had given access to sample at 6:00 P.M., however the property owner could not be contacted the day of sampling. We also could not collect a private well sample at 9312 E. Main St. as we got no response from the property owners and the house appears vacant.

We will be collecting a second round of groundwater in September followed by the report.

Any questions let me know.
Thanks,

Jason Powell

METCO - Staff Scientist
jasonp@metcohq.com / 608.781.8879
709 Gillette Street - Suite 3, La Crosse WI 54603
www.metcohq.com

From: Smith, Ralph N - DNR <Ralph.Smith@wisconsin.gov>
Sent: Tuesday, July 17, 2018 1:39 PM
To: Loveland, Vicky <Vicky.Loveland@aptim.com>
Cc: Jason Powell <jasonp@metcohq.com>
Subject: RE: Solon Springs sites

Hi Vicky,

It's been a nice summer – yes, and I hope the same can be said for yourself as well. Yes, I learned from METCO that the wells were installed and re-surveyed. They were unable to gain access to potable wells to sample those for the source property on Smith's Union 76 and for the day care property. I'm copying Jason Powell with METCO on this email and if additional information or corrections are needed with this information – he should be able to clarify or confirm things.

Take Care,

We are committed to service excellence.

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

Ralph N. Smith

Northern Region Hydrogeologist
Remediation and Redevelopment Program
Division of Environmental Management
Wisconsin Department of Natural Resources
101 S. Webster St., PO Box 7921
Madison, WI 53707-7921
Phone: (608) 261-6543
Fax: (608) 267-7646
Ralph.Smith@wisconsin.gov



From: Loveland, Vicky [<mailto:Vicky.Loveland@aptim.com>]
Sent: Tuesday, July 17, 2018 1:26 PM
To: Smith, Ralph N - DNR <Ralph.Smith@wisconsin.gov>
Subject: Solon Springs sites

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Victoria L. Loveland
Engineer 3
Phone: 715-432-6152
Fax: 225-987-8573
Vicky.loveland@aptim.com

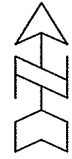
APTIM
8725 Rosehill Road
Suite 450
Lenexa, KS 66215

B.I.b. DETAILED
SITE MAP
SMITH'S UNION 76 STATION



SOLON SPRINGS,
WISCONSIN

DRAWN BY: ED DATE: 06/27/2002
UPDATED BY: BK DATE: 1/08/2006

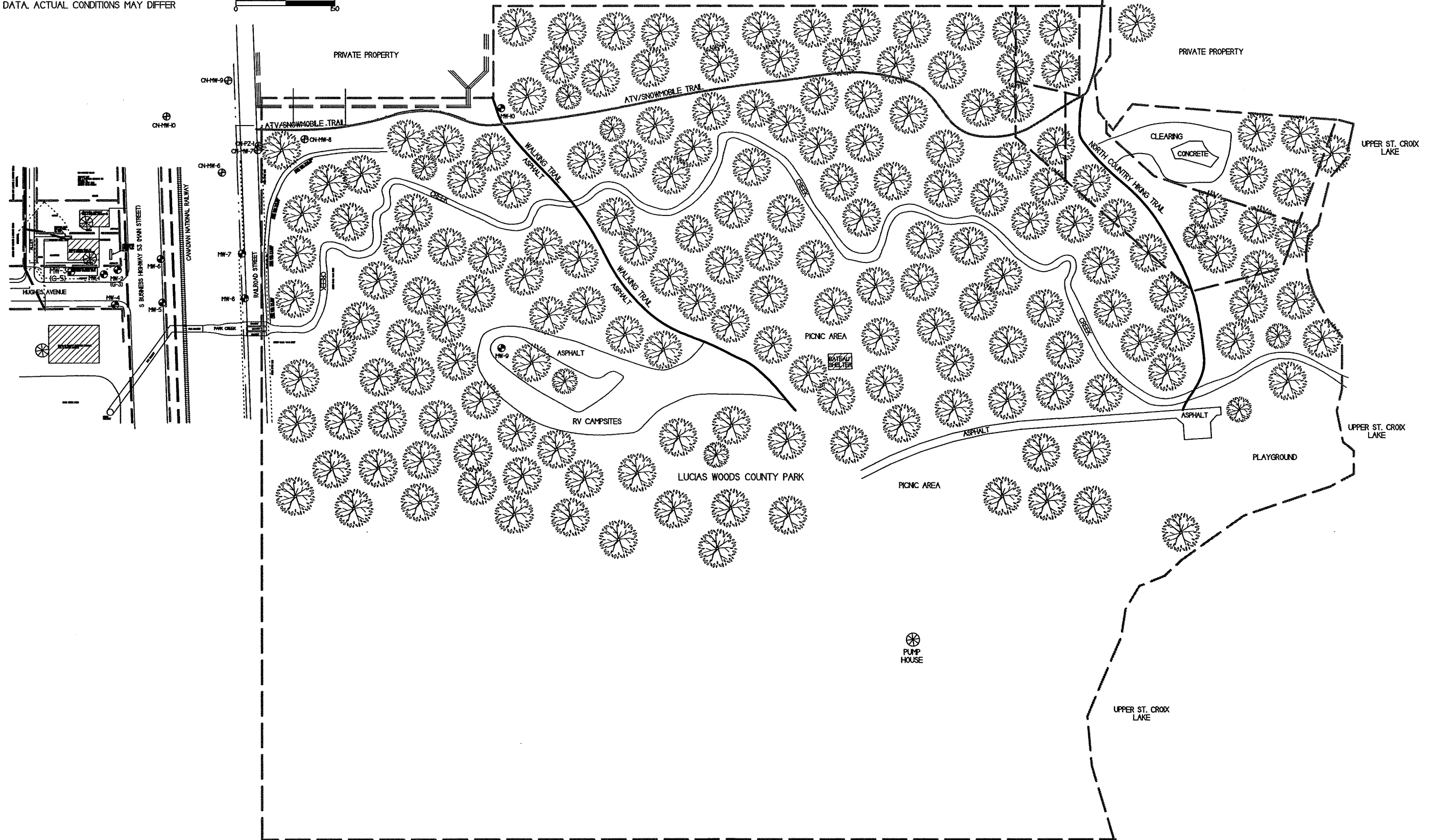


- ⊕ - MONITORING WELL LOCATION
- ⊕ - MONITORING WELL LOCATION (OPEN SOLON SPRINGS INVESTIGATION LUST SITE)
- ⊗ - POTABLE WELL LOCATION
- ⊕ - PROPOSED MONITORING WELL LOCATION

- ≡≡≡≡≡ - OVERHEAD LINES
- - BURIED ELECTRIC
- ⋯⋯⋯ - TELEPHONE LINE
- - NATURAL GAS
- - - - - - SANITARY SEWER
- - PROPERTY LINE

NOTE: INFORMATION BASED ON AVAILABLE
DATA. ACTUAL CONDITIONS MAY DIFFER

SCALE: 1 INCH = 150 FEET



B.I.b. DETAILED SITE MAP

SMITH'S UNION 76 STATION

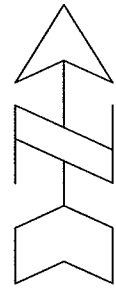


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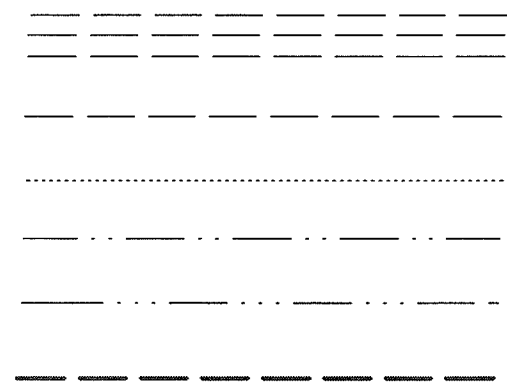
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SOLON SPRINGS,
WISCONSIN

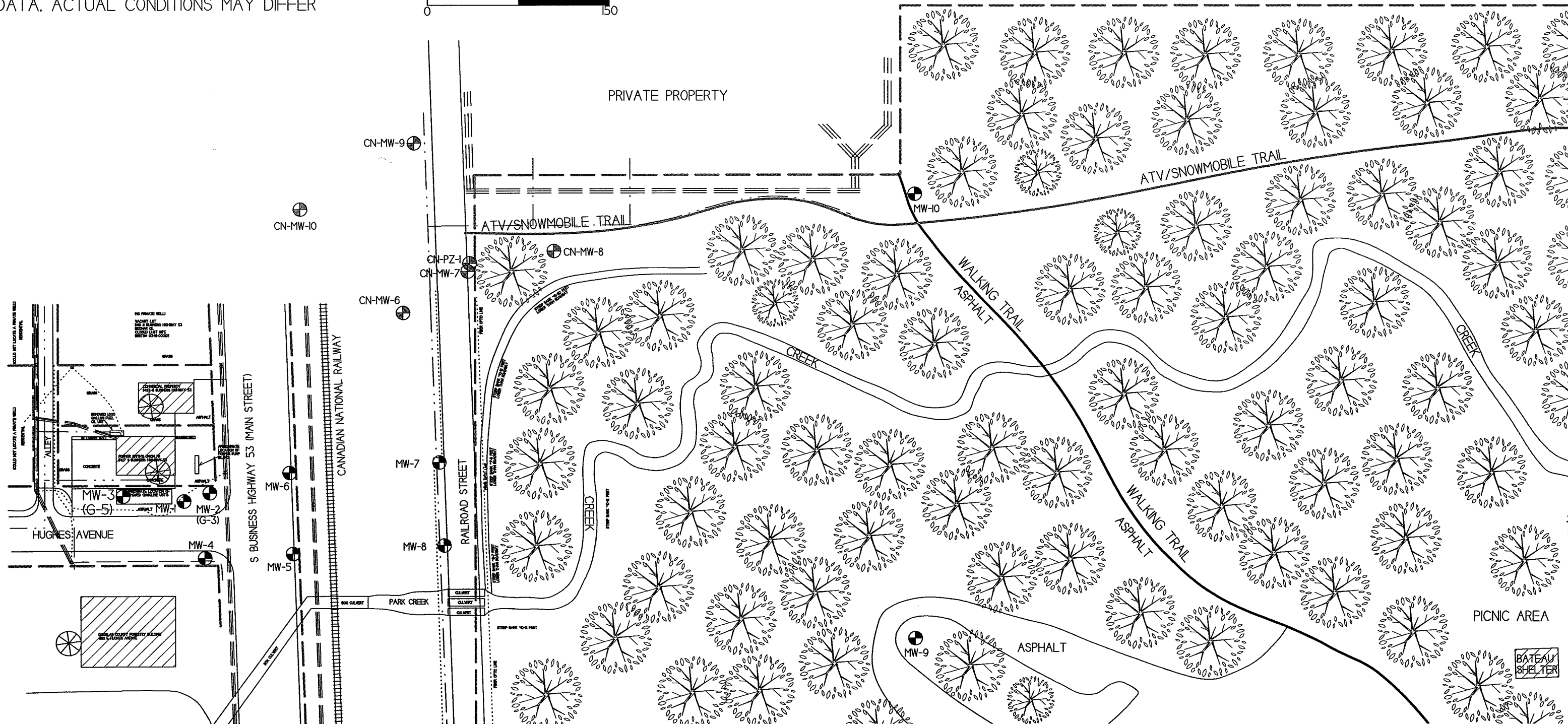
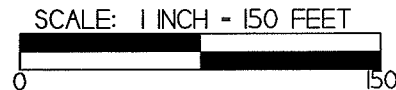
DRAWN BY: ED DATE: 06/27/2012
UPDATED BY: BK DATE: 11/08/2016



- ⊕ = MONITORING WELL LOCATION
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- ⊗ = POTABLE WELL LOCATION
- ◐ = PROPOSED MONITORING WELL LOCATION



NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER



Smith, Ralph N - DNR

From: Harris, Jon <jharris@douglascountywi.org>
Sent: Tuesday, July 17, 2018 4:10 PM
To: Smith, Ralph N - DNR
Subject: RE: Solon Springs sites

Thanks Ralph! Good to hear from you, hope all is well.

Looks like we are safe here at the office and in the park. The "plume" looks like it hasn't changed much from what was reported previously.

I haven't heard anything from the building owner since you came up for our meeting... can't remember how long ago that was so I'm assuming it's still an open case.

Thanks again for sharing and have a good rest of the week.

-Jon

From: Smith, Ralph N - DNR [mailto:Ralph.Smith@wisconsin.gov]
Sent: Tuesday, July 17, 2018 3:58 PM
To: Harris, Jon
Subject: FW: Solon Springs sites

Hi Jon,

Good Afternoon. Here is this groundwater raw data for areas of concern to Douglas County Forestry Dept. which I just received – FYI. Any questions or concerns, call anytime.

We are committed to service excellence.

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

Ralph N. Smith

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A.1 Groundwater Analytical Table
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well MW-1

PVC Elevation = 1076.09 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
10/02/12	1061.47	14.62	<0.7	<0.5	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
11/07/13	1061.44	14.65	1.2	44	1.36	<0.37	<1.2	2.22	1.43-2.26	1.75-2.56
02/19/14	COULD NOT LOCATE – UNDER SNOW PILE									
05/21/14	1062.44	13.65	<0.7	52	0.88	<0.37	<1.2	1.38	<1.69	<2.41
06/11/15	1062.31	13.78	NS	3.9	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
09/14/15	1062.00	14.09	NS	42	<0.73	<0.49	<2.6	1.52	<1.51	<2.06
12/10/15	1061.58	14.51	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
03/09/16	1061.65	14.44	NS	22.3	<0.73	<0.49	<2.6	0.98	<1.51	<2.06
06/20/18	1063.18	12.91	NS	6.0	<0.53	<0.57	<1.7	<0.45	<1.48	2.19
ENFORCEMENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion

ns = not sampled

Note: Elevations are presented in feet mean sea level (msl).

Well MW-2

PVC Elevation = 1076.01 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
10/02/12	1061.37	14.64	<0.7	<25	228	<40	<105	40	1500	1310
11/07/13	1061.36	14.65	0.9	3.14	22.7	<0.37	6	3.2	121	118
02/19/14	1061.02	14.99	<0.7	23.5	138	<3.7	54	13.8	775	740
05/21/14	1062.31	13.70	5.9	52	330	<18.5	65	<40	1270	1800
06/11/15	1062.09	13.92	1.3	20.7	153	<4.9	51	12	576	790
09/14/15	1061.91	14.10	1.5	24.7	309	<4.9	98	18.3	1162	1730
12/10/15	1061.45	14.56	1.4	<4.4	264	<11	70	7.3	923	1390
03/09/16	1061.55	14.46	<0.8	25.8	128	<4.9	38	14.6	550	745
06/20/18	1063.05	12.96	NS	34	850	<5.7	340	23	3040	5290
ENFORCEMENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion

ns = not sampled

Note: Elevations are presented in feet mean sea level (msl).

Well MW-3

6-22-18 Resurveyed

1076.56

PVC Elevation = 1076.55 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
10/02/12	1062.92	13.63	<0.7	<0.5	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
11/07/13	1062.87	13.68	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
02/19/14	1062.45	14.10	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
05/21/14	1063.86	12.69	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
06/11/15	1063.51	13.04	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
09/14/15	1063.35	13.20	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
12/10/15	1063.04	13.51	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
03/09/16	1063.05	13.50	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
06/20/18	1064.47	12.09	NS	<0.22	<0.53	<0.57	<1.7	<0.45	<1.48	<1.58
ENFORCEMENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion

ns = not sampled

Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well MW-4 6-22-18 Resurveyed 1075.11
PVC Elevation = 1075.13 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
10/02/12	1061.59	13.54	<0.7	<0.5	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
11/07/13	1061.59	13.54	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
02/19/14	COULD NOT LOCATE									
05/21/14	1062.56	12.57	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
06/11/15	1062.24	12.89	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
09/14/15	1062.25	12.88	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
12/10/15	1061.66	13.47	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
03/09/16	1061.61	13.52	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
06/20/18	1064.00	11.11	NS	<0.22	<0.53	<0.57	<1.7	<0.45	<1.48	<1.58
ENFORCEMENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion

ns = not sampled

Note: Elevations are presented in feet mean sea level (msl).

Well MW-5 6-22-18 Resurveyed 1074.48
PVC Elevation = 1074.47 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
10/02/12	1061.35	13.12	9.8	<5	34	<8	24.6	<5.3	1002	179-187
11/07/13	1061.35	13.12	2.4	0.64	4.8	<0.37	2.44	<0.8	36.4	23.49
02/19/14	1060.67	13.80	2.7	<2.7	20.9	<3.7	20.2	<8	241	65-73.1
05/21/14	1062.48	11.99	<0.7	<2.7	24.8	<3.7	<12	<8	153	135-143.1
06/11/15	1062.12	12.35	1.3	4.4	34	<0.49	13.8	4.8	259	69.6
09/14/15	1061.92	12.55	2.2	8.4	152	<0.49	34	8.9	590	624.4
12/10/15	1061.31	13.16	1.7	<4.4	21.2	<11	18.1	<4.4	255	60-69
03/09/16	1061.27	13.20	1.8	5.6	26.8	<4.9	79	13.6	248	95.6
06/20/18	1063.83	10.65	NS	0.61	0.83	<0.57	<1.7	<0.45	3.72	1.54-2.12
ENFORCEMENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

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Note: Elevations are presented in feet mean sea level (msl).

Well MW-6
PVC Elevation = 1076.78 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
10/02/12	1061.03	15.75	7	2420	4700	<160	680	23200	4180	23600
11/07/13	1060.93	15.85	25.6	21.8	39	<0.37	5.9	175	39.5	182
02/19/14	1060.64	16.14	33	304	3200	<37	2540	3300	5280	14540
05/21/14	1062.13	14.65	19.3	2790	4900	<185	750	21000	4670	23800
06/11/15	1061.47	15.31	61.1	1600	5900	<49	1330	17900	10780	28800
09/14/15	1061.35	15.43	37	1800	5400	<49	990	18700	7870	26100
12/10/15	1060.98	15.80	17.5	1570	6300	<110	1240	20400	9430	28600
03/09/16	1061.23	15.55	7.4	1130	6100	<49	1180	17000	10040	29600
06/20/18	1062.43	14.35	NS	1190	3860	<5.7	650	10400	5040	24940
ENFORCEMENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

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A.1 Groundwater Analytical Table
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well MW-7 6-22-18 Resurveyed 1069.14
PVC Elevation = 1069.57 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
11/07/13	1059.77	9.80	<0.7	116	430	<2.3	134	16.6	1267	1564
02/19/14	1059.52	10.05	<0.7	23.7	49	<0.37	9.8	2.41	74	185
05/21/14	1060.78	8.79	<0.7	0.87	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
06/11/15	1060.23	9.34	NS	8.5	29.8	<0.49	12	1.09	231	111.58
09/14/15	1060.16	9.41	NS	0.81	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
12/10/15	1059.82	9.75	NS	17.2	75	<1.1	29.9	0.66	265	279.24
03/09/16	1059.98	9.59	NS	35	231	<4.9	82	30.6	875	1065
06/20/18	1061.24	7.90	NS	<0.22	<0.53	<0.57	<1.7	<0.45	<1.48	<1.58
ENFORCEMENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion

ns = not sampled

Note: Elevations are presented in feet mean sea level (msl).

Well MW-8 1064.48 (feet) (MSL)
PVC Elevation =

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
11/07/13	1058.90	5.58	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	1.56-2.19
02/19/14	COULD NOT ACCESS - WATER RUNNING OVER WELL									
05/21/14	1059.81	4.67	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	2.09-2.95	4.81
06/11/15	1059.06	5.42	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
09/14/15	1057.12	7.36	NS	<0.46	<0.73	<0.49	<2.6	<0.39	7-7.83	10.8-11.46
12/10/15	1058.87	5.61	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
03/09/16	1059.00	5.48	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
06/20/18	1060.29	4.19	NS	<0.22	<0.53	<0.57	<1.7	<0.45	5.2-5.95	4.1-4.68
ENFORCEMENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion

ns = not sampled

Note: Elevations are presented in feet mean sea level (msl).

Well MW-9 1060.38 (feet) (MSL)
PVC Elevation =

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
06/20/18	1059.98	0.40	NS	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
ENFORCEMENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion

ns = not sampled

Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well MW-10

PVC Elevation = 1069.94 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
06/20/18	1049.76	20.18	NS	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
ENFORCE MENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion

ns = not sampled

Note: Elevations are presented in feet mean sea level (msl).

Private Well 9182 E. Hughes

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
11/07/13	NM	NM	3.2	<0.24	<0.48	<0.49	<0.23	<0.24	<0.57	<0.94
02/19/14	NM	NM	<0.7	NOT SAMPLED						
05/21/14	NOT SAMPLED									
06/11/15	NM	NM	NOT SAMPLED							
09/14/15	NM	NM	NOT SAMPLED							
12/10/15	NM	NM	NOT SAMPLED							
03/09/16	NM	NM	NOT SAMPLED							
06/20/18	NM	NM	NS	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
ENFORCE MENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion

ns = not sampled

Note: Elevations are presented in feet mean sea level (msl).

Private Well 11423 S. Bus Hwy

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
11/07/13	NM	NM	<0.7	<0.24	<0.48	<0.49	<0.23	<0.24	<0.57	<0.94
02/19/14	NOT SAMPLED									
05/21/14	NOT SAMPLED									
06/11/15	NM	NM	NOT SAMPLED							
09/14/15	NM	NM	NOT SAMPLED							
12/10/15	NM	NM	NOT SAMPLED							
03/09/16	NM	NM	NOT SAMPLED							
06/20/18	NM	NM	NOT SAMPLED							
ENFORCE MENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion

ns = not sampled

Note: Elevations are presented in feet mean sea level (msl).

**A.1 Groundwater Analytical Table
Smith's Union 76 LUST Site BRRTS# 03-16-000069**

Private Well 11427 S. Bus Hwy 53

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
11/07/13	NM	NM	<0.7	<0.24	<0.48	<0.49	<0.23	<0.24	<0.57	<0.94
02/19/14	NOT SAMPLED									
05/21/14	NOT SAMPLED									
06/11/15	NM	NM	NS	<0.46	<0.73	<0.49	<2.6	0.86	<1.51	<2.06
09/14/15	NM	NM	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
12/10/15	NM	NM	NS	<0.44	<0.71	<1.1	<1.6	0.5	<3.1	<3.1
03/09/16	NM	NM	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
06/20/18	NM	NM	NS	<0.22	<0.26	<0.28	<2.1	0.82	<1.43	<0.72
ENFORCE MENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion

ns = not sampled

Note: Elevations are presented in feet mean sea level (msl).

Private Well Lucius County Park

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
06/20/18	NM	NM	NS	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
ENFORCE MENT STANDARD ES =			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL =			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion

ns = not sampled

Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
 Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well Sampling Conducted on: 06/20/18 06/20/18 06/20/18 06/20/18 06/20/18

VOC's

ENFORCEMENT STANDARD = ES – Bold	PREVENTIVE ACTION LIMIT = PAL - Italics
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Well Name	MW-9	MW-10	9182 E. Hughes	11427 S. Bus Hwy 53	Lucius County Park		
Lead, dissolved/ppb	NS	NS	NS	NS	NS	15	<i>1.5</i>
Benzene/ppb	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	5	<i>0.5</i>
Bromobenzene/ppb	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	==	==
Bromodichloromethane/ppb	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	0.6	<i>0.06</i>
Bromoform/ppb	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	4.4	<i>0.44</i>
tert-Butylbenzene/ppb	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	==	==
sec-Butylbenzene/ppb	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	==	==
n-Butylbenzene/ppb	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	==	==
Carbon Tetrachloride/ppb	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	5	<i>0.5</i>
Chlorobenzene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	==	==
Chloroethane/ppb	< 0.61	< 0.61	< 0.61	< 0.61	< 0.61	400	<i>80</i>
Chloroform/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	6	<i>0.6</i>
Chloromethane/ppb	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	30	<i>3</i>
2-Chlorotoluene/ppb	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	==	==
4-Chlorotoluene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	==	==
1,2-Dibromo-3-chloropropane/ppb	< 2.96	< 2.96	< 2.96	< 2.96	< 2.96	0.2	<i>0.02</i>
Dibromochloromethane/ppb	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	60	<i>6</i>
1,4-Dichlorobenzene/ppb	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	75	<i>15</i>
1,3-Dichlorobenzene/ppb	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	600	<i>120</i>
1,2-Dichlorobenzene/ppb	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	600	<i>60</i>
Dichlorodifluoromethane/ppb	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	1000	<i>200</i>
1,2-Dichloroethane/ppb	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	5	<i>0.5</i>
1,1-Dichloroethane/ppb	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	850	<i>85</i>
1,1-Dichloroethene/ppb	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	7	<i>0.7</i>
cis-1,2-Dichloroethene/ppb	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	70	<i>7</i>
trans-1,2-Dichloroethene/ppb	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	100	<i>20</i>
1,2-Dichloropropane/ppb	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	5	<i>0.5</i>
1,3-Dichloropropane/ppb	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	==	==
trans-1,3-Dichloropropene/ppb	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	0.4	<i>0.04</i>
cis-1,3-Dichloropropene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	==	==
Di-isopropyl ether/ppb	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	==	==
EDB (1,2-Dibromoethane)/ppb	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	0.05	<i>0.005</i>
Ethylbenzene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	700	<i>140</i>
Hexachlorobutadiene/ppb	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34	==	==
Isopropylbenzene/ppb	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	==	==
p-Isopropyltoluene/ppb	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	==	==
Methylene chloride/ppb	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	5	<i>0.5</i>
Methyl tert-butyl ether (MTBE)/ppb	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	60	<i>12</i>
Naphthalene/ppb	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	100	<i>10</i>
n-Propylbenzene/ppb	< 0.61	< 0.61	< 0.61	< 0.61	< 0.61	==	==
1,1,2,2-Tetrachloroethane/ppb	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.2	<i>0.02</i>
1,1,1,2-Tetrachloroethane/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	70	<i>7</i>
Tetrachloroethene (PCE)/ppb	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	5	<i>0.5</i>
Toluene/ppb	< 0.19	< 0.19	< 0.19	0.82	< 0.19	800	<i>160</i>
1,2,4-Trichlorobenzene/ppb	< 1.15	< 1.15	< 1.15	< 1.15	< 1.15	70	<i>14</i>
1,2,3-Trichlorobenzene/ppb	< 1.71	< 1.71	< 1.71	< 1.71	< 1.71	==	==
1,1,1-Trichloroethane/ppb	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	200	<i>40</i>
1,1,2-Trichloroethane/ppb	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	5	<i>0.5</i>
Trichloroethene (TCE)/ppb	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	5	<i>0.5</i>
Trichlorofluoromethane/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	==	==
1,2,4-Trimethylbenzene/ppb	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	==	==
1,3,5-Trimethylbenzene/ppb	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	Total TMB's 480	<i>Total TMB's 96</i>
Vinyl Chloride/ppb	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.2	<i>0.02</i>
m&p-Xylene/ppb	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	Total Xylenes 2000	<i>Total Xylenes 400</i>
o-Xylene/ppb	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29		

NS = not sampled, NM = Not Measured
 Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.
 == = No Exceedences
 (ppb) = parts per billion
 "J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

A.6 Water Level Elevations
Smith's Union 76 LUST Site BRRTS# 03-16-000069
Solon Springs, Wisconsin

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10
Ground Surface (feet msl)	1076.54	1076.64	1076.87	1075.52	1074.94	1077.21	1069.91	1064.88	NI	NI
6-22-18 Re-survey Ground Surface	1076.52	1076.61	1076.89	1075.61	1074.95	1077.22	1069.65	1065.04	1060.93	1070.55
PVC top (feet msl)	1076.09	1076.01	1076.55	1075.13	1074.47	1076.78	1069.57	1064.48	NI	NI
6-22-18 Resurveyd PVC top	1076.09	1076.01	1076.56	1075.11	1074.48	1076.78	1069.14	1064.48	1060.38	1069.94
Well Depth (feet)	20.00	20.00	21.00	20.00	20.00	20.00	14.50	14.50	13	30
Top of screen (feet msl)	1066.52	1066.61	1065.89	1065.61	1064.95	1067.22	1065.15	1060.54	1057.93	1050.55
Bottom of screen (feet msl)	1056.52	1056.61	1055.89	1055.61	1054.95	1057.22	1055.15	1050.54	1047.93	1040.55
Depth to Water From Top of PVC (feet)										
10/2/2012	14.62	14.64	13.63	13.54	13.12	15.75	NI	NI	NI	NI
11/7/2013	14.65	14.65	13.68	13.54	13.12	15.85	9.80	5.58	NI	NI
2/19/2014	USP	14.99	14.10	CNL	13.80	16.14	10.05	W	NI	NI
5/21/2014	13.65	13.70	12.69	12.57	11.99	14.65	8.79	4.67	NI	NI
6/11/2015	13.78	13.92	13.04	12.89	12.35	15.31	9.34	5.42	NI	NI
9/14/2015	14.09	14.10	13.20	12.88	12.55	15.43	9.41	7.36	NI	NI
12/10/2015	14.51	14.56	13.51	13.47	13.16	15.80	9.75	5.61	NI	NI
3/9/2016	14.44	14.46	13.50	13.52	13.20	15.55	9.59	5.48	NI	NI
6/20/2018	12.91	12.96	12.09	11.11	10.65	14.35	7.90	4.19	0.40	20.18
Depth to Water From Ground Surface (feet)										
10/2/2012	15.07	15.27	13.95	13.93	13.59	16.18	NI	NI	NI	NI
11/7/2013	15.10	15.28	14.00	13.93	13.59	16.28	10.14	5.98	NI	NI
2/19/2014	USP	15.62	14.42	CNL	14.27	16.57	10.39	W	NI	NI
5/21/2014	14.10	14.33	13.01	12.96	12.46	15.08	9.13	5.07	NI	NI
6/11/2015	14.23	14.55	13.36	13.28	12.82	15.74	9.68	5.82	NI	NI
9/14/2015	14.54	14.73	13.52	13.27	13.02	15.86	9.75	7.76	NI	NI
12/10/2015	14.96	15.19	13.83	13.86	13.63	16.23	10.09	6.01	NI	NI
3/9/2016	14.89	15.09	13.82	13.91	13.67	15.98	9.93	5.88	NI	NI
6/20/2018	13.34	13.56	12.42	11.61	11.12	14.79	8.41	4.75	0.95	20.79
Groundwater Elevation (feet msl)										
10/2/2012	1061.47	1061.37	1062.92	1061.59	1061.35	1061.03	NI	NI	NI	NI
11/7/2013	1061.44	1061.36	1062.87	1061.59	1061.35	1060.93	1059.77	1058.90	NI	NI
2/19/2014	USP	1061.02	1062.45	CNL	1060.67	1060.64	1059.52	W	NI	NI
5/21/2014	1062.44	1062.31	1063.86	1062.56	1062.48	1062.13	1060.78	1059.81	NI	NI
6/11/2015	1062.31	1062.09	1063.51	1062.24	1062.12	1061.47	1060.23	1059.06	NI	NI
9/14/2015	1062.00	1061.91	1063.35	1062.25	1061.92	1061.35	1060.16	1057.12	NI	NI
12/10/2015	1061.58	1061.45	1063.04	1061.66	1061.31	1060.98	1059.82	1058.87	NI	NI
3/9/2016	1061.65	1061.55	1063.05	1061.61	1061.27	1061.23	1059.98	1059.00	NI	NI
6/20/2018	1063.18	1063.05	1064.47	1064.00	1063.83	1062.43	1061.24	1060.29	1059.98	1049.76

Note: Elevations are presented in feet mean sea level (msl).

NI = Not Installed

USP = Under Snow Pile

CNL = Could Not Locate

W = Water Over Well