



*Excellence through experience™*

709 Gillette Street, Suite 3 ♦ La Crosse, WI 54603 ♦ 1-800-552-2932 ♦ Fax (608) 781-8893 Email: [rona@metcohq.com](mailto:rona@metcohq.com) ♦ [www.metcohq.com](http://www.metcohq.com)

September 25, 2019

BRRTS #: 03-23-198810

PECFA #: 53502-9519-98-A

Wendell Wojner  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53570

Subject: River Bends Bar – Groundwater Monitoring Report

Dear Mr. Wojner,

Enclosed is the Groundwater Monitoring Report for the River Bends Bar site located at N7298 County Highway X in Attica (Town of Brooklyn), Wisconsin. **This completes the bid deferment work scope approved on March 28, 2018.**

#### **Sub-Slab Vapor Sampling Work Scope**

On February 21, 2019, SCS Engineering of Madison, WI installed three sub-slab vapor sampling ports (VP-1, VP-2, VP-3) in the basement of the River Bends Bar building. The sub-slab vapor sampling port was constructed by drilling a ½-inch pilot hole through the concrete slab and several inches into the sub slab material with a hammer drill. A 1½-inch outer hole is then drilled to depths ranging from ¾ -inch to 1-inch, depending on the concrete slab thickness. The hole was cleaned of dust and drilling debris using a shop-vac. A stainless steel vapor pin is installed in the inner hole with a silicon sleeve to obtain an air tight seal with the concrete floor. The remainder of the hole is sealed with modeling clay and a water dam test was conducted to confirm that the seal is air tight. The air sample was collected using a Suma canister with a flow regulator that allowed the air sample to be collected over a 30 minute period for PVOC and Naphthalene (TO-15) analysis. Prior to collecting the sub-slab vapor samples, a shut-in test was conducted to assure that the fittings between the sample part and sampling container are air tight. There were no leaks. The three ports were properly sealed after sampling was complete.

#### **Groundwater Monitoring Work Scope**

On February 21, 2019, METCO personnel collected groundwater samples from the five monitoring wells (MW-1R, MW-2, MW-3, MW-4, and MW-5) and two private wells (N7298 County Road X and N7302 County Road X) for PVOC, Naphthalene, and Dissolved Lead analysis. Field measurements for water level, Dissolved Oxygen, pH, ORP, temperature, and Specific Conductivity were collected from all sampled monitoring wells.

On May 16, 2019, METCO personnel collected groundwater samples from the five monitoring wells (MW-1R, MW-2, MW-3, MW-4, and MW-5) and two private wells (N7298 County Road X and N7302 County Road X) for PVOC, Naphthalene, and Dissolved Lead analysis. Field measurements for water level, Dissolved Oxygen, pH, ORP, temperature, and Specific Conductivity were collected from all sampled monitoring wells.

On August 14, 2019, METCO personnel collected groundwater samples from the five monitoring wells (MW-1R, MW-2, MW-3, MW-4, and MW-5) and two private wells (N7298 County Road X and N7302 County Road X) for PVOC, Naphthalene, and Dissolved Lead analysis. Field measurements for water level, Dissolved Oxygen, pH, ORP, temperature, and Specific Conductivity were collected from all sampled monitoring wells.

### **Discussion of Vapor Sampling Results**

Sub-Slab Vapor Sample VP-1: Showed no exceedances for the Residential Sub-Slab Vapor Action Levels (VAL).

Sub-Slab Vapor Sample VP-2: Showed no exceedances for the Residential Sub-Slab Vapor Action Levels (VAL).

Sub-Slab Vapor Sample VP-3: Showed no exceedances for the Residential Sub-Slab Vapor Action Levels (VAL).

### **Discussion of Groundwater Monitoring Results**

Monitoring Well MW-1R: Currently shows NR140 Enforcement Standard (ES) exceedances for Benzene (58 ppb), Ethylbenzene (1,010 ppb), Naphthalene (202 ppb), and Trimethylbenzenes (817 ppb), as well as a NR140 Preventative Action Limit (PAL) exceedance for Xylene (751.3 ppb). Groundwater contaminant trends appear to be decreasing following the excavation project.

Monitoring Well MW-2: Currently shows an NR140 Enforcement Standard (ES) exceedance for Trimethylbenzenes (835 ppb) as well as NR140 Preventative Action Limit (PAL) exceedances for Lead (6.0 ppb) and Naphthalene (99 ppb). Groundwater contaminant trends appear to be stable to decreasing.

Monitoring Well MW-3: Currently shows detects, but no exceedances for PVOC and Naphthalene.

Monitoring Well MW-4: Currently shows NR140 Enforcement Standard (ES) exceedances for Benzene (320 ppb), Ethylbenzene (730 ppb), Naphthalene (143 ppb), Trimethylbenzenes (2,550 ppb) and Xylene (2,060 ppb) as well as NR140 Preventative Action Limit (PAL) exceedances for Lead (1.7 ppb) and Toluene (194 ppb). Groundwater contaminant trends appear to be stable.

Monitoring Well MW-5: Currently shows NR140 Preventative Action Limit (PAL) exceedances for Benzene (2.15 ppb), Naphthalene (15.9 ppb), and Trimethylbenzenes (204.5 ppb). Groundwater contaminant trends appear to be stable.

Private Well N7298 (River Bends Bar): Currently shows no detects for PVOC and Naphthalene.

Private Well N7302 (Café – new): Currently shows no detects for PVOC and Naphthalene.

### **Conclusions**

It is the recommendation of METCO that this site be reviewed for the possibility of “closure” for the following reasons:

- 1) The extent and degree of soil and groundwater contamination appears to be reasonably defined.
- 2) The majority of accessible soil contamination (231.10 tons) was removed during the September 2018 soil excavation project.
- 3) Post excavation groundwater results show contaminant trends to be stable to decreasing.
- 4) Based on the SSVS results, the risk of vapor intrusion appears unlikely.
- 5) The source property private well has been sampled 6 times and neighboring property private well has been sampled 5 times and have shown no laboratory detects.


If the state concurs, please contact METCO to discuss closure activities.

However, if additional work will be required prior to “closure” please contact METCO to discuss workscope.

An Updated Site Layout Map, Groundwater Flow Maps, Vapor Results Map, Groundwater Contamination Map, Data Tables, SSVS Documents, and Laboratory Documents have been attached.

If you have any questions or comments please feel free to call (608-781-8879) or email at [jasonp@metcohq.com](mailto:jasonp@metcohq.com).

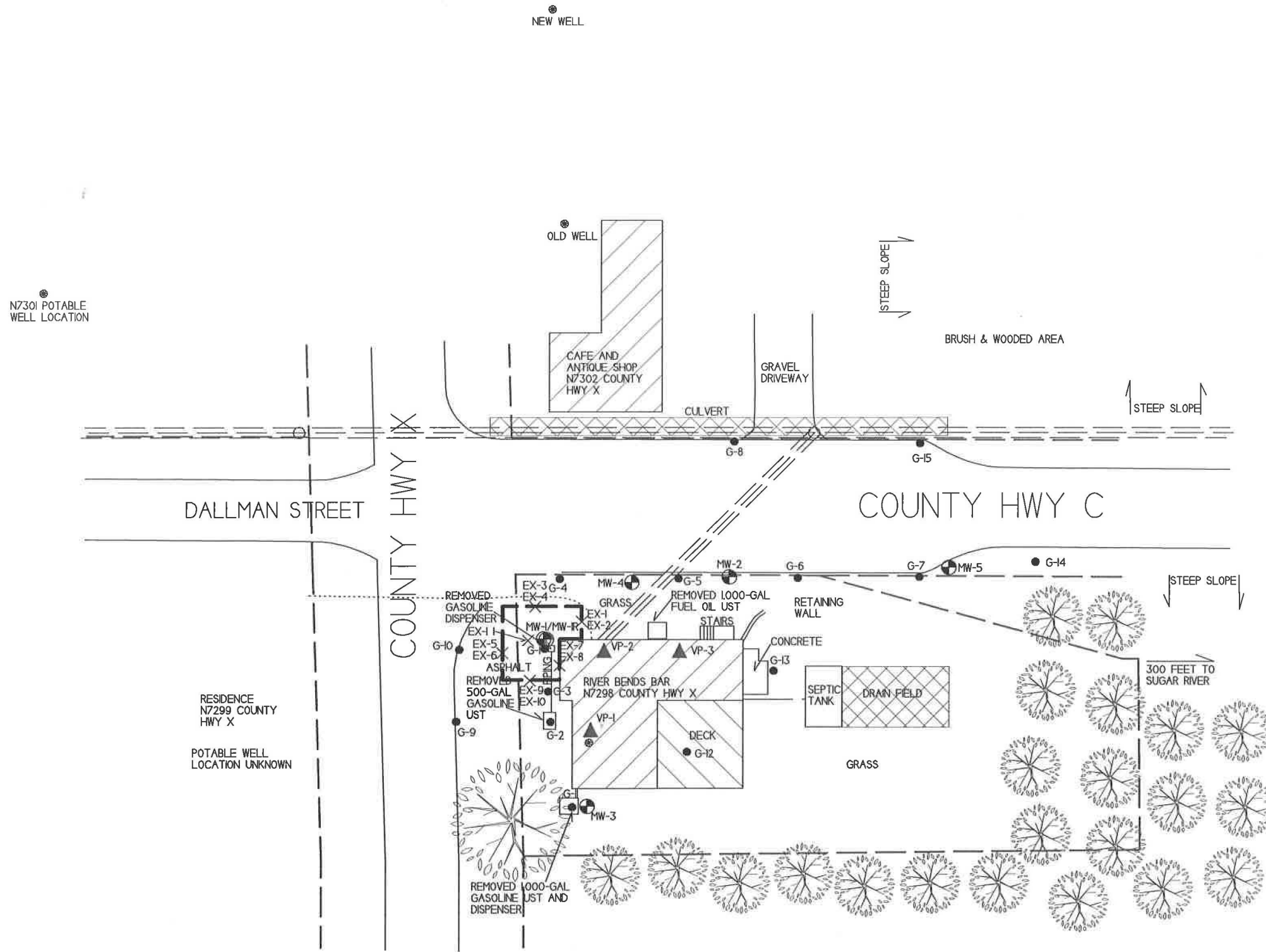
Sincerely,



Jason T. Powell  
Staff Scientist

Attachments

c: Tina Klitzke – Client

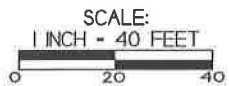


**SITE LAYOUT MAP**  
**RIVER BENDS BAR**

**ATTICA, WISCONSIN**

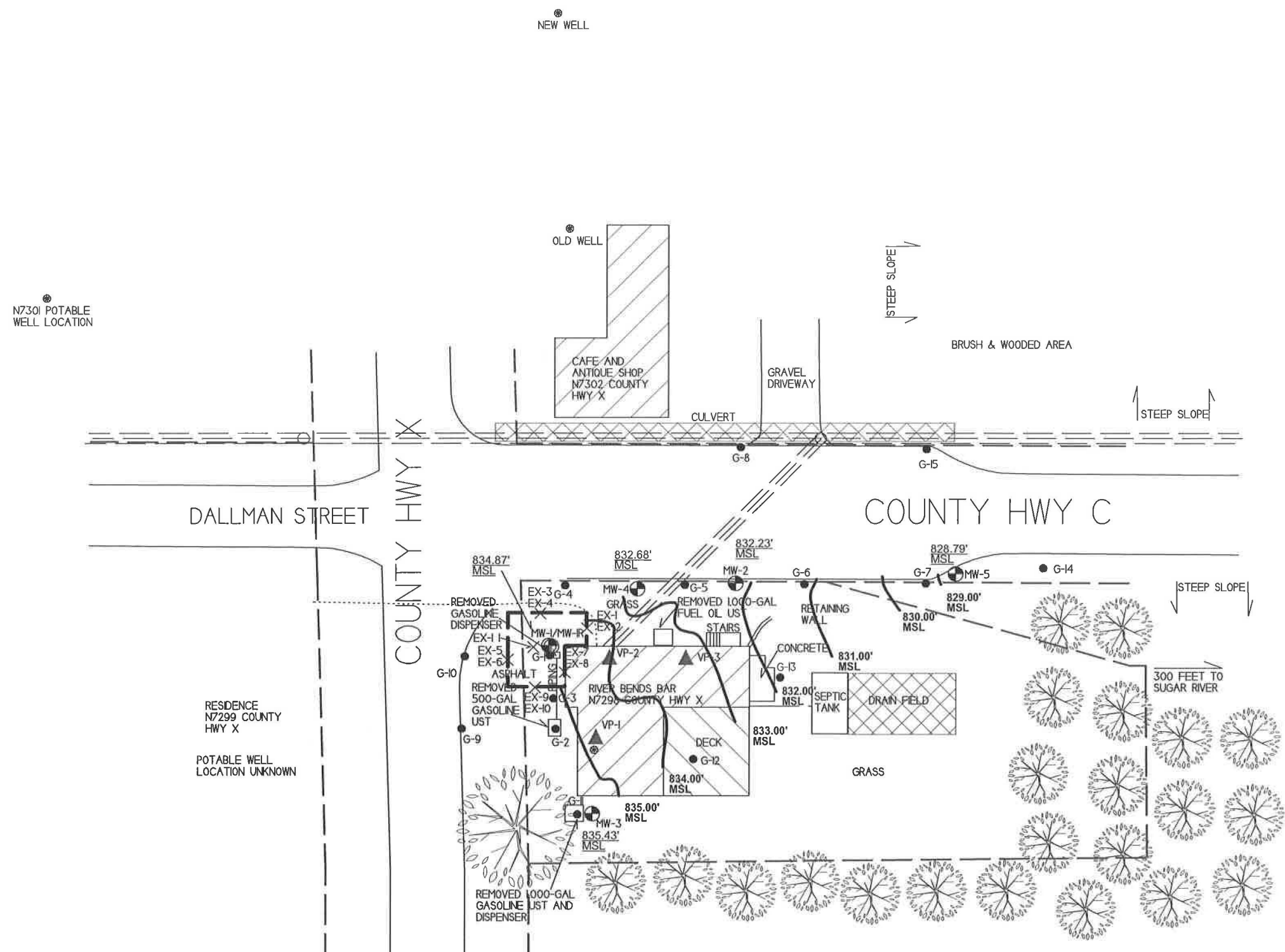
**METCO** 1019 Catherine Street, Suite 5  
 La Crosse, WI 54603  
 Tel: (608) 781-8879  
 Fax: (608) 781-8893

DRAWN BY: ED 07/17/2002  
 UPDATED BY: RW 06/10/2010



- NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER
- - GEOPROBE BORING LOCATION
  - ⊙ - POTABLE WELL LOCATION
  - ⊕ - MONITORING WELL LOCATION
  - ⊖ - ABANDONED MONITORING WELL LOCATION
  - ✕ - EXCAVATION SOIL SAMPLE (09/24/18)
  - ▲ - SUB-SLAB VAPOR PORT LOCATION (SCS ENGINEERING)
  - - EXCAVATION AREA (METCO, SEPTEMBER 2018)
- ≡≡≡≡ - OVERHEAD LINES
  - ⋯⋯⋯ - TELEPHONE LINE
  - · — · — · - SEPTIC LINE
  - — — — - PROPERTY LINE





B.3.c GROUNDWATER FLOW DIRECTION (2/21/2019)

RIVER BENDS BAR

ATTICA, WISCONSIN

709 Gillette Street, Suite 3  
La Crosse, WI 54603  
Tel: (608) 781-6075  
Fax: (608) 781-6053

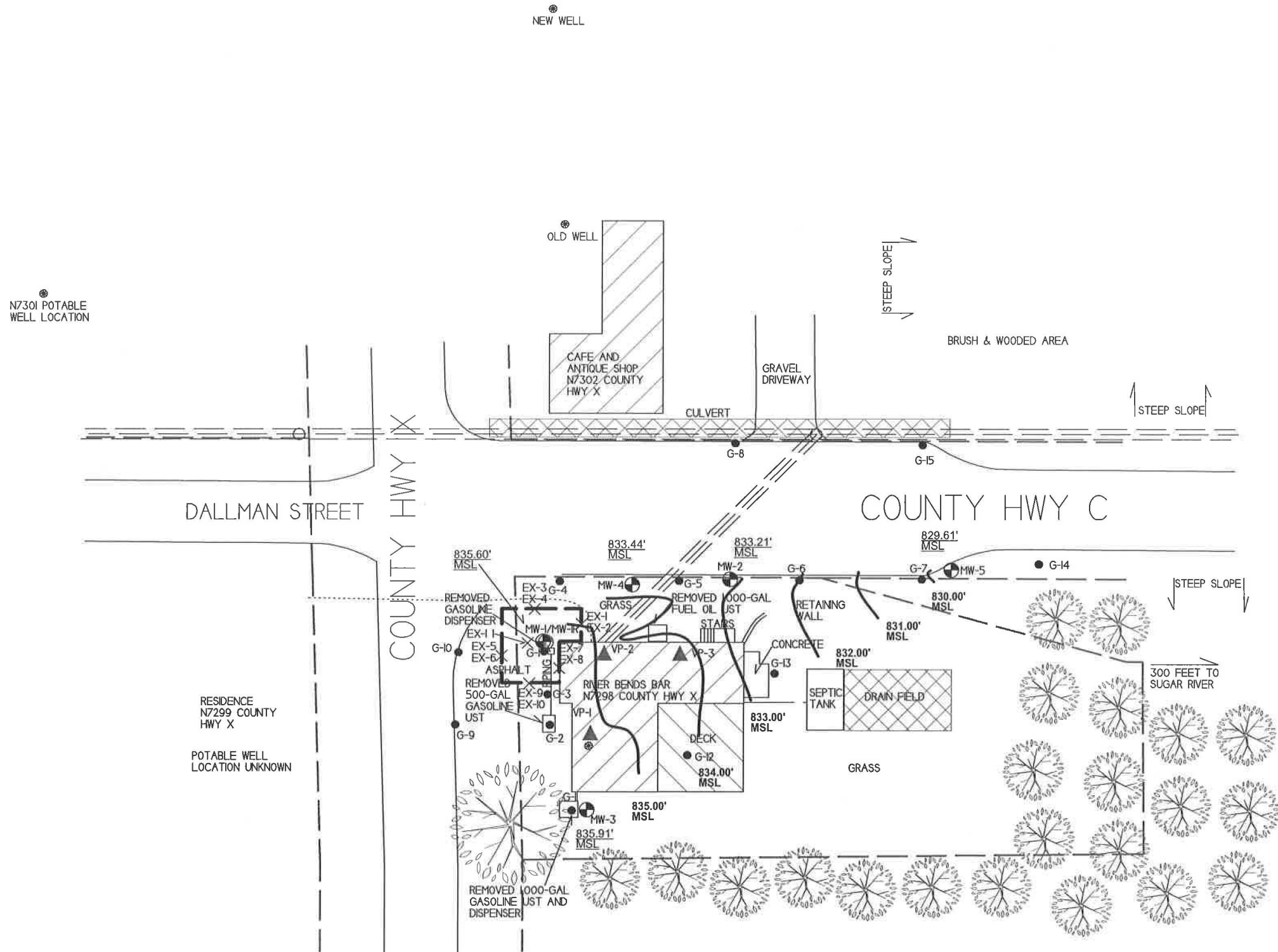
DRAWN BY: ED 07/17/2012  
UPDATED BY: RW 09/10/2018



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

- - GEOPROBE BORING LOCATION
- ⊙ - POTABLE WELL LOCATION
- ⊕ - MONITORING WELL LOCATION
- ⊖ - ABANDONED MONITORING WELL LOCATION
- ✕ - EXCAVATION SOIL SAMPLE (09/24/18)
- ▲ - SUB-SLAB VAPOR PORT LOCATION (SCS ENGINEERING)
- - EXCAVATION AREA (METCO, SEPTEMBER 2018)

- ≡≡≡≡ - OVERHEAD LINES
- ⋯⋯⋯ - TELEPHONE LINE
- - SEPTIC LINE
- - PROPERTY LINE



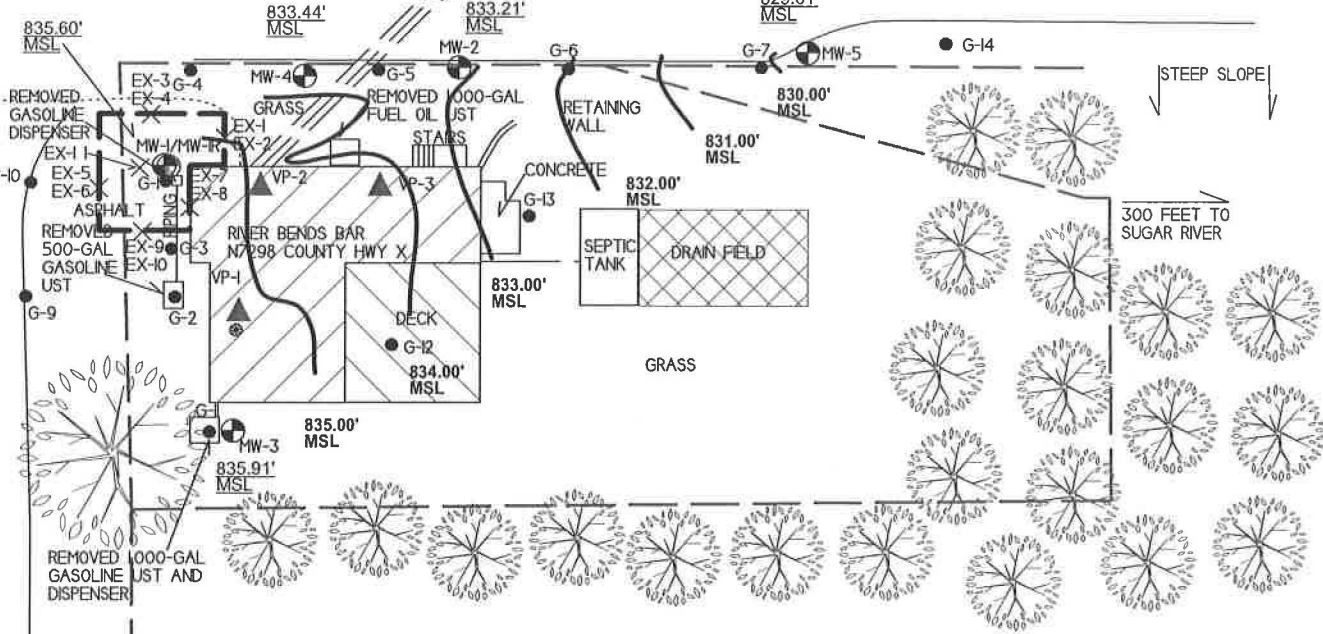
N7301 POTABLE WELL LOCATION

DALLMAN STREET

COUNTY HWY C

RESIDENCE  
N7299 COUNTY HWY X  
  
POTABLE WELL LOCATION UNKNOWN

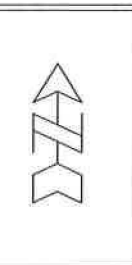
OLD WELL  
  
CAFE AND ANTIQUE SHOP  
N7302 COUNTY HWY X



B.3.c GROUNDWATER FLOW DIRECTION (5/16/2019)  
RIVER BENDS BAR

**METCO**  
709 Gillette Street, Suite 3  
La Crosse, WI 54603  
Tel: (608) 781-8879  
Fax: (608) 781-8893

**ATTICA, WISCONSIN**  
DRAWN BY: ED 07/10/2012  
UPDATED BY: RW 09/10/2010



SCALE:  
1 INCH = 40 FEET  
0 20 40

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

- - GEOPROBE BORING LOCATION
- ⊙ - POTABLE WELL LOCATION
- ⊕ - MONITORING WELL LOCATION
- ⊖ - ABANDONED MONITORING WELL LOCATION
- ✕ - EXCAVATION SOIL SAMPLE (09/24/18)
- ▲ - SUB-SLAB VAPOR PORT LOCATION (SCS ENGINEERING)
- - EXCAVATION AREA (METCO, SEPTEMBER 2018)

- ≡≡≡≡≡ - OVERHEAD LINES
- ⋯⋯⋯⋯ - TELEPHONE LINE
- --- --- - SEPTIC LINE
- — — — — - PROPERTY LINE

N7301 POTABLE WELL LOCATION

NEW WELL

OLD WELL

CAFE AND ANTIQUE SHOP  
N7302 COUNTY HWY X

GRAVEL DRIVEWAY

BRUSH & WOODED AREA

CULVERT

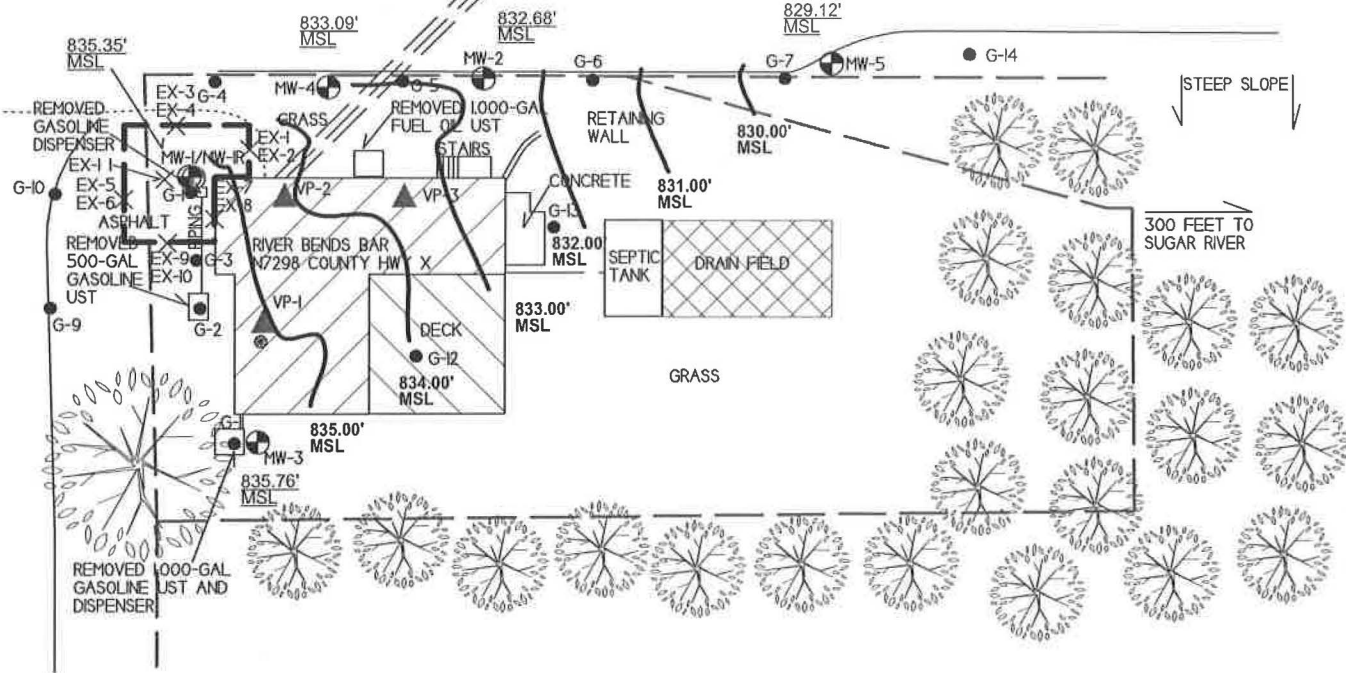
DALLMAN STREET

COUNTY HWY C

COUNTY HWY X

RESIDENCE  
N7299 COUNTY HWY X

POTABLE WELL LOCATION UNKNOWN



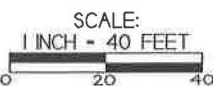
B.3.c GROUNDWATER FLOW DIRECTION (8/14/2019)

RIVER BENDS BAR

ATTICA, WISCONSIN

METCO  
709 Gillette Street, Suite 3  
La Crosse, WI 54603  
Tel: (608) 781-8579  
Fax: (608) 781-8553

DRAWN BY: ED 07/17/2012  
UPDATED BY: RW 02/16/2018



- NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER
- - GEOPROBE BORING LOCATION
  - ⊙ - POTABLE WELL LOCATION
  - ⊕ - MONITORING WELL LOCATION
  - ⊖ - ABANDONED MONITORING WELL LOCATION
  - ✕ - EXCAVATION SOIL SAMPLE (09/24/18)
  - ▲ - SUB-SLAB VAPOR PORT LOCATION (SCS ENGINEERING)
  - - EXCAVATION AREA (METCO, SEPTEMBER 2018)

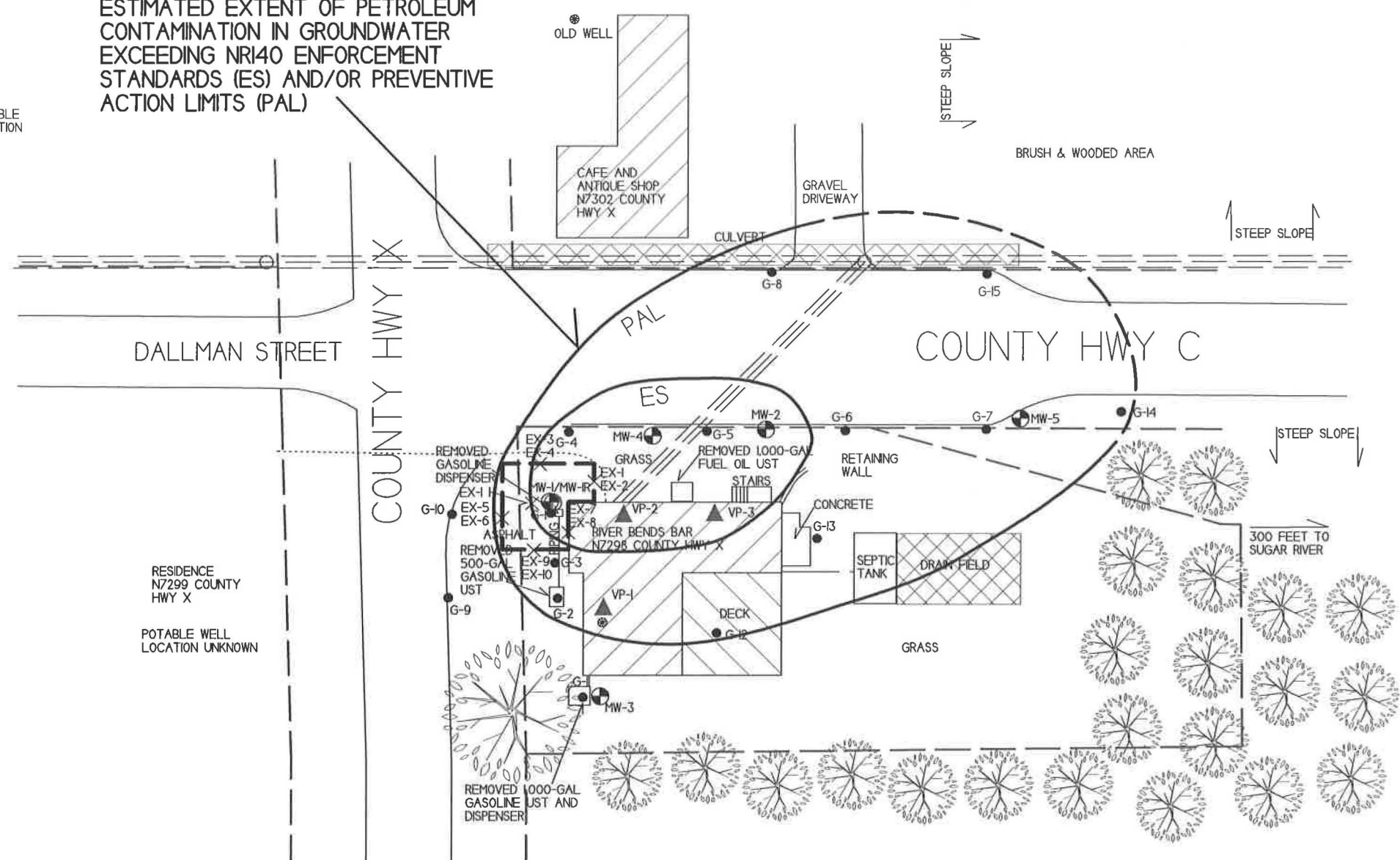
- ≡≡≡≡ - OVERHEAD LINES
- ⋯⋯⋯ - TELEPHONE LINE
- - - - - SEPTIC LINE
- — — — — PROPERTY LINE



NEW WELL

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING NR140 ENFORCEMENT STANDARDS (ES) AND/OR PREVENTIVE ACTION LIMITS (PAL)

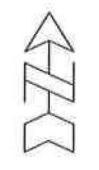
N7301 POTABLE WELL LOCATION

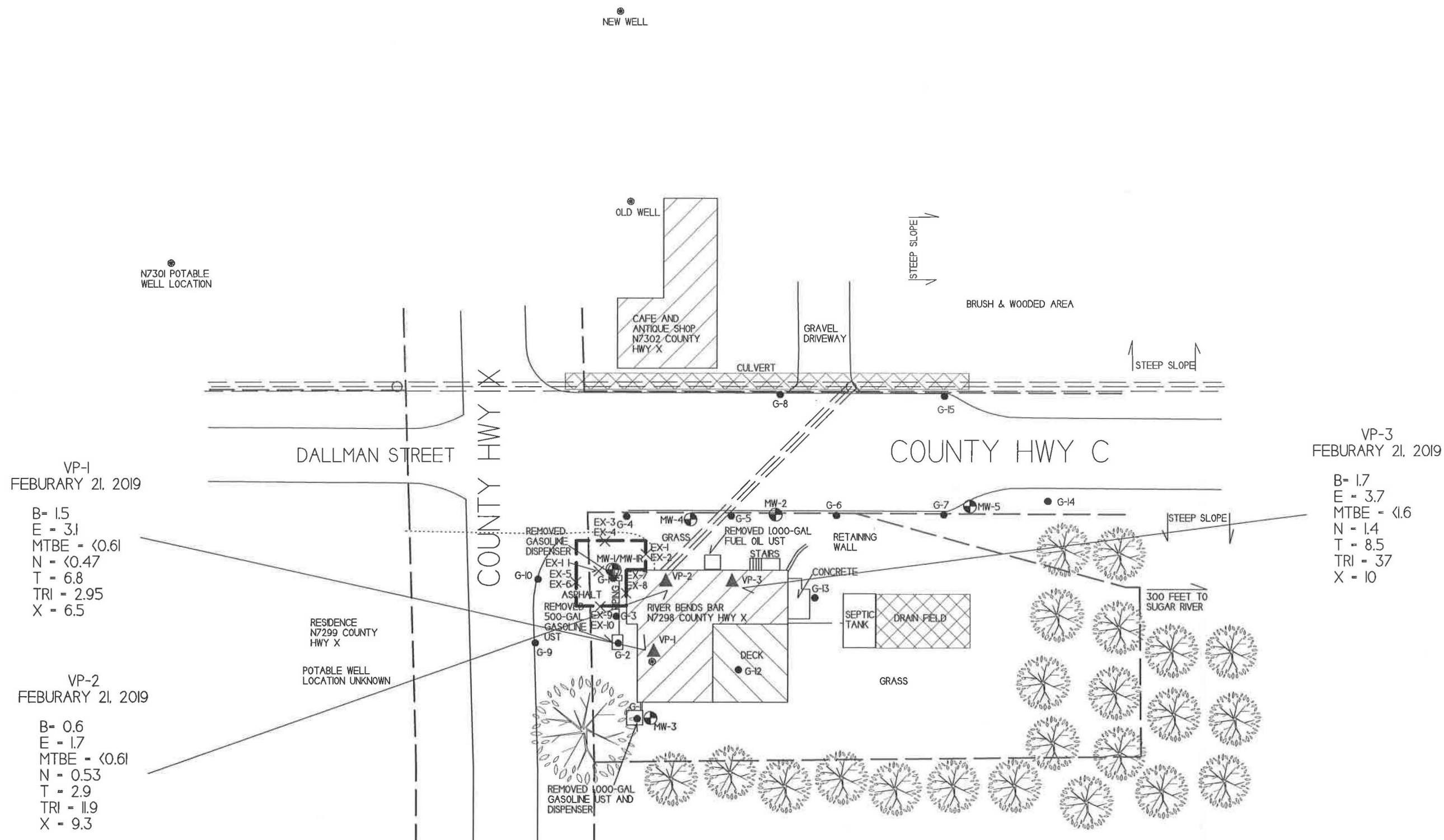


RESIDENCE N7299 COUNTY HWY X  
POTABLE WELL LOCATION UNKNOWN

B.3.b GROUNDWATER ISOCONCENTRATION (8/14/19)  
 RIVER BENDS BAR  
 ATTICA, WISCONSIN  
 METCO  
 709 Gillette Street, Suite 3  
 La Crosse, WI 54603  
 Tel: (608) 781-8879  
 Fax: (608) 781-8883  
 DRAWN BY: ED 07/17/2012  
 UPDATED BY: RW 09/23/2019

- NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER
- - GEOPROBE BORING LOCATION
  - ⊙ - POTABLE WELL LOCATION
  - ⊕ - MONITORING WELL LOCATION
  - ⊖ - ABANDONED MONITORING WELL LOCATION
  - ✕ - EXCAVATION SOIL SAMPLE (09/24/18)
  - ▲ - SUB-SLAB VAPOR PORT LOCATION (SCS ENGINEERING)
- ==== - OVERHEAD LINES
  - ..... - TELEPHONE LINE
  - - SEPTIC LINE
  - - PROPERTY LINE



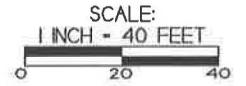


VAPOR RESULTS  
MAP 2-21-2019

RIVER BENDS BAR

**METCO**  
709 Gillette Street, Suite 3  
La Crosse, WI 54603  
Tel: (608) 781-3819  
Fax: (608) 781-8853

**ATTICA WISCONSIN**  
DRAWN BY: ED 07/17/2012  
UPDATED BY: RW 09/24/2018



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

NOTE: VAPOR RESULTS UNITS IS UG/M3

B - BENZENE  
E - ETHYLBENEZENE  
MTBE - METHYL TERT-BUTYL ETHER  
N - NAPHTHALENE  
T - TOLUENE  
TRI - TRIMETHYLBENZENES  
X - XYLENE

- - GEOPROBE BORING LOCATION
- ⊙ - POTABLE WELL LOCATION
- ⊕ - MONITORING WELL LOCATION
- ⊖ - ABANDONED MONITORING WELL LOCATION
- ✕ - EXCAVATION SOIL SAMPLE (09/24/18)
- ▲ - SUB-SLAB VAPOR PORT LOCATION (SCS ENGINEERING)
- - EXCAVATION AREA (METCO, SEPTEMBER 2018)
- ≡≡≡≡ - OVER-HEAD LINES
- ⋯⋯⋯⋯ - TELEPHONE LINE
- - SEPTIC LINE
- - PROPERTY LINE



**A.1 Groundwater Analytical Table**  
**River Bends Bar LUST Site BRRT's# 03-23-198810**

**Well MW-1/1R** MW-1R 841.86  
**PVC Elevation =** 841.81 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
07/11/13	834.00	7.81	<b>33.4</b>	<b>620</b>	<b>5000</b>	<11.5	<b>1050</b>	<b>10000</b>	<b>5940</b>	<b>19700</b>
10/15/13	832.78	9.03	<b>20.2</b>	<b>890</b>	<b>3600</b>	<18.5	<b>680</b>	<b>7200</b>	<b>3120</b>	<b>13200</b>
05/04/17	834.92	6.89	<b>17.9</b>	<b>330</b>	<b>3050</b>	<8.6	<b>600</b>	<b>4900</b>	<b>3110</b>	<b>12700</b>
08/03/17	835.00	6.81	<b>15.2</b>	<b>260</b>	<b>4400</b>	<41	<b>850</b>	<b>6900</b>	<b>4640</b>	<b>17500</b>
09/24/18	ABANDONED AND REMOVED DURING EXCAVATION PROJECT									
11/15/18	MW-1 REPLACED WITH MW-1R									
11/28/18	834.85	7.01	3.1	<b>50</b>	<b>790</b>	<28.5	<b>284</b>	141	<b>1530</b>	<b>2170</b>
02/21/19	834.87	6.99	4.5	<b>41</b>	<b>1040</b>	<2.8	<b>223</b>	30.3	<b>631</b>	<b>838.6</b>
05/16/19	835.60	6.26	8.1	<b>40</b>	<b>1230</b>	<2.8	<b>224</b>	38	<b>1180</b>	<b>1359.7</b>
08/14/19	835.35	6.51	<1.1	<b>58</b>	<b>1010</b>	<2.4	<b>202</b>	20.5	<b>817</b>	<b>751.3</b>
ENFORCEMENT STANDARD ES = Bold			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-2**  
**PVC Elevation =** 839.57 (feet) (MSL)  
*Re-surveyed PVC top:* 839.23 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
07/11/13	831.78	7.79	5.8	<12	122	<11.5	<b>900</b>	<34.5	<b>2030</b>	<b>710</b>
10/15/13	830.74	8.83	<b>17.7</b>	<13.5	<b>380</b>	<18.5	<b>700</b>	60	<b>2110</b>	<b>1760</b>
05/04/17	832.64	6.59	<0.9	1.75	22.6	<0.43	38	2.3	387	143
08/03/17	832.64	6.59	1.2	0.97	10.6	<0.43	13.1	1.03	142.9	46.8
11/28/18	832.25	6.98	1.0	1.61	41	<0.57	63	3.8	<b>744</b>	261
02/21/19	832.23	7.00	<0.8	<2.2	52	<2.8	80	3.7	<b>819</b>	379
05/16/19	833.21	6.02	4.9	<2.2	99	<2.8	<b>155</b>	2.8	<b>2870</b>	<b>816</b>
08/14/19	832.68	6.55	6.0	<6.4	40	<4.8	99	7.5	<b>835</b>	264
ENFORCEMENT STANDARD ES = Bold			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-3**  
**PVC Elevation =** 840.56 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
07/11/13	835.04	5.52	<0.7	<0.24	81	<0.23	79	17.2	452	734
10/15/13	833.89	6.67	<0.7	<2.7	114	<3.7	<b>137</b>	12.8	<b>1120</b>	929
05/04/17	835.96	4.60	3.4	0.87	2.57	<0.43	7.6	<0.33	4.2-4.78	3.5-4.11
08/03/17	836.03	4.53	<0.9	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
11/28/18	835.33	5.23	<0.8	0.38	1.27	<0.57	<1.7	<0.45	2.39-3.14	<1.58
02/21/19	835.43	5.13	<0.8	<0.22	1.79	<0.28	<2.1	<0.19	2.5-3.13	1.25-1.54
05/16/19	835.91	4.65	<1.1	<0.22	1.4	<0.28	<2.1	<0.19	2.35-2.98	1.24-1.53
08/14/19	835.76	4.80	<1.1	0.45	<0.29	<0.24	<1.3	<0.29	<1.13	<1.22
ENFORCEMENT STANDARD ES = Bold			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl). METCO

**A.1 Groundwater Analytical Table**  
**River Bends Bar LUST Site BRRT's# 03-23-198810**

**Well MW-4**

PVC Elevation = 840.54 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
05/04/17	833.15	7.39	15.7	85	480	<8.2	90	209	2460	1970
08/03/17	833.13	7.41	2.8	340	1110	<16.4	169	390	2530	3110
11/28/18	832.65	7.89	3.1	108	450	<5.7	138	131	1830	1205
02/21/19	832.68	7.86	2.6	89	590	<2.8	91	197	2130	1500
05/16/19	833.44	7.10	<1.1	128	640	<5.6	92	284	2260	1840
08/14/19	833.09	7.45	1.7	320	730	<4.8	143	194	2550	2060
ENFORCE MENT STANDARD ES = <b>Bold</b>			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = <i>Italics</i>			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-5**

PVC Elevation = 835.62 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
05/04/17	829.24	6.38	<0.9	0.99	6.3	<0.82	12	1.31	102	108.3
08/03/17	828.88	6.74	<0.9	0.73	6.4	<0.82	5.8	0.69	42.7	28.04
11/28/18	828.30	7.32	<0.8	1.8	25.3	<0.57	17	2.93	261	198
02/21/19	828.79	6.83	<0.8	2.6	51	<1.4	20.3	3.3	328.8	214.2
05/16/19	829.61	6.01	<1.1	1.36	20.2	<0.28	8.7	1.61	151.3	159
08/14/19	829.12	6.50	<1.1	2.15	21.6	<0.24	15.9	3.7	204.5	164.15
ENFORCE MENT STANDARD ES = <b>Bold</b>			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = <i>Italics</i>			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Private Well – N7298 Source**

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/06/12	NM	NM	NS	< 0.24	< 0.31	< 0.34	< 0.16	< 0.14	< 0.242	<0.97
07/11/13	NM	NM	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
10/15/13	NM	NM	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
05/04/17	NM	NM	NS	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
08/03/17	NM	NM	NS	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
11/28/18	NM	NM	<0.8	<0.22	<0.53	<0.57	<1.7	<0.45	<1.48	<1.58
02/21/19	NM	NM	<0.8	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
05/16/19	NM	NM	<1.1	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
08/14/19	NM	NM	<1.1	<0.32	<0.29	<0.24	<1.3	<0.29	<1.13	<1.22
ENFORCE MENT STANDARD ES = <b>Bold</b>			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = <i>Italics</i>			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).



**A.1 Groundwater Analytical Table**  
**River Bends Bar LUST Site BRRT's# 03-23-198810**

**Private Well – N7302 Café (old)**

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
07/11/13	NM	NM	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
10/15/13	NM	NM	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
<b>ENFORCE MENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Private Well – N7302 Café (new)**

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
05/04/17	NM	NM	NS	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
08/03/17	NM	NM	NS	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
11/28/18	NM	NM	<0.8	<0.22	<0.53	<0.57	<1.7	<0.45	<1.48	<1.58
02/21/19	NM	NM	NOT SAMPLED							
05/16/19	NM	NM	<1.1	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
08/14/19	NM	NM	<1.1	<0.32	<0.29	<0.24	<1.3	<0.29	<1.13	<1.22
<b>ENFORCE MENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

A.4 Vapor Analytical Table  
 Sub-Slab Sampling Data Table for River Bends Bar  
 BY METCO

Sub-Slab Sampling conducted on February 21, 2019

<b>WDNR</b> <b>Small Commercial</b> <b>Sub-Slab Vapor Action</b> <b>Levels for Various VOCs</b>  <b>Quick Look-Up Table</b> <b>Updated November, 2017</b>
---

Sample ID	VP-1	VP-2	VP-3	(ug/m <sup>3</sup> )	
Benzene – ug/m <sup>3</sup>	1.5	0.60	1.7	530	c
Carbon Tetrachloride – ug/m <sup>3</sup>	NS	NS	NS	670	c
Chloroform – ug/m <sup>3</sup>	NS	NS	NS	180	c
Chloromethane – ug/m <sup>3</sup>	NS	NS	NS	13000	n
Dichlorodifluoromethane – ug/m <sup>3</sup>	NS	NS	NS	15000	n
1,1-Dichloroethane (1,1-DCA) – ug/m <sup>3</sup>	NS	NS	NS	2600	c
1,2-Dichloroethane (1,2-DCA ) - ug/m <sup>3</sup>	NS	NS	NS	160	c
1,1-Dichloroethylene (1,1-DCE) – ug/m <sup>3</sup>	NS	NS	NS	29000	n
1,2-Dichloroethylene (cis and trans) - ug/m <sup>3</sup>	NS	NS	NS	NA	-
Ethylbenzene – ug/m <sup>3</sup>	3.1	1.7	3.7	1600	c
Methylene chloride – ug/m <sup>3</sup>	NS	NS	NS	87000	n
Methyl Tert-Butyl Ether (MTBE) – ug/m <sup>3</sup>	<0.61	<0.61	<1.6	16000	c
Naphthalene – ug/m <sup>3</sup>	<0.47	0.53	1.4	120	c
Tetrachloroethylene -ug/m <sup>3</sup>	NS	NS	NS	6000	n
Toluene – ug/m <sup>3</sup>	6.8	2.9	8.5	730000	n
1,1,1-Trichloroethane – ug/m <sup>3</sup>	NS	NS	NS	730000	n
Trichloroethylene – ug/m <sup>3</sup>	NS	NS	NS	290	n
Trichlorofluoromethane (Halcarbon 11) – ug/m <sup>3</sup>	NS	NS	NS	NA	-
Trimethylbenzene (1,2,4) – ug/m <sup>3</sup>	2.1	9.2	23	8700	n
Trimethylbenzene (1,3,5) – ug/m <sup>3</sup>	0.85	2.7	14	8700	n
Vinyl chloride – ug/m <sup>3</sup>	NS	NS	NS	930	c
Xylene (total) -ug/m <sup>3</sup>	6.5	9.3	10	15000	n

ug/m<sup>3</sup> = Micrograms per cubic meter.

< = Less than the reporting limit indicated in parentheses.

**Bold = Sub-Slab Standard Exceedance**

NS = not sampled

c = Carcinogen

n = Non Carcinogen

J = between Limit of Detection (LOD) and Limit of Quantitation (LOQ)

\* Please note that other VOCs were detected that are not on the WDNR Sub-Slab Vapor Action Levels Quick Look-Up Table.

B = Compound was found in the blank and sample

E = Result exceeded calibration range

**A.6 Water Level Elevations  
River Bends Bar LUST Site BRRT's# 03-23-198810  
Attica, Wisconsin**

	MW-1	MW-1R	MW-2	MW-3	MW-4	MW-5
<b>Ground Surface (feet msl)</b>	842.24	842.06	839.60	840.98	840.93	836.04
<b>PVC top (feet msl)</b>	841.81	841.86	839.57	840.56	840.54	835.62
<b>Re-surveyed 5-4-17 PVC top (feet msl)</b>			839.23			
<b>Well Depth (feet)</b>	16.00	16.00	16.00	16.00	15.00	14.00
<b>Top of screen (feet msl)</b>	836.24	836.06	833.60	834.98	835.93	832.04
<b>Bottom of screen (feet msl)</b>	826.24	826.06	823.60	824.98	825.93	822.04

**Depth to Water From Top of PVC (feet)**

07/11/13	7.81	NI	7.79	5.52	NI	NI
10/15/13	9.03	NI	8.83	6.67	NI	NI
05/04/17	6.89	NI	6.59	4.60	7.39	6.38
08/03/17	6.81	NI	6.59	4.53	7.41	6.74
11/28/18	A	7.01	6.98	5.23	7.89	7.32
02/21/19	A	6.99	7.00	5.13	7.86	6.83
05/16/19	A	6.26	6.02	4.65	7.10	6.01
08/14/19	A	6.51	6.55	4.80	7.45	6.50

**Depth to Water From Ground Surface (feet)**

07/11/13	8.24	NI	7.82	5.94	NI	NI
10/15/13	9.46	NI	8.86	7.09	NI	NI
05/04/17	7.32	NI	6.62	5.02	7.78	6.80
08/03/17	7.24	NI	6.62	4.95	7.80	7.16
11/28/18	A	7.21	7.01	5.65	8.28	7.74
02/21/19	A	7.19	7.03	5.55	8.25	7.25
05/16/19	A	6.46	6.05	5.07	7.49	6.43
08/14/19	A	6.46	6.05	5.07	7.49	6.43

**Groundwater Elevation (feet msl)**

07/11/13	834.00	NI	831.78	835.04	NI	NI
10/15/13	832.78	NI	830.74	833.89	NI	NI
05/04/17	834.92	NI	832.64	835.96	833.15	829.24
08/03/17	835.00	NI	832.64	836.03	833.13	828.88
11/28/18	A	834.85	832.25	835.33	832.65	828.30
02/21/19	A	834.87	832.23	835.43	832.68	828.79
05/16/19	A	835.60	833.21	835.91	833.44	829.61
08/14/19	A	835.35	832.68	835.76	833.09	829.12

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

A = Abandoned and removed during remedial/excavation project

NI = Not Installed

**A.7 Other  
Groundwater NA Indicator Results  
River Bends Bar LUST Site BRRT's# 03-23-198810**

**Well MW-1/1R**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
07/11/13	0.08	6.95	-53	13.4	1664	<0.1	7.75	0.97	<b>1120</b>
10/15/13	0.15	6.9	-77	14.6	1372	NS	NS	NS	NS
05/04/17	1.03	6.97	171	10.6	1529	NS	NS	NS	NS
08/03/17	0.95	6.88	-64	16.6	1433	NS	NS	NS	NS
09/24/18	ABANDONED AND REMOVED DURING EXCAVATION PROJECT								
11/05/18	MW-1 REPLACED WITH MW-1R								
11/28/18	3.11	6.73	-81.4	9.98	787	NS	NS	NS	NS
02/21/19	3.22	7.06	-156	7.40	1012	NS	NS	NS	NS
05/16/19	3.45	5.5	-44.1	8.39	1657	NS	NS	NS	NS
08/14/19	2.59	7.89	-114.1	2.59	1715	NS	NS	NS	NS
ENFORCE MENT STANDARD = <b>ES – Bold</b>						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

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

**Well MW-2**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
07/11/13	0.14	6.79	-42	14.8	688	0.57	12.2	0.74	<b>678</b>
10/15/13	0.21	6.8	-87	14.5	1592	NS	NS	NS	NS
05/04/17	1.46	7.12	211	10.4	633	NS	NS	NS	NS
08/03/17	1.92	6.74	69	16.3	1389	NS	NS	NS	NS
11/28/18	3.17	6.67	-51.5	9.0	1006	NS	NS	NS	NS
02/21/19	2.86	7.74	146	6.10	1392	NS	NS	NS	NS
05/16/19	3.41	5.57	-34.9	9.78	1363	NS	NS	NS	NS
08/14/19	2.46	7.71	-75.6	18.43	1520	NS	NS	NS	NS
ENFORCE MENT STANDARD = <b>ES – Bold</b>						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

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

**Well MW-3**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
07/11/13	3.27	7.00	82	12.7	634	5.45	19.8	<0.06	<b>394</b>
10/15/13	0.44	6.91	-13	13.8	746	NS	NS	NS	NS
05/04/17	1.87	6.86	269	10.9	1426	NS	NS	NS	NS
08/03/17	2.60	6.56	97	16.0	479	NS	NS	NS	NS
11/28/18	3.14	7.02	20.0	9.49	609	NS	NS	NS	NS
02/21/19	3.20	7.62	199	7.50	618	NS	NS	NS	NS
05/16/19	3.34	6.13	-34.7	9.10	879	NS	NS	NS	NS
08/14/19	2.63	8.36	-56.0	15.43	735	NS	NS	NS	NS
ENFORCE MENT STANDARD = <b>ES – Bold</b>						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

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

**A.7 Other**  
**Groundwater NA Indicator Results**  
**River Bends Bar LUST Site BRRT's# 03-23-198810**

**Well MW-4**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
05/04/17	1.63	7.05	313	10.2	838	NS	NS	NS	NS
08/03/17	3.68	7.59	103	15.9	416	NS	NS	NS	NS
11/28/18	3.01	7.18	-185.6	10.82	1062	NS	NS	NS	NS
02/21/19	3.03	7.63	-163	6.30	1410	NS	NS	NS	NS
05/16/19	3.30	5.82	-144.3	8.75	1153	NS	NS	NS	NS
08/14/19	2.53	7.87	-162.9	17.20	1088	NS	NS	NS	NS
<b>ENFORCE MENT STANDARD = ES - Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion      (ppm) = parts per million  
 ns = not sampled                  nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-5**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
05/04/17	2.63	6.5	369	10.6	1707	NS	NS	NS	NS
08/03/17	5.72	7.36	259	15.6	827	NS	NS	NS	NS
11/28/18	3.01	6.87	-148.2	10.79	3217	NS	NS	NS	NS
02/21/19	3.82	7.25	-39	6.60	3341	NS	NS	NS	NS
05/16/19	3.33	5.95	-86.8	10.36	3402	NS	NS	NS	NS
08/14/19	2.41	7.73	-11.73	19.16	3642	NS	NS	NS	NS
<b>ENFORCE MENT STANDARD = ES - Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion      (ppm) = parts per million  
 ns = not sampled                  nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

2/21/19 Sunny  
#1570083 River Bend's Bar  
Africa, WI  
10:30 Arrive w/ Robert Langdon  
Robert Langdon  
Adrian Watson  
Meet w/ Tyler & Francis  
Metcalf and owner of bar.  
R.L. and A.W. set up for  
sub slab vapor sampling  
in basement.  
1030 Sample subslab port  
VP-1  
1050 Sample subslab port  
VP-2  
1125 Sample subslab port  
VP-3  
Part on floor at each location  
after removing ports.

2/21/19 River Bend's Bar

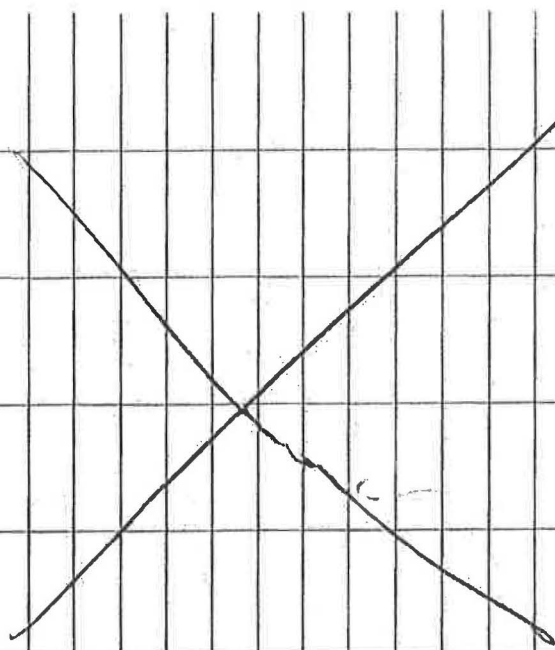
~ 12:30 Report site

after checking out w/

Tyler. Notified Tyler

of PIP results and

odor @ VP-3



## Vapor Assessment Sample Collection Log

Project: River Bends Bar	Sample ID: VP-1	Type (Circle One): <input checked="" type="radio"/> SB <input type="radio"/> AI <input type="radio"/> AR
Project #: 25219083	Sample Intake Height:	<input checked="" type="radio"/> NA for SB
Location: Attica, WI	Approx. Purge Volume: ~ 1L	NA for AI and AR
Sampler: RBL	Approx. Sampling Depth: ~ 6"	NA for AI and AR
Sub-Slab Sample Kit #: 1		NA for AI and AR
Sub-Slab Sample Manifold #: 1		NA for AI and AR
PID #: <del>At &amp; Ra 2</del>		

### Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
2/21/19	1030	-30	600
↓	1100	-6.5	—

### Summa Canister Information:

Canister Size:	1L	<input checked="" type="radio"/> 6L
Canister ID#	10532	
Flow Controller ID#	11958	

### Sub-Slab Tests Passed?

Water Dam:	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Shut-In:	<input checked="" type="radio"/> Yes	<input type="radio"/> No

### General Notes/Observations:

PAU = 0 ppb indoor air

---



---



---



---

### Abbreviations:

NA = Not Applicable    SB = Sub-Slab  
AI = Indoor Air        AR = Outdoor Air



## Vapor Assessment Sample Collection Log

Project: <u>River Bend's Bar</u>	Sample ID: <u>VP-2</u>	Type (Circle One)*: <u>SB</u> AI AR
Project #: <u>25219083</u>	Sample Intake Height:	<u>NA</u> for SB
Location: <u>Attica, WI</u>	Approx. Purge Volume: <u>~1L</u>	NA for AI and AR
Sampler: <u>RBL</u>	Approx. Sampling Depth: <u>~6"</u>	NA for AI and AR
Sub-Slab Sample Kit #: <u>2</u>		NA for AI and AR
Sub-Slab Sample Manifold #: <u>2</u>		NA for AI and AR
PID #: <u>Ppb Real</u>		

### Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
<u>2/21/19</u>	<u>1050</u>	<u>-30</u>	<u>204</u>
<u>↓</u>	<u>1120</u>	<u>-4.5</u>	<u>—</u>

### Summa Canister Information:

Canister Size:	<u>1L</u>	<u>6L</u>
Canister ID#	<u>11157</u>	
Flow Controller ID#	<u>11909</u>	

### Sub-Slab Tests Passed?

Water Dam:	<u>Yes</u>	No
Shut-In:	<u>Yes</u>	No

### General Notes/Observations:

PID = 0 indoor air

---



---



---



---

### Abbreviations:

NA = Not Applicable    SB = Sub-Slab  
AI = Indoor Air        AR = Outdoor Air

## Vapor Assessment Sample Collection Log

Project: <i>River Bend's Bar</i>	Sample ID: <i>UP-3</i>	Type (Circle One)*: SB AI AR
Project #: <i>25219083</i>	Sample Intake Height:	<input checked="" type="radio"/> NA for SB
Location: <i>Attica, WI</i>	Approx. Purge Volume: <i>~ 1L</i>	NA for AI and AR
Sampler: <i>PBL</i>	Approx. Sampling Depth: <i>~ 6"</i>	NA for AI and AR
Sub-Slab Sample Kit #: <i>1</i>		NA for AI and AR
Sub-Slab Sample Manifold #: <i>1</i>		NA for AI and AR
PID #: <i>ppb Pae</i>		

### Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
<i>2/21/19</i>	<i>1125</i>	<i>-29</i>	<i>6300</i>
<i>+</i>	<i>1155</i>	<i>-8</i>	<i>—</i>

### Summa Canister Information:

Canister Size:	1L	<input checked="" type="radio"/> 6L
Canister ID#	<i>10099</i>	
Flow Controller ID#	<i>11959</i>	

### Sub-Slab Tests Passed?

Water Dam:	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Shut-In:	<input checked="" type="radio"/> Yes	<input type="radio"/> No

### General Notes/Observations:

*PED = 0 ppb @ indoor diserve slight petroleum odor when sampling*

---



---



---

### Abbreviations:

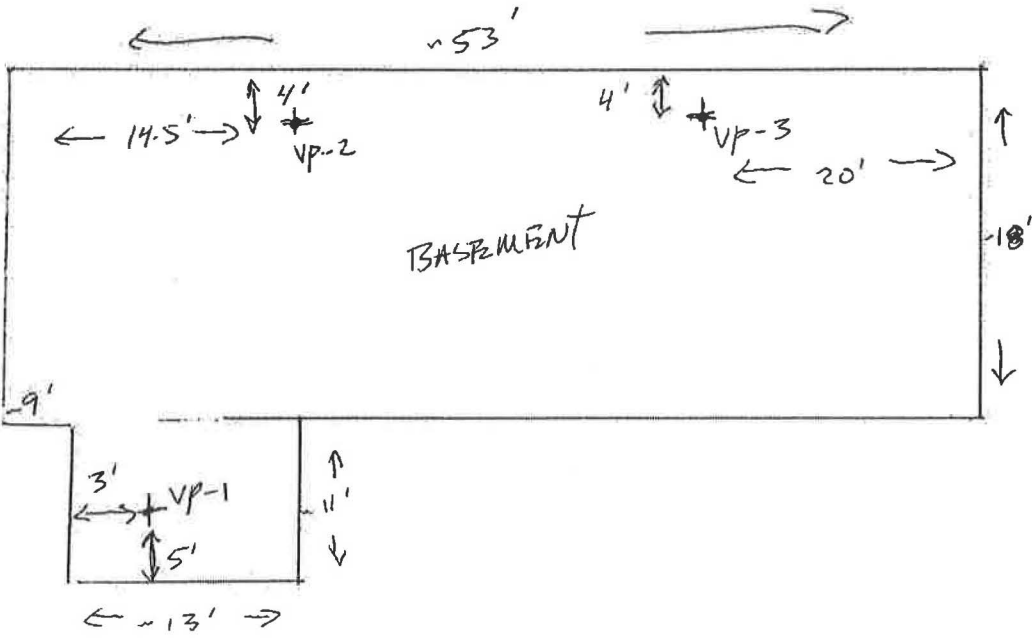
NA = Not Applicable    SB = Sub-Slab  
AI = Indoor Air        AR = Outdoor Air

Project No.: 25219083

Sample Location/ID: River Bend's Bar

Date: 2/21/19

**Sample Locations Sketch:**



↑ N NOT TO SCALE

TAL Knoxville

5815 Middlebrook Pike  
 Knoxville, TN 37921  
 phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.



THE LEADER IN ENVIRONMENTAL TESTING

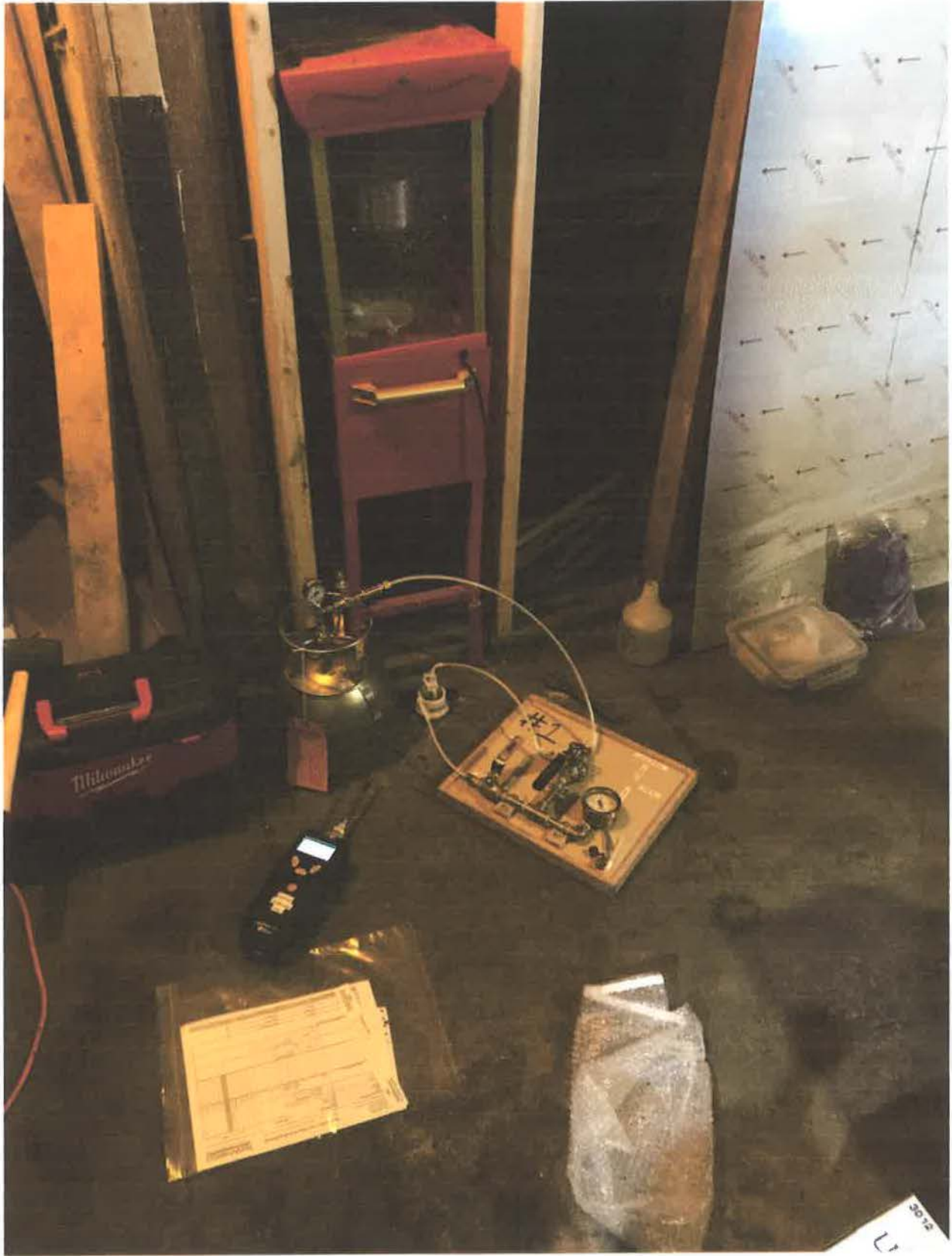
Client Contact Information		Project Manager: <u>Eric Oelkers</u>		Sampled By: <u>Robert Langdon</u>		1 of 1 COCs													
Company: <u>SES Engineers</u>		Phone:																	
Address: <u>2330 Denny Dr</u>		Site Contact:																	
City/State/Zip: <u>Madison TN</u>		TAL Contact:																	
Phone: <u>600 274 1230</u>																			
FAX:																			
Project Name: <u>River Bend's Beer</u>		Analysis Turnaround Time																	
Site/location: <u>Attica, WI</u>		Standard (Specify) <u>X</u>																	
PO #		Rush (Specify)																	
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 <u>X</u>	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
VP-1	2/21/19	1030	1100	-30	-6.5	11958	10532	X											
VP-2	↓	1050	1120	-70	-4.5	11909	11157	X											
VP-3	↓	1125	1155	-29	-80	11959	10099	X											
Sampled by:		Temperature (Fahrenheit)																	
<u>Robert Langdon</u>		Interior		Ambient															
		Start																	
		Stop																	
Pressure (inches of Hg)																			
		Interior		Ambient															
		Start																	
		Stop																	
Special Instructions/QC Requirements & Comments:																			
<u>* Analyze for pVOCs + Naphthalene only.</u>																			
Canisters Shipped by: <u>Robert Langdon</u>		Date/Time: <u>2/21/19 13:00</u>		Canisters Received by:															
Samples Relinquished by:		Date/Time:		Received by:															
Relinquished by:		Date/Time:		Received by:															

Lab Use Only

Shipper Name:

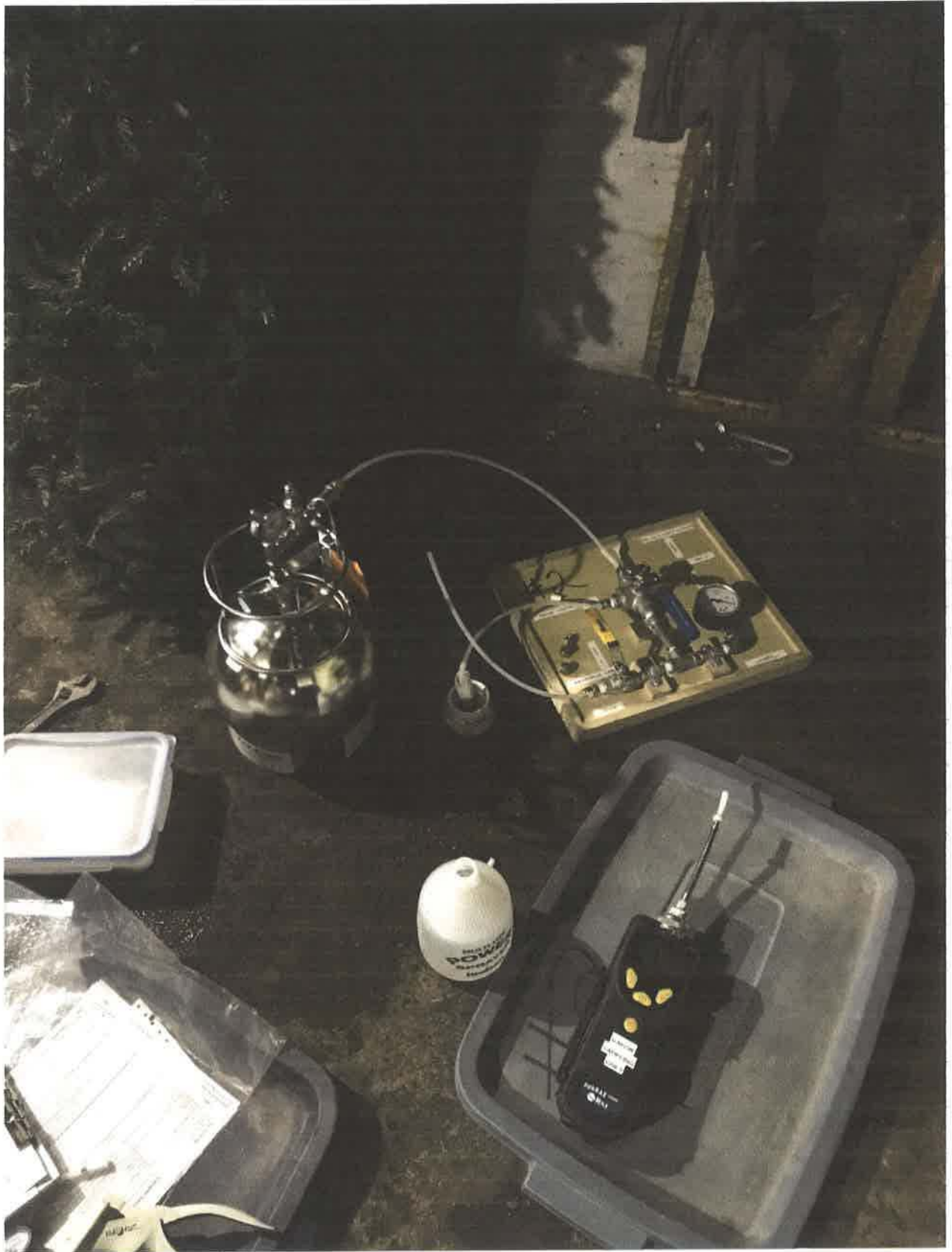
Opened by:

Condition:



3012





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Knoxville  
5815 Middlebrook Pike  
Knoxville, TN 37921  
Tel: (865)291-3000

TestAmerica Job ID: 140-14411-1  
Client Project/Site: River Bends Bar - Attica, WI 25219083.00

For:  
SCS Engineers  
2830 Dairy Dr  
Madison, Wisconsin 53718

Attn: Mr. Eric Oelkers



*Authorized for release by:  
3/7/2019 7:20:26 AM*

Sandie Fredrick, Project Manager II  
(920)261-1660  
sandie.fredrick@testamericainc.com

### LINKS

Review your project  
results through  
**Total Access**

Have a Question?

**?** Ask  
The  
Expert

Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16



# Table of Contents

Cover Page .....	1
Table of Contents .....	2
Definitions/Glossary .....	3
Case Narrative .....	4
Detection Summary .....	5
Client Sample Results .....	7
Default Detection Limits .....	9
Surrogate Summary .....	10
QC Sample Results .....	11
QC Association Summary .....	13
Lab Chronicle .....	14
Certification Summary .....	15
Method Summary .....	16
Sample Summary .....	17
Chain of Custody .....	18
Receipt Checklists .....	20



## Definitions/Glossary

Client: SCS Engineers  
Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

### Qualifiers

#### Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Case Narrative

Client: SCS Engineers  
Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

---

**Job ID: 140-14411-1**

---

**Laboratory: TestAmerica Knoxville**

**Narrative**

---

**Job Narrative  
140-14411-1**

### Comments

No additional comments.

### Receipt

The samples were received on 2/26/2019 1:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice.

### Air - GC/MS VOA

Method(s) TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO-15: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: VP-3 (140-14411-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



## Detection Summary

Client: SCS Engineers  
Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

### Client Sample ID: VP-1

### Lab Sample ID: 140-14411-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.43		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.17	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
Benzene	0.48		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.72		0.20	0.068	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.1		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.40		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Toluene	1.8		1.0	0.12	ppb v/v	1		TO-15	Total/NA
Xylenes, Total	1.5		0.40	0.061	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.1		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.85	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
Benzene	1.5		0.64	0.18	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.1		0.87	0.30	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	4.6		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.8		0.87	0.26	ug/m3	1		TO-15	Total/NA
Toluene	6.8		3.8	0.45	ug/m3	1		TO-15	Total/NA
Xylenes, Total	6.5		1.7	0.26	ug/m3	1		TO-15	Total/NA

### Client Sample ID: VP-2

### Lab Sample ID: 140-14411-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.9		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.54		0.20	0.065	ppb v/v	1		TO-15	Total/NA
Benzene	0.19	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.39		0.20	0.068	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.5		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.10	J	0.40	0.090	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.64		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Toluene	0.76	J	1.0	0.12	ppb v/v	1		TO-15	Total/NA
Xylenes, Total	2.1		0.40	0.061	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	9.2		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	2.7		0.98	0.32	ug/m3	1		TO-15	Total/NA
Benzene	0.60	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.7		0.87	0.30	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	6.4		0.87	0.52	ug/m3	1		TO-15	Total/NA
Naphthalene	0.53	J	2.1	0.47	ug/m3	1		TO-15	Total/NA
o-Xylene	2.8		0.87	0.26	ug/m3	1		TO-15	Total/NA
Toluene	2.9	J	3.8	0.45	ug/m3	1		TO-15	Total/NA
Xylenes, Total	9.3		1.7	0.26	ug/m3	1		TO-15	Total/NA

### Client Sample ID: VP-3

### Lab Sample ID: 140-14411-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	4.7		0.53	0.17	ppb v/v	1.33		TO-15	Total/NA
1,3,5-Trimethylbenzene	2.8		0.53	0.17	ppb v/v	1.33		TO-15	Total/NA
Benzene	0.54		0.53	0.15	ppb v/v	1.33		TO-15	Total/NA
Ethylbenzene	0.84		0.53	0.18	ppb v/v	1.33		TO-15	Total/NA
m-Xylene & p-Xylene	1.6		0.53	0.32	ppb v/v	1.33		TO-15	Total/NA
Naphthalene	0.26	J	1.1	0.24	ppb v/v	1.33		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

## Detection Summary

Client: SCS Engineers  
 Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

**Client Sample ID: VP-3 (Continued)**

**Lab Sample ID: 140-14411-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	0.76		0.53	0.16	ppb v/v	1.33		TO-15	Total/NA
Toluene	2.3	J	2.7	0.32	ppb v/v	1.33		TO-15	Total/NA
Xylenes, Total	2.4		1.1	0.16	ppb v/v	1.33		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	23		2.6	0.82	ug/m3	1.33		TO-15	Total/NA
1,3,5-Trimethylbenzene	14		2.6	0.85	ug/m3	1.33		TO-15	Total/NA
Benzene	1.7		1.7	0.48	ug/m3	1.33		TO-15	Total/NA
Ethylbenzene	3.7		2.3	0.79	ug/m3	1.33		TO-15	Total/NA
m-Xylene & p-Xylene	7.1		2.3	1.4	ug/m3	1.33		TO-15	Total/NA
Naphthalene	1.4	J	5.6	1.3	ug/m3	1.33		TO-15	Total/NA
o-Xylene	3.3		2.3	0.70	ug/m3	1.33		TO-15	Total/NA
Toluene	8.5	J	10	1.2	ug/m3	1.33		TO-15	Total/NA
Xylenes, Total	10		4.6	0.70	ug/m3	1.33		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

# Client Sample Results

Client: SCS Engineers  
 Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

**Client Sample ID: VP-1**

**Lab Sample ID: 140-14411-1**

Date Collected: 02/21/19 11:00

Matrix: Air

Date Received: 02/26/19 13:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.43		0.20	0.063	ppb v/v			02/27/19 16:42	1
1,3,5-Trimethylbenzene	0.17	J	0.20	0.065	ppb v/v			02/27/19 16:42	1
Benzene	0.48		0.20	0.056	ppb v/v			02/27/19 16:42	1
Ethylbenzene	0.72		0.20	0.068	ppb v/v			02/27/19 16:42	1
Methyl tert-butyl ether	<0.17		1.0	0.17	ppb v/v			02/27/19 16:42	1
m-Xylene & p-Xylene	1.1		0.20	0.12	ppb v/v			02/27/19 16:42	1
Naphthalene	<0.090		0.40	0.090	ppb v/v			02/27/19 16:42	1
o-Xylene	0.40		0.20	0.061	ppb v/v			02/27/19 16:42	1
Toluene	1.8		1.0	0.12	ppb v/v			02/27/19 16:42	1
Xylenes, Total	1.5		0.40	0.061	ppb v/v			02/27/19 16:42	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.1		0.98	0.31	ug/m3			02/27/19 16:42	1
1,3,5-Trimethylbenzene	0.85	J	0.98	0.32	ug/m3			02/27/19 16:42	1
Benzene	1.5		0.64	0.18	ug/m3			02/27/19 16:42	1
Ethylbenzene	3.1		0.87	0.30	ug/m3			02/27/19 16:42	1
Methyl tert-butyl ether	<0.61		3.6	0.61	ug/m3			02/27/19 16:42	1
m-Xylene & p-Xylene	4.6		0.87	0.52	ug/m3			02/27/19 16:42	1
Naphthalene	<0.47		2.1	0.47	ug/m3			02/27/19 16:42	1
o-Xylene	1.8		0.87	0.26	ug/m3			02/27/19 16:42	1
Toluene	6.8		3.8	0.45	ug/m3			02/27/19 16:42	1
Xylenes, Total	6.5		1.7	0.26	ug/m3			02/27/19 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		60 - 140					02/27/19 16:42	1

**Client Sample ID: VP-2**

**Lab Sample ID: 140-14411-2**

Date Collected: 02/21/19 11:20

Matrix: Air

Date Received: 02/26/19 13:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1.9		0.20	0.063	ppb v/v			02/28/19 07:01	1
1,3,5-Trimethylbenzene	0.54		0.20	0.065	ppb v/v			02/28/19 07:01	1
Benzene	0.19	J	0.20	0.056	ppb v/v			02/28/19 07:01	1
Ethylbenzene	0.39		0.20	0.068	ppb v/v			02/28/19 07:01	1
Methyl tert-butyl ether	<0.17		1.0	0.17	ppb v/v			02/28/19 07:01	1
m-Xylene & p-Xylene	1.5		0.20	0.12	ppb v/v			02/28/19 07:01	1
Naphthalene	0.10	J	0.40	0.090	ppb v/v			02/28/19 07:01	1
o-Xylene	0.64		0.20	0.061	ppb v/v			02/28/19 07:01	1
Toluene	0.76	J	1.0	0.12	ppb v/v			02/28/19 07:01	1
Xylenes, Total	2.1		0.40	0.061	ppb v/v			02/28/19 07:01	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	9.2		0.98	0.31	ug/m3			02/28/19 07:01	1
1,3,5-Trimethylbenzene	2.7		0.98	0.32	ug/m3			02/28/19 07:01	1
Benzene	0.60	J	0.64	0.18	ug/m3			02/28/19 07:01	1
Ethylbenzene	1.7		0.87	0.30	ug/m3			02/28/19 07:01	1
Methyl tert-butyl ether	<0.61		3.6	0.61	ug/m3			02/28/19 07:01	1

TestAmerica Knoxville

## Client Sample Results

Client: SCS Engineers  
Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

### Client Sample ID: VP-2

Date Collected: 02/21/19 11:20

Date Received: 02/26/19 13:30

Sample Container: Summa Canister 6L

### Lab Sample ID: 140-14411-2

Matrix: Air

#### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	6.4		0.87	0.52	ug/m3			02/28/19 07:01	1
Naphthalene	0.53	J	2.1	0.47	ug/m3			02/28/19 07:01	1
o-Xylene	2.8		0.87	0.26	ug/m3			02/28/19 07:01	1
Toluene	2.9	J	3.8	0.45	ug/m3			02/28/19 07:01	1
Xylenes, Total	9.3		1.7	0.26	ug/m3			02/28/19 07:01	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	103		60 - 140					02/28/19 07:01	1

### Client Sample ID: VP-3

Date Collected: 02/21/19 11:55

Date Received: 02/26/19 13:30

Sample Container: Summa Canister 6L

### Lab Sample ID: 140-14411-3

Matrix: Air

#### Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	4.7		0.53	0.17	ppb v/v			02/27/19 18:27	1.33
1,3,5-Trimethylbenzene	2.8		0.53	0.17	ppb v/v			02/27/19 18:27	1.33
Benzene	0.54		0.53	0.15	ppb v/v			02/27/19 18:27	1.33
Ethylbenzene	0.84		0.53	0.18	ppb v/v			02/27/19 18:27	1.33
Methyl tert-butyl ether	<0.45		2.7	0.45	ppb v/v			02/27/19 18:27	1.33
m-Xylene & p-Xylene	1.6		0.53	0.32	ppb v/v			02/27/19 18:27	1.33
Naphthalene	0.26	J	1.1	0.24	ppb v/v			02/27/19 18:27	1.33
o-Xylene	0.76		0.53	0.16	ppb v/v			02/27/19 18:27	1.33
Toluene	2.3	J	2.7	0.32	ppb v/v			02/27/19 18:27	1.33
Xylenes, Total	2.4		1.1	0.16	ppb v/v			02/27/19 18:27	1.33
<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2,4-Trimethylbenzene	23		2.6	0.82	ug/m3			02/27/19 18:27	1.33
1,3,5-Trimethylbenzene	14		2.6	0.85	ug/m3			02/27/19 18:27	1.33
Benzene	1.7		1.7	0.48	ug/m3			02/27/19 18:27	1.33
Ethylbenzene	3.7		2.3	0.79	ug/m3			02/27/19 18:27	1.33
Methyl tert-butyl ether	<1.6		9.6	1.6	ug/m3			02/27/19 18:27	1.33
m-Xylene & p-Xylene	7.1		2.3	1.4	ug/m3			02/27/19 18:27	1.33
Naphthalene	1.4	J	5.6	1.3	ug/m3			02/27/19 18:27	1.33
o-Xylene	3.3		2.3	0.70	ug/m3			02/27/19 18:27	1.33
Toluene	8.5	J	10	1.2	ug/m3			02/27/19 18:27	1.33
Xylenes, Total	10		4.6	0.70	ug/m3			02/27/19 18:27	1.33
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	105		60 - 140					02/27/19 18:27	1.33



## Default Detection Limits

Client: SCS Engineers  
 Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units	Method
1,2,4-Trimethylbenzene	0.20	0.063	ppb v/v	TO-15
1,2,4-Trimethylbenzene	0.98	0.31	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.20	0.065	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.98	0.32	ug/m3	TO-15
Benzene	0.20	0.056	ppb v/v	TO-15
Benzene	0.64	0.18	ug/m3	TO-15
Ethylbenzene	0.20	0.068	ppb v/v	TO-15
Ethylbenzene	0.87	0.30	ug/m3	TO-15
Methyl tert-butyl ether	1.0	0.17	ppb v/v	TO-15
Methyl tert-butyl ether	3.6	0.61	ug/m3	TO-15
m-Xylene & p-Xylene	0.20	0.12	ppb v/v	TO-15
m-Xylene & p-Xylene	0.87	0.52	ug/m3	TO-15
Naphthalene	0.40	0.090	ppb v/v	TO-15
Naphthalene	2.1	0.47	ug/m3	TO-15
o-Xylene	0.20	0.061	ppb v/v	TO-15
o-Xylene	0.87	0.26	ug/m3	TO-15
Toluene	1.0	0.12	ppb v/v	TO-15
Toluene	3.8	0.45	ug/m3	TO-15
Xylenes, Total	0.40	0.061	ppb v/v	TO-15
Xylenes, Total	1.7	0.26	ug/m3	TO-15

# Surrogate Summary

Client: SCS Engineers  
Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB (60-140)	
140-14411-1	VP-1	100	
140-14411-2	VP-2	103	
140-14411-3	VP-3	105	
LCS 140-27980/1002	Lab Control Sample	103	
MB 140-27980/6	Method Blank	95	

**Surrogate Legend**  
BFB = 4-Bromofluorobenzene (Surr)

# QC Sample Results

Client: SCS Engineers  
Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-27980/6

Matrix: Air

Analysis Batch: 27980

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.063		0.20	0.063	ppb v/v			02/27/19 14:36	1
1,3,5-Trimethylbenzene	<0.065		0.20	0.065	ppb v/v			02/27/19 14:36	1
Benzene	<0.056		0.20	0.056	ppb v/v			02/27/19 14:36	1
Ethylbenzene	<0.068		0.20	0.068	ppb v/v			02/27/19 14:36	1
Methyl tert-butyl ether	<0.17		1.0	0.17	ppb v/v			02/27/19 14:36	1
m-Xylene & p-Xylene	<0.12		0.20	0.12	ppb v/v			02/27/19 14:36	1
Naphthalene	<0.090		0.40	0.090	ppb v/v			02/27/19 14:36	1
o-Xylene	<0.061		0.20	0.061	ppb v/v			02/27/19 14:36	1
Toluene	<0.12		1.0	0.12	ppb v/v			02/27/19 14:36	1
Xylenes, Total	<0.061		0.40	0.061	ppb v/v			02/27/19 14:36	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.31		0.98	0.31	ug/m3			02/27/19 14:36	1
1,3,5-Trimethylbenzene	<0.32		0.98	0.32	ug/m3			02/27/19 14:36	1
Benzene	<0.18		0.64	0.18	ug/m3			02/27/19 14:36	1
Ethylbenzene	<0.30		0.87	0.30	ug/m3			02/27/19 14:36	1
Methyl tert-butyl ether	<0.61		3.6	0.61	ug/m3			02/27/19 14:36	1
m-Xylene & p-Xylene	<0.52		0.87	0.52	ug/m3			02/27/19 14:36	1
Naphthalene	<0.47		2.1	0.47	ug/m3			02/27/19 14:36	1
o-Xylene	<0.26		0.87	0.26	ug/m3			02/27/19 14:36	1
Toluene	<0.45		3.8	0.45	ug/m3			02/27/19 14:36	1
Xylenes, Total	<0.26		1.7	0.26	ug/m3			02/27/19 14:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140		02/27/19 14:36	1

Lab Sample ID: LCS 140-27980/1002

Matrix: Air

Analysis Batch: 27980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	1.00	1.15		ppb v/v		115	70 - 130
1,3,5-Trimethylbenzene	1.00	1.18		ppb v/v		118	70 - 130
Benzene	1.00	1.08		ppb v/v		108	70 - 130
Ethylbenzene	1.00	1.09		ppb v/v		109	70 - 130
Methyl tert-butyl ether	1.00	1.08		ppb v/v		108	60 - 140
m-Xylene & p-Xylene	2.00	2.30		ppb v/v		115	70 - 130
Naphthalene	1.00	1.16		ppb v/v		116	60 - 140
o-Xylene	1.00	1.13		ppb v/v		113	70 - 130
Toluene	1.00	1.10		ppb v/v		110	70 - 130
Xylenes, Total	3.00	3.43		ppb v/v		114	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	4.9	5.66		ug/m3		115	70 - 130
1,3,5-Trimethylbenzene	4.9	5.80		ug/m3		118	70 - 130
Benzene	3.2	3.46		ug/m3		108	70 - 130
Ethylbenzene	4.3	4.73		ug/m3		109	70 - 130
Methyl tert-butyl ether	3.6	3.90		ug/m3		108	60 - 140

TestAmerica Knoxville

# QC Sample Results

Client: SCS Engineers  
 Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-27980/1002  
 Matrix: Air  
 Analysis Batch: 27980

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	8.7	9.98		ug/m3		115	70 - 130
Naphthalene	5.2	6.06		ug/m3		116	60 - 140
o-Xylene	4.3	4.90		ug/m3		113	70 - 130
Toluene	3.8	4.13		ug/m3		110	70 - 130
Xylenes, Total	13	14.9		ug/m3		114	70 - 130
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		103					60 - 140

## QC Association Summary

Client: SCS Engineers  
Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

### Air - GC/MS VOA

#### Analysis Batch: 27980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-14411-1	VP-1	Total/NA	Air	TO-15	
140-14411-2	VP-2	Total/NA	Air	TO-15	
140-14411-3	VP-3	Total/NA	Air	TO-15	
MB 140-27980/6	Method Blank	Total/NA	Air	TO-15	
LCS 140-27980/1002	Lab Control Sample	Total/NA	Air	TO-15	

# Lab Chronicle

Client: SCS Engineers  
Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

## Client Sample ID: VP-1

Lab Sample ID: 140-14411-1

Date Collected: 02/21/19 11:00

Matrix: Air

Date Received: 02/26/19 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	27980	02/27/19 16:42	S1K	TAL KNX
Instrument ID: MH										

## Client Sample ID: VP-2

Lab Sample ID: 140-14411-2

Date Collected: 02/21/19 11:20

Matrix: Air

Date Received: 02/26/19 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	27980	02/28/19 07:01	S1K	TAL KNX
Instrument ID: MH										

## Client Sample ID: VP-3

Lab Sample ID: 140-14411-3

Date Collected: 02/21/19 11:55

Matrix: Air

Date Received: 02/26/19 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.33	100 mL	500 mL	27980	02/27/19 18:27	S1K	TAL KNX
Instrument ID: MH										

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-27980/6

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	27980	02/27/19 14:36	S1K	TAL KNX
Instrument ID: MH										

## Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-27980/1002

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	500 mL	500 mL	27980	02/27/19 11:50	S1K	TAL KNX
Instrument ID: MH										

### Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

## Accreditation/Certification Summary

Client: SCS Engineers  
Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

### Laboratory: TestAmerica Knoxville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998044300	08-31-19

### Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19



# Method Summary

Client: SCS Engineers  
Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

---

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

---

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000





# Sample Summary

Client: SCS Engineers  
Project/Site: River Bends Bar - Attica, WI 25219083.00

TestAmerica Job ID: 140-14411-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-14411-1	VP-1	Air	02/21/19 11:00	02/26/19 13:30
140-14411-2	VP-2	Air	02/21/19 11:20	02/26/19 13:30
140-14411-3	VP-3	Air	02/21/19 11:55	02/26/19 13:30



TAL Knoxville


5815 Middlebrook Pike  
 Knoxville, TN 37921  
 phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.



THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information		Project Manager: <u>Eric Oelkers</u>		Sampled By: <u>Robert Langdon</u>		1 of 1 COCs													
Company: <u>SES Engineers</u>		Phone:		Site Contact:															
Address: <u>1230 Derry Dr</u>		City/State/Zip: <u>Madison TN</u>		TAL Contact:															
Phone: <u>605 224 1230</u>		FAX:																	
Project Name: <u>River Bend's Bar</u>		Analysis Turnaround Time		 140-14411 Chain of Custody															
Site/location: <u>Attica, WI</u>		Standard (Specify) <u>X</u>																	
PO #		Rush (Specify)																	
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 *	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
VP-1	2/21/19	1030	1100	-30	-6.5	11958	10532	X											
VP-2	↓	1050	1120	-70	-4.5	11909	11157	X											
VP-3	↓	1125	1155	-29	-80	11959	10099	X											
Sampled by: <u>Robert Langdon</u>		Temperature (Fahrenheit)				Received @ ambient, 1 box FedEx G, No canister seal tick # 7745 1212 6242 KW 2/26/19													
		Interior		Ambient															
Start																			
Stop																			
		Interior		Ambient															
Start																			
Stop																			
Special Instructions/QC Requirements & Comments:																			
<u>* Analyze for p,p'-DDE + Naphthalene only.</u>																			
Canisters Shipped by: <u>Robert Langdon</u>		Date/Time: <u>2/21/19 13:00</u>		Canisters Received by: <u>Robert Langdon</u>		Date/Time: <u>2/26/19 1330 TA-Knox</u>		3 cans 3 KR											
Samples Relinquished by:		Date/Time:		Received by:															
Relinquished by:		Date/Time:		Received by:															

Page 18 of 20

3/7/2019

Lab Use Only Shipper Name: \_\_\_\_\_ Opened by: \_\_\_\_\_ Condition: \_\_\_\_\_



TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Log In Number

Loc: 140  
14411

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	
2. Were ambient air containers received intact?			/	<input checked="" type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?			/	<input type="checkbox"/> Yes <input type="checkbox"/> NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : _____ Correction factor: _____			/	<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC?	/			<input type="checkbox"/> Sampler Not Listed on COC	pH test strip lot number: _____
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?			/	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____
17. Were VOA samples received without headspace?			/	<input type="checkbox"/> Headspace (VOA only)	Exp Date: _____
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____			/	<input type="checkbox"/> Residual Chlorine	Analyst: _____
19. For 1613B water samples is pH<9?			/	<input type="checkbox"/> If no, notify lab to adjust	Date: _____
20. For rad samples was sample activity info. Provided?			/	<input type="checkbox"/> Project missing info	Time: _____
Project #: <u>50006561</u> PM Instructions: _____					

Sample Receiving Associate: [Signature]

Date: 2/26/19

QA026R31.doc, 112618



TestAmerica Knoxville - Air Canister Initial Pressure Check

Gauge ID: G5  
Date: 2/26/2019

Analyst	Sample ID	Asset #	Cleaning Job	Cert	Size (L)	Pressure @ Receipt (-in Hg or +psig)	Time	Comments
HMT	140-14411-a-1	10532	14202	B	6	-5.1	15:56	
HMT	140-14411-a-2	11157	14219	B	6	-2.9	15:57	
HMT	140-14411-a-3	10099	14202	B	6	-7.4	15:58	0.0
<input type="checkbox"/> Receiving –Air Can –Calve Open (NCM # _____)				<input type="checkbox"/> Air - Can P Out -26" - Flow Contr. Faulty (NCM# _____)				
<input type="checkbox"/> Air - Can P -24 to -25 " - Flow Contr. Works (NCM# _____)				<input type="checkbox"/> Air - Can P Low -24 to -25 " - Grab Sample (NCM# _____)				
<input type="checkbox"/> Air - Can P -24 to -25 " - Flow Contr. Faulty (NCM# _____)				<input type="checkbox"/> Air - Can P Low -26 "- Grab Sample (NCM# _____)				
<input type="checkbox"/> Air - Can P Out -26" - Flow Contr. Works (NCM# _____)								



# Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

TINA KLITZKE  
 TINA KLITZKE  
 N3602 CHURCH ROAD  
 MONTICELLO, WI 53570

Report Date 28-Feb-19

Project Name RIVER BEND'S BAR  
 Project #

Invoice # E35814

Lab Code 5035814A  
 Sample ID PW-N7298  
 Sample Matrix Water  
 Sample Date 2/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
<b>Inorganic</b>										
<b>Metals</b>										
Lead, Dissolved	< 0.8	ug/L	0.8	2.7	1	7421		2/26/2019	CWT	1
<b>Organic</b>										
<b>PVOC + Naphthalene</b>										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/25/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/25/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/25/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/25/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/25/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/25/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/25/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/25/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/25/2019	CJR	1

Project Name RIVER BEND'S BAR  
 Project #

Invoice # E35814

Lab Code 5035814B  
 Sample ID MW-3  
 Sample Matrix Water  
 Sample Date 2/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.8	ug/L	0.8	2.7	1	7421		2/26/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/27/2019	CJR	1
Ethylbenzene	1.79	ug/l	0.26	0.83	1	8260B		2/27/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/27/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/27/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/27/2019	CJR	1
1,2,4-Trimethylbenzene	2.5 "J"	ug/l	0.8	2.55	1	8260B		2/27/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/27/2019	CJR	1
m&p-Xylene	1.25 "J"	ug/l	0.43	1.38	1	8260B		2/27/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/27/2019	CJR	1

Lab Code 5035814C  
 Sample ID MW-5  
 Sample Matrix Water  
 Sample Date 2/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.8	ug/L	0.8	2.7	1	7421		2/26/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	2.6 "J"	ug/l	1.1	3.55	5	8260B		2/25/2019	CJR	1
Ethylbenzene	51	ug/l	1.3	4.15	5	8260B		2/25/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.4	ug/l	1.4	4.45	5	8260B		2/25/2019	CJR	1
Naphthalene	20.3 "J"	ug/l	10.5	33.25	5	8260B		2/25/2019	CJR	1
Toluene	3.3	ug/l	0.95	3	5	8260B		2/25/2019	CJR	1
1,2,4-Trimethylbenzene	301	ug/l	4	12.75	5	8260B		2/25/2019	CJR	1
1,3,5-Trimethylbenzene	27.8	ug/l	3.15	10	5	8260B		2/25/2019	CJR	1
m&p-Xylene	200	ug/l	2.15	6.9	5	8260B		2/25/2019	CJR	1
o-Xylene	14.2	ug/l	1.45	4.65	5	8260B		2/25/2019	CJR	1

Project Name RIVER BEND'S BAR  
 Project #

Invoice # E35814

Lab Code 5035814D  
 Sample ID MW-2  
 Sample Matrix Water  
 Sample Date 2/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.8	ug/L	0.8	2.7	1	7421		2/26/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 2.2	ug/l	2.2	7.1	10	8260B		2/25/2019	CJR	1
Ethylbenzene	52	ug/l	2.6	8.3	10	8260B		2/25/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		2/25/2019	CJR	1
Naphthalene	80	ug/l	21	66.5	10	8260B		2/25/2019	CJR	1
Toluene	3.7 "J"	ug/l	1.9	6	10	8260B		2/25/2019	CJR	1
1,2,4-Trimethylbenzene	700	ug/l	8	25.5	10	8260B		2/25/2019	CJR	1
1,3,5-Trimethylbenzene	119	ug/l	6.3	20	10	8260B		2/25/2019	CJR	1
m&p-Xylene	296	ug/l	4.3	13.8	10	8260B		2/25/2019	CJR	1
o-Xylene	83	ug/l	2.9	9.3	10	8260B		2/25/2019	CJR	1

Lab Code 5035814E  
 Sample ID MW-4  
 Sample Matrix Water  
 Sample Date 2/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	2.6 "J"	ug/L	0.8	2.7	1	7421		2/26/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	89	ug/l	2.2	7.1	10	8260B		2/25/2019	CJR	1
Ethylbenzene	590	ug/l	2.6	8.3	10	8260B		2/25/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		2/25/2019	CJR	1
Naphthalene	91	ug/l	21	66.5	10	8260B		2/25/2019	CJR	1
Toluene	197	ug/l	1.9	6	10	8260B		2/25/2019	CJR	1
1,2,4-Trimethylbenzene	1630	ug/l	8	25.5	10	8260B		2/25/2019	CJR	1
1,3,5-Trimethylbenzene	500	ug/l	6.3	20	10	8260B		2/25/2019	CJR	1
m&p-Xylene	1120	ug/l	4.3	13.8	10	8260B		2/25/2019	CJR	1
o-Xylene	380	ug/l	2.9	9.3	10	8260B		2/25/2019	CJR	1

Project Name RIVER BEND'S BAR  
 Project #

Invoice # E35814

Lab Code 5035814F  
 Sample ID MW-1R  
 Sample Matrix Water  
 Sample Date 2/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	4.5	ug/L	0.8	2.7	1	7421		2/26/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	41	ug/l	2.2	7.1	10	8260B		2/26/2019	CJR	1
Ethylbenzene	1040	ug/l	2.6	8.3	10	8260B		2/26/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		2/26/2019	CJR	1
Naphthalene	223	ug/l	21	66.5	10	8260B		2/26/2019	CJR	1
Toluene	30.3	ug/l	1.9	6	10	8260B		2/26/2019	CJR	1
1,2,4-Trimethylbenzene	330	ug/l	8	25.5	10	8260B		2/26/2019	CJR	1
1,3,5-Trimethylbenzene	301	ug/l	6.3	20	10	8260B		2/26/2019	CJR	1
m&p-Xylene	830	ug/l	4.3	13.8	10	8260B		2/26/2019	CJR	1
o-Xylene	8.6 "J"	ug/l	2.9	9.3	10	8260B		2/26/2019	CJR	1

Lab Code 5035814G  
 Sample ID TB  
 Sample Matrix Water  
 Sample Date 2/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/25/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/25/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/25/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/25/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/25/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/25/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/25/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/25/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/25/2019	CJR	1



**Project Name** RIVER BEND'S BAR  
**Project #**

**Invoice #** E35814

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

***Code***      ***Comment***

1              Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**

*Michael Ricker*

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

### Sample Handling Request

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. #	
Account No. :	Quote No.:
Project #:	
Sampler: (signature) <i>Tyke Woodke</i>	

Project (Name / Location): <i>River Bend's Bar / Albany, WI</i>	
Reports To: <i>Tina Klitzke</i>	Invoice To: <i>Tina Klitzke</i>
Company	Company <i>40 METCO</i>
Address <i>N6302 Church Rd.</i>	Address <i>709 Gillette Street, Suite 3</i>
City State Zip <i>Manticevo, WI 53570</i>	City State Zip <i>La Crosse, WI 54603</i>
Phone	Phone
FAX	FAX

Analysis Requested		Other Analysis	
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD (Dissolved)	PID/ FID
		NITRATE/NITRITE	
		OIL & GREASE	
		PAH (EPA 8270)	
		PCB	
		PVOC (EPA 8021)	
		PVOC + NAPHTHALENE	
		SULFATE	
		TOTAL SUSPENDED SOLIDS	
		VOC DW (EPA 524.2)	
		VOC (EPA 8260)	
		8-PCRA METALS	

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<i>5035814A</i>	<i>PW-N7298</i>	<i>2/21/19</i>	<i>1000</i>			<i>Y</i>	<i>4</i>	<i>GW</i>	<i>HCl, HNO3</i>
<i>B</i>	<i>MW-2</i>		<i>1030</i>						
<i>C</i>	<i>MW-5</i>		<i>1100</i>						
<i>D</i>	<i>MW-2</i>		<i>1130</i>						
<i>E</i>	<i>MW-4</i>		<i>1200</i>						
<i>F</i>	<i>MW-1R</i>	<i>✓</i>	<i>1830</i>						
<i>G</i>	<i>TB</i>						<i>1</i>		<i>HCl</i>

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

*Lab to send copy of Report to METCO/Jason P. (Invoice to METCO)*  
*\* UTC Rates Apply*  
*\* Agent Status*

Sample Integrity - To be completed by receiving lab. Method of Shipment: <i>GR</i> Temp. of Temp. Blank _____ °C On Ice: <i>X</i> Cooler seal intact upon receipt: <i>X</i> Yes _____ No	Relinquished By: (sign) <i>Tyke Woodke</i>	Time <i>9:00 AM</i>	Date <i>2/22/19</i>	Received By: (sign) _____	Time _____	Date _____
	Received in Laboratory By: <i>[Signature]</i>					
	Time: <i>10:00</i> Date: <i>2/23/19</i>					

# Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

TINA KLITZKE  
TINA KLITZKE  
N3602 CHURCH ROAD  
MONTICELLO, WI 53570

Report Date 29-May-19

Project Name RIVER BEND BAR  
Project #

Invoice # E36197

Lab Code 5036197A  
Sample ID PW N7298  
Sample Matrix Water  
Sample Date 5/16/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.1	ug/L	1.1	3.7	1	7421		5/21/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		5/22/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/22/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/22/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/22/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/22/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/22/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/22/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/22/2019	CJR	1

Project Name RIVER BEND BAR  
 Project #

Invoice # E36197

Lab Code 5036197B  
 Sample ID PW N7302  
 Sample Matrix Water  
 Sample Date 5/16/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.1	ug/L	1.1	3.7	1	7421		5/21/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		5/22/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/22/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/22/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/22/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/22/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/22/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/22/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/22/2019	CJR	1

Lab Code 5036197C  
 Sample ID MW-3  
 Sample Matrix Water  
 Sample Date 5/16/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.1	ug/L	1.1	3.7	1	7421		5/21/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		5/22/2019	CJR	1
Ethylbenzene	1.4	ug/l	0.26	0.83	1	8260B		5/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/22/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/22/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/22/2019	CJR	1
1,2,4-Trimethylbenzene	2.35 "J"	ug/l	0.8	2.55	1	8260B		5/22/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/22/2019	CJR	1
m&p-Xylene	1.24 "J"	ug/l	0.43	1.38	1	8260B		5/22/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/22/2019	CJR	1

Project Name RIVER BEND BAR  
 Project #

Invoice # E36197

Lab Code 5036197D  
 Sample ID MW-5  
 Sample Matrix Water  
 Sample Date 5/16/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.1	ug/L	1.1	3.7	1	7421		5/21/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	1.36	ug/l	0.22	0.71	1	8260B		5/22/2019	CJR	1
Ethylbenzene	20.2	ug/l	0.26	0.83	1	8260B		5/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/22/2019	CJR	1
Naphthalene	8.7	ug/l	2.1	6.65	1	8260B		5/22/2019	CJR	1
Toluene	1.61	ug/l	0.19	0.6	1	8260B		5/22/2019	CJR	1
1,2,4-Trimethylbenzene	136	ug/l	0.8	2.55	1	8260B		5/22/2019	CJR	1
1,3,5-Trimethylbenzene	15.3	ug/l	0.63	2	1	8260B		5/22/2019	CJR	1
m&p-Xylene	152	ug/l	0.43	1.38	1	8260B		5/22/2019	CJR	1
o-Xylene	7.0	ug/l	0.29	0.93	1	8260B		5/22/2019	CJR	1

Lab Code 5036197E  
 Sample ID MW-2  
 Sample Matrix Water  
 Sample Date 5/16/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	4.9	ug/L	1.1	3.7	1	7421		5/21/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 2.2	ug/l	2.2	7.1	10	8260B		5/24/2019	CJR	1
Ethylbenzene	99	ug/l	2.6	8.3	10	8260B		5/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		5/24/2019	CJR	1
Naphthalene	155	ug/l	21	66.5	10	8260B		5/24/2019	CJR	1
Toluene	2.8 "J"	ug/l	1.9	6	10	8260B		5/24/2019	CJR	1
1,2,4-Trimethylbenzene	2330	ug/l	8	25.5	10	8260B		5/24/2019	CJR	1
1,3,5-Trimethylbenzene	540	ug/l	6.3	20	10	8260B		5/24/2019	CJR	1
m&p-Xylene	670	ug/l	4.3	13.8	10	8260B		5/24/2019	CJR	1
o-Xylene	146	ug/l	2.9	9.3	10	8260B		5/24/2019	CJR	1

Project Name RIVER BEND BAR  
 Project #

Invoice # E36197

Lab Code 5036197F  
 Sample ID MW-4  
 Sample Matrix Water  
 Sample Date 5/16/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.1	ug/L	1.1	3.7	1	7421		5/21/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	128	ug/l	4.4	14.2	20	8260B		5/24/2019	CJR	1
Ethylbenzene	640	ug/l	5.2	16.6	20	8260B		5/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 5.6	ug/l	5.6	17.8	20	8260B		5/24/2019	CJR	1
Naphthalene	92 "J"	ug/l	42	133	20	8260B		5/24/2019	CJR	1
Toluene	284	ug/l	3.8	12	20	8260B		5/24/2019	CJR	1
1,2,4-Trimethylbenzene	1740	ug/l	16	51	20	8260B		5/24/2019	CJR	1
1,3,5-Trimethylbenzene	520	ug/l	12.6	40	20	8260B		5/24/2019	CJR	1
m&p-Xylene	1400	ug/l	8.6	27.6	20	8260B		5/24/2019	CJR	1
o-Xylene	440	ug/l	5.8	18.6	20	8260B		5/24/2019	CJR	1

Lab Code 5036197G  
 Sample ID MW-1R  
 Sample Matrix Water  
 Sample Date 5/16/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	8.1	ug/L	1.1	3.7	1	7421		5/21/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	40	ug/l	2.2	7.1	10	8260B		5/24/2019	CJR	1
Ethylbenzene	1230	ug/l	2.6	8.3	10	8260B		5/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		5/24/2019	CJR	1
Naphthalene	224	ug/l	21	66.5	10	8260B		5/24/2019	CJR	1
Toluene	38	ug/l	1.9	6	10	8260B		5/24/2019	CJR	1
1,2,4-Trimethylbenzene	820	ug/l	8	25.5	10	8260B		5/24/2019	CJR	1
1,3,5-Trimethylbenzene	360	ug/l	6.3	20	10	8260B		5/24/2019	CJR	1
m&p-Xylene	1350	ug/l	4.3	13.8	10	8260B		5/24/2019	CJR	1
o-Xylene	9.7	ug/l	2.9	9.3	10	8260B		5/24/2019	CJR	1

Project Name RIVER BEND BAR  
 Project #

Invoice # E36197

Lab Code 5036197H  
 Sample ID TB  
 Sample Matrix Water  
 Sample Date 5/16/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		5/24/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/24/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/24/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/24/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/24/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/24/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/24/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/24/2019	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code**      **Comment**

1      Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

*Michael Ricker*



## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # \_\_\_\_\_  
Account No. : \_\_\_\_\_ Quote No.: \_\_\_\_\_  
Project #: \_\_\_\_\_  
Sampler: (signature) *Rob Wilhott*

Project (Name / Location): *River Bend bar / Albany, WI*  
Reports To: *Tim Klitzke* Invoice To: *Tina Klitzke*  
Company: \_\_\_\_\_ Company: *Go METCO*  
Address: *16302 Church Rd.* Address: *709 Gillette St, Ste 3*  
City State Zip: *Monticello, WI 53570* City State Zip: *La Crosse, WI 54601*  
Phone: \_\_\_\_\_ Phone: \_\_\_\_\_  
FAX: \_\_\_\_\_ FAX: \_\_\_\_\_

Analysis Requested		Other Analysis												
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD (Dissolved)	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 824.2)	VOC (EPA 8260)	8-PCRA METALS	PID/ FID
		X						X						
		X						X						
		X						X						
		X						X						
		X						X						
		X						X						
		X						X						
		X						X						
		X						X						
		X						X						

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<del>503X597</del>	<del>PW N7298</del>	<del>5-16-14</del>	<del>10:45</del>			Y	4	GW	HCL, HNO3
B	PW N7302		9:57						
C	mw-3		10:39						
D	mw-5		11:25						
E	mw-2		11:36						
F	mw-4		11:54						
G	mw-1A		12:15						
H	TB						1		HCL

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)  
*Lab to send copy of Report to METCO/Jason P. (Invoice to METCO)*  
*\*UTC Rates Apply*  
*\*Agent Status*

Sample Integrity - To be completed by receiving lab.  
Method of Shipment: *Gold Cross*  
Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice: *2*  
Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign) *[Signature]* Time: *5:36* Date: *5/16/14*  
Received By: (sign) \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
Received in Laboratory By: *[Signature]* -SAL Time: *9:00 AM* Date: *5-18-14*

# Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

TINA KLITZKE  
 TINA KLITZKE  
 N3602 CHURCH ROAD  
 MONTICELLO, WI 53570

Report Date 22-Aug-19

Project Name RIVER BEND BAR  
 Project #

Invoice # E36640

Lab Code 5036640A  
 Sample ID PW N7298  
 Sample Matrix Water  
 Sample Date 8/14/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.1	ug/L	1.1	3.7	1	7421		8/20/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.32	ug/l	0.32	1.02	1	GRO95/8021		8/19/2019	CJR	1
Ethylbenzene	< 0.29	ug/l	0.29	0.94	1	GRO95/8021		8/19/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.24	ug/l	0.24	0.78	1	GRO95/8021		8/19/2019	CJR	1
Naphthalene	< 1.3	ug/l	1.3	4.1	1	GRO95/8021		8/19/2019	CJR	1
Toluene	< 0.29	ug/l	0.29	0.93	1	GRO95/8021		8/19/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.46	ug/l	0.46	1.46	1	GRO95/8021		8/19/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.67	ug/l	0.67	2.15	1	GRO95/8021		8/19/2019	CJR	1
m&p-Xylene	< 0.52	ug/l	0.52	1.67	1	GRO95/8021		8/19/2019	CJR	1
o-Xylene	< 0.7	ug/l	0.7	2.24	1	GRO95/8021		8/19/2019	CJR	1

Project Name RIVER BEND BAR  
 Project #

Invoice # E36640

Lab Code 5036640B  
 Sample ID PW N7302  
 Sample Matrix Water  
 Sample Date 8/14/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.1	ug/L	1.1	3.7	1	7421		8/20/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.32	ug/l	0.32	1.02	1	GRO95/8021		8/19/2019	CJR	1
Ethylbenzene	< 0.29	ug/l	0.29	0.94	1	GRO95/8021		8/19/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.24	ug/l	0.24	0.78	1	GRO95/8021		8/19/2019	CJR	1
Naphthalene	< 1.3	ug/l	1.3	4.1	1	GRO95/8021		8/19/2019	CJR	1
Toluene	< 0.29	ug/l	0.29	0.93	1	GRO95/8021		8/19/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.46	ug/l	0.46	1.46	1	GRO95/8021		8/19/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.67	ug/l	0.67	2.15	1	GRO95/8021		8/19/2019	CJR	1
m&p-Xylene	< 0.52	ug/l	0.52	1.67	1	GRO95/8021		8/19/2019	CJR	1
o-Xylene	< 0.7	ug/l	0.7	2.24	1	GRO95/8021		8/19/2019	CJR	1

Lab Code 5036640C  
 Sample ID MW-3  
 Sample Matrix Water  
 Sample Date 8/14/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.1	ug/L	1.1	3.7	1	7421		8/20/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	0.45 "J"	ug/l	0.32	1.02	1	GRO95/8021		8/19/2019	CJR	1
Ethylbenzene	< 0.29	ug/l	0.29	0.94	1	GRO95/8021		8/19/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.24	ug/l	0.24	0.78	1	GRO95/8021		8/19/2019	CJR	1
Naphthalene	< 1.3	ug/l	1.3	4.1	1	GRO95/8021		8/19/2019	CJR	1
Toluene	< 0.29	ug/l	0.29	0.93	1	GRO95/8021		8/19/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.46	ug/l	0.46	1.46	1	GRO95/8021		8/19/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.67	ug/l	0.67	2.15	1	GRO95/8021		8/19/2019	CJR	1
m&p-Xylene	< 0.52	ug/l	0.52	1.67	1	GRO95/8021		8/19/2019	CJR	1
o-Xylene	< 0.7	ug/l	0.7	2.24	1	GRO95/8021		8/19/2019	CJR	1

Project Name RIVER BEND BAR  
 Project #

Invoice # E36640

Lab Code 5036640D  
 Sample ID MW-5  
 Sample Matrix Water  
 Sample Date 8/14/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.1	ug/L	1.1	3.7	1	7421		8/20/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	2.15	ug/l	0.32	1.02	1	GRO95/8021		8/20/2019	CJR	1
Ethylbenzene	21.6	ug/l	0.29	0.94	1	GRO95/8021		8/20/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.24	ug/l	0.24	0.78	1	GRO95/8021		8/20/2019	CJR	1
Naphthalene	15.9	ug/l	1.3	4.1	1	GRO95/8021		8/20/2019	CJR	1
Toluene	3.7	ug/l	0.29	0.93	1	GRO95/8021		8/20/2019	CJR	1
1,2,4-Trimethylbenzene	175	ug/l	0.46	1.46	1	GRO95/8021		8/20/2019	CJR	1
1,3,5-Trimethylbenzene	29.5	ug/l	0.67	2.15	1	GRO95/8021		8/20/2019	CJR	1
m&p-Xylene	161	ug/l	0.52	1.67	1	GRO95/8021		8/20/2019	CJR	1
o-Xylene	3.15	ug/l	0.7	2.24	1	GRO95/8021		8/20/2019	CJR	1

Lab Code 5036640E  
 Sample ID MW-2  
 Sample Matrix Water  
 Sample Date 8/14/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	6.0	ug/L	1.1	3.7	1	7421		8/20/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 6.4	ug/l	6.4	20.4	20	GRO95/8021		8/20/2019	CJR	1
Ethylbenzene	40	ug/l	5.8	18.8	20	GRO95/8021		8/20/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.8	ug/l	4.8	15.6	20	GRO95/8021		8/20/2019	CJR	1
Naphthalene	99	ug/l	26	82	20	GRO95/8021		8/20/2019	CJR	1
Toluene	7.5 "J"	ug/l	5.8	18.6	20	GRO95/8021		8/20/2019	CJR	1
1,2,4-Trimethylbenzene	690	ug/l	9.2	29.2	20	GRO95/8021		8/20/2019	CJR	1
1,3,5-Trimethylbenzene	145	ug/l	13.4	43	20	GRO95/8021		8/20/2019	CJR	1
m&p-Xylene	215	ug/l	10.4	33.4	20	GRO95/8021		8/20/2019	CJR	1
o-Xylene	49	ug/l	14	44.8	20	GRO95/8021		8/20/2019	CJR	1

Project Name RIVER BEND BAR  
 Project #

Invoice # E36640

Lab Code 5036640F  
 Sample ID MW-4  
 Sample Matrix Water  
 Sample Date 8/14/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	1.7 "J"	ug/L	1.1	3.7	1	7421		8/20/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	320	ug/l	6.4	20.4	20	GRO95/8021		8/20/2019	CJR	1
Ethylbenzene	730	ug/l	5.8	18.8	20	GRO95/8021		8/20/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.8	ug/l	4.8	15.6	20	GRO95/8021		8/20/2019	CJR	1
Naphthalene	143	ug/l	26	82	20	GRO95/8021		8/20/2019	CJR	1
Toluene	194	ug/l	5.8	18.6	20	GRO95/8021		8/20/2019	CJR	1
1,2,4-Trimethylbenzene	1960	ug/l	9.2	29.2	20	GRO95/8021		8/20/2019	CJR	1
1,3,5-Trimethylbenzene	590	ug/l	13.4	43	20	GRO95/8021		8/20/2019	CJR	1
m&p-Xylene	1570	ug/l	10.4	33.4	20	GRO95/8021		8/20/2019	CJR	1
o-Xylene	490	ug/l	14	44.8	20	GRO95/8021		8/20/2019	CJR	1

Lab Code 5036640G  
 Sample ID MW-1R  
 Sample Matrix Water  
 Sample Date 8/14/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.1	ug/L	1.1	3.7	1	7421		8/20/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	58	ug/l	3.2	10.2	10	GRO95/8021		8/20/2019	CJR	1
Ethylbenzene	1010	ug/l	2.9	9.4	10	GRO95/8021		8/20/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.4	ug/l	2.4	7.8	10	GRO95/8021		8/20/2019	CJR	1
Naphthalene	202	ug/l	13	41	10	GRO95/8021		8/20/2019	CJR	1
Toluene	20.5	ug/l	2.9	9.3	10	GRO95/8021		8/20/2019	CJR	1
1,2,4-Trimethylbenzene	530	ug/l	4.6	14.6	10	GRO95/8021		8/20/2019	CJR	1
1,3,5-Trimethylbenzene	287	ug/l	6.7	21.5	10	GRO95/8021		8/20/2019	CJR	1
m&p-Xylene	740	ug/l	5.2	16.7	10	GRO95/8021		8/20/2019	CJR	1
o-Xylene	11.3 "J"	ug/l	7	22.4	10	GRO95/8021		8/20/2019	CJR	1

Project Name RIVER BEND BAR  
 Project #

Invoice # E36640

Lab Code 5036640H  
 Sample ID TB  
 Sample Matrix Water  
 Sample Date 8/14/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.32	ug/l	0.32	1.02	1	GRO95/8021		8/19/2019	CJR	1
Ethylbenzene	< 0.29	ug/l	0.29	0.94	1	GRO95/8021		8/19/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.24	ug/l	0.24	0.78	1	GRO95/8021		8/19/2019	CJR	1
Naphthalene	< 1.3	ug/l	1.3	4.1	1	GRO95/8021		8/19/2019	CJR	1
Toluene	< 0.29	ug/l	0.29	0.93	1	GRO95/8021		8/19/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.46	ug/l	0.46	1.46	1	GRO95/8021		8/19/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.67	ug/l	0.67	2.15	1	GRO95/8021		8/19/2019	CJR	1
m&p-Xylene	< 0.52	ug/l	0.52	1.67	1	GRO95/8021		8/19/2019	CJR	1
o-Xylene	< 0.7	ug/l	0.7	2.24	1	GRO95/8021		8/19/2019	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code**      **Comment**

1      Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

*Michael Ricker*

CHAIN OF CUSTODY RECORD

# Synergy

## Environmental Lab, Inc.

Chain # No 336

Page 1 of 1

Lab I.D. #	
Account No. :	Quote No.:
Project #:	
Sampler: (signature) <i>Rob Lindmuth</i>	

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

<b>Sample Handling Request</b>	
Rush Analysis Date Required _____ (Rushes accepted only with prior authorization)	
<input checked="" type="checkbox"/> Normal Turn Around	

Project (Name / Location): <i>River Bends Bar</i>	
Reports To: <i>Tina Klitzke</i>	Invoice To: <i>Tina Klitzke</i>
Company	Company <i>Go METCO</i>
Address <i>N6302 Church Rd</i>	Address <i>709 Gillette St Ste #3</i>
City State Zip <i>Monticello WI 53570</i>	City State Zip <i>Le Crosse, WI 54603</i>
Phone <i>608-558-0280</i>	Phone <i>608-781-8879</i>
FAX	FAX

Analysis Requested										Other Analysis				
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD (Pb30)	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 824.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
		X						X						
		X						X						
		X						X						
		X						X						
		X						X						
		X						X						
		X						X						
								X						

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<del>50366421</del>	PW N7298	8-14	11:00		-	N/Y	4	GW	HCL/HNO3
B	PW N7302	8-14	11:30		-				
C	MW-3	8-14	9:22		-				
D	MW-5	8-14	9:50		-				
E	MW-2	8-14	10:20		-				
F	MW-4	8-14	10:40		-				
G	MW-12	8-14	11:11		-				
A	TB	8-14	-		-				HCL

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Lab to send copy of Report to METCO/Jason P. (Invoice to METCO)  
A/C Rates Apply  
Agent States

Sample Integrity - To be completed by receiving lab. Method of Shipment: <i>50366421</i> Temp. of Temp. Blank _____ °C On Ice <input checked="" type="checkbox"/> Cooler seal intact upon receipt <input checked="" type="checkbox"/> Yes _____ No	Relinquished By: (sign) <i>[Signature]</i>	Time <i>8:35</i>	Date <i>8-15-19</i>	Received By: (sign) _____	Time _____	Date _____
	Received in Laboratory By: <i>[Signature]</i>	Time: <i>8:07 AM</i>	Date: <i>8-16-19</i>			