

## **DEPARTMENT OF THE ARMY**

# US ARMY INSTALLATION MANAGEMENT COMMAND US ARMY ENVIRONMENTAL COMMAND 2455 REYNOLDS ROAD JOINT BASE SAN ANTONIO FORT SAM HOUSTON, TX 78234-7588

AMIM-AEC-M (1200C)

September 13, 2022

SUBJECT: Submittal of August 2022 Annual Residential Well Testing Results

WDNR BRRTS #02-57-001002 Badger Army Ammunition Plant

Mr. Luke Lampo Wisconsin Department of Natural Resources South Central Region 3911 Fish Hatchery Road Fitchburg, WI 53711-5397

Dear Mr. Lampo:

Enclosed are the Badger Army Ammunition Plant (BAAP) August 2022 Annual Residential Well Testing Results from 55 residential wells. Enclosed are copies of the signed Environmental Monitoring Data Certification Form, a list of wells sampled, three maps showing the well locations, and a residential well results summary spreadsheet. Per previous discussions, the Army understands that the WDNR will be mailing the results to each well owner.

SpecPro Professional Services, LLC (SPS) collected groundwater samples from 55 residential wells on August 8, 9, 10, and 11, 2022. As shown on Figures 1, 2, and 3, the 55 sampled residential wells are distributed to the east and south of BAAP. The Central Plume, Deterrent Burning Ground (DBG) Plume and Propellant Burning Ground (PBG) Plume are located near the residential wells (see Figure 1). The residential wells were sampled in accordance with the annual sampling WDNR Plan Modification of the Groundwater Monitoring Program dated September 4, 2013. The Hendershot and Peckosh residential wells could not be sampled due to their power being off. The Schluter, former Howery, residential well could not be sampled due to their well pump being disconnected.

# Sampling Results

2,6-Dinitrotoluene (DNT) and total DNT were detected above the NR 140
Preventive Action Limit (PAL) but below the NR 140 Enforcement Standard (ES)
in residential well WE-XK342 located in the Central Plume (see Figure 3). The
NR 140 PAL for 2,6-DNT and total DNT is 0.005 micrograms per liter (μg/l). The
NR 140 ES for 2,6-DNT and total DNT is 0.05 μg/l. WE-XK342 has a history of
2,6-DNT detections above the NR 140 PAL. Residential well WE-XK342 will
continue to be sampled quarterly.

AMIM-AEC-M

SUBJECT: August 2022 Annual Residential Well Testing Results Badger Army Ammunition Plant

- Carbon tetrachloride (CTET) was detected above the NR 140 PAL but below the NR 140 ES in one residential well (Apel) located on the eastern side of the PBG Plume (see Figure 1).
- Chloroform was detected above the NR 140 PAL but below the NR 140 ES in three residential wells (WE-QN039, WE-SQ001, and WE-SQ017) located in or adjacent to the Central Plume (see Figure 3).
- Trichloroethene (TCE) was detected above the NR 140 PAL but below the NR 140 ES in one residential well (Potts) located by Weigand's Bay (see Figure 2). There has been no source of TCE identified at BAAP that is upgradient of the Weigand's Bay area. The source of the TCE appears to be in the shallow well jet pumps.

# **Quality Review**

SPS conducted an internal quality control review of the groundwater data. The internal review did not find any issues with the groundwater data. All groundwater samples were analyzed by CT Laboratories, LLC (CT Lab) in Baraboo, Wisconsin. CT Lab is a WDNR Chapter NR 149 certified laboratory and accredited by the Department of Defense Environmental Laboratory Accreditation Program (DoD ELAP).

Please do not hesitate to contact me at 210-466-1353 if you have any questions.

Sincerely,

NGUYEN.QUA Digitally signed by NGUNEN.QUANG.D.151 NG.D.1513629 3629334 Date: 2022.09.13 15:04:14 -05'00'

Quang Nguyen Team Lead, Midwest and Central America Division

Enclosures

Copy furn: Joel Janssen, SpecPro Professional Services, LLC

# State of Wisconsin Department of Natural Resources

# **Environmental Monitoring Data Certification**

Form 4400-231(R 1/04)

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

### Instructions:

- · Prepare one form for each license or monitoring ID.
- · Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to: GEMS Data Submittal Contact WA/5

GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

	Madison WI 53707-7921
Monitoring Data Submittal Information	[ - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Name of entity submitting data (laboratory, consultant, facility ow	/ner):
SpecPro Professional Services - Badger	Army Ammunition Plant
Contact for questions about data formatting. Include data prepa Name: Joel Janssen	arer's name, telephone number and E-mail address: Phone: (608) 438-1110
E-mail: Joel.Janssen@SpecProSvcs.com	e ( t
Facility name: License # / Mor	nitoring ID Facility ID [ FID ] Actual sampling dates (e.g., July 2-6, 2003)
BAAP - Off-Site Residential 03497 Wells	157005530 8/8 - 8/11/22
The enclosed results are for sampling required in the month(s) or August 2022	f: (e.g., June 2003)
Type of Data Submitted (Check all that apply)	
Groundwater monitoring data from monitoring wells Groundwater monitoring data from private water supply well Leachate monitoring data	Gas monitoring data Air monitoring data Other (specify)
Notification attached?	
No. No groundwater standards or explosive gas limits were	e exceeded.
	dard is attached. It includes a list of monitoring points, dates, sample values,
Yes, a notification of values exceeding an explosive gas lime explosive gas limits.	nit is attached. It includes the monitoring points, dates, sample values and
Certification	
are true and correct. Furthermore, I have attached co groundwater standards or explosive gas levels, and a concentrations exceeding groundwater standards.	ed and statements made on this data submittal and attachments omplete notification of any sampling values meeting or exceeding a preliminary analysis of the cause and significance of  Manager (608) 438-1110
Facility Representative Name (Print) Title	
and Jansta	9/13/22
Signature	Date
FOR DNR USE ONLY. Check action taken, and re	ecord date and your initials. Describe on back side if necessary.
Found uploading problems on	- 1
	Uploaded data successfully on
	and follow-up) E-mail (follow-up only) Other

# Case Narrative Groundwater Monitoring License Number 3497 Off-Site Residential Wells August 2022 Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Fifty-five residential wells were sampled during August 2022.

2,6-Dinitrotoluene (DNT) and total DNT exceeded the NR 140 Preventive Action Limit (PAL) in WE-XK342 (435). Well WE-XK342 has a history of 2,6-DNT detections.

Carbon tetrachloride exceeded the NR 140 PAL in Apel (998).

Chloroform exceeded the NR 140 PAL in WE-QN039 (158), WE-SQ017 (164), and WE-SQ001 (165).

Trichloroethene exceeded the NR 140 PAL in Potts (411).

Volatile organic compounds (VOCs) analysis was performed by CT Laboratories (CT Lab) using method EPA 8260C.

DNT analysis was also performed by CT Lab using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

# **Badger Army Ammunition Plant**

SpecPro Professional Services, LLC

## GROUNDWATER MONITORING EXCEEDANCE REPORT

August 2022 Report Date: 9/10/2022

Parameter Name	Lic No.	Well No.	Well Name	Date	Dup	Result	Units	PAL	ES
Chloroform	3497	158	WE-QN039	8/8/2022	1	0.65	ug/l	0.6	6
Chloroform	3497	164	WE-SQ017	8/8/2022	1	1	ug/l	0.6	6
Chloroform	3497	165	WE-SQ001	8/8/2022	1	1.4	ug/l	0.6	6
Trichloroethene	3497	411	Potts	8/9/2022	1	0.89	ug/l	0.5	5
2,6-Dinitrotoluene	3497	435	WE-XK342	8/8/2022	1	0.031	ug/l	0.005	0.05
2,6-Dinitrotoluene	3497	435	WE-XK342	8/8/2022	2	0.028	ug/l	0.005	0.05
Total Dinitrotoluenes	3497	435	WE-XK342	8/8/2022	1	0.031	ug/l	0.005	0.05
Total Dinitrotoluenes	3497	435	WE-XK342	8/8/2022	2	0.028	ug/l	0.005	0.05
Carbon tetrachloride	3497	998	Apel	8/10/2022	1	0.55	ug/l	0.5	5

# **Badger Army Ammunition Plant**

SpecPro Professional Services, LLC

August 2022 GROUNDWATER MONITORING ALL HITS REPORT

License No: 3497 Report Date: 9/10/2022

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Ethyl ether	152	McGraw	8/10/2022	1	0.15	0.1	0.2	ug/l	100	1000
Chloroform	157	WE-QR441	8/8/2022	1	0.23	0.1	0.2	ug/l	0.6	6
Chloroform	158	WE-QN039	8/8/2022	1	0.65	0.1	0.2	ug/l	0.6	6
Carbon tetrachloride	164	WE-SQ017	8/8/2022	1	0.1	0.1	0.2	ug/l	0.5	5
Chloroform	164	WE-SQ017	8/8/2022	1	1	0.1	0.2	ug/l	0.6	6
Carbon tetrachloride	165	WE-SQ001	8/8/2022	1	0.12	0.1	0.2	ug/l	0.5	5
Chloroform	165	WE-SQ001	8/8/2022	1	1.4	0.1	0.2	ug/l	0.6	6
Trichloroethene	411	Potts	8/9/2022	1	0.89	0.1	0.2	ug/l	0.5	5
Dichlorodifluoromethane	412	Curto	8/9/2022	1	0.33	0.1	0.2	ug/l	200	1000
Trichloroethene	414	Wenger	8/10/2022	1	0.22	0.1	0.2	ug/l	0.5	5
2,6-Dinitrotoluene	435	WE-XK342	8/8/2022	2	0.028	0.0049	0.049	ug/l	0.005	0.05
2,6-Dinitrotoluene	435	WE-XK342	8/8/2022	1	0.031	0.005	0.05	ug/l	0.005	0.05
Chloroform	435	WE-XK342	8/8/2022	2	0.14	0.1	0.2	ug/l	0.6	6
Chloroform	435	WE-XK342	8/8/2022	1	0.13	0.1	0.2	ug/l	0.6	6
Total Dinitrotoluenes	435	WE-XK342	8/8/2022	1	0.031	0.008	0.05	ug/l	0.005	0.05
Total Dinitrotoluenes	435	WE-XK342	8/8/2022	2	0.028	0.0078	0.049	ug/l	0.005	0.05
Chloroform	799	WE-AAB891	8/8/2022	1	0.11	0.1	0.2	ug/l	0.6	6
1,1,2-Trichloroethane	803	Spear	8/10/2022	1	0.22	0.2	0.4	ug/l	0.5	5
Dichlorodifluoromethane	803	Spear	8/10/2022	1	0.2	0.1	0.2	ug/l	200	1000
Ethyl ether	840	S8871	8/10/2022	1	0.21	0.1	0.2	ug/l	100	1000
Methyl tert-butyl ether	860	Phillips	8/9/2022	1	0.85	0.1	0.2	ug/l	12	60
1,1,1-Trichloroethane	875	Krumenauer	8/10/2022	1	0.26	0.1	0.2	ug/l	40	200
Carbon tetrachloride	875	Krumenauer	8/10/2022	1	0.44	0.1	0.2	ug/l	0.5	5
Chloroform	875	Krumenauer	8/10/2022	1	0.18	0.1	0.2	ug/l	0.6	6
Dichlorodifluoromethane	916	Purcell-G	8/11/2022	1	0.18	0.1	0.2	ug/l	200	1000
Dichlorodifluoromethane	916	Purcell-G	8/11/2022	2	0.2	0.1	0.2	ug/l	200	1000
Carbon tetrachloride	931	Schlender	8/10/2022	1	0.47	0.1	0.2	ug/l	0.5	5
Chloroform	931	Schlender	8/10/2022	1	0.23	0.1	0.2	ug/l	0.6	6
1,1,1-Trichloroethane	998	Apel	8/10/2022	2	0.29	0.1	0.2	ug/l	40	200
1,1,1-Trichloroethane	998	Apel	8/10/2022	1	0.33	0.1	0.2	ug/l	40	200
Carbon tetrachloride	998	Apel	8/10/2022	1	0.55	0.1	0.2	ug/l	0.5	5
Carbon tetrachloride	998	Apel	8/10/2022	2	0.49	0.1	0.2	ug/l	0.5	5
Chloroform	998	Apel	8/10/2022	2	0.17	0.1	0.2	ug/l	0.6	6
Chloroform	998	Apel	8/10/2022	1	0.17	0.1	0.2	ug/l	0.6	6

# Residential Well Sampling List August 2022

Well Name	Well ID	Results	DNT Sampled	VOC Sampled	Comments
USDA 3	126	Х	Х		
USDA 6	128	Х	Х		
WE-TM599	129	Х	Х		Riordan, Water's Edge Group
McGraw	152	Х	Х	Х	
WE-RM383	153	Х	Х		Freidag, Rossing, Water's Edge Group
WE-RR542	156	Х	Х		Cairns, Sherpe, Water's Edge Group
WE-QR441	157	Х	Х	Х	May, Heath, Hemberger, Water's Edge Group
WE-QN039	158	Х	Х	Х	Layton, Hilgemann, Water's Edge Group
WE-RD430	159	Х	Х		Schmidt, Zimmerman, Ford, Water's Edge Group
Purcell-D	163	Х	Х	Х	
WE-SQ017	164	Х	Х	Х	Thompson, Water's Edge Group
WE-SQ001	165	Х	Х	Х	Schwarz, Rosenau, Water's Edge Group
WE-RR598	169	Х	Х		Chow, Gruber, Deppey, Wenger, Water's Edge Group
WE-SQ002	170	Х	Х		Ramaker, Neumaier, Water's Edge Group
WE-TF023	174	Х	Х		Minor, Water's Edge Group
Potts	411	Х	Х	Х	<u> </u>
Curto	412	Х	Х	Х	shared with Nimmow
Wenger	414	Х	Х	Х	
Grosse	415	Х	Х	Х	
Gruber-D	417	Х	Х	Х	
Hendershot	418				power was off; no sample collected
Schluter	419				pump disconnected; no sample collected
Osterland	422	Х	Х	Х	
Melum	423	Х	Х	Х	
Fellin	424	Х	Х	Х	former Raschein well
Revers	425	Х	Х	Х	
Cornelius	426	Х	Х	Х	duplicate
Reif	427	Х	Х	Х	
Schumann	428	Х	Х	Х	
WE-UK125	431	Х	Х		Gust, Haag, Lochner, Water's Edge Group
WE-UA297	433	Х	Х		Krisko, Van Aartsen, Water's Edge Group
WE-XD828	434	X	Х		Riethmiller, Water's Edge Group
WE-XK342	435	Х	Х	Х	<b>duplicate</b> Hallman, Keiser, Water's Edge Group
WE-YW972	436	Х	Х		Dietzen/Schwenn, Water's Edge Group
WE-ZE512	437	Х	Х	Х	Whalen, Water's Edge Group
WE-AAB891	799	Х	Х	Х	Connery, Palchik, Water's Edge Group
Mittenzwei	800	Х	Х	Х	·
Spear	803	Х	Х	Х	
Peckosh	817				power was off; no sample collected
USDA 1	828	Х	Х		
USDA 2	829	Х	Х		
WE-AAF735	837	Х	Х	Х	MacKinney, Water's Edge Group
E12092	838	Х	Х	Х	Cross
Gibbs	839	Х	Х	Х	
S8871	840	Х	Х	Х	Hanson
Groth	842	Х	Х	Х	
Phillips	860	Х	Х	Х	
Vanover	862	Х	Х	Х	former Judd well
Miller	874	Х	X	Х	shared with Holl
Krumenauer	875	Х	Х	Х	
Nowotarski	891	Х	Х	Х	
Olah	904	Х	Х	Х	
PDS-3	911	Х	Х	Х	
Purcell-G	916	Х	Х	Х	Lytle
Ramaker-J	917	Х	Х	Х	
Schlender	931	Х	Х	Х	shared with Koenig, Ballweg
Zurbachen-A	967	Х	Х	Х	
Apel	998	Х	Х	Х	

										All resu	Its are e	express	ed as μ	g/l (micr	ograms	per litei	)			
August '22 Round Level of Detec 2.3-DNT 0.0058 2.4-DNT 0.0078 2.5-DNT 0.0048 3.4-DNT 0.0048 3.4-DNT 0.0048 "Level of detection and level of quan		of Quantitation 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.048 each round.	= Under PAL and ES = Over Preventive Ac = Over Enforcement = No PAL or ES esta = Not Tested ND = Compound was no	ction Limit (P. Standard (ES blished t detected	S) Sample	Carbon tetrachloride	Chloroform	Dichlorodifluoromethane	Ethyl ether	Methyl tert-butyl ether	1,1,1-Trichloroethane	1,2-Trichloroethane	Trichloroethene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2,3-Dinitrotoluene	3,4-Dinitrotoluene	2,5-Dinitrotoluene	5-Dinitrotoluene	Dinitrotoluene, Total
Well Name	Well No.	Well Owner	Shared With	Analyzed By	<u>Date</u>	င်ဒ	ฉั	۵	Щ	ğ	1,'	1,1	Ļ	2,4	2,(	2,3	3,6	2,4	3,6	Ö
McGraw	152	McGraw		CT Lab	8/10/2022	ND	ND	ND	0.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Purcell-D	163	Purcell	(Army installed new well - 2019)	CT Lab	8/10/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potts	411	Potts		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	0.89	ND	ND	ND	ND	ND	ND	ND
Curto	412	Curto		CT Lab	8/9/2022	ND	ND	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wenger	414	Wenger		CT Lab	8/10/2022	ND	ND	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND
Grosse	415	Grosse		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gruber-D	417	Gruber		CT Lab	8/10/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hendershot	418	Hendershot		CT Lab	8/10/2022						Power	r was of	f; samp	le not co	ollected					
Schluter	419	Schluter	(formerly Howery)	CT Lab	8/10/2022					ı	Pump n	ot work	ing; san	nple not	collecte	d				
Osterland	422	Osterland		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Melum	423	Melum		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fellin	424	Fellin	(formerly Raschein)	CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Revers	425	Revers		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cornelius	426	Cornelius		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Reif	427	Reif		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Schumann	428	Schumann		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				CT Lab (D)	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mittenzwei	800	Mittenzwei		CT Lab	8/10/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Spear	803	Spear		CT Lab	8/10/2022	ND	ND	0.2	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND
Peckosh	817	Peckosh		CT Lab	8/9/2022						Power	r was of	f; samp	le not co	ollected					
E12092	838	Cross		CT Lab	8/10/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gibbs	839	Gibbs		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S8871	840	Hanson		CT Lab	8/10/2022	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Groth	842	Groth		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phillips	860	Phillips	(new well installed - 2021)	CT Lab	8/10/2022	ND	ND	ND	ND	0.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanover	862	Vanover	(formerly Judd)	CT Lab	8/10/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Miller	874	Miller	Holl	CT Lab	8/10/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Krumenauer	875	Krumenauer		CT Lab	8/10/2022	0.44	0.18	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nowotarski	891	Nowotarski		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Olah	904	Olah		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PDS-3	911	Prairie du Sac Utilities		CT Lab	8/11/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Purcell-G	916	Lytle		CT Lab	8/11/2022	ND	ND	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				CT Lab (D)	8/11/2022	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ramaker-J	917	Ramaker		CT Lab	8/10/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Schlender	931	Schlender	Koenig, Ballweg	CT Lab	8/10/2022	0.47	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zurbachen-A	967	Zurbachen		CT Lab	8/9/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apel	998	Apel		CT Lab	8/10/2022	0.55	0.17	ND	ND	ND	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND
				CT Lab (D)	8/10/2022	0.49	0.17	ND	ND	ND	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND
WE-TM599	129	Water's Edge Group	Riordan	CT Lab	8/8/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WE-RM383	153	Water's Edge Group	Freidag, Rossing	CT Lab	8/8/2022						_			ND	ND	ND	ND	ND	ND	ND
				1															ت	

## Residential Groundwater Test Results - August 2022 Sampling Event

						All results are expressed as µg/l (micrograms per liter)														
August*22 Round Level of Detection 0.0058 0.048 2.4-DNT 0.0058 0.049 2.5-DNT 0.0078 0.048 2.5-DNT 0.0048 0.048 2.6-DNT 0.0048 0.048 3.4-DNT 0.0048 0.048 3.5-DNT 0.0048 0.048 3.5-DNT 0.0048 0.048 3.5-DNT 0.0048 0.048 4.5-DNT 0.0048 0.048 4.5		0.048 0.049 0.048 0.048 0.048 0.048 each round.	= Under PAL and ES = Over Preventive Action Limit (PAL) = Over Enforcement Standard (ES) = No PAL or ES established = Not Tested ND = Compound was not detected  Shared With Analyzed By Date			Carbon tetrachloride	Chloroform	Dichlorodifluoromethane	Ethyl ether	Methyl tert-butyl ether	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2,3-Dinitrotoluene	3,4-Dinitrotoluene	2,5-Dinitrotoluene	3,5-Dinitrotoluene	Dinitrotoluene, Total
WE-RR542	156	Water's Edge Group	Cairns, Sherpe	CT Lab	8/8/2022									ND						
WE-QR441	157	Water's Edge Group	Hemberger, May, Heath	CT Lab	8/8/2022	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WE-QN039	158	Water's Edge Group	Hilgemann, Layton	CT Lab	8/8/2022	ND	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WE-RD430	159	Water's Edge Group	Ford, Zimmerman, Schmidt	CT Lab	8/8/2022									ND						
WE-SQ017	164	Water's Edge Group	Thompson	CT Lab	8/8/2022	0.1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WE-SQ001	165	Water's Edge Group	Rosenau, Schwarz	CT Lab	8/8/2022	0.12	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WE-RR598	169	Water's Edge Group	Deppey, Chow, Gruber, Wenger	CT Lab	8/8/2022									ND						
WE-SQ002	170	Water's Edge Group	Neumaier, Ramaker	CT Lab	8/8/2022									ND						
WE-TF023	174	Water's Edge Group	Minor	CT Lab	8/8/2022									ND						
WE-UK125	431	Water's Edge Group	Gust, Haag, Lochner	CT Lab	8/8/2022									ND						
WE-UA297	433	Water's Edge Group	Krisko, Van Aartsen	CT Lab	8/8/2022									ND						
WE-XD828	434	Water's Edge Group	Riethmiller	CT Lab	8/8/2022									ND						
WE-XK342	435	Water's Edge Group	Hallman, Keiser	CT Lab	8/8/2022	ND	0.13	ND	ND	ND	ND	ND	ND	ND	0.031	ND	ND	ND	ND	0.031
				CT Lab (D)	8/8/2022	ND	0.14	ND	ND	ND	ND	ND	ND	ND	0.028	ND	ND	ND	ND	0.028
WE-YW972	436	Water's Edge Group	Dietzen/Schwenn	CT Lab	8/8/2022									ND						
WE-ZE512	437	Water's Edge Group	Whalen (Army installed new well - 2018)	CT Lab	8/8/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WE-AAB891	799	Water's Edge Group	Connery, Palchik	CT Lab	8/8/2022	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WE-AAF735	837	Water's Edge Group	MacKinney	CT Lab	8/8/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
USDA 1	828	Dairy Forage Res Center		CT Lab	8/11/2022									ND						
USDA 2	829	Dairy Forage Res Center		CT Lab	8/11/2022									ND						
USDA 3	126	Dairy Forage Res Center		CT Lab	8/11/2022									ND						
USDA 6	128	Dairy Forage Res Center		CT Lab	8/11/2022									ND						

(D) = Duplicate CT Lab = CT Laboratories, LLC





