



TETRA TECH

1837 County Hwy OO  
Chippewa Falls, WI 54729-6519

(715) 832-0282  
Fax (715) 832-0541

October 26, 2007

Nadene Cable  
WDNR  
810 W. Maple Street  
Spooner, WI 54801



Re: Laboratory results from the on and off-site private drinking wells at the Moose Junction Lounge site, 13195 State Highway 35 S, Dairyland, Douglas County, Wisconsin.  
**WDNR BRRTS #03-16-000301. WDCOM #54830-9999-97A.**  
Tetra Tech Project #1157332776.

Dear Ms. Cable:

Enclosed are the most recent laboratory results from on and off-site potable wells at the Moose Junction Lounge site. PW-1 is a sample collected from the Moose Junction Lounge and PW-2 is a sample collected from the Swenson Residence potable well.

Chloromethane (0.11 parts per billion [ppb]), methylene chloride (0.28 ppb), and toluene (0.35 ppb) were detected in the Moose Junction Lounge well at concentrations exceeding laboratory detection limits.

Chloromethane (0.16 ppb), 1,4-dichlorobenzene (0.56 ppb), ethylbenzene (0.1 ppb), methylene chloride (0.4 ppb), naphthalene (1.4 ppb), toluene (0.88 ppb), 1,1,1-trichloroethane (0.17 ppb), trimethylbenzenes (0.12 ppb), and xylenes (0.37 ppb) were detected in the Swenson well at concentrations exceeding laboratory detection limits. No other volatile organic compounds (VOCs) were detected at concentrations above laboratory detection limits.

If you have any questions, please contact Eric P. Oleson at 715-832-0282.

Sincerely,

Michael K. Neal, Professional Hydrologist  
Geomorphologist



- cc:  Chris Saari, WDNR, 2501 Golf Course Road, Ashland, WI 54806
- Trent E. Sprague, 2116 16 1/2 Street, Rice Lake, WI 54868-9556
- Will Myers, WDCOM, P.O. Box 8044, Madison, WI 53708-8044
- Conrad E. Swenson, 2794 E. Moose Road, Dairyland, WI 54830

File

MKN:mkn

TETRA TECH, INC.  
1837 County Hwy OO  
Chippewa Falls, WI 54729  
Mr. Mike Neal

Work Order: WQJ0287  
Project: Moose Junction  
Project Number: 1157332779

Received: 10/05/07  
Reported: 10/15/07 11:54

Analyte	Sample Result	Data Qualifiers	Units	MDL	LOQ	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
<b>Sample ID: WQJ0287-05 (PW-1 - Drinking Water)</b>							<b>Sampled: 10/03/07</b>			
Purgeable Organic Compounds by EPA Method 524.2										
Benzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Bromobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Bromochloromethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Bromodichloromethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Bromoform	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Bromomethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
n-Butylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
sec-Butylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
tert-Butylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Carbon Tetrachloride	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Chlorobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Chlorodibromomethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Chloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Chloroform	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
<b>Chloromethane</b>	<b>0.11</b>	J	ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
2-Chlorotoluene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
4-Chlorotoluene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,2-Dibromo-3-chloropropane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,2-Dibromoethane (EDB)	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Dibromomethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,2-Dichlorobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,3-Dichlorobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,4-Dichlorobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Dichlorodifluoromethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,1-Dichloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,2-Dichloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,1-Dichloroethene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
cis-1,2-Dichloroethene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
trans-1,2-Dichloroethene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,2-Dichloropropane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,3-Dichloropropane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
2,2-Dichloropropane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,1-Dichloropropene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
cis-1,3-Dichloropropene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
trans-1,3-Dichloropropene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Ethylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Hexachlorobutadiene	<0.050	B	ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Isopropylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
p-Isopropyltoluene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
<b>Methylene Chloride</b>	<b>0.28</b>	S2, J	ug/L	0.25	0.83	1	10/08/07 18:37	mae	7100281	EPA 524.2
Methyl tert-Butyl Ether	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Naphthalene	<0.25		ug/L	0.25	0.83	1	10/08/07 18:37	mae	7100281	EPA 524.2
n-Propylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Styrene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,1,1,2-Tetrachloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Tetrachloroethene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
<b>Toluene</b>	<b>0.35</b>		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,2,3-Trichlorobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,2,4-Trichlorobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,1,1-Trichloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,1,2-Trichloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2

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Work Order: WQJ0287  
Project: Moose Junction  
Project Number: 1157332779

Received: 10/05/07  
Reported: 10/15/07 11:54

Analyte	Sample Result	Data Qualifiers	Units	MDL	LOQ	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
<b>Sample ID: WQJ0287-05 (PW-1 - Drinking Water) - cont.</b>							<b>Sampled: 10/03/07</b>			
Purgeable Organic Compounds by EPA Method 524.2 - cont.										
Trichloroethene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Trichlorofluoromethane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,2,3-Trichloropropane	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,2,4-Trimethylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
1,3,5-Trimethylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
Vinyl chloride	<0.016		ug/L	0.016	0.053	1	10/08/07 18:37	mae	7100281	EPA 524.2
Xylenes, Total	<0.050		ug/L	0.050	0.17	1	10/08/07 18:37	mae	7100281	EPA 524.2
<i>Surr: 4-Bromofluorobenzene (76-116%)</i>	<i>93 %</i>									
<i>Surr: 1,2-Dichlorobenzene-d4 (80-119%)</i>	<i>94 %</i>									
<b>Sample ID: WQJ0287-06 (PW-2 - Drinking Water)</b>							<b>Sampled: 10/03/07</b>			
Purgeable Organic Compounds by EPA Method 524.2										
Benzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Bromobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Bromochloromethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Bromodichloromethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Bromoform	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Bromomethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
n-Butylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
sec-Butylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
tert-Butylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Carbon Tetrachloride	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Chlorobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Chlorodibromomethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Chloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Chloroform	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
<b>Chloromethane</b>	<b>0.16</b>	J	ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
2-Chlorotoluene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
4-Chlorotoluene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
1,2-Dibromo-3-chloropropane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
1,2-Dibromoethane (EDB)	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Dibromomethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
1,2-Dichlorobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
1,3-Dichlorobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
<b>1,4-Dichlorobenzene</b>	<b>0.56</b>		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Dichlorodifluoromethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
1,1-Dichloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
1,2-Dichloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
1,1-Dichloroethene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
cis-1,2-Dichloroethene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
trans-1,2-Dichloroethene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
1,2-Dichloropropane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
1,3-Dichloropropane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
2,2-Dichloropropane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
1,1-Dichloropropene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
cis-1,3-Dichloropropene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
trans-1,3-Dichloropropene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
<b>Ethylbenzene</b>	<b>0.10</b>	J	ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Hexachlorobutadiene	<0.050	B	ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
Isopropylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
p-Isopropyltoluene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2
<b>Methylene Chloride</b>	<b>0.40</b>	S2, J	ug/L	0.25	0.83	1	10/08/07 19:16	mae	7100281	EPA 524.2

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Analyte	Sample Result	Data Qualifiers	Units	MDL	LOQ	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method	
<b>Sample ID: WQJ0287-06 (PW-2 - Drinking Water) - cont.</b>							<b>Sampled: 10/03/07</b>				
Purgeable Organic Compounds by EPA Method 524.2 - cont.											
Methyl tert-Butyl Ether	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
<b>Naphthalene</b>	<b>1.4</b>		ug/L	0.25	0.83	1	10/08/07 19:16	mae	7100281	EPA 524.2	
n-Propylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
Styrene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
1,1,1,2-Tetrachloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
1,1,2,2-Tetrachloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
Tetrachloroethene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
<b>Toluene</b>	<b>0.88</b>		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
1,2,3-Trichlorobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
1,2,4-Trichlorobenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
<b>1,1,1-Trichloroethane</b>	<b>0.17</b>		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
1,1,2-Trichloroethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
Trichloroethene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
Trichlorofluoromethane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
1,2,3-Trichloropropane	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
<b>1,2,4-Trimethylbenzene</b>	<b>0.12</b>	J	ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
1,3,5-Trimethylbenzene	<0.050		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
Vinyl chloride	<0.016		ug/L	0.016	0.053	1	10/08/07 19:16	mae	7100281	EPA 524.2	
<b>Xylenes, Total</b>	<b>0.37</b>		ug/L	0.050	0.17	1	10/08/07 19:16	mae	7100281	EPA 524.2	
<i>Surr: 4-Bromofluorobenzene (76-116%)</i>	<i>99 %</i>										
<i>Surr: 1,2-Dichlorobenzene-d4 (80-119%)</i>	<i>98 %</i>										

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Received: 10/05/07  
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## CERTIFICATION SUMMARY

### TestAmerica - Watertown, WI

Method	Matrix	Nelac	Wisconsin
EPA 524.2	Water - NonPotable		
SW 8021	Water - NonPotable		

## DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Results reported between the Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
- S2** Compound is a common lab solvent and contaminant.

## ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

