April 10, 2019

Tom Verstegen
Department of Natural Resources
625 E. County Road Y, Suite 700
Oshkosh, WI 54901-1805

Re: Status Report – Completion of Approved Scope of Work
Winners Circle Auto (Fmr. Tim's Auto), Oxford, Wisconsin
BRRTS # 03-39-168015 PECFA # 53952-0150-15

Dear Tom:

This status report includes the results of the scope of work submitted in a change order request to DNR on January 31, 2018, and approved on February 6, 2018. The following scope of work has been completed during this period:

1. Installation of a water table well in the vicinity of well MW-10P (MW-10). Access to install the well was requested from and approved by the Village of Oxford. The well was installed in the east right of way of South Oxford Street, adjacent to address 138 Chauncey Street, on April 26, 2018.

2. Soil samples were collected during drilling and screened for petroleum vapors with a PID. No organic vapors were detected. One soil sample from a depth of 15 to 16 feet below ground surface was analyzed for PVOCs plus naphthalene. No petroleum compounds were detected.

3. The new well (MW-10) was developed on May 15, 2018, and a round of groundwater samples was collected from MW-10 along with key wells with previous detections to monitor contaminant trends in the groundwater. MW-10 was surveyed into the existing well elevation network.

4. Subsequent quarterly samples were collected on July 31, 2018, November 12, 2018, and February 25, 2019.

5. Completion of a letter status report (LRA05 - this report).

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RESULTS

Soil Sampling

No evidence of petroleum contamination was noted in the sampling at well MW-10. One soil sample was analyzed for PVOCs+naphthalene from a depth of 15 to 16 feet below ground surface, which corresponded with the water table surface. No petroleum compounds were detected in the soil sample.

Groundwater Sampling

Groundwater Monitoring Wells

Samples were collected from the groundwater monitoring wells in May, July, and November 2018, and February 2019. The results have been compiled with previous sampling results on the attached table "Laboratory Results – Groundwater", which also includes the water supply well sampling results. In general, there are two sets of wells at this site, the water table monitoring wells screened around the water table at 20 feet, and the deeper piezometer wells which are screened in the transition zone from the upper sand/silt layer into the clay below (generally they appear to be in the upper part of the clay layer). Well locations are shown on the attached Monitoring Well Locations map.

Water table well MW-1 is upgradient of the source area, and was not sampled during this period. No contamination has been detected in this well.

Well MW-2 is located north of the building directly in the source area. Concentrations in this well display a decreasing trend for all PVOC compounds. Only total trimethylbenzenes and naphthalene concentrations exceed their respective Wisconsin Administrative Code NR 140 enforcement standard (ES) in recent sampling.

Well MW-3 is located west of the building in another tank bed area. This well historically contained free product, which was last detected in November 2011. All PVOC concentrations in this well display a decreasing trend. The benzene, total trimethylbenzenes, and naphthalene concentrations continue to exceed their respective ES in recent sampling.

Well MW-4 is located south of the source area and slightly sidegradient. High concentrations were initially detected in this well, but concentrations have decreased to below the ES for all PVOCs as of the last sample round in November 2018.

Well MW-5 is located south of MW-4 and originally defined the sidegradient extent. This well was not sampled during this period. No ES exceedances have been detected in this well since February 2008.

Well MW-6 is a downgradient water table monitoring well, located in the alley southwest of the source area. Concentrations in this well exhibit a decreasing trend. Benzene has decreased from a high of 4,800 ug/L in November 2005 to 12 ug/L in the last sample round in February 2019. Benzene is the only compound that continues to exceed the ES.

Well MW-6P is a piezometer well nested with MW-6. The only petroleum compound detected in this well is methyl-tert-butyl ether (MTBE), which is exhibiting an increasing trend. Concentrations exceeded the ES for the first time in the November 2018 sample. The concentration of MTBE was 60 and 62 ug/L in the last two samples during this period; the NR 140 ES for MTBE is 60 ug/L. A downward vertical gradient is consistently measured at this well nest. The MTBE concentration has

been graphed in this well in relationship to the water elevation measured in the well (see attached graph). Note that the increasing MTBE concentration appears to correspond to increases in the water elevation in this well.

MW-7 is a downgradient water table well. This well was not sampled during this period. Only trace concentrations of PVOCs have been historically detected, all below NR 140 groundwater standards.

MW-7A (or MW-7P) is a piezometer well nested with well MW-7. Concentrations in initial sampling in this well in 2007-2009 were less than groundwater standards, however the MTBE concentration showed an increasing trend during that period and increased to a high of 170 ug/L in March 2014. The MTBE concentration then slowly decreased and appeared to stabilize at 110-120 ug/L from February 2016 through May 2018. MTBE increased to 170 ug/L again in the February 2019 sample. Concentrations of MTBE have been plotted against groundwater levels in this well in an attached graph. Similar to Mw-6P, the recent increase in MTBE may be related to higher groundwater levels in recent sampling.

Well MW-8 is a water table well located downgradient to sidegradient of the groundwater flow path from the source area. Concentrations in initial sampling were high, but the well quickly decreased to less than detection for most PVOC compounds since 2009. This well was not sampled during this period.

Well MW-8P is a piezometer well nested with MW-8. MTBE has consistently been detected in this well but appears to have stabilized in the range of 1,000 to 1,100 ug/L during this period. A graph of the MTBE concentration in this well vs. groundwater levels is attached.

Well MW-9P is a piezometer well located further to the east of MW-8P, and is sidegradient to the contaminant plume. No ES exceedances have been detected in this well. Well MW-9P was not sampled during this period.

Well MW-10 is the new water table well installed downgradient during this period. The location of the well is shown on Attachment B.3.d. – Monitoring Well Locations. No petroleum contamination has been detected in this well.

Well MW-10P is a downgradient piezometer well. Benzene and MTBE concentrations consistently exceed the ES in samples from this well. The MTBE concentration has been slowly increasing and was 370 ug/L in the February 2019 sample, the highest MTBE concentration detected in this well. The MTBE concentration in this well has been plotted vs. groundwater elevations on an attached graph. Note that there is an increase in the groundwater elevations in this well, which may be influencing the MTBE migration in the area.

Well MW-11P is a sidegradient piezometer well located west of the source area, defining the western extent of the groundwater contamination. No ES exceedances have been detected in this well. Well MW-11P was not sampled during this period.

MW-12P is a piezometer well located sidegradient to the south of the source area in Chauncey Street. This well was previously abandoned due to damage during utility construction in the area. No ES exceedances had been detected in previous sampling of this well, and only low level PVOC contamination was detected, all below NR 140 groundwater standards.

MW-13P is the furthest downgradient piezometer well, located at the top of the slope in the right-of-way of Chauncey Street before it descends into the Neenah Creek valley. Although the initial MTBE concentration was high in this well (140 ug/L), the concentration has been stable in subsequent sampling (3.1 to 5.7 ug/L) and below NR 140 groundwater standards. Therefore, this well defines the downgradient extent of groundwater contamination at this site.

In conclusion, the groundwater contamination appears to be stable to decreasing in most of the wells across the area. Orders of magnitude reductions have been seen in the wells in the source area and immediately downgradient. MTBE concentrations appear to have stabilized in most of the piezometer wells. Recent increases in downgradient MTBE concentrations appear to be related to increasing groundwater elevations. Attachment B.3.b. illustrates the estimated horizontal extent of the groundwater contamination from this source, either at the water table or at depth. Attachments B.3.a.1. and B.3.a.2. are cross sections illustrating the relationship between the contaminant plume and the geologic units at this site.

Graphs of the groundwater trends in some of the wells are attached, and illustrate the decreasing trends seen across the site. The laboratory reports for the four sample rounds collected in 2018-19 are also attached.

Conclusions and Recommendations

This report completes the scope of work approved in 2018.

MSA has completed a preliminary case closure evaluation and concludes the following:

1. The extent of the soil contamination was defined during the site investigation. Recent soil confirmation sampling indicates that no unsaturated soil contamination was present in the three borings advanced in 2017 in former highly contaminated areas, indicating that no unsaturated soil exceedances remain at the site likely due to operation of the soil vapor extraction remediation system.
2. No direct contact soil exceedances were detected in soil in the site investigation sampling or in recent confirmation borings.
3. The extent of the groundwater contamination has been defined by sidegradient piezometers, a downgradient piezometer (MW-13P) that is below NR 140 standards, and sampling of well points at the assumed discharge location (Neenah Creek) that are also below NR 140 standards.
4. No free product has been detected in monitoring wells at this site since 2011.
5. The creek bank sampling appears to indicate that State standards for groundwater are not being exceeded at the point of discharge to Neenah Creek.

6. No groundwater contamination has been detected in downgradient water supply wells in the area. An evaluation of the subsurface geology indicates a substantial clay layer is present between the upper sand unit which contains the petroleum contamination, and a lower sand or sandy gravel layer in which the private water supply wells are screened. MSA believes this clay layer is sufficient to be protective of the lower sand aquifer in the area. In addition, the aquifer containing the petroleum contamination appears to be discharging to Neenah Creek, based on the creek elevation, groundwater flow direction, and the detection of low level PVOC contamination in a shallow well point adjacent to the creek.
7. MSA has evaluated the vapor intrusion risk at the site, based on the January 2018 DNR Guidance*: Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin*. None of the PVOC risk screening criteria are present at this site. No free product is present. No groundwater exceeding NR 140 standards is in contact with a building foundation. No groundwater with benzene concentrations exceeding 1 mg/L is present within five feet under a building or basement (the depth to groundwater is generally 20 feet). No significant soil contamination appears to be present and the SVE system removed soil vapors in the source area and under the adjacent building. No underground utilities cross the source areas, and even if they did, the sandy nature of the soils at this site in combination with operation of the SVE system would have removed any threat of vapor intrusion along utility corridors.
8. Groundwater contaminant trends appear to be stable to decreasing across the site, with the possible exception of MW-10P. However, statistically, the concentrations recently detected in this well are within the range of normal variability due to seasonal influences and changes in water elevations.

Based on this evaluation, MSA believes it may be appropriate to submit a case closure request for DNR review.

Tom, once you've had the opportunity to review these results, please contact me to discuss the next scope of work. I will then prepare a change order for the agreed upon scope for your review and approval.

Sincerely,

MSA Professional Services, Inc.

Jayne A. Englebert

Jayne A. Englebert, P.G.
Senior Hydrogeologist

Enc.
cc: Terry Berndt, Owner
Steve Mullens, DPW, Village of Oxford
Richard Lyster, MSA

Laboratory Results - Soil
Winner's Circle Automotive, Oxford, Wisconsin

Location	Depth Interval	Date	PID	GRO	Lead	Benzene	Ethyl-benzene	Methyl-tert- butyl ether	Toluene	1,2,4- Tri-methyl-benzene	1,3,5- Tri-methyl-benzene	M&P Xylene	O Xylene
Residential Direct Contact RCLs (March 2017 Spreadsheet)					400	1.49	7.47	59.4	818	89.8	182	260*	260*
Groundwater RCL's (March 2017 Spreadsheet)					27	0.0051	1.57	0.027	1.1072	1.3821*	1.3821*	3.96*	3.96*
Borings advanced by Advent in March 1997													
C-1	19 to 21 ft	11-Mar-97	500	2400		*12*	*55*	ND	*130*	*160*	*60*	*210*	*97*
C-2	21 to 23 ft	11-Mar-97	120	14		*1.2*	0.65	*0.91*	*4.4*	0.54	0.24	2	1
C-3	19 to 21 ft	11-Mar-97	120	0.99		*0.05*	0.059	*0.12*	0.12	0.11	0.097	0.2	0.08
C-4	19 to 21 ft	11-Mar-97	500	8.4		*1.0*	0.18	*0.5*	0.72	0.21	0.13	0.52	0.22
C-6	19 to 21 ft	11-Mar-97	4	ND		ND	ND	ND	0.1	ND	ND	ND	ND
Borings advanced by MSA													
MW-1	2 to 4 ft	11-May-05	0	<1.3	6.5	*0.11*	0.05	<0.025	0.70	<0.025	<0.025	0.15	0.026
MW-1	22 to 24 ft	11-May-05	0	<1.4	0.82	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
MW-2	2 to 4 ft	11-May-05	0	3.9	*198*	*0.11*	0.079	<0.025	0.71	0.095	0.029	0.37	0.12
MW-2	12 to 14 ft	11-May-05	1225	3400	11.9	<1.4	*17*	<3.2	*40*	*410*	*140*	*350*	*180*
MW-2	16 to 18 ft	11-May-05	1441	1500	4.8	<1.4	*32*	<3.2	*72*	*150*	*49*	*210*	*89*
MW-2	20 to 22 ft	11-May-05	1551	10000	1.4	*11*	*270*	<8.0	*780*	*740*	*240*	*1200*	*480*
B-1	0 to 2 ft	11-May-05	3.2	<1.3	*47*	*0.11*	0.047	<0.025	0.67	<0.025	<0.025	0.13	<0.025
B-1	10 to 12 ft	11-May-05	113	98	0.70	<0.035	<0.030	<0.080	<0.035	*6.7*	*2.5*	2.3	1.5
B-1	18 to 20 ft	11-May-05	1611	3300	1.6	<3.5	*90*	<8.0	*190*	*300*	*94*	*460*	*190*
B-2	0 to 2 ft	11-May-05	7.3	2.4	2.2	*0.21*	0.12	<0.025	*1.3*	<0.025	<0.025	0.34	0.078
B-2	16 to 18 ft	11-May-05	168	67	1.2	<0.035	0.074	<0.080	<0.035	*3.3*	*1.1*	1.1	0.70
B-2	20 to 22 ft	11-May-05	1547	6800	1.6	*5.6*	*190*	<8.0	*440*	*510*	*160*	*790*	*310*
MW-3	0 to 2 ft	11-May-05	51	3.9	1.7	<0.035	0.049	<0.025	0.11	0.21	0.066	0.18	0.067
MW-3	14 to 16 ft	11-May-05	1.2	<1.2	1.7	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
MW-3	20 to 22 ft	11-May-05	1516	9500		*29*	*250*	<3.2	*690*	*620*	*200*	*1000*	*410*
B-3	0 to 2 ft	11-May-05	4	2.4		<0.025	<0.025	<0.025	<0.025	0.044	<0.025	<0.025	<0.025
B-3	14 to 16 ft	11-May-05	841	1700		<0.14	*1.9*	<0.32	<0.14	*86*	*50*	*27*	*38*
B-3	22 to 24 ft	11-May-05	1754	2900		<1.4	*53*	<3.2	*130*	*290*	*94*	*410*	*180*
MW-4	0 to 2 ft	12-May-05	0.8	<1.3		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
MW-4	22 to 24 ft	12-May-05	167	3.2		<0.025	0.10	*0.039*	0.39	0.39	0.12	0.63	0.35
B-4	0 to 2 ft	12-May-05	1	<1.3		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-4	22 to 24 ft	12-May-05	1254	460		*1.6*	*14*	<1.6	*43*	*36*	*9.8*	*55*	*22*
MW-7	16 to 18 ft	14-Aug-06	0	<1.9		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
MW-8	21 to 23 ft	14-Aug-06	19	<2.3		*0.49*	0.26	*0.47*	<0.025	0.24	0.20	0.53	0.19
TB-1	14 to 16 ft	21-Jul-17	3.8			<0.012	<0.015	<0.020	<0.017	<0.016	<0.016	<0.024	<0.017
TB-1	18 to 20 ft	21-Jul-17	2.8			<0.012	<0.015	<0.020	<0.017	<0.016	<0.016	<0.024	<0.017
TB-2	4 to 6 ft	21-Jul-17	0.5			<0.012	<0.015	<0.020	<0.017	0.0809	0.0342	0.0270	0.0259
TB-2	18 to 20 ft	21-Jul-17	1.9			<0.012	<0.015	<0.020	<0.017	<0.016	<0.016	<0.024	<0.017
TB-3	0 to 4 ft	21-Jul-17	0.3			<0.012	<0.015	<0.020	<0.017	<0.016	<0.016	<0.024	<0.017
TB-3	18 to 20 ft	21-Jul-17	0.7			<0.012	<0.015	<0.020	<0.017	<0.016	<0.016	<0.024	<0.017
MW-10	15 to 16 ft	26-Apr-18	0			<0.012	<0.015	<0.020	<0.017	<0.016	<0.016	<0.024	<0.017

All concentrations are in mg/Kg.
Depths are in feet below ground surface.
PID readings are in ppm as isobutylene.
Blank cells indicate parameter was not analyzed.

ND = not detected
* Concentration listed is for total of all forms
Values in red italics exceed a groundwater pathway RCL.

Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert- butyl- ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
MW-1						*Top of Casing = 882.24 ft MSL*								
12-Jul-05	<0.40	<0.40	<0.50	<1.0	<0.50	<0.60	<0.60	<2.4						859.80
15-Nov-05	0.84	0.92	<0.40	1.4	<0.40	<0.40	<1.1	<1.5						858.85
6-Apr-07	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<2.8				5.75	7.15	22	859.77
19-Sep-07	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<2.8		8.4	57				860.31
28-Feb-08	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<2.8							859.95
26-Oct-09	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<2.8							860.05
15-Nov-11	<0.25	<0.25	<0.22	<0.39	<0.44	<0.23	<0.50							860.49
16-Feb-12	<0.25	<0.25	<0.22	<0.39	0.37	<0.23	1.7							859.89
31-May-12	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<2.5							861.02
23-Aug-12	<0.40	<0.50	<0.50	<1.70	<1.0	<0.40	<0.60							860.56
29-Nov-12	<0.40	<0.50	<0.50	<1.7	<1.0	<0.40	<0.60							859.43
3-Jun-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							860.43
30-Sep-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							861.24
31-Dec-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							860.46
31-Mar-14	<0.50	<0.50	<0.50	<1.5	<1.1	<0.40	<1.2							859.72
10-Dec-14	<0.50	<0.50	<0.50	<1.5	<1.1	<0.40	<1.2							860.64
26-Jun-15	Elevation measurement only													860.55
12-Aug-15	Elevation measurement only													860.40
2-Dec-15	Elevation measurement only													859.92
31-May-16	Elevation measurement only													862.16
5-Aug-16	Elevation measurement only													861.95
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							863.21

Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert- butyl- ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
MW-2						*Top of Casing = 881.86 ft MSL*								
12-Jul-05	**290**	**1900**	260	1900	413	<30	**120**	<2.4						859.59
15-Nov-05	**290**	**2000**	320	2170	**570**	29	**150**	<1.5						858.75
6-Apr-07	**0.3 feet of free product, no sample**													859.36
19-Sep-07	**490**	**7700**	**1600**	**10200**	**4280**	46	**1200**							860.22
28-Feb-08	**560**	**9300**	**1100**	7300	**1390**	<50	**410**							859.81
26-Oct-09	**920**	**21000**	**3000**	**20800**	**6700**	<100	**2000**							859.94
15-Nov-11	**380**	**25000**	**3500**	**25000**	**5700**	<12	**1400**							860.43
16-Feb-12	**270**	**23000**	**3300**	**24000**	**6400**	<58	**2500**							859.84
31-May-12	**20.9**	**3440**	**1070**	**9910**	**5120**	2.46	**1130**							860.93
23-Aug-12	**<400**	**18000**	**2200**	**21400**	**6100**	<400	**3300**							860.56
29-Nov-12	**<200**	**18000**	**2600**	**21200**	**6000**	<200	**1900**							859.45
3-Jun-13	**<130**	**7100**	**1800**	**16400**	**6700**	<130	**1600**							860.37
30-Sep-13	**<130**	**7200**	**2100**	**29000**	**12600**	<130	**7300**							861.27
31-Dec-13	**<250**	**11000**	**3400**	**46000**	**22000**	<250	**4100**							862.43
31-Mar-14	**<250**	**11000**	**2500**	**32000**	**10900**	<200	**4600**							859.71
10-Dec-14	**<250**	**2600**	**1100**	**23500**	**6500**	<200	**1300**							860.60
12-Aug-15	**<250**	**1900**	**960**	**21800**	**6100**	<250	**1700**							860.36
2-Dec-15	**<250**	**1500**	**1100**	**21400**	**6900**	<250	**1700**							859.85
23-Feb-16	**<60**	**2200**	**1200**	**21200**	**6400**	<80	**1300**							860.85
31-May-16	**<100**	*710*	**850**	**15500**	**11400**	<100	**2200**							862.12
5-Aug-16	**<100**	*680*	570	**10700**	**4900**	<100	**750**							861.91
24-Feb-17	**<12**	*250*	290	*7700*	**5100**	<15	**610**							861.96
27-Jul-17	**<10**	12	37	*1120*	**1160**	<10	**120**							863.18
15-May-18	**<200**	**2900**	**950**	**24900**	**6500**	<200	**920**							860.62
12-Nov-18	**<20**	35	64	*1880*	**1310**	<20	*<45*							863.75
25-Feb-19	**<20**	*190*	*140*	*4400*	**3300**	<20	**230**							862.16

Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert-butyl-ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
MW-3						*Top of Casing = 881.00 ft MSL*								
12-Jul-05	**3600**	**9800**	**1000**	5300	**920**	**1100**	**210**	**32.9**						859.53
15-Nov-05	**8400**	**25000**	**2600**	**14300**	**3510**	**1700**	**870**	**38.2**						858.42
6-Apr-07	**0.61 feet of free product, no sample**													859.03
19-Sep-07	**0.17 feet of free product, no sample**													859.10
28-Feb-08	buried in a snow pile													
26-Oct-09	**0.07 feet of free product, sample results below**													
26-Oct-09	**4600**	**43000**	**4500**	**11400**	**6600**	**<100**	**1600**							859.70
15-Nov-11	**0.04 feet of free product, sample results below**													
15-Nov-11	**2700**	**28000**	**3500**	**30000**	**11600**	<23	**3300**							860.22
16-Feb-12	**3900**	**42000**	**5100**	**33000**	**12300**	<58	**3900**							859.75
31-May-12	**2420**	**34800**	**9960**	**72100**	**48400**	27	**13800**							861.02
23-Aug-12	**2500**	**29000**	**4000**	**27600**	**14100**	**<400**	**9300**							860.46
29-Nov-12	**3800**	**41000**	**4100**	**25800**	**11300**	**<400**	**690**							860.33
3-Jun-13	**2200**	**38000**	**7700**	**56000**	**43800**	**<500**	**12000**							861.68
30-Sep-13	**1100**	**22000**	**3200**	**21300**	**7100**	**<500**	**4200**							861.13
31-Dec-13	**1600**	**28000**	**3800**	**28400**	**7000**	**<500**	**3000**							860.25
31-Mar-14	**2100**	**33000**	**5100**	**34000**	**15500**	**<800**	**6400**							859.53
10-Dec-14	**880**	**26000**	**3500**	**28600**	**5800**	**<400**	**1700**							860.43
12-Aug-15	**800**	**28000**	**4100**	**33000**	**8400**	**<500**	**3400**							860.15
2-Dec-15	**1000**	**43000**	**10000**	**69000**	**32700**	**<500**	**7700**							859.71
23-Feb-16	**670**	**27000**	**5600**	**37000**	**9000**	**<200**	**2100**							860.74
31-May-16	**260**	**7500**	**2200**	**21500**	**7800**	**<200**	**2500**							861.98
5-Aug-16	**280**	**7900**	**2100**	**19800**	**7400**	**<200**	**1500**							861.74
24-Feb-17	**<60**	**2300**	**820**	**14200**	**6700**	**<75**	**1100**							861.86
27-Jul-17	**<80**	**5400**	**850**	*7300*	**2160**	<80	**450**							862.98
15-May-18	**200**	**20000**	**2600**	**21500**	**5400**	<80	**1000**							860.62
12-Nov-18	*<4.0*	150	47	750	*460*	<4.0	*10*							863.64
25-Feb-19	**22**	*570*	*210*	*5000*	**2820**	<4.0	**140**							862.02

Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert-butyl-ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
MW-4						*Top of Casing = 879.48 ft MSL*								
12-Jul-05	**2200**	**9800**	**1600**	**7100**	**1420**	**1100**	**360**	**26.3**						859.41
15-Nov-05	**260**	**1400**	**400**	**2340**	**1080**	**78**	**270**	**17.9**						858.49
6-Apr-07	**860**	**8700**	**2200**	**11300**	**3240**	<25	**730**				0.08	6.64	-68	859.41
19-Sep-07	<0.50	1.8	13	159	167	<0.50	83		0.43	22				859.85
28-Feb-08	buried in a snow pile													
26-Oct-09	**44**	130	88	470	450	<5.0	**130**							859.66
15-Nov-11	**47**	**2100**	**1500**	**12000**	**3990**	<9.2	**600**							860.05
16-Feb-12	**<13**	**1400**	**1600**	**14000**	**4800**	<12	**870**							859.53
31-May-12	3.58	328	201	1720	**1013**	3.64	**246**							860.87
23-Aug-12	<80	**3100**	**2400**	**13900**	**3780**	**<80**	**980**							860.14
29-Nov-12	<80	**3300**	**3700**	**22800**	**5100**	**<80**	**1500**							859.00
3-Jun-13	<0.50	<0.50	<0.40	<1.40	3.0	<0.50	1.9							860.19
30-Sep-13	**12**	3.0	12	46.7	9.4	<0.50	2.6							860.87
31-Dec-13	<0.50	1.3	0.9	42.6	27	<0.50	5.5							860.06
31-Mar-14	**<130**	**1300**	**2900**	**19100**	**4900**	**<100**	**1500**							859.40
10-Dec-14	<2.5	8.3	36	490	213	<2.0	23							860.25
26-Jun-15	Elevation measurement only													860.26
12-Aug-15	**10**	4.7	8.8	31	86	<0.50	17							859.97
2-Dec-15	**62**	130	*220*	*2500*	**1550**	<2.5	**140**							859.53
23-Feb-16	<1.5	150	81	*1280*	*219*	<2.0	*26*							860.54
31-May-16	<4.0	*430*	*330*	*2790*	**560**	10	**140**							861.77
5-Aug-16	**23**	100	*170*	*1210*	*410*	<20	*81*							861.51
24-Feb-17	<1.2	6.0	95	580	*186*	<1.5	*48*							861.62
27-Jul-17	<2.0	<2.0	12	136	*160*	<2.0	*14*							862.74
15-May-18	<0.40	6.0	26	*1530*	**510**	<0.40	*19*							860.41
12-Nov-18	<0.40	<0.40	<0.40	<1.20	1.95	<0.40	<0.90							863.40
25-Feb-19	No sample, buried under a snow bank.													

Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert-butyl-ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
MW-5						*Top of Casing = 879.06 ft MSL*								
15-Nov-05	**1800**	640	**730**	2210	**770**	**680**	**210**	<1.5						858.39
6-Apr-07	**240**	6.6	190	131	291	**70**	**140**							859.32
19-Sep-07	**17**	<0.50	12	4.3	16.9	4.8	13		1.8	16				859.73
28-Feb-08	**11**	<0.50	10	<1.0	23.7	3.0	20							859.36
26-Oct-09	4.7	<0.50	16	<1.0	22.9	<0.50	10							859.51
15-Nov-11	0.51	0.97	3.5	7.4	5.26	<0.23	1.7							859.91
16-Feb-12	<0.25	<0.25	<0.22	<0.39	0.26	<0.23	0.6							859.38
31-May-12	<0.25	<0.25	<0.25	<0.25	0.486	<0.25	3.66							860.77
23-Aug-12	1.2	2.1	24	50	30.7	<0.40	15							859.97
29-Nov-12	1.1	2.1	7.4	24	10.5	<0.40	4.6							858.89
3-Jun-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							860.11
30-Sep-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							860.69
31-Dec-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							859.95
31-Mar-14	0.62	<0.50	2.2	<1.50	2.9	<0.40	5.6							859.31
10-Dec-14	<0.50	<0.50	<0.50	<1.5	<1.1	<0.40	<1.2							860.12
26-Jun-15	Elevation measurement only													860.13
12-Aug-15	<0.50	<0.50	1.0	<1.60	<1.0	<0.50	1.4							859.88
2-Dec-15	Elevation measurement only													859.41
31-May-16	Elevation measurement only													861.67
5-Aug-16	Elevation measurement only													861.39
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							862.62

Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert-butyl-ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
MW-6						*Top of Casing = 878.75 ft MSL*								
15-Nov-05	**4800**	**2600**	**980**	2900	470	**750**	**190**	<1.5						858.14
6-Apr-07	<0.50	<0.50	<0.50	<1.0	<0.50	2.2	<2.8							859.22
19-Sep-07	**7.1**	<0.50	<0.50	1.4	0.42	12	<2.8		8.9	13				859.46
28-Feb-08	**4600**	**13000**	**2100**	**11000**	**2150**	<50	**550**							859.03
26-Oct-09	**9.3**	<0.50	2.4	41	75	<0.50	16							859.26
15-Nov-11	**80**	310	58	470	164	<2.3	31							858.70
16-Feb-12	well is in a large puddle - did not sample													
31-May-12	1.64	1.3	0.71	21.6	25.1	<0.25	9.01							860.70
23-Aug-12	**780**	**2400**	610	3030	**740**	<20	**280**							859.72
29-Nov-12	**1800**	**6300**	**1700**	8200	**1720**	<40	**570**							858.69
3-Jun-13	**7.1**	34	5.8	25.9	7.4	<0.50	2.6							859.93
30-Sep-13	**83**	310	69	320	48	0.53	22							860.40
31-Dec-13	**25**	5.8	6.5	13.7	6.13	<0.50	5.7							859.73
31-Mar-14	**98**	6.6	35	106.4	73	<2.0	31							859.20
10-Dec-14	**120**	450	100	640	184	<4.0	52							859.90
26-Jun-15	Elevation measurement only													859.86
12-Aug-15	**1200**	**11000**	**1500**	**11500**	**2230**	<130	**480**							859.60
2-Dec-15	**1400**	**17000**	**2600**	**13900**	**2560**	<130	**720**							859.17
23-Feb-16	**500**	**3300**	*510*	*3500*	**760**	<20	**150**							860.27
31-May-16	**57**	*260*	30	360	*100*	<4.0	*21*							861.45
5-Aug-16	**24**	95	*170*	*1140*	*400*	<20	**100**							861.13
24-Feb-17	**65**	120	25	450	*180*	<3.0	*24*							861.36
27-Jul-17	**34**	*200*	52	310	*100*	<2.0	*21*							862.34
15-May-18	**15**	3.8	3.4	230	*100*	<2.0	*17*							860.22
12-Nov-18	*1.3*	47	11	59	10.3	<0.40	2.4							863.07
25-Feb-19	**12**	17	7.1	34.5	17.2	<0.40	4.5							861.46
MW-6P						*Top of Casing = 878.82 ft MSL*								
10-Dec-14	2.0	4.6	0.89	4.2	0.77	10	<0.50							858.96
26-Jun-15	<0.50	<0.50	<0.50	<1.60	<1.0	8.6								859.04
12-Aug-15	<0.50	<0.50	<0.50	<1.60	<1.0	*12*	<0.50							858.78
24-Feb-17	<0.24	<0.30	<0.30	<0.90	<0.80	*30*	<0.70							860.27
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	*39*	<0.90							861.29
15-May-18	<0.40	<0.40	<0.40	<1.20	<0.80	*36*	<0.90							858.91
31-Jul-18	<0.40	<0.40	<0.40	<1.20	<0.80	*37*	<0.90							859.29
12-Nov-18	<0.40	<0.40	<0.40	<1.20	<0.80	**60**	<0.90							861.04
25-Feb-19	<2.0	<2.0	<2.0	<6.0	<4.0	**62**	<4.5							862.83

Laboratory Results - Groundwater
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	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert- butyl- ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
MW-7						*Top of Casing = 875.44 ft MSL*								
6-Apr-07	<0.50	<0.50	0.73	<1.0	0.89	3.4	<2.8				3.02	7.55	152.73	857.61
19-Sep-07	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<2.8		0.33	9.6				857.67
28-Feb-08	<0.50	<0.50	<0.50	<1.0	<0.50	2.8	<2.8							857.16
26-Oct-09	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<2.8							857.44
15-Nov-11	<0.25	<0.25	<0.22	<0.39	<0.44	0.34	<0.50							857.84
16-Feb-12	<0.25	<0.25	<0.22	<0.39	<0.44	<0.23	<0.50							857.46
31-May-12	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<2.50							859.20
23-Aug-12	<0.40	<0.50	<0.50	<1.70	<1.0	<0.40	<0.60							857.62
29-Nov-12	<0.40	<0.50	<0.50	<1.7	<1.0	<0.40	<0.60							856.88
3-Jun-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							858.52
30-Sep-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							858.35
31-Dec-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							857.96
31-Mar-14	<0.50	<0.50	<0.50	<1.50	<1.10	<0.40	<1.2							857.45
10-Dec-14	<0.50	<0.50	<0.50	<1.5	<1.1	<0.40	<1.2							858.07
26-Jun-15	Elevation measurement only													858.25
12-Aug-15	Elevation measurement only													857.72
2-Dec-15	Elevation measurement only													857.53
31-May-16	Elevation measurement only													859.50
5-Aug-16	Elevation measurement only													859.30
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							860.23

Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert- butyl- ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
MW-7A (MW-7P)						*Top of Casing = 875.46 ft MSL*								
6-Apr-07	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<2.8				2.09	7.72	218	855.21
19-Sep-07	<0.50	<0.50	<0.50	<1.0	<0.50	1.4	<2.8		0.46	23				855.03
28-Feb-08	*0.78*	<0.50	<0.50	<1.0	<0.50	23	<2.8							854.81
26-Oct-09	*0.61*	<0.50	<0.50	<1.0	<0.50	46	<2.8							855.63
15-Nov-11	<0.25	<0.25	<0.22	0.46	0.39	**95**	<0.50							854.66
16-Feb-12	<0.25	<0.25	<0.22	<0.39	0.58	**100**	<0.50							855.20
31-May-12	*3.49*	<0.25	<0.25	<0.25	1.04	**145**	<2.50							855.24
23-Aug-12	*2.8*	<0.50	1.9	0.65	<1.00	**160**	0.96							855.13
29-Nov-12	*2.0*	<0.50	1.7	<1.7	<1.0	**110**	<0.60							855.16
3-Jun-13	<2.5	<2.5	<2.0	<7.0	<4.0	**140**	<2.5							855.96
30-Sep-13	<2.5	<2.5	4.2	<7.0	3.2	**160**	5.7							855.78
31-Dec-13	<2.5	<2.5	<2.0	<7.0	<4.0	**160**	<2.5							855.90
31-Mar-14	<2.5	<2.5	<2.5	<7.5	<5.5	**170**	6.8							855.07
9-Dec-14	*1.2*	<0.50	0.55	<1.5	<1.1	**150**	<1.2							854.92
26-Jun-15	<2.5	<2.5	<2.5	<8.0	<5.0	**140**								855.68
2-Dec-15	<2.5	<2.5	<2.5	<8.0	<5.0	**130**	<2.5							854.53
23-Feb-16	*3.2*	0.27	0.8	1.37	0.73	**120**	<1.0							852.94
31-May-16	*1.3*	0.59	2.3	2.5	1.85	**110**	<0.90							856.89
5-Aug-16	*1.9*	1.0	4.3	4.3	2.61	**120**	<0.90							855.03
24-Feb-17	*1.5*	<0.30	0.94	<0.90	0.4	**110**	<0.70							856.88
27-Jul-17	*1.3*	0.45	4.7	1.5	1.2	**120**	1.1							857.58
15-May-18	*<2.0*	<2.0	4.7	<6.0	<4.0	**110**	<4.5							856.33
12-Nov-18	*<2.0*	<2.0	6.7	<6.0	<4.0	**130**	<4.5							857.90
25-Feb-19	*<2.0*	<2.0	7.5	<6.0	<4.0	**170**	<4.5							857.59

Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert-butyl-ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
MW-8						*Top of Casing = 877.23 ft MSL*								
6-Apr-07	**1500**	<25	470	840	440	**1000**	**140**				1.61	7.27	19.36	858.82
19-Sep-07	**42**	<0.50	13	4.01	8.3	33	5.8		0.34	7.3				859.01
28-Feb-08	**150**	1.1	46	2.1	63	**160**	48							857.57
26-Oct-09	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<2.8							858.77
15-Nov-11	<0.25	<0.25	<0.22	<0.39	<0.44	0.46	<0.50							859.14
16-Feb-12	<0.25	<0.25	<0.22	<0.39	<0.44	<0.23	<0.50							858.74
31-May-12	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<2.50							860.38
23-Aug-12	<0.40	<0.50	<0.50	<1.70	<1.0	<0.40	<0.60							859.14
29-Nov-12	<0.40	<0.50	<0.50	<1.7	<1.0	1.1	<0.60							858.16
3-Jun-13	<0.50	<0.50	<0.40	<1.40	<0.80	0.75	<0.50							859.65
30-Sep-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							859.85
31-Dec-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							859.25
31-Mar-14	<0.50	<0.50	<0.50	<1.50	<1.10	<0.40	<1.2							858.65
9-Dec-14	<0.50	<0.50	<0.50	<1.5	<1.1	<0.40	<1.2							859.43
26-Jun-15	Elevation measurement only													859.50
24-Feb-17	<0.24	<0.30	<0.30	<0.90	<0.80	<0.30	<0.70							860.90
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							861.79
MW-8P						*Top of Casing = 876.53 ft MSL*								
9-Dec-14	*0.59*	<0.50	<0.50	<1.5	<1.1	**210**	<0.50							858.65
26-Jun-15	<5.0	<5.0	<5.0	<16.0	<10.0	**380**								858.72
12-Aug-15	<10	<10	<10	<32	<20	**540**	<10							858.27
2-Dec-15	<10	<10	<10	<32	<20	**730**	<10							858.04
23-Feb-16	<1.5	<1.4	<1.5	<5.0	<3.0	**680**	<5.0							858.92
31-May-16	*0.99*	0.58	0.71	0.4	0.64	**790**	<0.90							860.08
5-Aug-16	*0.99*	0.58	0.73	1.4	0.62	**970**	<0.90							859.76
24-Feb-17	*0.79*	<0.30	<0.30	<0.90	<0.80	**810**	<0.70							860.02
27-Jul-17	*0.63*	<0.40	<0.40	<1.20	<0.80	**950**	<0.90							860.88
15-May-18	*<20*	<20	<20	<60	<40	**1100**	<45							859.01
31-Jul-18	*<20*	<20	<20	<60	<40	**1100**	<45							859.14
12-Nov-18	*<20*	<20	<20	<60	<40	**1000**	<45							861.59
25-Feb-19	*<20*	<20	<20	<60	51	**1100**	<45							860.67
MW-9P						*Top of Casing = 875.60 ft MSL*								
9-Dec-14	<0.25	<0.50	<0.50	<1.50	<1.1	1.5	<0.50							859.18
26-Jun-15	<0.50	<0.50	<0.50	<1.60	<1.0	6.3								858.15
12-Aug-15	<0.50	<0.50	<0.50	<1.60	<1.0	3.5	<0.50							858.81
2-Dec-15	<0.50	<0.50	<0.50	<1.60	<1.0	4.5	<0.50							858.58
23-Feb-16	<0.30	<0.27	<0.30	<1.0	<0.60	5.9	<1.0							859.44
31-May-16	<0.40	0.49	<0.40	<1.20	0.46	7.4	<0.90							860.66
5-Aug-16	<0.40	0.5	0.63	1.32	0.55	8.4	<0.90							860.33
24-Feb-17	<0.24	<0.30	<0.30	<0.90	<0.80	11	<0.70							860.58
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	11	<0.90							861.43

Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert-butyl-ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
MW-10						*Top of Casing = 871.25 ft MSL*								
15-May-18	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							858.14
31-Jul-18	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							857.57
12-Nov-18	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							860.03
25-Feb-19	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							858.84
MW-10P						*Top of Casing = 870.20 ft MSL*								
9-Dec-14	**6.7**	<0.50	<0.50	<1.5	<1.1	**150**	<0.50							851.65
26-Jun-15	**8.0**	<0.50	<0.50	<1.60	<1.0	**69**								852.09
12-Aug-15	<0.50	<0.50	<0.50	<1.60	<1.0	28	<0.50							848.16
2-Dec-15	**7.1**	<0.50	<0.50	<1.60	<1.0	**200**	<0.50							851.16
23-Feb-16	**7.6**	<0.27	<0.30	<1.0	<0.60	**240**	<1.0							850.16
31-May-16	**7.6**	0.52	0.58	<1.20	0.53	**300**	<0.90							852.51
5-Aug-16	**7.7**	0.52	0.61	0.85	0.57	**310**	<0.90							850.59
24-Feb-17	**6.0**	<0.30	<0.30	<0.90	<0.80	**280**	<0.70							852.82
27-Jul-17	**5.2**	<0.40	<0.40	<1.20	<0.80	**340**	<0.90							852.49
15-May-18	**<8.0**	<8.0	<8.0	<24	<16	**330**	<18							852.31
31-Jul-18	**<8.0**	<8.0	<8.0	<24	<16	**340**	<18							851.53
12-Nov-18	**<8.0**	<8.0	<8.0	<24	<16	**330**	<18							853.26
25-Feb-19	**<8.0**	<8.0	<8.0	<24	<16	**370**	<18							853.03
MW-11P						*Top of Casing = 878.00 ft MSL*								
12-Aug-15	<0.50	<0.50	<0.50	<1.60	<1.0	2.7	<0.50							855.91
2-Dec-15	<0.50	<0.50	<0.50	<1.60	<1.0	2.8	<0.50							856.01
23-Feb-16	<0.30	<0.27	0.32	1.54	0.42	4.5	<1.0							856.76
31-May-16	<0.40	<0.40	<0.40	<1.20	0.45	5.2	<0.90							857.08
5-Aug-16	<0.40	<0.40	0.66	1.7	0.58	5.3	<0.90							849.95
24-Feb-17	<0.24	<0.30	<0.30	<0.90	<0.80	4.2	<0.70							853.54
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	3.4	<0.90							855.07
MW-12P						*Top of Casing = 871.79 ft MSL*								
12-Aug-15	<0.50	<0.50	<0.50	<1.60	<1.0	<0.50	<0.50							856.65
2-Dec-15	<0.50	<0.50	<0.50	<1.60	<1.0	<0.50	<0.50							856.35
31-May-16	0.45	<0.40	<0.40	<1.20	0.48	1.5	<0.90							858.18
24-Feb-17	well is damaged, unable to sample													
21-Jul-17	Well destroyed by horizontal drilling, abandoned with bentonite													

Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert-butyl-ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
MW-13P						*Top of Casing = 861.76 ft MSL*								
12-Aug-15	*0.94*	<0.50	<0.50	<1.60	<1.0	**140**	<0.50							843.05
2-Dec-15	<0.50	<0.50	<0.50	2.49	0.72	5.5	<0.50							846.23
23-Feb-16	<0.30	<0.27	<0.30	<1.0	<0.60	3.1	<1.0							847.50
31-May-16	*0.50*	<0.40	<0.40	<1.20	0.49	4.6	<0.90							846.74
5-Aug-16	0.49	<0.40	0.76	2.13	1.2	4.7	<0.90							843.44
24-Feb-17	<0.24	<0.30	<0.30	<0.90	<0.80	3.4	<0.70							847.27
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	5.7	<0.90							847.85
15-May-18	<0.40	<0.40	<0.40	<1.20	<0.80	2.8	<0.90							847.13
12-Nov-18	<0.40	<0.40	<0.40	<1.20	<0.80	3.8	<0.90							834.80
25-Feb-19	<0.40	<0.40	<0.40	<1.20	<0.80	4.0	<0.90							844.20
North Side - Shallow	Driven point in creek valley, east of creek and north of Chauncey Street, bottom of screen at 4.94 feet below ground surface													
2-Dec-15	<0.50	<0.50	<0.50	<1.60	<1.0	0.76	<0.50							
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	5.4	<0.90							
North Side - Deeper	Driven point in creek valley, east of creek and north of Chauncey Street, bottom of screen at 7.80 feet below ground surface													
2-Dec-15	<0.50	<0.50	<0.50	<1.60	<1.0	<0.50	<0.50							
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
South Side - Shallow	Driven point in creek valley, east of creek and south of Chauncey Street, bottom of screen at 4.96 feet below ground surface													
2-Dec-15	<0.50	<0.50	<0.50	<1.60	<1.0	<0.50	<0.50							
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
South Side - Deeper	Driven point in creek valley, east of creek and south of Chauncey Street, bottom of screen at 12.98 feet below ground surface													
2-Dec-15	<0.50	<0.50	<0.50	<1.60	<1.0	<0.50	<0.50							
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
Village Hall	(former Fire Department)													
29-Nov-12	<0.40	<0.50	<0.50	<1.7	<1.0	<0.40	<0.60							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
128 S. Oxford	Roos 2" well used for yard watering and laundry													
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
128 S. Oxford	Roos 6" well used for drinking water													
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
5-Jan-12	<0.25	<0.26	<0.22	<0.39	<0.44	<0.23	<0.50							
31-Dec-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
129 S. Oxford														
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
23-Aug-12	<0.40	<0.50	<0.50	<1.70	<1.0	<0.40	<0.60							
3-Jun-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							

Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert-butyl-ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
209 S. Oxford														
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
5-Jan-12	<0.25	<0.25	<0.22	<0.39	<0.44	<0.23	<0.50							
3-Jun-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							
229 S. Oxford														
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
31-May-12	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<2.50							
31-Dec-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
219 W. Chauncey														
26-Jun-15	<0.50	<0.50	<0.50	<1.60	<1.0	<0.50								
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
205 W. Chauncey														
26-Jun-15	<0.50	<0.50	<0.50	<1.60	<1.0	<0.50								
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
147 W. Chauncey														
26-Jun-15	<0.50	<0.50	<0.50	<1.60	<1.0	<0.50								
138 W. Chauncey														
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
29-Nov-12	<0.40	<0.50	<0.50	<1.7	<1.0	<0.40	<0.60							
31-Mar-14	<0.50	<0.50	<0.50	<1.50	<1.10	<0.40	<1.2							
27-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
131 W. Chauncey														
26-Jun-15	<0.50	<0.50	<0.50	<1.60	<1.0	<0.50								
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
120 W. Chauncey														
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
223 Franklin														
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
229 S. Franklin														
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							

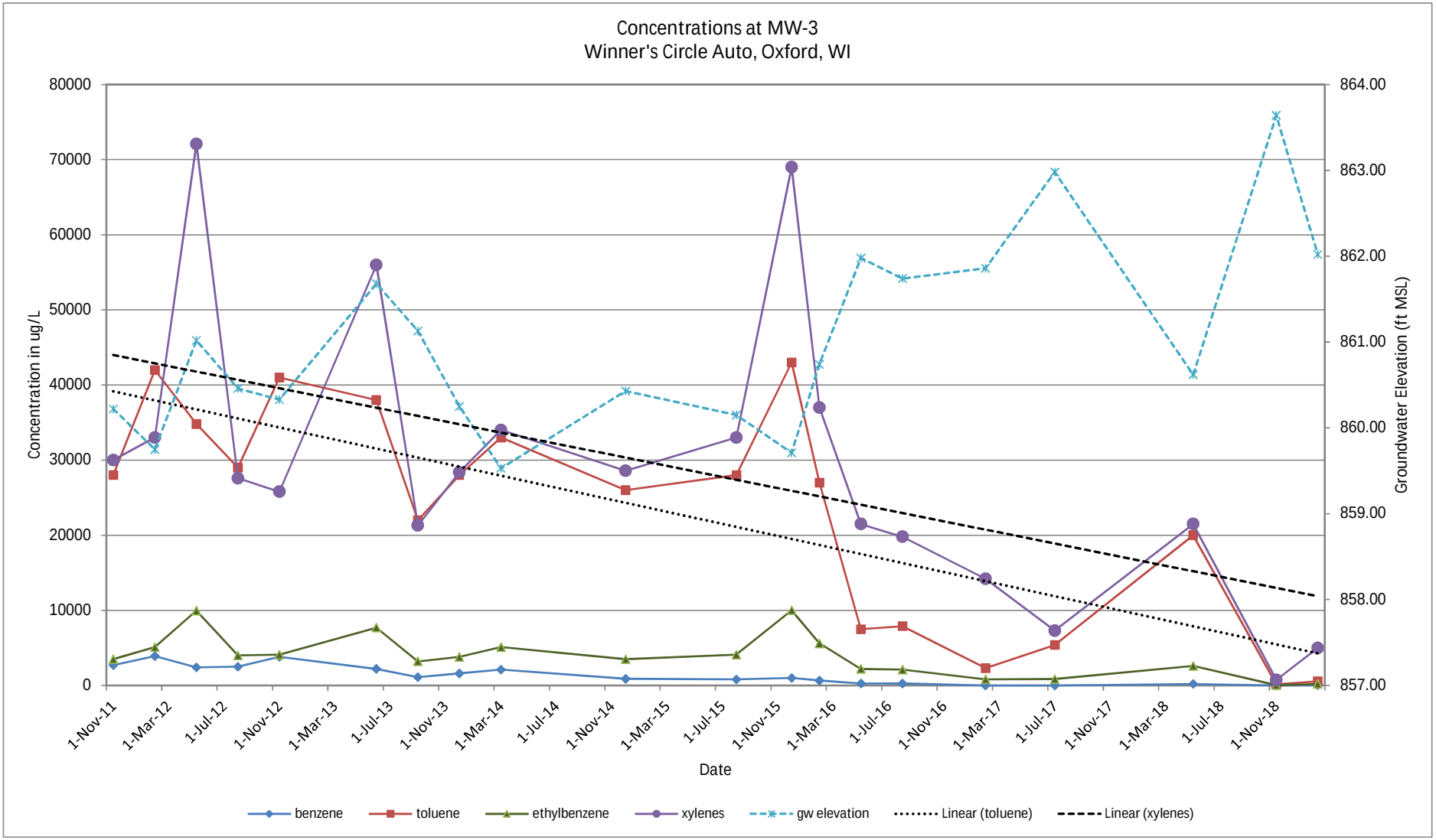
Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

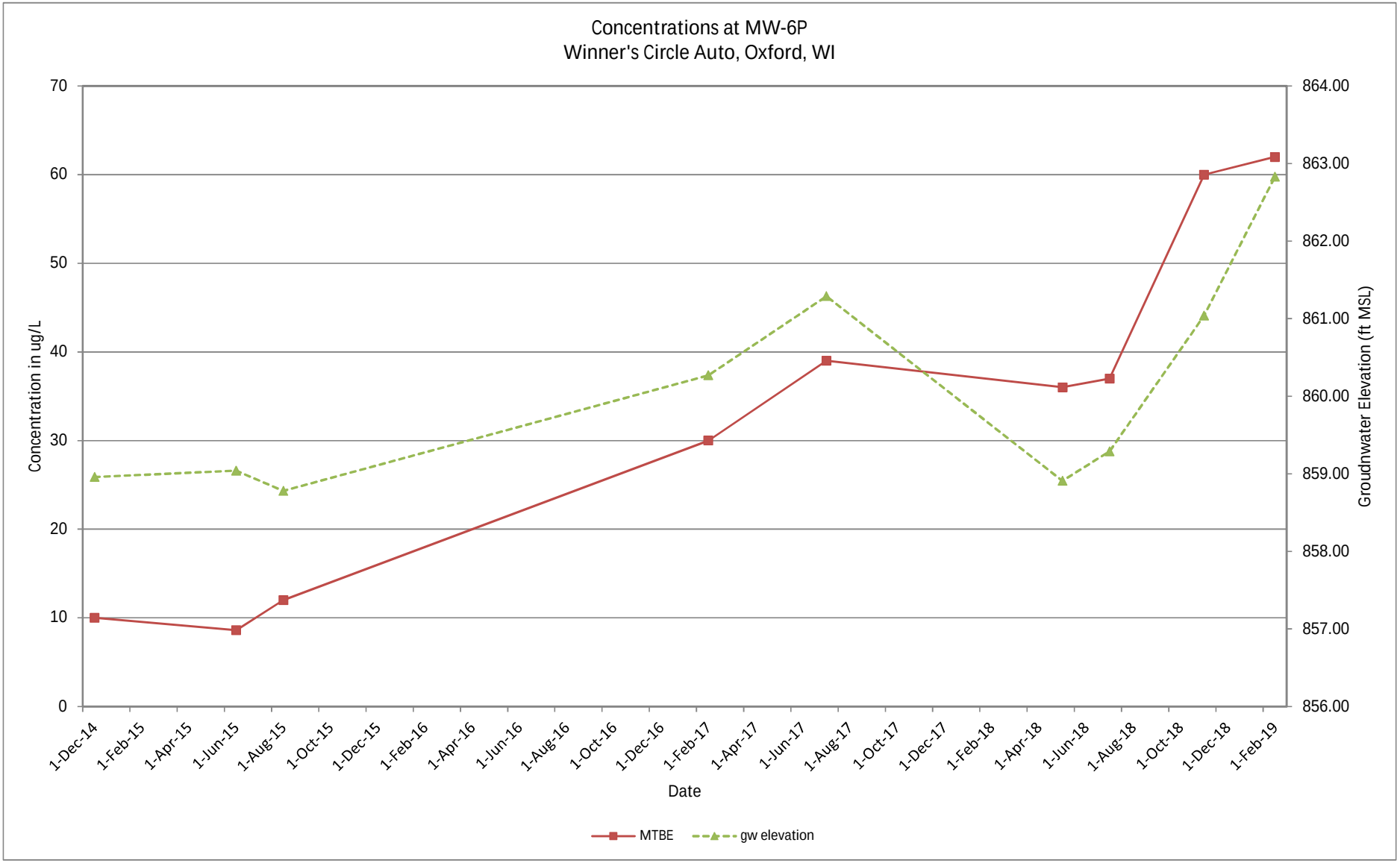
	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert- butyl- ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
128 W. Vallette														
15-Nov-05	<0.21	<0.23	<0.10	<0.22	<0.12	<0.12	<0.15							
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
16-Feb-12	vacant, for sale													
29-Nov-12	vacant, for sale													
31-Dec-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
201 S. Oxford														
19-Sep-07	<0.12	<0.28	<0.25	<0.40	<0.40	<0.13	<0.25							
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
23-Aug-12	<0.40	<0.50	<0.50	<1.70	<1.00	<0.40	<0.60							
3-Jun-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
214 S. Oxford														
26-Feb-08	<0.12	<0.28	<0.25	<0.40	<0.40	<0.13	<0.25							
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
5-Jan-12	<0.25	<0.25	<0.22	<0.39	<0.44	<0.23	<0.50							
31-Dec-13	vacant, no occupant													
31-Mar-14	<0.50	<0.50	<0.50	<1.50	<1.10	<0.40	<1.2							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
209 S. Franklin														
26-Feb-08	<0.12	<0.28	<0.25	<0.40	<0.40	<0.13	<0.25							
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
215 S. Franklin														
26-Feb-08	<0.12	<0.28	<0.25	<0.40	<0.40	<0.13	<0.25							
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
125 W. Vallette														
26-Feb-08	<0.12	<0.28	<0.25	<0.40	<0.40	<0.13	<0.25							
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
31-May-12	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<2.50							
31-Mar-14	<0.50	<0.50	<0.50	<1.50	<1.10	<0.40	<1.2							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							

Laboratory Results - Groundwater
Winner's Circle Automotive, Oxford, Wisconsin

	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Tri-methyl-benzenes	Methyl- tert-butyl-ether	Naph-thalene	Lead	Total Nitrates	Total Sulfate	Dissolved Oxygen	pH	ORP	Water Level
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L		mV	MSL
NR 140 PAL	0.5	160	140	1000	96	12	10	1.5						
NR 140 ES	5	800	700	10000	480	60	100	15						
133 W. Vallette														
26-Feb-08	<0.12	<0.28	<0.25	<0.40	<0.40	<0.13	<0.25							
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
31-May-12	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<2.50							
31-Dec-13	<0.50	<0.50	<0.40	<1.40	<0.80	<0.50	<0.50							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							
141 W. Vallette														
26-Feb-08	<0.12	<0.28	<0.25	<0.40	<0.40	<0.13	<0.25							
26-Oct-09	<0.16	<0.20	<0.28	<0.50	<0.24	<0.23	<0.60							
5-Jan-12	<0.25	<0.25	<0.22	<0.39	<0.44	<0.23	<0.50							
31-Mar-14	<0.50	<0.50	<0.50	<1.50	<1.10	<0.40	<1.2							
28-Jul-17	<0.40	<0.40	<0.40	<1.20	<0.80	<0.40	<0.90							

PAL = Wisconsin Administrative Code NR 140 preventive action limit
ES = Wisconsin Administrative Code NR 140 enforcement standard
MSL = mean sea level
Values in BOLD exceed NR 140 enforcement standard


Concentrations at MW-3
Winner's Circle Auto, Oxford, WI
Concentration in ug/L
Groundwater Elevation (ft MSL)
80000
70000
60000
50000
40000
30000
20000
10000
0
864.00
863.00
862.00
861.00
860.00
859.00
858.00
857.00
1-Nov-11
1-Mar-12
1-Jul-12
1-Nov-12
1-Mar-13
1-Jul-13
1-Nov-13
1-Mar-14
1-Jul-14
1-Nov-14
1-Mar-15
1-Jul-15
1-Nov-15
1-Mar-16
1-Jul-16
1-Nov-16
1-Mar-17
1-Jul-17
1-Nov-17
1-Mar-18
1-Jul-18
1-Nov-18
Date
benzene
toluene
ethylbenzene
xylenes
gw elevation
Linear (toluene)
Linear (xylenes)


Concentrations at MW-6P
Winner's Circle Auto, Oxford, WI
Concentration in ug/L
Groudnwater Elevation (ft MSL)
Date
70
60
50
40
30
20
10
0
864.00
863.00
862.00
861.00
860.00
859.00
858.00
857.00
856.00
1-Dec-14
1-Feb-15
1-Apr-15
1-Jun-15
1-Aug-15
1-Oct-15
1-Dec-15
1-Feb-16
1-Apr-16
1-Jun-16
1-Aug-16
1-Oct-16
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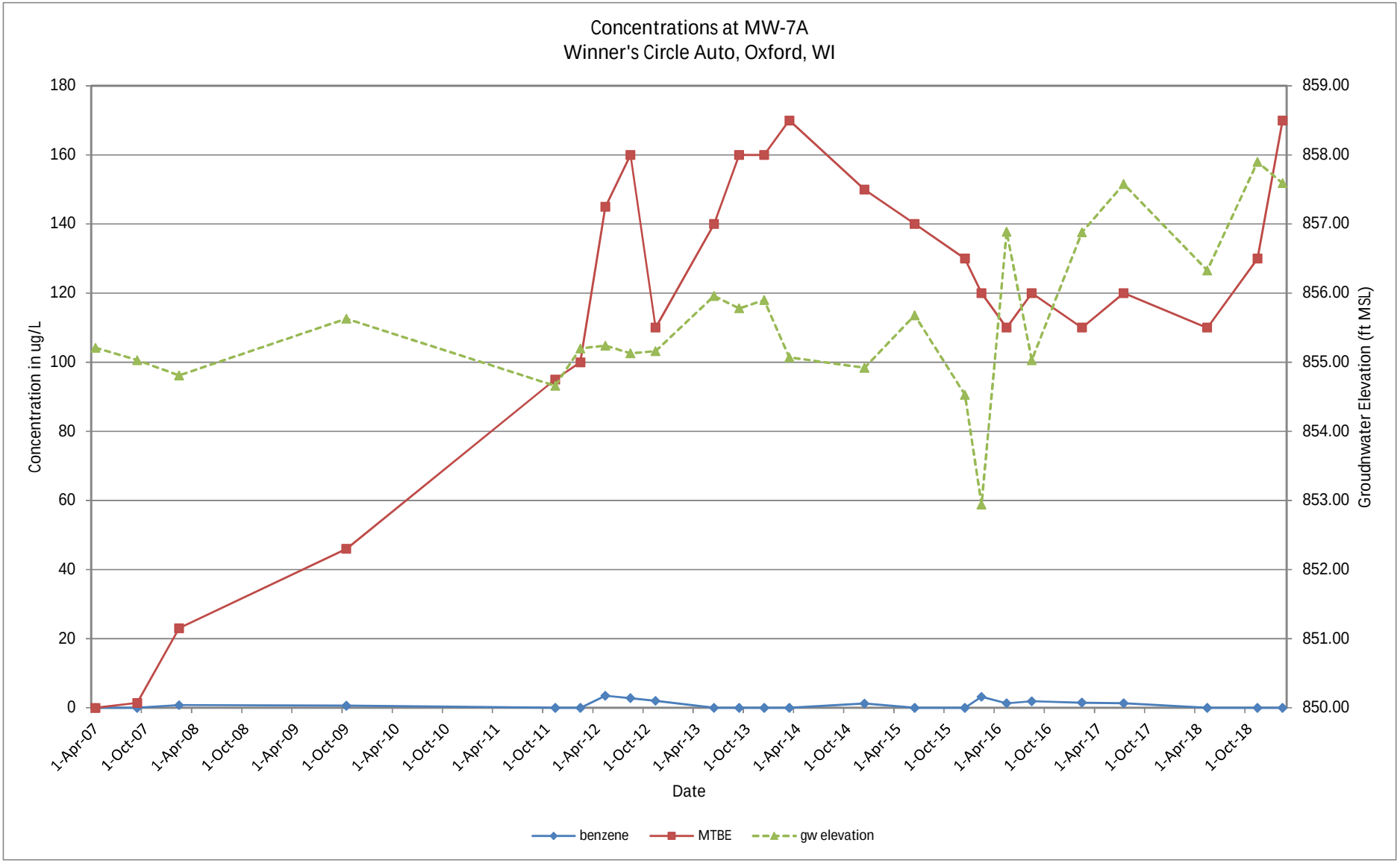
1-Jun-17
1-Aug-17
1-Oct-17
1-Dec-17
1-Feb-18
1-Apr-18
1-Jun-18
1-Aug-18
1-Oct-18
1-Dec-18
1-Feb-19
MTBE
gw elevation


Concentrations at MW-7A
Winner's Circle Auto, Oxford, WI
Concentration in ug/L
Groudnwater Elevation (ft MSL)
Date
180
160
140
120
100
80
60
40
20
0
859.00
858.00
857.00
856.00
855.00
854.00
853.00
852.00
851.00
850.00
1-Apr-07
1-Oct-07
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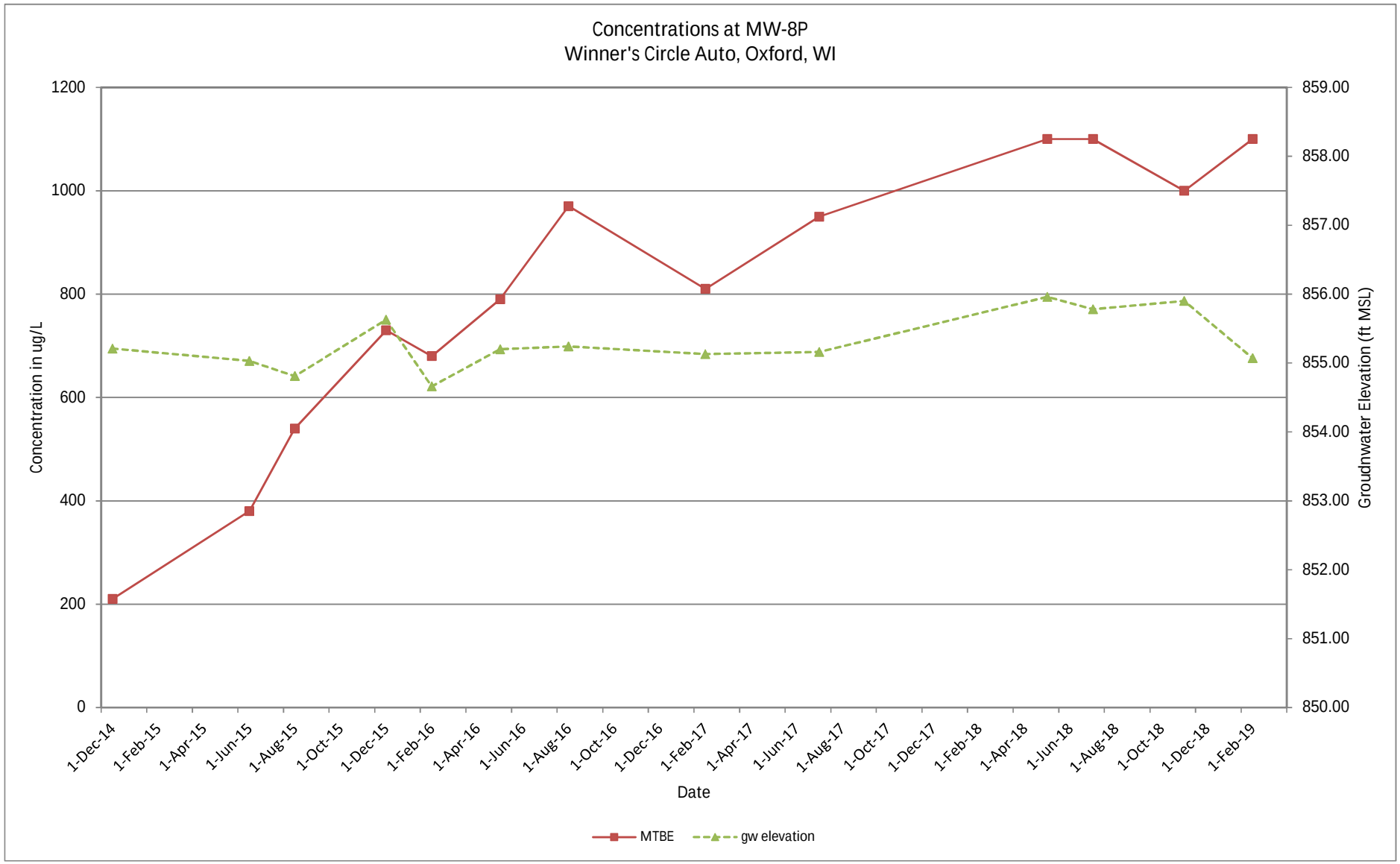
1-Oct-14
1-Apr-15
1-Oct-15
1-Apr-16
1-Oct-16
1-Apr-17
1-Oct-17
1-Apr-18
1-Oct-18
benzene
MTBE
gw elevation


Concentrations at MW-8P
Winner's Circle Auto, Oxford, WI
Concentration in ug/L
Groudnwater Elevation (ft MSL)
1200
1000
800
600
400
200
0
859.00
858.00
857.00
856.00
855.00
854.00
853.00
852.00
851.00
850.00
1-Dec-14
1-Feb-15
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1-Oct-17
1-Dec-17
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1-Jun-18
1-Aug-18
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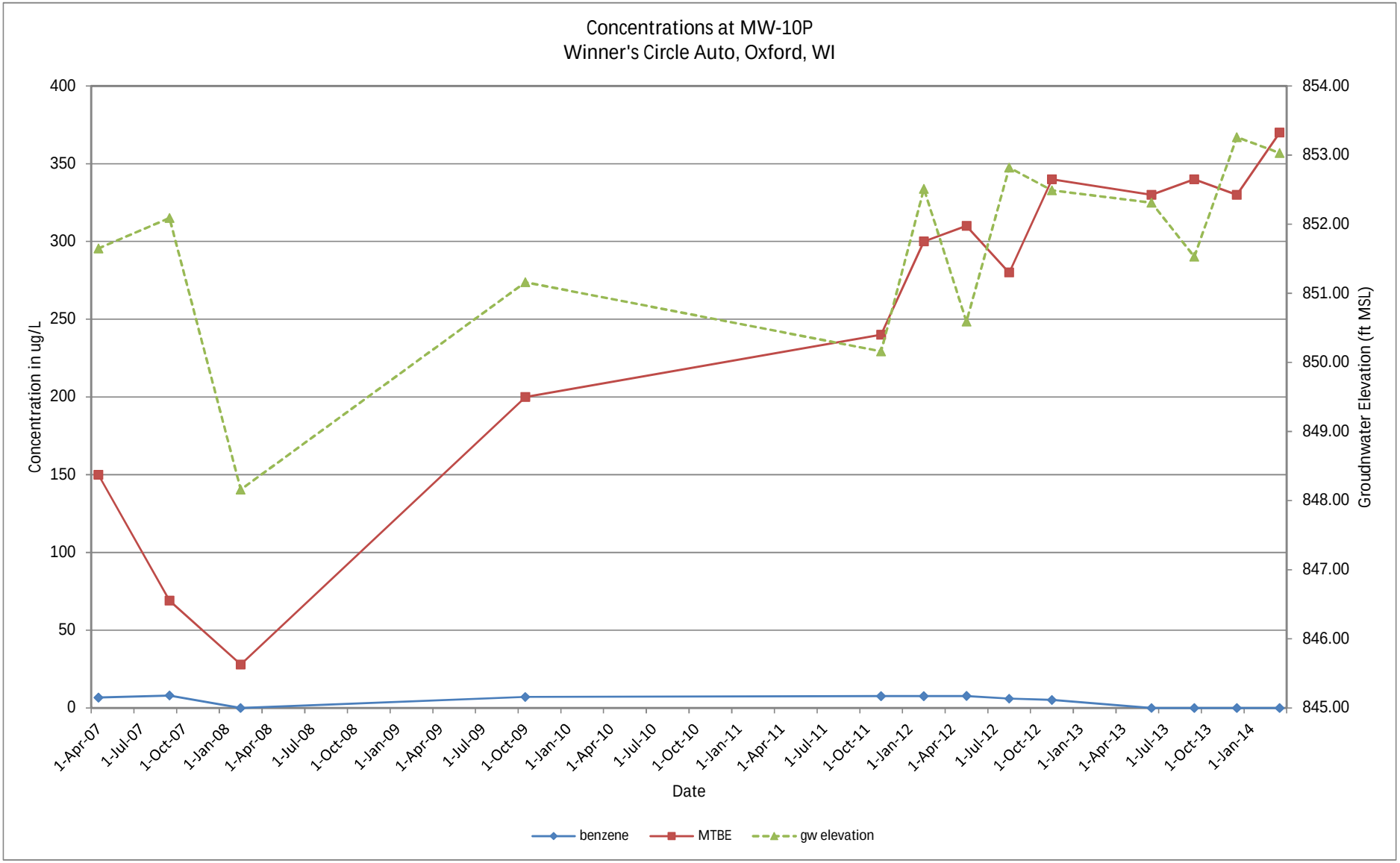
1-Dec-18
1-Feb-19
Date
MTBE
gw elevation


Concentrations at MW-10P
Winner's Circle Auto, Oxford, WI
Concentration in ug/L
Groudnwater Elevation (ft MSL)
Date
400
350
300
250
200
150
100
50
0
854.00
853.00
852.00
851.00
850.00
849.00
848.00
847.00
846.00
845.00
1-Apr-07
1-Jul-07
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1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
1-Jul-12
1-Oct-12
1-Jan-13
1-Apr-13
1-Jul-13
1-Oct-13
1-Jan-14
benzene
MTBE
gw elevation

W. ORMSBY STREET (STH 82)

LEGEND

EXISTING MONITORING WELL

BRIDGE

NEENAH CREEK

NORTH CREEK BED SAMPLES

SOUTH CREEK BED SAMPLES

BRIDGE

113 OXFORD TELLIER

121 OXFORD THOMAS WASTART

129 OXFORD DALE KORTH

201 OXFORD KRUSE AND GORDON

209 OXFORD JOHN KRUSE

229 OXFORD GEORGE (ED) JOHNSON

MW11P

MW7

MW7A

MW10

MW10P

OXFORD STREET

139 W. ORMSBY LAW OFFICES

135 W ORMSBY TREND SETTERS HAIR SALON

127 W. ORMSBY VISITOR INFO CENTER

115 W. ORMSBY WINNER'S CIRCLE AUTO

111 W. ORMSBY VARIETY STORE

107 W. ORMSBY R+PLACE

MW2

MW1

MW3

MW4

MW6P

MW6

MW5

128 OXFORD TOM ROOS

128 VALLETTE HAUGEN & EVERETT

ALLEY

PUBLIC WORKS GARAGE & LIBRARY

MW8P

MW8

MW9P

VALLETTE STREET

141 VALLETTE LISA MARIE LONG

214 OXFORD ALICE PFLUM

133 VALLETTE JOHN ELLIS

125 VALLETTE SHEILA SIEKERT

ALLEY

209 FRANKLIN PATRICIA DRINKWATER

215 FRANKLIN KOHL MEYER

138 CHAUNCEY HOLIDAY

ALLEY

126 CHAUNCEY THOMAS WASTART

120 CHAUNCEY THOMAS WASTART

ALLEY

223 FRANKLIN EARL STOMNER

229 FRANKLIN DENNIS

FRANKLIN STREET

ROYAL BANK

ALLEY

122 FRANKLIN LOLA FOOTE

GRAND MARSH STATE BANK

SCHOOL 222 FRANKLIN

306 FRANKLIN

CHAUNCEY STREET

MW13P

MW12P

219 W. CHAUNCEY

205 W. CHAUNCEY

147 W. CHAUNCEY

131 W. CHAUNCEY

307 FRANKLIN

N

W E

S

0 50 100 200

ATTACHMENT B.3.d

MONITORING WELL LOCATIONS

WINNER'S CIRCLE AUTO
OXFORD, WISCONSIN

MSA PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL
DEVELOPMENT • ENVIRONMENTAL
1230 South Boulevard Baraboo, WI 53913
608-356-2771 1-800-362-1305 Fax: 608-356-2770

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CHECKED BY		SCALE	AS NOTED	FILE NO. B.3.d

4/5/2019 9:44:06 AM

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LEGEND

- EXISTING MONITORING WELL
- EXTENT OF GROUNDWATER CONTAMINATION EXCEEDING NR140 ENFORCEMENT STANDARDS AS OF FEBRUARY 2019

W. ORMSBY STREET (STH 82)

BRIDGE

NEENAH CREEK

113 OXFORD TELLIER

121 OXFORD THOMAS WASTART

129 OXFORD DALE KORTH

201 OXFORD KRUSE AND GORDON

209 OXFORD JOHN KRUSE

229 OXFORD GEORGE (ED) JOHNSON

OXFORD STREET

MW11P

MW7

MW7A

MW10

MW10P

139 W. ORMSBY LAW OFFICES

135 W ORMSBY TREND SETTERS HAIR SALON

127 W. ORMSBY VISITOR INFO CENTER

115 W. ORMSBY WINNER'S CIRCLE AUTO

111 W. ORMSBY VARIETY STORE

107 W. ORMSBY R-PLACE

MW2

MW1

MW3

MW4

MW5

MW6P

MW6

128 OXFORD TOM ROOS

128 VALLETTE HAUGEN & EVERETT

ALLEY

PUBLIC WORKS GARAGE & LIBRARY

MW8P

MW8

MW9P

VALLETTE STREET

141 VALLETTE LISA MARIE LONG

214 OXFORD ALICE PFLUM

133 VALLETTE JOHN ELLIS

125 VALLETTE SHEILA SIEKERT

ALLEY

209 FRANKLIN PATRICIA DRINKWATER

215 FRANKLIN KOHL MEYER

136 CHAUNCEY HOLIDAY

ALLEY

126 CHAUNCEY THOMAS WASTART

120 CHAUNCEY THOMAS WASTART

ALLEY

223 FRANKLIN EARL STOMNER

229 FRANKLIN DENNIS

FRANKLIN STREET

ROYAL BANK

ALLEY

122 FRANKLIN LOLA FOOTE

GRAND MARSH STATE BANK

SCHOOL 222 FRANKLIN

BRIDGE

CHAUNCEY STREET

MW13P

MW12P

219 W. CHAUNCEY

205 W. CHAUNCEY

147 W. CHAUNCEY

131 W. CHAUNCEY

307 FRANKLIN

306 FRANKLIN

N

W E

S

0 50 100 200

ATTACHMENT B.3.b

GROUNDWATER ISOCONCENTRATION

WINNER'S CIRCLE AUTO
OXFORD, WISCONSIN

MSA PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL
DEVELOPMENT • ENVIRONMENTAL
1230 South Boulevard Baraboo, WI 53913
608-356-2771 1-800-362-1905 Fax: 608-356-2770

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CHECKED BY		SCALE	AS NOTED

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FILE NO. B.3.b

$DATE$
$TIME$

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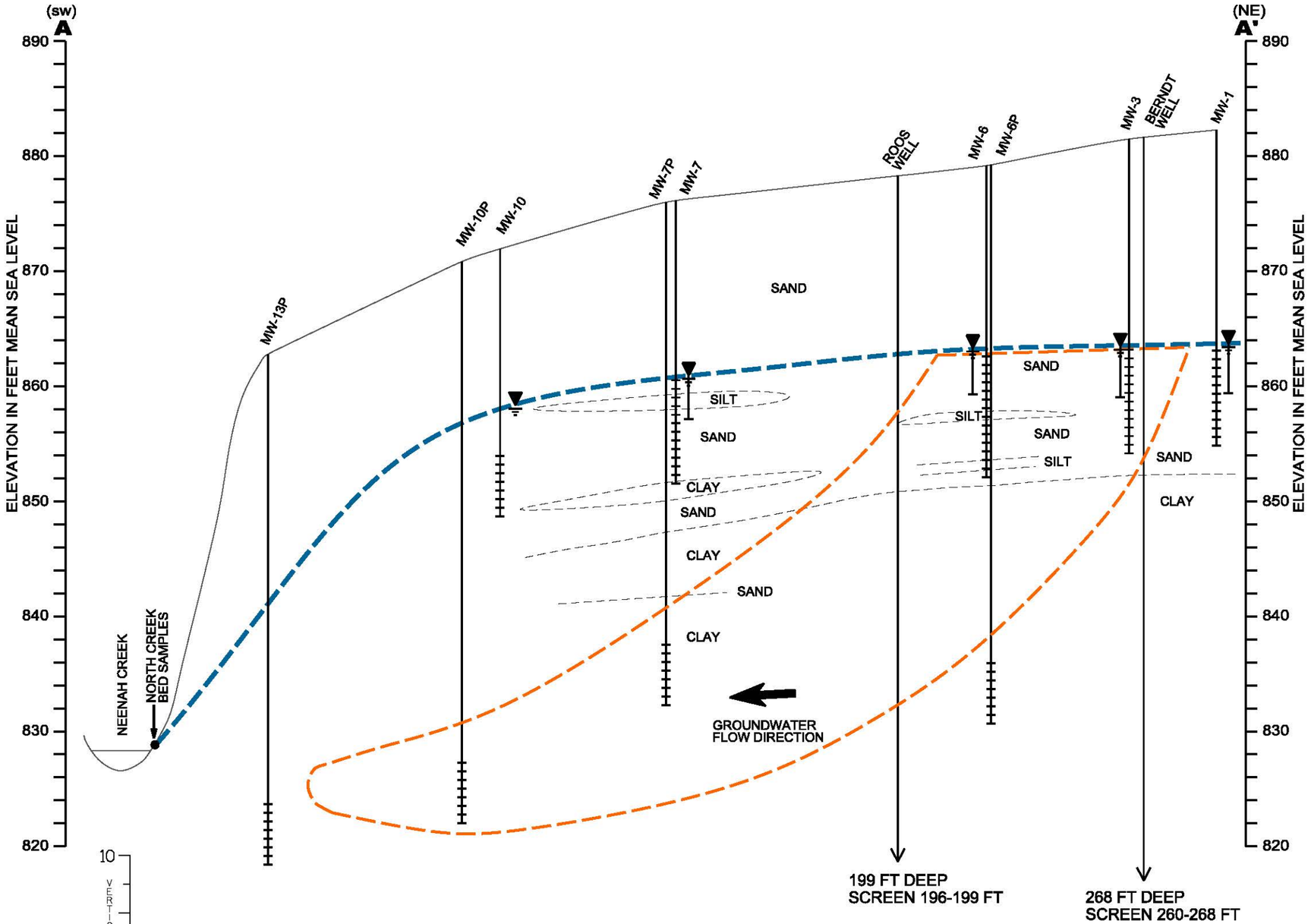

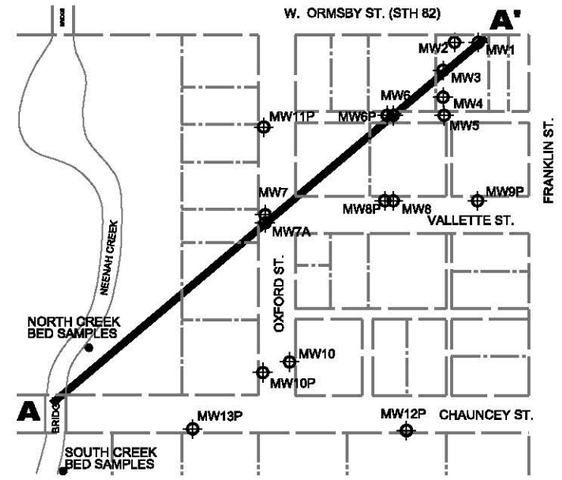

CROSS SECTION LOCATION

WATER TABLE SURFACE

ESTIMATED EXTENT OF GROUNDWATER CONTAMINANT PLUME EXCEEDING NR140 ENFORCEMENT STANDARD

SCREENED AREA IN WELL

RANGE OF ELEVATION OF SURFACE OF WATER TABLE

FIGURE B.3.a.1

GEOLOGIC CROSS SECTION UPPER UNITS

WINNER'S CIRCLE AUTO (FMR. TIM'S AUTO)
115 ORMSBY STREET
OXFORD, WISCONSIN

MSA PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL
DEVELOPMENT • ENVIRONMENTAL
1230 South Boulevard Baraboo, WI 53913
608-356-2771 1-800-362-4305 Fax: 608-356-2770
@ MSA PROFESSIONAL SERVICES

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CHECKED BY | SCALE AS NOTED | FILE NO. 213212

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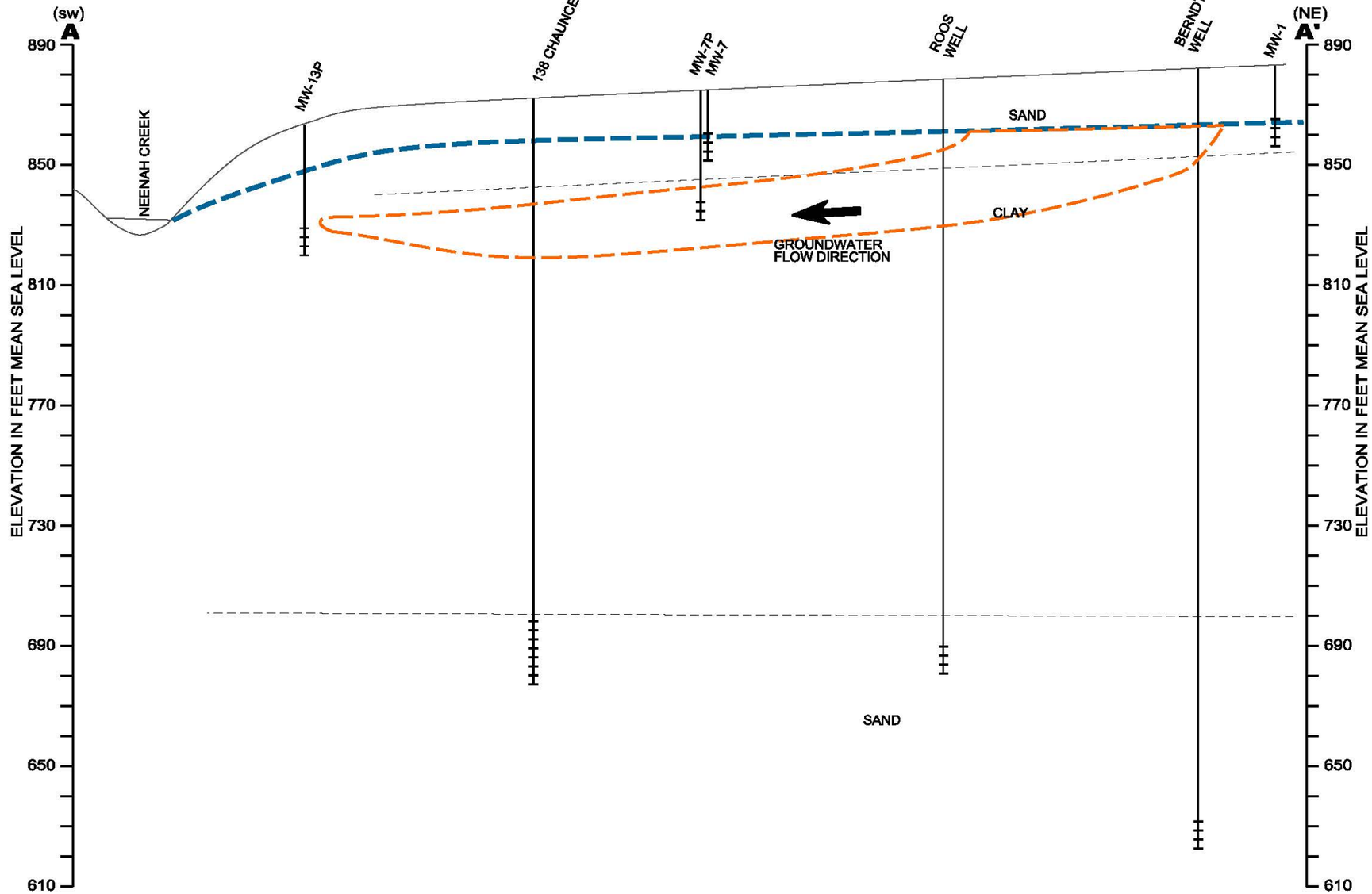
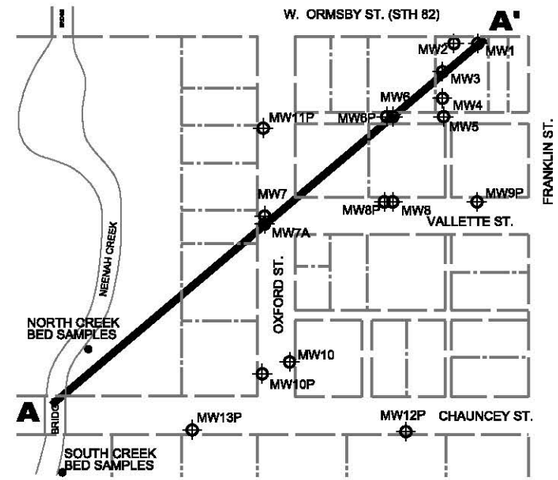


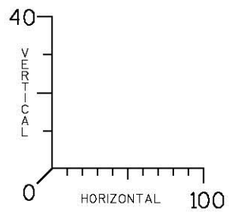


CROSS SECTION LOCATION

WATER TABLE SURFACE

ESTIMATED EXTENT OF GROUNDWATER CONTAMINANT PLUME EXCEEDING NR140 ENFORCEMENT STANDARD

SCREENED AREA IN WELL



SCALE IN FEET
VERTICAL EXAGGERATION
2.5X HORIZONTAL SCALE

FIGURE B.3.a.2

GEOLOGIC CROSS SECTION
DEEPER UNITS
WINNER'S CIRCLE AUTO (FMR. TIM'S AUTO)
115 ORMSBY STREET
OXFORD, WISCONSIN

MSA PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL
DEVELOPMENT • ENVIRONMENTAL
1230 South Boulevard Baraboo, WI 53913
608-356-2771 1-800-362-4305 Fax: 608-356-2770

DRAWN BY CDS | DATE 4-5-19 | SHEET ____ OF ____
CHECKED BY | SCALE AS NOTED | FILE NO. 213212

$DATE$
$TIME$

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State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Winner's Circle Auto	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-10
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VR763 / DNR Well ID No.: ___
Facility ID: ___	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 04/26/2018 (m m d d y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: NE 1/4 of SW 1/4 of Sec. 17, T. 15 N, R. 8 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: Darrin Prentice / Geiss Soil and Sampling
Distance from Waste/Source: 500 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known	Gov. Lot Number: ___

A. Protective pipe, top elevation 871.25 ft. MSL
B. Well casing, top elevation 871.25 ft. MSL
C. Land surface elevation 871.745 ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

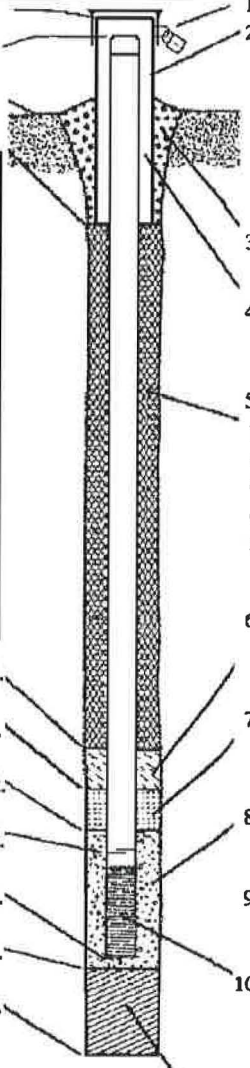
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.
F. Fine sand, top _____ ft. MSL or 9.0 ft.
G. Filter pack, top _____ ft. MSL or 10.5 ft.
H. Screen joint, top _____ ft. MSL or 12.5 ft.
I. Well bottom _____ ft. MSL or 22.5 ft.
J. Filter pack, bottom _____ ft. MSL or 22.5 ft.
K. Borehole, bottom _____ ft. MSL or 22.5 ft.
L. Borehole, diameter 8.4 in.
M. O.D. well casing 2.37 in.
N. I.D. well casing 2.01 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9.0 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐ ___
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ ___
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ ___
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 100 lbs ft³ volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☐ 32
c. _____ Other ☐ ___
7. Fine sand material: Manufacturer, product name & mesh size
a. Am. Materials - Red Flint #15 ___
b. Volume added 50 lbs ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. AM - Red Flint #40 ___
b. Volume added 250 lbs ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ___
10. Screen material: PVC - Sch. 40 ___
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ ___
b. Manufacturer Northern Air
c. Slot size: 0.010 in.
d. Slotted length: 9.5 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ ___

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Jayne Eichelberger | Firm: MSA Prof. Services

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Winner's Circle Auto	Marquette	MW-10
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	__	VR763	___

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☒ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐ __

3. Time spent developing well _____ min.

4. Depth of well (from top of well casisng) 22.3 ft.

5. Inside diameter of well 2.01 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 55. gal.

8. Volume of water added (if any) 0. gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 13.11 ft. (22.25)	13.34 ft. (22.25) Depth
Date	b. 05/15/2018 (m m d d y y y y)	05/15/2018
Time	c. __:__ ☐ a.m. ☐ p.m.	__:__ ☐ a.m. ☐ p.m.
12. Sediment in well bottom	0. inches	0. inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: David Last Name: Fitzsimmons
Firm: MSA

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Terry Last Name: Burndt
Facility/Firm: Winner's Circle Auto
Street: 115 W. Ormsby Street
City/State/Zip: Oxford, WI

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Jayne Englebert
Print Name: Jayne Englebert
Firm: MSA

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: Winner's Circle Auto	License/Permit/Monitoring Number:	Boring Number: MW-10
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice; Firm: Geiss Soils and Sampling	Date Drilling Started: 04/26/2018 (mm/dd/yyyy)	Date Drilling Completed: 04/26/2018 (mm/dd/yyyy) — Drilling Method: HSA
WI Unique Well No.: VR763 — DNR Well ID No.: — Well Name: MW-10	Final Static Water Level: 13.3 Feet MSL	Surface Elevation: 871.7 Feet MSL — Borehole Diameter: 8.4 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W
NE 1/4 of SW 1/4 of Section 17, T 15 N, R 8 E		
Facility ID	County: Marquette — County Code: —	Civil Town/City/ or Village: Village of Oxford

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Grass surface, topsoil				0						
2	16		0.5	Brown Silty Sand										
4	16		3.8	Tan Silty Sand to Fine Sand				0						
6	22							0						
8	22							0						
	20				SP			0						
10	20							0						
12	22							0						
14	22		15	wet				0						
16	23							0						
18	23							0						
20			22.5	EOB Set well				0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Jayne Eglebart	MSA

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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608-356-2760 • www.ctlaboratories.com

ANALYTICAL REPORT

MSA PROFESSIONAL SERVICES
JAYNE ENGLEBERT
1230 SOUTH BLVD
BARABOO, WI 53913

Project Name: WINNERS CIRCLE
Project Phase:
Contract #: 2054
Project #: 213212
Folder #: 136152
Purchase Order #:

Arrival Temperature: See COC
Report Date: 06/05/2018
Date Received: 05/15/2018
Reprint Date: 06/05/2018

CT LAB Sample#: 120463 Sample Description: MW-2 Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	**4900**	ug/L	200	650	500			05/28/2018 14:40	DGS	EPA 8021B
1,3,5-Trimethylbenzene	**1600**	ug/L	200	700	500			05/28/2018 14:40	DGS	EPA 8021B
Benzene	<200	ug/L	200	650	500			05/28/2018 14:40	DGS	EPA 8021B
Ethylbenzene	**950**	ug/L	200	700	500			05/28/2018 14:40	DGS	EPA 8021B
m & p-Xylene	**16000**	ug/L	400	1400	500			05/28/2018 14:40	DGS	EPA 8021B
Methyl tert-butyl ether	<200	ug/L	200	650	500			05/28/2018 14:40	DGS	EPA 8021B
Naphthalene	**920**	ug/L	450	1500	500	*		05/28/2018 14:40	DGS	EPA 8021B
o-Xylene	**8900**	ug/L	200	700	500			05/28/2018 14:40	DGS	EPA 8021B
Toluene	**2900**	ug/L	200	700	500			05/28/2018 14:40	DGS	EPA 8021B

CT LAB Sample#: 120464 Sample Description: MW-3 Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 120464 Sample Description: MW-3 Sampled: 05/15/2018

Analyte	Result	Units	LOD		LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trimethylbenzene	**4100**	ug/L	80		260	200			05/22/2018 09:16	DGS	EPA 8021B
1,3,5-Trimethylbenzene	**1300**	ug/L	80		280	200			05/22/2018 09:16	DGS	EPA 8021B
Benzene	**200**	ug/L	80	*	260	200			05/22/2018 09:16	DGS	EPA 8021B
Ethylbenzene	**2600**	ug/L	80		280	200			05/22/2018 09:16	DGS	EPA 8021B
m & p-Xylene	**14000**	ug/L	160		560	200			05/22/2018 09:16	DGS	EPA 8021B
Methyl tert-butyl ether	<80	ug/L	80		260	200			05/22/2018 09:16	DGS	EPA 8021B
Naphthalene	**1000**	ug/L	180		580	200			05/22/2018 09:16	DGS	EPA 8021B
o-Xylene	**7500**	ug/L	80		280	200			05/22/2018 09:16	DGS	EPA 8021B
Toluene	**20000**	ug/L	200		700	500			05/28/2018 15:50	DGS	EPA 8021B

CT LAB Sample#: 120465 Sample Description: MW-4 Sampled: 05/15/2018

Analyte	Result	Units	LOD		LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results											
1,2,4-Trimethylbenzene	**490**	ug/L	10		33	25			05/28/2018 13:31	DGS	EPA 8021B
1,3,5-Trimethylbenzene	**20**	ug/L	0.40		1.4	1			05/22/2018 03:33	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40		1.3	1			05/22/2018 03:33	DGS	EPA 8021B
Ethylbenzene	**26**	ug/L	0.40		1.4	1			05/22/2018 03:33	DGS	EPA 8021B
m & p-Xylene	**1000**	ug/L	20		70	25			05/28/2018 13:31	DGS	EPA 8021B
Methyl tert-butyl ether	<0.40	ug/L	0.40		1.3	1			05/22/2018 03:33	DGS	EPA 8021B
Naphthalene	**19**	ug/L	0.90		2.9	1			05/22/2018 03:33	DGS	EPA 8021B
o-Xylene	**530**	ug/L	10		35	25			05/28/2018 13:31	DGS	EPA 8021B
Toluene	**6.0**	ug/L	0.40		1.4	1			05/22/2018 03:33	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 120466 Sample Description: MW-6 Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	**63**	ug/L	2.0	6.5	5			05/28/2018 11:47	DGS	EPA 8021B
1,3,5-Trimethylbenzene	**37**	ug/L	2.0	7.0	5			05/28/2018 11:47	DGS	EPA 8021B
Benzene	**15**	ug/L	2.0	6.5	5			05/28/2018 11:47	DGS	EPA 8021B
Ethylbenzene	**3.4**	ug/L	2.0 *	7.0	5			05/28/2018 11:47	DGS	EPA 8021B
m & p-Xylene	**130**	ug/L	4.0	14	5			05/28/2018 11:47	DGS	EPA 8021B
Methyl tert-butyl ether	<2.0	ug/L	2.0	6.5	5			05/28/2018 11:47	DGS	EPA 8021B
Naphthalene	**17**	ug/L	4.5	15	5			05/28/2018 11:47	DGS	EPA 8021B
o-Xylene	**100**	ug/L	2.0	7.0	5			05/28/2018 11:47	DGS	EPA 8021B
Toluene	**3.8**	ug/L	2.0 *	7.0	5			05/28/2018 11:47	DGS	EPA 8021B

CT LAB Sample#: 120467 Sample Description: MW-6P Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Qualifiers applying to all Analytes of Method EPA 8021B: T										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			05/21/2018 20:06	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			05/21/2018 20:06	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			05/21/2018 20:06	DGS	EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			05/21/2018 20:06	DGS	EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			05/21/2018 20:06	DGS	EPA 8021B
Methyl tert-butyl ether	**36**	ug/L	0.40	1.3	1	M		05/21/2018 20:06	DGS	EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1	M		05/21/2018 20:06	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 120467 Sample Description: MW-6P Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8021B: T										
o-Xylene	<0.40	ug/L	0.40	1.4	1			05/21/2018 20:06	DGS	EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			05/21/2018 20:06	DGS	EPA 8021B

CT LAB Sample#: 120468 Sample Description: MW-7P Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<2.0	ug/L	2.0	6.5	5			05/28/2018 12:22	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<2.0	ug/L	2.0	7.0	5			05/28/2018 12:22	DGS	EPA 8021B
Benzene	<2.0	ug/L	2.0	6.5	5			05/28/2018 12:22	DGS	EPA 8021B
Ethylbenzene	**4.7**	ug/L	2.0 *	7.0	5			05/28/2018 12:22	DGS	EPA 8021B
m & p-Xylene	<4.0	ug/L	4.0	14	5			05/28/2018 12:22	DGS	EPA 8021B
Methyl tert-butyl ether	**110**	ug/L	2.0	6.5	5			05/28/2018 12:22	DGS	EPA 8021B
Naphthalene	<4.5	ug/L	4.5	15	5			05/28/2018 12:22	DGS	EPA 8021B
o-Xylene	<2.0	ug/L	2.0	7.0	5			05/28/2018 12:22	DGS	EPA 8021B
Toluene	<2.0	ug/L	2.0	7.0	5			05/28/2018 12:22	DGS	EPA 8021B

CT LAB Sample#: 120469 Sample Description: MW-8P Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 120469 Sample Description: MW-8P Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8021B: T										
1,2,4-Trimethylbenzene	<20	ug/L	20	65	50			05/22/2018 08:07	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<20	ug/L	20	70	50			05/22/2018 08:07	DGS	EPA 8021B
Benzene	<20	ug/L	20	65	50			05/22/2018 08:07	DGS	EPA 8021B
Ethylbenzene	<20	ug/L	20	70	50			05/22/2018 08:07	DGS	EPA 8021B
m & p-Xylene	<40	ug/L	40	140	50			05/22/2018 08:07	DGS	EPA 8021B
Methyl tert-butyl ether	**1100**	ug/L	20	65	50			05/22/2018 08:07	DGS	EPA 8021B
Naphthalene	<45	ug/L	45	150	50			05/22/2018 08:07	DGS	EPA 8021B
o-Xylene	<20	ug/L	20	70	50			05/22/2018 08:07	DGS	EPA 8021B
Toluene	<20	ug/L	20	70	50			05/22/2018 08:07	DGS	EPA 8021B

CT LAB Sample#: 120470 Sample Description: MW-10 Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Qualifiers applying to all Analytes of Method EPA 8021B: H										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			06/01/2018 20:24	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			06/01/2018 20:24	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			06/01/2018 20:24	DGS	EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			06/01/2018 20:24	DGS	EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			06/01/2018 20:24	DGS	EPA 8021B
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			06/01/2018 20:24	DGS	EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			06/01/2018 20:24	DGS	EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			06/01/2018 20:24	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 120470 Sample Description: MW-10 Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8021B: H										
Toluene	<0.40	ug/L	0.40	1.4	1			06/01/2018 20:24	DGS	EPA 8021B

CT LAB Sample#: 120471 Sample Description: MW-10P Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Qualifiers applying to all Analytes of Method EPA 8021B: T										
1,2,4-Trimethylbenzene	<8.0	ug/L	8.0	26	20			05/22/2018 05:50	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<8.0	ug/L	8.0	28	20			05/22/2018 05:50	DGS	EPA 8021B
Benzene	<8.0	ug/L	8.0	26	20			05/22/2018 05:50	DGS	EPA 8021B
Ethylbenzene	<8.0	ug/L	8.0	28	20			05/22/2018 05:50	DGS	EPA 8021B
m & p-Xylene	<16	ug/L	16	56	20			05/22/2018 05:50	DGS	EPA 8021B
Methyl tert-butyl ether	**330**	ug/L	8.0	26	20			05/22/2018 05:50	DGS	EPA 8021B
Naphthalene	<18	ug/L	18	58	20			05/22/2018 05:50	DGS	EPA 8021B
o-Xylene	<8.0	ug/L	8.0	28	20			05/22/2018 05:50	DGS	EPA 8021B
Toluene	<8.0	ug/L	8.0	28	20			05/22/2018 05:50	DGS	EPA 8021B

CT LAB Sample#: 120472 Sample Description: MW-13P Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 120472 Sample Description: MW-13P Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			05/21/2018 20:40	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			05/21/2018 20:40	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			05/21/2018 20:40	DGS	EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			05/21/2018 20:40	DGS	EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			05/21/2018 20:40	DGS	EPA 8021B
Methyl tert-butyl ether	**2.8**	ug/L	0.40	1.3	1			05/21/2018 20:40	DGS	EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			05/21/2018 20:40	DGS	EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			05/21/2018 20:40	DGS	EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			05/21/2018 20:40	DGS	EPA 8021B

CT LAB Sample#: 120473 Sample Description: TRIP BLANK Sampled: 05/15/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			05/21/2018 21:15	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			05/21/2018 21:15	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			05/21/2018 21:15	DGS	EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			05/21/2018 21:15	DGS	EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			05/21/2018 21:15	DGS	EPA 8021B
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			05/21/2018 21:15	DGS	EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			05/21/2018 21:15	DGS	EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			05/21/2018 21:15	DGS	EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			05/21/2018 21:15	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 02/2017

CHAIN OF CUSTODY

Company: MSA Professional
Project Contact: Jayne Englebert
Telephone: 608-356-2771
Project Name: Winners Circle
Project #: 213212
Location: WI
Sampled By: David Fitzsimmons

CT LA
1230 Lange Court, Baraboo, WI 53913
760 Fax 608-356-2766
www.ctlaboratories.com

Order #: 136152
Company: MSA PROFESSIONAL S
Project: WINNERS CIRCLE
Logged By: BNA PM: ET

SDWA NPDES
Other ________

Report To: MSA
EMAIL:
Company: 1230 South Blvd.
Address: Baraboo, WI 53913

Invoice To:*
EMAIL:
Company: Same
Address:

Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions
PECFA

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

ANALYSES REQUESTED: PVOC + Naph

Turnaround Time: Normal (circled) RUSH*
Date Needed: ________
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	PVOC + Naph	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
5/15/18		GW	G		MW-2	N	X	3		120463
					MW-3		X	3		120464
					MW-4		X	3		120465
					MW-6		X	3		120466
					MW-6P		X	3		120467
					MW-7P		X	3		120468
					MW-8P		X	3		120469
					MW-10		X	3		120470
					MW-10P		X	3		120471
					MW-13P		X	3		120472
					Trip Blank		X	3		120473

Fill in Spaces with Bottles per Test

Relinquished By:	Date/Time	Received By:	Date/Time
David Fitzsimmons	5/15/18	[signature]	5-15-18 1409
Received by:	Date/Time	Received for Laboratory by: [signature]	5-15-18 1409

Lab Use Only
Ice Present: Yes (circled) No
Temp 0.7 IR Gun 24
Cooler # [illegible]

CT LABORATORIES
delivering more than data from your environmental analyses

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608-356-2760 • www.ctlaboratories.com

ANALYTICAL REPORT

MSA PROFESSIONAL SERVICES
JAYNE ENGLEBERT
1230 SOUTH BLVD
BARABOO, WI 53913

Project Name: WINNERS CIRCLE
Project Phase:
Contract #: 2054
Project #: 213212
Folder #: 138238
Purchase Order #:

Arrival Temperature: See COC
Report Date: 08/08/2018
Date Received: 08/01/2018
Reprint Date: 08/08/2018

CT LAB Sample#: 158539 Sample Description: MW-6P Sampled: 07/31/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Qualifiers applying to all Analytes of Method EPA 8021B: T										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			08/06/2018 15:49		EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			08/06/2018 15:49		EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			08/06/2018 15:49		EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			08/06/2018 15:49		EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			08/06/2018 15:49		EPA 8021B
Methyl tert-butyl ether	**37**	ug/L	0.40	1.3	1			08/06/2018 15:49		EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			08/06/2018 15:49		EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			08/06/2018 15:49		EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			08/06/2018 15:49		EPA 8021B

CT LAB Sample#: 158540 Sample Description: MW-8P Sampled: 07/31/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 158540 Sample Description: MW-8P Sampled: 07/31/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Qualifiers applying to all Analytes of Method EPA 8021B: T										
1,2,4-Trimethylbenzene	<20	ug/L	20	65	50			08/06/2018 20:26		EPA 8021B
1,3,5-Trimethylbenzene	<20	ug/L	20	70	50			08/06/2018 20:26		EPA 8021B
Benzene	<20	ug/L	20	65	50			08/06/2018 20:26		EPA 8021B
Ethylbenzene	<20	ug/L	20	70	50			08/06/2018 20:26		EPA 8021B
m & p-Xylene	<40	ug/L	40	140	50			08/06/2018 20:26		EPA 8021B
Methyl tert-butyl ether	**1100**	ug/L	20	65	50			08/06/2018 20:26		EPA 8021B
Naphthalene	<45	ug/L	45	150	50			08/06/2018 20:26		EPA 8021B
o-Xylene	<20	ug/L	20	70	50			08/06/2018 20:26		EPA 8021B
Toluene	<20	ug/L	20	70	50			08/06/2018 20:26		EPA 8021B

CT LAB Sample#: 158541 Sample Description: MW-10 Sampled: 07/31/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			08/06/2018 16:24		EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			08/06/2018 16:24		EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			08/06/2018 16:24		EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			08/06/2018 16:24		EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			08/06/2018 16:24		EPA 8021B
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			08/06/2018 16:24		EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			08/06/2018 16:24		EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			08/06/2018 16:24		EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 158541 Sample Description: MW-10 Sampled: 07/31/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Toluene	<0.40	ug/L	0.40	1.4	1			08/06/2018 16:24		EPA 8021B

CT LAB Sample#: 158542 Sample Description: MW-10P Sampled: 07/31/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Qualifiers applying to all Analytes of Method EPA 8021B: T										
1,2,4-Trimethylbenzene	<8.0	ug/L	8.0	26	20			08/06/2018 19:16		EPA 8021B
1,3,5-Trimethylbenzene	<8.0	ug/L	8.0	28	20			08/06/2018 19:16		EPA 8021B
Benzene	<8.0	ug/L	8.0	26	20			08/06/2018 19:16		EPA 8021B
Ethylbenzene	<8.0	ug/L	8.0	28	20			08/06/2018 19:16		EPA 8021B
m & p-Xylene	<16	ug/L	16	56	20			08/06/2018 19:16		EPA 8021B
Methyl tert-butyl ether	**340**	ug/L	8.0	26	20			08/06/2018 19:16		EPA 8021B
Naphthalene	<18	ug/L	18	58	20			08/06/2018 19:16		EPA 8021B
o-Xylene	<8.0	ug/L	8.0	28	20			08/06/2018 19:16		EPA 8021B
Toluene	<8.0	ug/L	8.0	28	20			08/06/2018 19:16		EPA 8021B

CT LAB Sample#: 158543 Sample Description: TRIP BLANK Sampled: 07/31/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			08/06/2018 12:56		EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			08/06/2018 12:56		EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 158543 Sample Description: TRIP BLANK Sampled: 07/31/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzene	<0.40	ug/L	0.40	1.3	1			08/06/2018 12:56		EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			08/06/2018 12:56		EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			08/06/2018 12:56		EPA 8021B
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			08/06/2018 12:56		EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			08/06/2018 12:56		EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			08/06/2018 12:56		EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			08/06/2018 12:56		EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 02/2017

CHAIN OF CUSTODY

Page 1 of 1

Company: MSA Professional Engineering
Project Contact: Layne Engelbert
Telephone: 352-2471
Project Name: Winners Circle
Project #: 213212
Location: WI
Sampled By: David Fitzsimmons

CT LABORATORIES
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Folder #: 138238
Company: MSA PROFESSIONAL S
Project:
Logged By: BNA PM: ET

m:
RCRA SDWA NPDES
/aste Other _____

Report To: MSA
EMAIL:
Company: 1230 South Blvd,
Address: Baraboo WI 53913

Invoice To:*
EMAIL:
Company: Same.
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

PFCFA

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: PFAS + Naphthalene	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
					Fill in Spaces with Bottles per Test					
7/31/18		GW	G		mw-6p	N	X	3		158539
					mw-8p	N	X	3		158540
					mw-10	N	X	3		158541
					mw-10p	N	X	3		158542
					trip Blank	N	X	1		158543

Relinquished By:	Date/Time	Received By:	Date/Time
David Fitzsimmons	7/31/18		8/1/18 1200
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
			8-1-18 1307

Lab Use Only
Ice Present (Yes) No
Temp 3.0 IR Gun 9
Cooler # 5969

CT LABORATORIES
delivering more than data from your environmental analyses

CT Laboratories LLC • 1230 Lange Ct • Baraboo, WI 53913
608-356-2760 • www.ctlaboratories.com

ANALYTICAL REPORT

MSA PROFESSIONAL SERVICES
JAYNE ENGLEBERT
1230 SOUTH BLVD
BARABOO, WI 53913

Project Name: WINNERS CIRCLE
Project Phase:
Contract #: 2054
Project #:
Folder #: 140989
Purchase Order #:

Arrival Temperature: See COC
Report Date: 11/21/2018
Date Received: 11/13/2018
Reprint Date: 11/21/2018

CT LAB Sample#: 209291 Sample Description: MW-2 Sampled: 11/12/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	**900**	ug/L	20	65	50			11/20/2018 12:42	DGS	EPA 8021B
1,3,5-Trimethylbenzene	**410**	ug/L	20	70	50			11/20/2018 12:42	DGS	EPA 8021B
Benzene	<20	ug/L	20	65	50			11/20/2018 12:42	DGS	EPA 8021B
Ethylbenzene	**64**	ug/L	20 *	70	50			11/20/2018 12:42	DGS	EPA 8021B
m & p-Xylene	**990**	ug/L	40	140	50			11/20/2018 12:42	DGS	EPA 8021B
Methyl tert-butyl ether	<20	ug/L	20	65	50			11/20/2018 12:42	DGS	EPA 8021B
Naphthalene	<45	ug/L	45	150	50			11/20/2018 12:42	DGS	EPA 8021B
o-Xylene	**890**	ug/L	20	70	50			11/20/2018 12:42	DGS	EPA 8021B
Toluene	**35**	ug/L	20 *	70	50			11/20/2018 12:42	DGS	EPA 8021B

CT LAB Sample#: 209292 Sample Description: MW-3 Sampled: 11/12/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 209292 Sample Description: MW-3 Sampled: 11/12/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trimethylbenzene	**330**	ug/L	4.0	13	10			11/20/2018 12:07	DGS	EPA 8021B
1,3,5-Trimethylbenzene	**130**	ug/L	4.0	14	10			11/20/2018 12:07	DGS	EPA 8021B
Benzene	<4.0	ug/L	4.0	13	10			11/20/2018 12:07	DGS	EPA 8021B
Ethylbenzene	**47**	ug/L	4.0	14	10			11/20/2018 12:07	DGS	EPA 8021B
m & p-Xylene	**470**	ug/L	8.0	28	10			11/20/2018 12:07	DGS	EPA 8021B
Methyl tert-butyl ether	<4.0	ug/L	4.0	13	10			11/20/2018 12:07	DGS	EPA 8021B
Naphthalene	**10**	ug/L	9.0 *	29	10			11/20/2018 12:07	DGS	EPA 8021B
o-Xylene	**280**	ug/L	4.0	14	10			11/20/2018 12:07	DGS	EPA 8021B
Toluene	**150**	ug/L	4.0	14	10			11/20/2018 12:07	DGS	EPA 8021B

CT LAB Sample#: 209293 Sample Description: MW-4 Sampled: 11/12/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	**0.96**	ug/L	0.40 *	1.3	1			11/20/2018 10:22	DGS	EPA 8021B
1,3,5-Trimethylbenzene	**0.99**	ug/L	0.40 *	1.4	1			11/20/2018 10:22	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			11/20/2018 10:22	DGS	EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			11/20/2018 10:22	DGS	EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			11/20/2018 10:22	DGS	EPA 8021B
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			11/20/2018 10:22	DGS	EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			11/20/2018 10:22	DGS	EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			11/20/2018 10:22	DGS	EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			11/20/2018 10:22	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 209294 Sample Description: MW-6 Sampled: 11/12/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	**7.9**	ug/L	0.40	1.3	1			11/20/2018 10:57	DGS	EPA 8021B
1,3,5-Trimethylbenzene	**2.4**	ug/L	0.40	1.4	1			11/20/2018 10:57	DGS	EPA 8021B
Benzene	**1.3**	ug/L	0.40	1.3	1			11/20/2018 10:57	DGS	EPA 8021B
Ethylbenzene	**11**	ug/L	0.40	1.4	1			11/20/2018 10:57	DGS	EPA 8021B
m & p-Xylene	**40**	ug/L	0.80	2.8	1			11/20/2018 10:57	DGS	EPA 8021B
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			11/20/2018 10:57	DGS	EPA 8021B
Naphthalene	**2.4**	ug/L	0.90 *	2.9	1			11/20/2018 10:57	DGS	EPA 8021B
o-Xylene	**19**	ug/L	0.40	1.4	1			11/20/2018 10:57	DGS	EPA 8021B
Toluene	**47**	ug/L	0.40	1.4	1			11/20/2018 10:57	DGS	EPA 8021B

CT LAB Sample#: 209295 Sample Description: MW-6P Sampled: 11/12/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			11/19/2018 14:12	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			11/19/2018 14:12	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			11/19/2018 14:12	DGS	EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			11/19/2018 14:12	DGS	EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			11/19/2018 14:12	DGS	EPA 8021B
Methyl tert-butyl ether	**60**	ug/L	2.0	6.5	5			11/20/2018 11:32	DGS	EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			11/19/2018 14:12	DGS	EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			11/19/2018 14:12	DGS	EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			11/19/2018 14:12	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 209296 Sample Description: MW-7P Sampled: 11/12/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<2.0	ug/L	2.0	6.5	5			11/19/2018 18:53	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<2.0	ug/L	2.0	7.0	5			11/19/2018 18:53	DGS	EPA 8021B
Benzene	<2.0	ug/L	2.0	6.5	5			11/19/2018 18:53	DGS	EPA 8021B
Ethylbenzene	**6.7**	ug/L	2.0 *	7.0	5			11/19/2018 18:53	DGS	EPA 8021B
m & p-Xylene	<4.0	ug/L	4.0	14	5			11/19/2018 18:53	DGS	EPA 8021B
Methyl tert-butyl ether	**130**	ug/L	2.0	6.5	5			11/19/2018 18:53	DGS	EPA 8021B
Naphthalene	<4.5	ug/L	4.5	15	5			11/19/2018 18:53	DGS	EPA 8021B
o-Xylene	<2.0	ug/L	2.0	7.0	5			11/19/2018 18:53	DGS	EPA 8021B
Toluene	<2.0	ug/L	2.0	7.0	5			11/19/2018 18:53	DGS	EPA 8021B

CT LAB Sample#: 209297 Sample Description: MW-8P Sampled: 11/12/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<20	ug/L	20	65	50			11/19/2018 20:37	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<20	ug/L	20	70	50			11/19/2018 20:37	DGS	EPA 8021B
Benzene	<20	ug/L	20	65	50			11/19/2018 20:37	DGS	EPA 8021B
Ethylbenzene	<20	ug/L	20	70	50			11/19/2018 20:37	DGS	EPA 8021B
m & p-Xylene	<40	ug/L	40	140	50			11/19/2018 20:37	DGS	EPA 8021B
Methyl tert-butyl ether	**1000**	ug/L	20	65	50			11/19/2018 20:37	DGS	EPA 8021B
Naphthalene	<45	ug/L	45	150	50			11/19/2018 20:37	DGS	EPA 8021B
o-Xylene	<20	ug/L	20	70	50			11/19/2018 20:37	DGS	EPA 8021B
Toluene	<20	ug/L	20	70	50			11/19/2018 20:37	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 209298 Sample Description: MW-10 Sampled: 11/12/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			11/19/2018 14:47	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			11/19/2018 14:47	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			11/19/2018 14:47	DGS	EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			11/19/2018 14:47	DGS	EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			11/19/2018 14:47	DGS	EPA 8021B
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			11/19/2018 14:47	DGS	EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			11/19/2018 14:47	DGS	EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			11/19/2018 14:47	DGS	EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			11/19/2018 14:47	DGS	EPA 8021B

CT LAB Sample#: 209299 Sample Description: MW-10P Sampled: 11/12/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<8.0	ug/L	8.0	26	20			11/19/2018 19:28	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<8.0	ug/L	8.0	28	20			11/19/2018 19:28	DGS	EPA 8021B
Benzene	<8.0	ug/L	8.0	26	20			11/19/2018 19:28	DGS	EPA 8021B
Ethylbenzene	<8.0	ug/L	8.0	28	20			11/19/2018 19:28	DGS	EPA 8021B
m & p-Xylene	<16	ug/L	16	56	20			11/19/2018 19:28	DGS	EPA 8021B
Methyl tert-butyl ether	**330**	ug/L	8.0	26	20			11/19/2018 19:28	DGS	EPA 8021B
Naphthalene	<18	ug/L	18	58	20			11/19/2018 19:28	DGS	EPA 8021B
o-Xylene	<8.0	ug/L	8.0	28	20			11/19/2018 19:28	DGS	EPA 8021B
Toluene	<8.0	ug/L	8.0	28	20			11/19/2018 19:28	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 209300 Sample Description: MW-13P Sampled: 11/12/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			11/19/2018 15:23	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			11/19/2018 15:23	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			11/19/2018 15:23	DGS	EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			11/19/2018 15:23	DGS	EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			11/19/2018 15:23	DGS	EPA 8021B
Methyl tert-butyl ether	**3.8**	ug/L	0.40	1.3	1			11/19/2018 15:23	DGS	EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			11/19/2018 15:23	DGS	EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			11/19/2018 15:23	DGS	EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			11/19/2018 15:23	DGS	EPA 8021B

CT LAB Sample#: 209301 Sample Description: TRIP BLANK Sampled: 11/12/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			11/19/2018 13:37	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			11/19/2018 13:37	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			11/19/2018 13:37	DGS	EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			11/19/2018 13:37	DGS	EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			11/19/2018 13:37	DGS	EPA 8021B
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			11/19/2018 13:37	DGS	EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			11/19/2018 13:37	DGS	EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			11/19/2018 13:37	DGS	EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			11/19/2018 13:37	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 3/2015

UST CHAIN OF CUSTODY

Page 1 of 1

Company: MSA

Project Contact: Dick Lupter

Telephone: 354-2771[illegible]

Project Name: Winners Circle

Project #: 213212

Location: WI

Sampled By: David Fitzsimmons

CT LAB[illegible]

Folder #: 140989
Company: MSA PROFESSIONAL S
Project: WINNERS CIRCLE
Logged By: DRT PM: ET

[illegible]ge Court, Baraboo, WI 53913
356-2760 Fax 608-356-2766
www.ctlaboratories.com

[illegible]:
RCRA SDWA NPDES
ste Other _____

Report To: MSA
EMAIL:
Company:
Address: 1230 South Blvd. Baraboo, WI 53913

Invoice To:*
EMAIL:
Company: Same
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

PECA

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample ID Description	Filtered? Y/N	DRO	GRO	GRO/PVOC	LEAD	CADMIUM	VOC 8260	PAH	%SOL	PVOC + Naphth				Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
						Fill in Spaces with Bottles per Test														
11/12/18		GW	G	MW-2	N									X				3		209291
				MW-3										X				3		209292
				MW-4										X				3		209293
				MW-20										X				3		209294
				MW-4D										X				3		209295
				MW-2D										X				3		209296
				MW-6D										X				3		209297
				MW-10										X				3		209298
				MW-10D										X				3		209299
				MW-13D										X				3		209300
				Trip Blank										X				1		209301
																				~~209302~~ R

Relinquished By:	Date/Time	Received By:	Date/Time	Lab Use Only
[signature]	11/12/18	[signature]	11/12/18 1630	Ice Present (Yes) No
Received by:	Date/Time	Received for Laboratory by:	Date/Time 11/13/18 0818	Temperature 4.1 IR Gun# 23
				Cooler # 6207

Turnaround Time
~~Normal~~ RUSH*
Date Needed:

Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

CT LABORATORIES
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ANALYTICAL REPORT

MSA PROFESSIONAL SERVICES
JAYNE ENGLEBERT
1230 SOUTH BLVD
BARABOO, WI 53913

Project Name: WINNERS CIRCLE
Project Phase:
Contract #: 2054
Project #: 213212
Folder #: 143107
Purchase Order #:

Arrival Temperature: See COC
Report Date: 03/06/2019
Date Received: 02/25/2019
Reprint Date: 03/06/2019

CT LAB Sample#: 246808 Sample Description: MW-2 Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	**2200**	ug/L	20	65	50			02/28/2019 01:55	DGS	EPA 8021B
1,3,5-Trimethylbenzene	**1100**	ug/L	20	70	50			02/28/2019 01:55	DGS	EPA 8021B
Benzene	<20	ug/L	20	65	50			02/28/2019 01:55	DGS	EPA 8021B
Ethylbenzene	**140**	ug/L	20	70	50			02/28/2019 01:55	DGS	EPA 8021B
m & p-Xylene	**2500**	ug/L	40	140	50			02/28/2019 01:55	DGS	EPA 8021B
Methyl tert-butyl ether	<20	ug/L	20	65	50			02/28/2019 01:55	DGS	EPA 8021B
Naphthalene	**230**	ug/L	45	150	50			02/28/2019 01:55	DGS	EPA 8021B
o-Xylene	**1900**	ug/L	20	70	50			02/28/2019 01:55	DGS	EPA 8021B
Toluene	**190**	ug/L	20	70	50			02/28/2019 01:55	DGS	EPA 8021B

CT LAB Sample#: 246809 Sample Description: MW-3 Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 246809 Sample Description: MW-3 Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trimethylbenzene	**2000**	ug/L	20	65	50			02/28/2019 13:20	DGS	EPA 8021B
1,3,5-Trimethylbenzene	**820**	ug/L	20	70	50			02/28/2019 13:20	DGS	EPA 8021B
Benzene	**22**	ug/L	4.0	13	10			02/27/2019 22:23	DGS	EPA 8021B
Ethylbenzene	**210**	ug/L	4.0	14	10			02/27/2019 22:23	DGS	EPA 8021B
m & p-Xylene	**2900**	ug/L	40	140	50			02/28/2019 13:20	DGS	EPA 8021B
Methyl tert-butyl ether	<4.0	ug/L	4.0	13	10			02/27/2019 22:23	DGS	EPA 8021B
Naphthalene	**140**	ug/L	9.0	29	10			02/27/2019 22:23	DGS	EPA 8021B
o-Xylene	**2100**	ug/L	20	70	50			02/28/2019 13:20	DGS	EPA 8021B
Toluene	**570**	ug/L	20	70	50			02/28/2019 13:20	DGS	EPA 8021B

CT LAB Sample#: 246810 Sample Description: MW-6 Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	**9.9**	ug/L	0.40	1.3	1			02/27/2019 14:07	DGS	EPA 8021B
1,3,5-Trimethylbenzene	**7.3**	ug/L	0.40	1.4	1			02/27/2019 14:07	DGS	EPA 8021B
Benzene	**12**	ug/L	0.40	1.3	1			02/27/2019 14:07	DGS	EPA 8021B
Ethylbenzene	**7.1**	ug/L	0.40	1.4	1			02/27/2019 14:07	DGS	EPA 8021B
m & p-Xylene	**25**	ug/L	0.80	2.8	1			02/27/2019 14:07	DGS	EPA 8021B
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			02/27/2019 14:07	DGS	EPA 8021B
Naphthalene	**4.5**	ug/L	0.90	2.9	1			02/27/2019 14:07	DGS	EPA 8021B
o-Xylene	**9.5**	ug/L	0.40	1.4	1			02/27/2019 14:07	DGS	EPA 8021B
Toluene	**17**	ug/L	0.40	1.4	1			02/27/2019 14:07	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 246811 Sample Description: MW-6P Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Qualifiers applying to all Analytes of Method EPA 8021B: T										
1,2,4-Trimethylbenzene	<2.0	ug/L	2.0	6.5	5			02/27/2019 20:36	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<2.0	ug/L	2.0	7.0	5			02/27/2019 20:36	DGS	EPA 8021B
Benzene	<2.0	ug/L	2.0	6.5	5			02/27/2019 20:36	DGS	EPA 8021B
Ethylbenzene	<2.0	ug/L	2.0	7.0	5			02/27/2019 20:36	DGS	EPA 8021B
m & p-Xylene	<4.0	ug/L	4.0	14	5			02/27/2019 20:36	DGS	EPA 8021B
Methyl tert-butyl ether	**62**	ug/L	2.0	6.5	5			02/27/2019 20:36	DGS	EPA 8021B
Naphthalene	<4.5	ug/L	4.5	15	5			02/27/2019 20:36	DGS	EPA 8021B
o-Xylene	<2.0	ug/L	2.0	7.0	5			02/27/2019 20:36	DGS	EPA 8021B
Toluene	<2.0	ug/L	2.0	7.0	5			02/27/2019 20:36	DGS	EPA 8021B

CT LAB Sample#: 246812 Sample Description: MW-7P Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<2.0	ug/L	2.0	6.5	5			02/27/2019 21:12	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<2.0	ug/L	2.0	7.0	5			02/27/2019 21:12	DGS	EPA 8021B
Benzene	<2.0	ug/L	2.0	6.5	5			02/27/2019 21:12	DGS	EPA 8021B
Ethylbenzene	**7.5**	ug/L	2.0	7.0	5			02/27/2019 21:12	DGS	EPA 8021B
m & p-Xylene	<4.0	ug/L	4.0	14	5			02/27/2019 21:12	DGS	EPA 8021B
Methyl tert-butyl ether	**170**	ug/L	2.0	6.5	5			02/27/2019 21:12	DGS	EPA 8021B
Naphthalene	<4.5	ug/L	4.5	15	5			02/27/2019 21:12	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 246812 Sample Description: MW-7P Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
o-Xylene	<2.0	ug/L	2.0	7.0	5			02/27/2019 21:12	DGS	EPA 8021B
Toluene	<2.0	ug/L	2.0	7.0	5			02/27/2019 21:12	DGS	EPA 8021B

CT LAB Sample#: 246813 Sample Description: MW-8P Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Qualifiers applying to all Analytes of Method EPA 8021B: T										
1,2,4-Trimethylbenzene	<20	ug/L	20	65	50			02/28/2019 02:30	DGS	EPA 8021B
1,3,5-Trimethylbenzene	**51**	ug/L	20 *	70	50			02/28/2019 02:30	DGS	EPA 8021B
Benzene	<20	ug/L	20	65	50			02/28/2019 02:30	DGS	EPA 8021B
Ethylbenzene	<20	ug/L	20	70	50			02/28/2019 02:30	DGS	EPA 8021B
m & p-Xylene	<40	ug/L	40	140	50			02/28/2019 02:30	DGS	EPA 8021B
Methyl tert-butyl ether	**1100**	ug/L	20	65	50			02/28/2019 02:30	DGS	EPA 8021B
Naphthalene	<45	ug/L	45	150	50			02/28/2019 02:30	DGS	EPA 8021B
o-Xylene	<20	ug/L	20	70	50			02/28/2019 02:30	DGS	EPA 8021B
Toluene	<20	ug/L	20	70	50			02/28/2019 02:30	DGS	EPA 8021B

CT LAB Sample#: 246814 Sample Description: MW-10 Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			02/27/2019 15:18	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 246814 Sample Description: MW-10 Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			02/27/2019 15:18	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			02/27/2019 15:18	DGS	EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			02/27/2019 15:18	DGS	EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			02/27/2019 15:18	DGS	EPA 8021B
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			02/27/2019 15:18	DGS	EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			02/27/2019 15:18	DGS	EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			02/27/2019 15:18	DGS	EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			02/27/2019 15:18	DGS	EPA 8021B

CT LAB Sample#: 246815 Sample Description: MW-10P Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<8.0	ug/L	8.0	26	20			02/28/2019 00:44	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<8.0	ug/L	8.0	28	20			02/28/2019 00:44	DGS	EPA 8021B
Benzene	<8.0	ug/L	8.0	26	20			02/28/2019 00:44	DGS	EPA 8021B
Ethylbenzene	<8.0	ug/L	8.0	28	20			02/28/2019 00:44	DGS	EPA 8021B
m & p-Xylene	<16	ug/L	16	56	20			02/28/2019 00:44	DGS	EPA 8021B
Methyl tert-butyl ether	**370**	ug/L	8.0	26	20			02/28/2019 00:44	DGS	EPA 8021B
Naphthalene	<18	ug/L	18	58	20			02/28/2019 00:44	DGS	EPA 8021B
o-Xylene	<8.0	ug/L	8.0	28	20			02/28/2019 00:44	DGS	EPA 8021B
Toluene	<8.0	ug/L	8.0	28	20			02/28/2019 00:44	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 246816 Sample Description: MW-13P Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			02/27/2019 15:53	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			02/27/2019 15:53	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			02/27/2019 15:53	DGS	EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			02/27/2019 15:53	DGS	EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			02/27/2019 15:53	DGS	EPA 8021B
Methyl tert-butyl ether	**4.0**	ug/L	0.40	1.3	1			02/27/2019 15:53	DGS	EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			02/27/2019 15:53	DGS	EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			02/27/2019 15:53	DGS	EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			02/27/2019 15:53	DGS	EPA 8021B

CT LAB Sample#: 246817 Sample Description: TRIP BLANK Sampled: 02/25/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			02/27/2019 12:56	DGS	EPA 8021B
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			02/27/2019 12:56	DGS	EPA 8021B
Benzene	<0.40	ug/L	0.40	1.3	1			02/27/2019 12:56	DGS	EPA 8021B
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			02/27/2019 12:56	DGS	EPA 8021B
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			02/27/2019 12:56	DGS	EPA 8021B
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			02/27/2019 12:56	DGS	EPA 8021B
Naphthalene	<0.90	ug/L	0.90	2.9	1			02/27/2019 12:56	DGS	EPA 8021B
o-Xylene	<0.40	ug/L	0.40	1.4	1			02/27/2019 12:56	DGS	EPA 8021B
Toluene	<0.40	ug/L	0.40	1.4	1			02/27/2019 12:56	DGS	EPA 8021B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 02/2017

CHAIN OF CUSTODY

Page 1 of 1

Company: MSA
Project Contact: Jayne Engelhart
Telephone: 608-356-2771
Project Name: Winners Circle
Project #: 21321.2
Location: WI
Sampled By: David Fitzsimmons

CT LABORATORIES
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Folder #: 143107
Company: MSA PROFESSIONAL S
Project: WINNERS CIRCLE
Logged By: JLS PM: ET

RCRA SDWA NPDES
ste Other _____

Report To:
EMAIL:
Company: MSA
Address: 1232 South Blvd Baraboo WI 53913

Invoice To:*
EMAIL:
Company: Same
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

PECFA

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	PVOCs + Naphthalene	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test			
2/25/19		GW	G		MW-2	N	X			246808
					MW-3		X			246809
					MW-6		X			246810
					MW-10P		X			246811
					MW-7P		X			246812
					MW-8A		X			246813
					MW-12A		X			246814
					MW-10P		X			246815
					MW-13P		X			246816
					Trip Blank		X			246817

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Relinquished By:	Date/Time	Received By:	Date/Time
David Fitzsimmons	2/25/19		2/25/19 1444
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
			2/25/19 1541

Lab Use Only
Ice Present (Yes) No
Temp 0.8 IR Gun 24
Cooler # 5022