

# **COSTS?**

**Single Public Water Supply (PWS)**

**vs.**

**Multiple Private Wells**

**Examples of PWS financial viability:**

- **Woodhaven – 24 units, senior rentals, reasonable rents**
- **The Fields at Sherborn - another 32-unit 40B**
- **Leland Farms – over 50% of the units are affordable**

## **Well Installation Costs**

**Large well example: Laurel Field wells – each approx. \$26,000**

**A= 8” diameter, 593 feet deep**

**B= 8” diameter, 613 feet deep**

**Single-family residential well, recent estimate:**

**6” diameter, 350 feet deep -- \$20,000**

# **Other Costs for Public Water Supplies**

## **Water Supply Operators**

- Very small systems (VSS) serve a population of 500 or less.
- At a minimum, contract operators shall conduct monthly on-site inspections, unless specifically exempted in writing by MassDEP.
- MassDEP estimates that a minimum of 6-hours of documented on-site operation per year and a minimum of 12 hours of documented total operation per year are necessary to perform the typical contract operator duties.

**Testing** - according to a schedule established by MassDEP

**Initial Permitting** (current estimate \$3,000 to \$15,000 but getting clarification)

**Annual Reporting** (via an on-line system)

# Using Multiple Wells to Supply a Public Water Supply

**A collection of wells providing water to a PWS need not all feed into the supply at the same time. MassDEP is looking for at least 3 wells to be operating at any one time. Additional wells can serve to meet the requirements below.**

**310 CMR 22.21(3)(a): Any person who obtains Department approval for a community public water system that relies entirely upon groundwater sources shall provide additional wells, wellfield, or springs and pumping equipment, or the equivalent, capable of producing the same volumes and quality of water as the system's primary well, wellfield, or spring at all times, or shall provide the *storage capacity equivalent to the demand of at least two average days* if approved by the Department, unless an interconnection with another public water system has been provided which can adequately provide the quantity and quality of water needed.**

why  
finished  
versus raw  
sampling is  
important

April 27, 2023		Required Water Quality Sampling Schedule Frequency For				2023		To		2025		Page 1 of 2					
PWS ID		3269002		PWS Name		WOODHAVEN ELDER HOUSING COMMITTEE				Town:		SHERBORN		Class:		COM	

<b>BACTERIA SAMPLING</b>		Apr - Sep: 1		per		MONTH		Season Start Date:		01/01		Refer to your DEP Coliform Sampling Plan for approved coliform sample locations. Systems open before or beyond the start/end dates must collect samples during these extra months.					
		Oct - Mar: 1		per		MONTH		Season End Date:		12/31							

Loc ID #		SAMPLE LOCATION		MULT/SIN		R/F		D/S		WAIVER		2023				2024				2025							
										Y / N		QTR1		QTR2		QTR3		QTR4		QTR1		QTR2		QTR3		QTR4	

<b>GROSS ALPHA PARTICLE ACTIVITY</b>																							
10003		TREATED WATER - WELLS #1,2,3		M		F		S				[Next Sampling due in 2029]											
3269002-01G		WELL 1																					
3269002-02G		WELL 2																					
3269002-03G		WELL 3																					

<b>INORGANICS</b>																							
10003		TREATED WATER - WELLS #1,2,3		M		F		S		N		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
3269002-01G		WELL 1																					
3269002-02G		WELL 2																					
3269002-03G		WELL 3																					

<b>LEAD AND COPPER RULE</b>																							
5 APPROVED TAPS				S		F		D				<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>			

<b>MANGANESE</b>																							
10003		TREATED WATER - WELLS #1,2,3		M		F		S				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
3269002-01G		WELL 1																					
3269002-02G		WELL 2																					
3269002-03G		WELL 3																					

<b>NITRATE</b>																							
10003		TREATED WATER - WELLS #1,2,3		M		F		S		N		<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
3269002-01G		WELL 1																					
3269002-02G		WELL 2																					
3269002-03G		WELL 3																					

<b>NITRITE</b>																							
10003		TREATED WATER - WELLS #1,2,3		M		F		S		N		<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
3269002-01G		WELL 1																					
3269002-02G		WELL 2																					
3269002-03G		WELL 3																					

<b>PER- AND POLYFLUOROALKYL SUBSTANCES</b>																							
10003		TREATED WATER - WELLS #1,2,3		M		F		S				<input type="checkbox"/> JAN <input type="checkbox"/> APR <input type="checkbox"/> JUL <input type="checkbox"/> OCT				<input type="checkbox"/> JAN <input type="checkbox"/> APR <input type="checkbox"/> JUL <input type="checkbox"/> OCT				<input type="checkbox"/> JAN <input type="checkbox"/> APR <input type="checkbox"/> JUL <input type="checkbox"/> OCT			
3269002-01G		WELL 1																					
3269002-02G		WELL 2																					
3269002-03G		WELL 3																					
RW-03G		WELL #4 - RAW WATER (AKA WELL #3)		S		R		S				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OCT				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
3269002-03G		WELL 3																					

R/F = RAW OR FINISHED WATER; D/S = DISTRIBUTION OR SOURCE SAMPLE Waiver: (Y)es, or (N)o MULT/SIN: (MULT)iple sources or a (SIN)gle source

This monitoring schedule is based on the system's current inventory and is subject to change. Water systems are responsible for promptly reporting schedule errors or omissions. Errors or omissions on monitoring schedules do not prohibit the MassDEP from enforcing monitoring requirements set forth by the Regulations.

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Class: **COM**

Refer to your DEP Coliform Sampling Plan for approved coliform sample locations. Systems open before or beyond the start/end dates must collect samples during these extra months.

**PERCHLORATE**

### RADIUM 226 & RADIUM 228

## SECONDARY CONTAMINANTS

## SYNTHETIC ORGANIC COMPOUNDS

## VOLATILE ORGANIC COMPOUNDS

[illegible]

October 05, 2023

Required Water Quality Sampling Schedule Frequency For **2023** To **2025**

Page 1 of 2

PWS ID **3269032**PWS Name **FIELDS AT SHERBORN CONDO TRUST**Town: **SHERBORN**Class: **COM****BACTERIA SAMPLING**Apr - Sep: 1 per MONTH  
Oct - Mar 1 per MONTHSeason Start Date: 01/01  
Season End Date: 12/31

Refer to your DEP Coliform Sampling Plan for approved coliform sample locations. Systems open before or beyond the start/end dates must collect samples during these extra months.

Loc ID #	SAMPLE LOCATION	MULT/SIN	R/F	D/S	WAIVER Y / N	2023				2024				2025			
						QTR1	QTR2	QTR3	QTR4	QTR1	QTR2	QTR3	QTR4	QTR1	QTR2	QTR3	QTR4
<b>GROSS ALPHA PARTICLE ACTIVITY</b>																	
1000	WELLS 1 & 2 (AFTER TANK)	M	F	S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	3269032-01G WELL 1																
	3269032-02G WELL 2																
<b>INORGANICS</b>																	
1000	WELLS 1 & 2 (AFTER TANK)	M	F	S	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	3269032-01G WELL 1																
	3269032-02G WELL 2																
<b>LEAD AND COPPER RULE</b>																	
	5 APPROVED TAPS	S	F	D		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>MANGANESE</b>																	
1000	WELLS 1 & 2 (AFTER TANK)	M	F	S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	3269032-01G WELL 1																
	3269032-02G WELL 2																
<b>NITRATE</b>																	
1000	WELLS 1 & 2 (AFTER TANK)	M	F	S		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	3269032-01G WELL 1																
	3269032-02G WELL 2																
<b>NITRITE</b>																	
1000	WELLS 1 & 2 (AFTER TANK)	M	F	S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	3269032-01G WELL 1																
	3269032-02G WELL 2																
<b>PER- AND POLYFLUOROALKYL SUBSTANCES</b>																	
1000	WELLS 1 & 2 (AFTER TANK)	M	F	S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	3269032-01G WELL 1																
	3269032-02G WELL 2																
<b>PERCHLORATE</b>																	
1000	WELLS 1 & 2 (AFTER TANK)	M	F	S	N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	3269032-01G WELL 1																
	3269032-02G WELL 2																
<b>RADIONUCLIDES</b>																	

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						QTR1	QTR2	QTR3	QTR4	QTR1	QTR2	QTR3	QTR4	QTR1	QTR2	QTR3	QTR4

**RADIONUCLIDES**

1000 WELLS 1 &amp; 2 (AFTER TANK)

M F S

☐ ☐ ☒ ☐☐ ☐ ☒ ☐☐ ☐ ☒ ☐

3269032-01G WELL 1

3269032-02G WELL 2

**SECONDARY CONTAMINANTS**

1000 WELLS 1 &amp; 2 (AFTER TANK)

M F S

[DEP recommends annual testing]

3269032-01G WELL 1

3269032-02G WELL 2

**SYNTHETIC ORGANIC COMPOUNDS**

1000 WELLS 1 &amp; 2 (AFTER TANK)

M F S N

☐ ☐ ☐ ☐☐ ☐ ☒ ☐☐ ☐ ☐ ☐

3269032-01G WELL 1

3269032-02G WELL 2

**URANIUM**

1000 WELLS 1 &amp; 2 (AFTER TANK)

M F S

☐ ☐ ☐ ☒☒ ☒ ☒ ☒☒ ☒ ☒ ☒

3269032-01G WELL 1

3269032-02G WELL 2

**VOLATILE ORGANIC COMPOUNDS**

1000 WELLS 1 &amp; 2 (AFTER TANK)

M F S N

☐ ☐ ☒ ☐☐ ☐ ☒ ☐☐ ☐ ☒ ☐

3269032-01G WELL 1

3269032-02G WELL 2