State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster St.
P.O. Box 7921
Madison, WI 53707-7921

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

January 18, 2019

David & Lynn Werderits
S8849 Gruber's Grove Rd.
Prairie du Sac, WI 53578

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. and Mrs. Werderits

On November 20, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

Ethyl ether was detected at a concentration above the amount that can be detected (Level of Detection, LOD), but below the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

The ch. NR 140, Wis. Adm. Code Enforcement Standard (NR 140 ES) for ethyl ether is 1,000 ug/L. The ethyl ether (estimated) detection of 0.17 ug/L was below the NR 140 ES.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 116
Well Address: S8849 Gruber's Grove Road

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 116
Well Address: S8849 Gruber's Grove Road

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethyl ether	0.17	J	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/20/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0078	U	ug/L	0.0078	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/20/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0078	U	ug/L	0.0078	0.029	11/20/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 116
Well Address: S8849 Gruber's Grove Road

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

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January 18, 2019

Dr. Robert & Linda Block
1210 Sunset Circle
Prairie du Sac, WI 53578

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. and Mrs. Block:

On November 20, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property at S8853 Grubers Grove Rd. for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

Chloroform was detected at a concentration above the amount that can be detected (Level of Detection, LOD), but below the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

The ch. NR 140, Wis. Adm. Code Enforcement Standard (NR 140 ES) for chloroform is 6 ug/L. The chloroform (estimated) detection of 0.12 ug/L was below the NR 140 ES.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 117
Well Address: S8853 Gruber's Grove Road

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroform	0.12	J	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C

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November 2018

Well Code: 117
Well Address: S8853 Gruber's Grove Road

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/20/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0078	U	ug/L	0.0078	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/20/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0078	U	ug/L	0.0078	0.029	11/20/2018	12/3/2018	SW8270DSIM

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November 2018

Well Code: 117
Well Address: S8853 Gruber's Grove Road

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster St.
P.O. Box 7921
Madison, WI 53707-7921

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

VIA EMAIL

January 18, 2019

Aaron & Maria Andres
S8304A Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. and Mrs. Andres:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

Dichlorodifluoromethane was detected at a concentration of 0.24 micrograms per liter (ug/L). The ch. NR 140, Wis. Adm. Code Enforcement Standard (NR 140 ES) for dichlorodifluoromethane is 1,000 ug/L. The reported dichlorodifluoromethane concentration was below the NR 140 ES.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 130
Well Address: S8304A Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/25/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 130
Well Address: S8304A Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dichlorodifluoromethane	0.24	=	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/25/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/25/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.006	U	ug/L	0.006	0.03	11/19/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.008	U	ug/L	0.008	0.03	11/19/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.003	U	ug/L	0.003	0.03	11/19/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	11/19/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	11/19/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	11/19/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.008	U	ug/L	0.008	0.03	11/19/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 130
Well Address: S8304A Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

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VIA EMAIL

January 18, 2019

John & Kathy Ballweg
S8259 Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. and Mrs. Ballweg:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample (along with a duplicate sample) from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 131
Well Address: S8259 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 131
Well Address: S8259 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/21/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/21/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 131
Well Address: S8259 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/21/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/21/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/21/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/21/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 131
Well Address: S8259 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0078	U	ug/L	0.0078	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0077	U	ug/L	0.0077	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	11/29/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	11/29/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	11/29/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	11/29/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	11/29/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0077	U	ug/L	0.0077	0.029	11/19/2018	11/29/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0078	U	ug/L	0.0078	0.029	11/19/2018	11/29/2018	SW8270DSIM

Qualifier Definitions:

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 131
Well Address: S8259 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster St.
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Madison, WI 53707-7921

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

January 18, 2019

Jeff Bowers
S8308A Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. Bower:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 133
Well Address: S8308A Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 133
Well Address: S8308A Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0078	U	ug/L	0.0078	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0078	U	ug/L	0.0078	0.029	11/19/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 133
Well Address: S8308A Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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Toll Free 1-888-936-7463
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VIA EMAIL

January 18, 2019

Chris & Jessica Darling
S8282 Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. and Mrs. Darling:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 136
Well Address: S8282 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/25/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 136
Well Address: S8282 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/25/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/25/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0057	U	ug/L	0.0057	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0076	U	ug/L	0.0076	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0076	U	ug/L	0.0076	0.029	11/19/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 136
Well Address: S8282 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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Madison, WI 53707-7921

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

January 18, 2019

Marjory Hill
S8206 Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Ms. Hill:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 137
Well Address: S8206 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 137
Well Address: S8206 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.006	U	ug/L	0.006	0.03	11/19/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.008	U	ug/L	0.008	0.03	11/19/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.003	U	ug/L	0.003	0.03	11/19/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	11/19/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	11/19/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	11/19/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.008	U	ug/L	0.008	0.03	11/19/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 137
Well Address: S8206 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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Madison, WI 53707-7921

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TTY Access via relay - 711

January 18, 2019

Kerry & Deborah Johnson
S8300 Inspiration Drive
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. and Mrs. Johnson:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

Chloroform was detected at a concentration above the amount that can be detected (Level of Detection, LOD), but below the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

The ch. NR 140, Wis. Adm. Code Enforcement Standard (NR 140 ES) for chloroform is 6 ug/L. The chloroform (estimated) detection of 0.12 ug/L was below the NR 140 ES.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 139
Well Address: S8300 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/25/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chloroform	0.12	J	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 139
Well Address: S8300 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/25/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/25/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0077	U	ug/L	0.0077	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0077	U	ug/L	0.0077	0.029	11/19/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 139
Well Address: S8300 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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Madison, WI 53707-7921

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

January 18, 2019

Jenny & Jesse Brickl
S8204 Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. & Mrs. Brickl:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 140
Well Address: S8204 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 140
Well Address: S8204 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0078	U	ug/L	0.0078	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0078	U	ug/L	0.0078	0.029	11/19/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 140
Well Address: S8204 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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TTY Access via relay - 711

VIA EMAIL

January 18, 2019

John & Michelle Reynolds
S8269 Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. and Mrs. Reynolds:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 141
Well Address: S8269 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/25/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 141
Well Address: S8269 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/25/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/25/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/25/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/25/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0078	U	ug/L	0.0078	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	11/29/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	11/29/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	11/29/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0078	U	ug/L	0.0078	0.029	11/19/2018	11/29/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 141
Well Address: S8269 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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Preston D. Cole, Secretary
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Toll Free 1-888-936-7463
TTY Access via relay - 711

VIA EMAIL

January 18, 2019

Tim & Samantha Mohrbacher
S8237 Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. and Mrs. Mohrbacher:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 142
Well Address: S8237 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 142
Well Address: S8237 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0057	U	ug/L	0.0057	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0076	U	ug/L	0.0076	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0076	U	ug/L	0.0076	0.029	11/19/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 142
Well Address: S8237 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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VIA EMAIL

January 18, 2019

Richard & Julianne Avis
S8202 Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. and Mrs. Avis:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 145
Well Address: S8202 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 145
Well Address: S8202 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0077	U	ug/L	0.0077	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0077	U	ug/L	0.0077	0.029	11/19/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 145
Well Address: S8202 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster St.
P.O. Box 7921
Madison, WI 53707-7921

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

January 18, 2019

Tyler Halverson
E12509 Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. Halverson:

On November 20, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 148
Well Address: E12509 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 148
Well Address: E12509 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/20/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0077	U	ug/L	0.0077	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/20/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0077	U	ug/L	0.0077	0.029	11/20/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 148
Well Address: E12509 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster St.
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Madison, WI 53707-7921

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Preston D. Cole, Secretary
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Toll Free 1-888-936-7463
TTY Access via relay - 711

January 18, 2019

Lynn Wipperfurth
S8210 Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Ms. Wipperfurth:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 645
Well Address: S8210 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 645
Well Address: S8210 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0077	U	ug/L	0.0077	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0077	U	ug/L	0.0077	0.029	11/19/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 645
Well Address: S8210 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster St.
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Madison, WI 53707-7921

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

January 18, 2019

Maddie & Seth Nelson
S8194 Highway 78
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. & Mrs. Nelson:

On November 20, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 826
Well Address: S8194 Highway 78

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 826
Well Address: S8194 Highway 78

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/20/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0059	U	ug/L	0.0059	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0078	U	ug/L	0.0078	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/20/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0078	U	ug/L	0.0078	0.029	11/20/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 826
Well Address: S8194 Highway 78

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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TTY Access via relay - 711

VIA EMAIL

January 18, 2019

Kristie Hartje
E12513 Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Ms. Hartje

On November 20, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 901
Well Address: E12513 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 901
Well Address: E12513 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/20/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0057	U	ug/L	0.0057	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0076	U	ug/L	0.0076	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/20/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0076	U	ug/L	0.0076	0.029	11/20/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 901
Well Address: E12513 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster St.
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Preston D. Cole, Secretary
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January 18, 2019

Martin & Carol Ohlsen
E12550 Inspiration Dr.
Merrimac, WI 53561

Lisa Brinn
S8190 Woodland Ct.
Merrimac, WI 53561

Jill & Dennis Mahoney
E12546 Inspiration Dr.
Merrimac, WI 5356

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. & Mrs. Ohlsen and Mahoney and Ms. Brinn:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private water sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 903
Well Address: E12550 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 903
Well Address: E12550 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0078	U	ug/L	0.0078	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/19/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0078	U	ug/L	0.0078	0.029	11/19/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 903
Well Address: E12550 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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Toll Free 1-888-936-7463
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January 18, 2019

Cassandra Lytle
E12515 Spear Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Ms. Lytle:

On November 20, 2018, the Army's contractor, SpecPro Services, collected a water sample (and a duplicate sample) from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private water sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 915
Well Address: E12515 Spear Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 915
Well Address: E12515 Spear Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C

CT Laboratories, LLC
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Well Code: 915
Well Address: E12515 Spear Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/20/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/20/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C

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Well Code: 915
Well Address: E12515 Spear Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Styrene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0078	U	ug/L	0.0078	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0077	U	ug/L	0.0077	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/20/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0077	U	ug/L	0.0077	0.029	11/20/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0078	U	ug/L	0.0078	0.029	11/20/2018	12/3/2018	SW8270DSIM

Qualifier Definitions:

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
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Well Code: 915
Well Address: E12515 Spear Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster St.
P.O. Box 7921
Madison, WI 53707-7921

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

January 18, 2019

Richard & Patricia Sereg
S8217 Inspiration Dr.
Merrimac, WI 53561

Bob & Sheila Roemer
S8227 Inspiration Dr.
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. & Mrs. Sereg & Roemer:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private water sampling was conducted as a result of known VOC and DNT contamination in area wells.

No VOC or DNT compounds were detected at a concentration above the amount that can be detected (Level of Detection, LOD), or the amount that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 933
Well Address: S8217 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 933
Well Address: S8217 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0077	U	ug/L	0.0077	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0077	U	ug/L	0.0077	0.029	11/19/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 933
Well Address: S8217 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster St.
P.O. Box 7921
Madison, WI 53707-7921

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

January 18, 2019

Mark Wyshnytzky
c/o Cirque Groupe 2335 West
Chicago Ave.
Chicago, IL 60622

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. Wyshnytzky:

On November 19, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property at S8256 Inspiration Dr. for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

Dichlorodifluoromethane was detected at a concentration of 1.5 micrograms per liter (ug/L). The ch. NR 140, Wis. Adm. Code Enforcement Standard (NR 140 ES) for dichlorodifluoromethane is 1,000 ug/L. The reported dichlorodifluoromethane concentration was below the NR 140 ES.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 940
Well Address: S8256 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/21/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 940
Well Address: S8256 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dichlorodifluoromethane	1.5	=	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/19/2018	11/21/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/19/2018	11/21/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/19/2018	11/21/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/19/2018	11/21/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0077	U	ug/L	0.0077	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/19/2018	11/29/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	11/29/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	11/29/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/19/2018	11/29/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0077	U	ug/L	0.0077	0.029	11/19/2018	11/29/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 940
Well Address: S8256 Inspiration Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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Madison, WI 53707-7921

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Preston D. Cole, Secretary
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Toll Free 1-888-936-7463
TTY Access via relay - 711

January 18, 2019

Rob & Megan Meier
E12586A Spear Drive
Merrimac, WI 53561

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. and Mrs. Meier:

On November 20, December 5, and December 20, 2018, the Army's contractor, SpecPro Services, collected water samples from the well located on your property for analysis of volatile organic compounds (VOC) and/or dinitrotoluene (DNT) compounds. The laboratory reports for the water samples are enclosed. Private well sampling was conducted as a result of known DNT contamination in area wells.

VOCs were not detected but 2,4-DNT was detected at a concentration of 0.11 micrograms per liter (ug/L) in the water sample that was collected on November 20. The ch. NR 140, Wis. Adm. Code Enforcement Standard (NR 140 ES) for total DNT is 0.05 micrograms per liter (ug/L). The DNT detection of 0.11 ug/L exceeded the NR 140 ES.

As a result of the DNT exceedance on November 20, SpecPro Services collected additional samples (including duplicate samples during each event) for DNT analysis on December 5 and December 20. DNT was not detected in the subsequent samples at concentrations above the amounts that can be detected (Level of Detection, LOD), or the amounts that can be quantified or accurately measured (Level of Quantification, LOQ). The LOD and LOQ are listed after the parameter on the laboratory results. The Army suspects a laboratory error for the sample collected on November 20 but plans to re-sample your well several times during 2019 to re-affirm that DNT is not present in your groundwater.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 953
Well Address: E12586A Spear Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 953
Well Address: E12586A Spear Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/20/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	0.11	=	ug/L	0.0077	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	11/20/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/20/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	11/20/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	0.11	=	ug/L	0.0077	0.029	11/20/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 953
Well Address: E12586A Spear Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
December 2018

Well Code: 953
Well Address: E12586A Spear Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	12/5/2018	12/10/2018	SW8270DSIM
2,3-Dinitrotoluene	< 0.0058	U	ug/L	0.0058	0.029	12/5/2018	12/10/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0077	U	ug/L	0.0077	0.029	12/5/2018	12/10/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0078	U	ug/L	0.0078	0.029	12/5/2018	12/10/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	12/5/2018	12/10/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.0029	U	ug/L	0.0029	0.029	12/5/2018	12/10/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	12/5/2018	12/10/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	12/5/2018	12/10/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	12/5/2018	12/10/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	12/5/2018	12/10/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0038	U	ug/L	0.0038	0.029	12/5/2018	12/10/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.0039	U	ug/L	0.0039	0.029	12/5/2018	12/10/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0077	U	ug/L	0.0077	0.029	12/5/2018	12/10/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0078	U	ug/L	0.0078	0.029	12/5/2018	12/10/2018	SW8270DSIM

Qualifier Definitions:

= Parameter was detected at the indicated concentration.

J Parameter was detected above the reported level of detection but below the level of quantitation.

U Parameter was not detected above the reported level of detection.

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
December 2018

Well Code: 953
Well Address: E12586A Spear Drive

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.0061	U	ug/L	0.0061	0.03	12/20/2018	12/26/2018	SW8270DSIM
2,3-Dinitrotoluene	< 0.0061	U	ug/L	0.0061	0.03	12/20/2018	12/26/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0081	U	ug/L	0.0081	0.03	12/20/2018	12/26/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.0081	U	ug/L	0.0081	0.03	12/20/2018	12/26/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.003	U	ug/L	0.003	0.03	12/20/2018	12/26/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.003	U	ug/L	0.003	0.03	12/20/2018	12/26/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	12/20/2018	12/26/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	12/20/2018	12/26/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	12/20/2018	12/26/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	12/20/2018	12/26/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	12/20/2018	12/26/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	12/20/2018	12/26/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0081	U	ug/L	0.0081	0.03	12/20/2018	12/26/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.0081	U	ug/L	0.0081	0.03	12/20/2018	12/26/2018	SW8270DSIM

Qualifier Definitions:

= Parameter was detected at the indicated concentration.

J Parameter was detected above the reported level of detection but below the level of quantitation.

U Parameter was not detected above the reported level of detection.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster St.
P.O. Box 7921
Madison, WI 53707-7921

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

January 18, 2019

Terry & Laura Hanson
S8897 Keller Rd.
Prairie du Sac, WI 53578

Subject: Badger Army Ammunition Plant
Private Well Sampling Results

Dear Mr. and Mrs. Hanson:

On November 20, 2018, the Army's contractor, SpecPro Services, collected a water sample from the well located on your property for analysis of volatile organic compounds (VOC) and dinitrotoluene (DNT) compounds. The laboratory report for the water sample is enclosed. Private well sampling was conducted as a result of known VOC and DNT contamination in area wells.

Ethyl ether was detected at a concentration of 0.3 micrograms per liter (ug/L). The ch. NR 140, Wis. Adm. Code Enforcement Standard (NR 140 ES) for ethyl ether is 1,000 ug/L. The reported ethyl ether concentration was below the NR 140 ES.

If you have any questions, please contact me at (608) 267-7570, or by email at jason.lowery@wisconsin.gov. Your cooperation and assistance in this matter is greatly appreciated.

Sincerely,

Jason B. Lowery
Hydrogeologist

cc: Jared Niewoehner, WDNR (email)

Attachment: Laboratory Data

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 963
Well Address: S8897 Keller Road

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,1-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2,2-Tetrachloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1,2-Trichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,1-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,3-Trichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2,4-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromo-3-chloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dibromoethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3,5-Trimethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,3-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
1,4-Dichlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2,2-Dichloropropane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Butanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
2-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
2-Hexanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
4-Chlorotoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
4-Methyl-2-pentanone	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Benzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromodichloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromoform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Bromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Carbon disulfide	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Carbon tetrachloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chlorobenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloroform	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Chloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 963
Well Address: S8897 Keller Road

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method
cis-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
cis-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromochloromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dibromomethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorodifluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Diisopropyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethyl ether	3	=	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Ethylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Hexachlorobutadiene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Isopropylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
m & p-Xylene	< 0.2	U	ug/L	0.2	0.4	11/20/2018	11/26/2018	SW8260C
Methyl tert-butyl ether	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Methylene chloride	< 0.2	U	ug/L	0.2	1	11/20/2018	11/26/2018	SW8260C
Naphthalene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
n-Propylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
o-Xylene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
p-Isopropyltoluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
sec-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Styrene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
tert-Butylbenzene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrachloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Tetrahydrofuran	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Toluene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,2-Dichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
trans-1,3-Dichloropropene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichloroethene	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Trichlorofluoromethane	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Vinyl acetate	< 1	U	ug/L	1	2	11/20/2018	11/26/2018	SW8260C
Vinyl chloride	< 0.1	U	ug/L	0.1	0.2	11/20/2018	11/26/2018	SW8260C
Dinitrotoluenes SIM								
2,3-Dinitrotoluene	< 0.006	U	ug/L	0.006	0.03	11/20/2018	12/3/2018	SW8270DSIM
2,4-Dinitrotoluene	< 0.008	U	ug/L	0.008	0.03	11/20/2018	12/3/2018	SW8270DSIM
2,5-Dinitrotoluene	< 0.003	U	ug/L	0.003	0.03	11/20/2018	12/3/2018	SW8270DSIM
2,6-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	11/20/2018	12/3/2018	SW8270DSIM
3,4-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	11/20/2018	12/3/2018	SW8270DSIM
3,5-Dinitrotoluene	< 0.004	U	ug/L	0.004	0.03	11/20/2018	12/3/2018	SW8270DSIM
Total Dinitrotoluenes	< 0.008	U	ug/L	0.008	0.03	11/20/2018	12/3/2018	SW8270DSIM

CT Laboratories, LLC
Badger Army Ammunition Plant
Laboratory Results
November 2018

Well Code: 963
Well Address: S8897 Keller Road

Parameter	Result	Qualifier	Unit	LOD	LOQ	Date Collected	Date Analyzed	Method

Qualifier Definitions:

=	Parameter was detected at the indicated concentration.
J	Parameter was detected above the reported level of detection but below the level of quantitation.
U	Parameter was not detected above the reported level of detection.