

# Public Water System (PWS) Training for Local Health Officials: Local Health Role in Regulating Small PWSs

Inspecting Food Service Establishments with On-site Wells & Local Health Enforcement Actions in Cases of Water Quality Problems

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Drinking Water Section
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**Drinking Water Section** 



### **Objectives**

- Review sanitary survey requirements and provide checklist
- Review violation tiers and their significance, including notification timelines
- Review enforcement actions



## When is an FSE a Public Water System?

- ◆ If the FSE supplies water to 25 or more people (incl. staff) 60 or more days a year and has its own water source, it is a PWS.
- Nearly all FSEs that have their own water source are PWSs.
- ◆ FSEs that may not be PWSs: Bakeries, etc. that do not have public restrooms, fountain soda/coffee (or other means of consuming the water), seating, or 25 or more employees



### **DPH/LHD Roles in FSE Inspections**

- DPH/DWS inspects public water systems
- LHDs inspect food service establishments
- Who inspects food service establishments that are also public water systems?
- Interaction/Communication between DWS/LHDs – Improved results



### Review of DWS Sanitary Survey Requirements

- The DWS performs sanitary surveys on all public water systems
- Surveys are performed every 3 or 5 years, based on system classification
- ◆ Survey reports are issued for every survey that is performed. They are kept on file, and are available if you need them.



## Review of DWS Sanitary Survey Requirements

- There are eight main elements of a sanitary survey:
  - Source
  - Treatment
  - Distribution system
  - Finished water storage
  - Pumps, pump facilities, and controls
  - Monitoring, reporting, and data verification
  - System management and operation
  - Operator certification

(GWR will define/mandate each of these elements)



## Review of DWS Sanitary Survey Requirements

◆ A sanitary survey checklist was created for use as an aid to DWS staff while performing surveys. It is available in your binder (Green tab) if you would like to use it when performing food service inspections.



#### DEPARTMENT OF PUBLIC HEALTH, DRINKING WATER DIVISION - SANITARY SURVEY OF A PUBLIC WATER SYSTEM Well Inspection Sheet 1

PWS Name:		PWS	SID:	TOWN:	
Well Name:		Wel	HD:	Page	of
PHC Section	Survey Item	Ye	es/No -Public Health Code Violation	Comments (Indicate if Unknown in this column)	R.M.
19-13-B51d	Does this well have any potential sources of pollution within:	г		Withdrawal Rate of the	1
l	75 feet (withdrawal rate < 10 gpm)	ı		Well: gpm	١.
l	150 feet (withdrawal rate = 10 to 50 gpm)	ı			ı
l	200 feet (withdrawal rate > 50 gpm)		Yes - PHC Viol.	List other sources of pollution:	ı
ı	200 feet (Unknown withdrawal rate )		No		ı
ı	LIST: Septic ft; Sewer Lines1 ft; Underground fuel storage ft;			l	ı
l	Above ground fuel storage (excluding propane) ft; Others (list) ft;			l	ı
	Does the well have a high water mark of any surface water body, drain carrying	$\vdash$			-
19-13-B51d	surface water or foundation drain within:	ı		l	ı
l	25 feet (< 10 gpm)	ı		l	ı
ı	50 feet (> 10 gpm)		Yes - PHC Viol.	l	ı
ı	50 feet (Unknown gpm)		No	l	ı
ı	LIST: Surface Water Body ft; Surface Water Drain ft;			l	ı
ı	Foundation Drain ft	ı		1	ı
	Is the well located at a relatively high point on the premises consistent with the		Yes		${}^{-}$
19-13-B51d	general layout and surroundings? Is the well protected against surface wash?	lo.	No - PHC Viol.		ı
	Does the casing of the well project not less than six inches above the established	ō			-
19-13-B51f	grade at the well or above the pump house floor?	lo.	No - PHC Viol.		2, 4
	Was the pipe used for casing the well (other than a dug well) made of steel or other	ō	Yes		<del>-</del>
19-13-B51f	material approved by the commissioner of health?	lп	No - PHC Viol.	1	ı
	Was the pipe used for casing the well (other than a dug well) free from flaws or	lō	Yes		_
19-13-B51f	defects and have watertight connections?	lп	No - PHC Viol.	1	ı
		ō	Yes		_
ı	Is there a raw water sample tap installed at this well?	lπ	No	1	ı
		Ħ	Yes		-
ı	Is the wellhead protected from unauthorized access?	lп	No	l	ı
PERMANE	NT APPURTENANCES		110		_
I LICHI LI VI	Is any equipment, piping or appurtenance, permanently installed in the well joined	П	V	I	т
19-13-B51j	watertight to the well casing at the point of entrance to the well by a well top seal or	_		l	l a
	equally effective means?		No - PHC Viol.		3
19-13-B51i	Is the well fitted with an adequate air vent (If the drawdown is ten feet or more)?		Yes		- 4
19-13-B51J	is the well fitted with an adequate air vent (if the drawdown is ten feet or more)?		No - PHC Viol.		4
	Is the air vent extended to the height of at least twelve inches above any possible high		Yes		П
19-13-B51j	water level?		No - PHC Viol.	1	ı
		_	Yes		₩
19-13-B51i	Is the air vent shielded and screened in such manner as to permit the entrance of air		2.00	1	4
	but keep out foreign matter?	ㅁ			<del>-</del>
19-13-B51i	Is the foundation for the reciprocating pump constructed with sufficient clearance		Yes □ N/A	1	ı
19-13-B31J	around the well casing and the base of the power head to permit the assembly in place of a watertight well top seal?		No - PHC Viol.	1	ı
<b>—</b>	Is the well opening of a turbine pump adequately covered and all openings through	10	Yes  N/A		-
19-13-B51j	the base sealed watertight?		No - PHC Viol.	1	ı
-	and come of the company	늄	Yes	<del></del>	-
19-13-B102n	Has a meter been provided for this well?	lä	2.00	I	I
$\vdash$	Have representative weekly readings of the instantaneous flow rate and total quantity	-		<del></del>	-
19-13-B102n	of water delivered over the previous week been taken, recorded and retained for			I	I
	reference?	ПП	No -PHC Viol.*	I	ı

R.M. = Reference Material Number (included with survey report)

<sup>&</sup>lt;sup>1</sup> If it can be documented that the sewer line is constructed of extra heavy cast iron pipe with leaded joints or approved equal, the separating distance may be decreased. Refer to PHC Section 19-13-B51d.

<sup>\*</sup>This is a violation for Community PWSs only



### Sanitary Survey Checklist

- ♦ In your binder electronic version available (call or email me)
- Use as a guide during FSE Inspection if you wish
- ◆ LHDs, when inspecting a water system, should primarily concentrate on the well location and construction (RCSA 19-13-B51) portion of the checklist, which are the first two pages



### LHD Inspection of FSEs

♦ RCSA Section 19-13-B42(g): The water supply shall be adequate, of a safe, sanitary quality, be in conformance with section 19-13-B102 of the Regulations of Connecticut State Agencies (RCSA) and be from an approved source which is in conformance with sections 19-13-B51a through 19-13-B51m of the RCSA.



#### LHD Inspection of FSEs

- ♠ RCSA Section 19-13-B42t: Inspection of FSEs. All FSEs shall be inspected by the DOH, registered sanitarian, or an authorized agent of the DOH, if such director, sanitarian or agent has been certified by the commissioner..... All FSEs shall be inspected in accordance with this subsection.
  - (1) Class I FSEs shall be inspected at intervals not to exceed 360 days.
  - (2) Class II FSEs shall be inspected at intervals not to exceed 180 days.
  - (3) Class III FSEs shall be inspected at intervals not to exceed 120 days.
  - (4) Class IV FSEs shall be inspected at intervals not to exceed 90 days, except that an interval not to exceed 120 days may be allowed where 1 of the inspections is a hazard analysis insp.



### **LHD Inspection of FSEs**

♦ RCSA 19-13-B42u – Enforcement: (1) Every food service establishment ...... shall not have one or more four demerit point items in violation, regardless of the rating score. The four demerit point items include: water source, adequate, safe; .... if there is one or more four demerit point items in violation at the time of inspection, the director of health, registered sanitarian or authorized agent shall order correction of the items in violation within two weeks.

# CONNECTICUT DEPARTMENT OF PUBLIC HEALTH COMPLIANCE GUIDE FOR FOOD SERVICE INSPECTION FORM

#### WATER SUPPLY

- 29. Water source: adequate, safe (4 demerits)
  - a. The water supply shall be adequate, of a safe, sanitary quality, in conformance with PHC Section 19-13-B102 and from an approved source which is constructed, protected, operated, and maintained in conformance with PHC section 19-13-B51 (a) through (m): Provided, that, if approved by the director of health, a non-potable water-supply system may be permitted within the establishment for purposes such as air conditioning and fire protection, only if such system complies with applicable state and local plumbing codes, and the non-potable water supply is not used in such a manner as to bring it into contact, either directly or indirectly, with food, food equipment, or utensils.
  - b. All water, not piped into the establishment directly from the source shall be transported, handled, stored, and dispensed in an approved manner.
  - c. Drinking water, if not dispensed through the water-supply system of the food service establishment, may be stored in a separate nonpressurized tank, reservoir, or other container.

Public Health Code Regulations 19-13-B39; 19-13-B42 (g); 19-13-B50; 19-13-F3; 19-13-F6



#### What does this include?

- ◆ Any existing violations related to the well location (septic, surface water, oil tanks, etc.) or well construction (well caps, vents, non-compliant well pits, non-compliant dug wells)
- ♦ Any current, unresolved violations from B102 – MCLs, unresolved monitoring violations, etc.



#### INSPECTION REPORT EHS-106-Rev. 06/01 FOOD SERVICE ESTABLISHMENTS

#### STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH 410 Capitol Avenue, MS#51FDP, Hartford, CT 06134

☐ ROUTINE INSPECTION ☐ REINSPECTION □ PREOPERATIONAL

□ OTHER

NAME	OF BLISHMENT						TABLISHMENT ASS	
STREE	ET .					TO		
ADDR						10.10	PECTION	
OWNE OPER							PECTION TE and TIME	
Ва	sed on an inspection this day, the items r	narked	below	identify the violations in operation or facil	litie <b>s</b> v	/hich r	must be corrected by the date specified be	low.
so	URCES OF FOOD		EC	QUIPMENT & UTENSILS : CLEANLINE	ss	VE	ERMIN CONTROL	
1	Approved source, wholesome,	4	21	Preflushed, scraped, soaked and racked		42	Presence of insects/rodents	2
	nonadulterated		22	Wash water clean, proper temperature	1	43		1
2	Original container, properly labeled	1	23	Accurate thermometers provided, dish basket, if used			insects/rodents	
I			24	Sanitization rinse (hot water - chemical)	2	1		
10	OD PROTECTION  Potentially hazardous food meets	_	25 26	Clean wiping cloths Food-contact surfaces of utensils &	2	44	OORS, WALLS & CEILINGS Floors: floor covering installed.	_
'	temperature requirements during storage, preparation, display, service, and	4		equipment clean	2	"	constructed as required, good repair, clean	
1	transportation		27	Nonfood-contact surfaces of utensils & equipment clean	1	45	Floors, graded, drained as required	1
L.			L.	' '		46	Floor, wall juncture covered	_
4	Adequate facilities to maintain product temperature, thermometers provided	2	28	Equipment/utensils, storage, handling	1	47	Mats removable, good repair, clean	
5	Potentially hazardous food properly thawed	2				48	Exterior walking, driving surfaces, good repair, clean	1
6	Unwrapped or potentially hazardous food not reserved	4	W/ 29	ATER SUPPLY		49	Walls, ceilings attached, equipment properly	1
7	Food protected during storage, preparation,	+	30	Water source adequate, safe  Hot and cold water under pressure,	2	49	constructed, good repair, clean. Wall & ceiling	-   '
'	display, service & transportation	2	30	provided as required		L	surfaces as required.	
8	Food containers stored off floor		65	WAGE DISPOSAL		50	Dustless cleaning methods used, cleaning equipment properly stored	1
9	Handling of food minimized	2	31	Sewage disposal approved	4	$\vdash$	acaning equipment property stored	
10	Food dispensing utensils properly stored	1	32	Proper disposal of waste water	1	Lie	GHTING & VENTILATION	
11	Toxic items properly stored, labeled, used	4	$\vdash$			51	Adequate lighting provided as required	1
			PL	UMBING		52	Room free of steam, smoke odors	_ 1
PE	RSONNEL	33	Location, installation, maintenance	1	53	Room & equipment hoods, ducts, vented as required	Π'	
12	Personnel with infection restricted	4	34	No cross connection, back siphonage, backflow	4			
	EANLINESS OF PERSONNEL			DILET FACILITIES		DF 54	RESSING ROOMS & LOCKERS  Rooms adequate, clean, adequate lockers	1
13	Handwashing facilities provided,	4	35	Adequate, convenient, accessible, designed,	4	1 ~	provided, facilities clean	Ι.
	personnel hands washed, clean			installed	7			
14	Clean outer clothes, effective hair restraints	1	36	Toilet rooms enclosed with self-closing door	1	1		
15	Good hygienic practices, smoking restricted	2	37	Proper fixtures provided, good repair, clean			DUSEKEEPING	
lea	UIPMENT & UTENSILS: DESIGN.		H.	ANDWASHING FACILITIES		55	Establishment and premises free of litter, no insect/rodent harborage, no unnecessary articles	1
	NSTRUCTION & INSTALLATION Food-contact surfaces designed, constructed,	2	38	Suitable hand cleaner and sanitary towels or approved hand drying devices provided,	1	56	Complete separation from living/sleeping quarter and laundry	rs 1
1 ~	maintained, installed, located	]		tissue waste receptacles provided		57	Clean/soiled linens stored properly	1
17	Nonfood-contact surfaces designed,	1	_	DDAGE/DUDDIGU CTCDAGE & CCCCC		58	No live birds, turtles, or other animals	1
18	constructed, maintained, installed, located Single service articles, storage, dispensing	+	39	RBAGE/RUBBISH STORAGE & DISPOS Approved containers, adequate number,	AL 1	$\vdash$	(except guide dogs)	
19	No reuse of single service article	2	00	covered, rodent proof, clean	'	l <sub>N</sub> c	ONSMOKING AREAS	
20	Dishwashing facilities approved design, adequately	2	40	Storage area/rooms, enclosures -		59	Seats 75 or more: Nonsmoking area provided,	3
	constructed, maintained, installed, located	11		properly constructed, clean	,		sign(s) posted at entrance(s), smoking area	
Ь	1	ш	41	Garbage disposed of in an approved manner,	┪╵┃	$\vdash$	indicated by sign(s)	
_			L	at approved frequency			JALIFIED FOOD OPERATOR	
ļ	DEMERIT SCORE	$ \rightarrow $			_	60	Qualified Food Operator	3
4	$\begin{vmatrix} 3 & 2 & 1 \end{vmatrix}$	/	1	RISK FACTOR VIOLATIONS IN RE	D	61	Designated alternate  Written documentation of training program	2
						02	written documentation of Balling program	
T	OTAL RATING Date Corrections	Due	Sign	nature of Person in charge				
Ľ			$\perp$					
1			SIG	NED (Inspector)				

	2	2	Equipmenizatensiis, storage, naridiing		47
d	2			-	48
od	4	٧	ATER SUPPLY	_	
		2	Water source adequate, safe	4	49
١,	2	3	Hot and cold water under pressure, provided as required	2	
		s	EWAGE DISPOSAL		50
	2	3	Sewage disposal approved	4	
	4	-5	Dropos diagonal of wants water	4	1.17

#### PUBLIC HEALTH

Keeping Connecticut Healthy

ddr	ess/City:				ction					REins 2 3 4	
	Based on an inspection this day, the items marked DNC identify	v th	e viol	ation	s in o	nera			33.0		0 CAPITOL AVENUE - MS#51FDP - HARTFORD, CT 06 SPECTION REPORT
RISK	FACTOR ITEMS: Listing is not inclusive of all possible debitable items	_			_	_			page		T SPECTION REPORT
60	Qualified Food Operator	-	140	Nex.	3	1 8	EY: C [complies] N/O [not observed] N/A [not applicable DNC [does not comply] O [other] RTE	[read	ty-to-e	at)	
-	Designated Alternate	H			2	12	Personnel with infection restricted	_	_	N/A 4	Date of Inspection:
2/2	Written documentation of training program	H	H			A	Food workers have no exposed infected lesions / burns				Owner or Operator:
	Approved source, wholesome, nonadulterated	0	N/O	NUA:	2	В	Personnel with infection restricted				
		6	NIO	NA	4	C	Communicable disease of worker reported to local health director				Y: DNC [DOES NOT COMPLY]
1	Approved shellfish, finfish, meat & poultry USDA approved Food cans in good condition (not dented, rusty, bloated, leaking)	H			Н	13	Handwashing facilities provided, hands washed, clean	C	NO	N/A 4	
+	Wholesome/nonadulterated foods/safe	-			Н	Α	Handwash facilities in all food prep/dispensing & warewash areas				ewage disposal approved.
	Commercial products (no home grown/canned food)	Н			Н	В	Handwash facilities in or immediately adjacent to toilet rooms				perating as required
	Potentially hazardous foods received at proper temperature	H	$\vdash$		Н	C	Handwash facilities accessible/convenient to use	Ш			lo cross connections, back siphonage, backflow
,	otomony nazarobas robus rationas at proper temperature	-	-	$\vdash$	Н	D	Personnel hands washed, clean / Proper handwash procedure				oper type/installation/ backflow prevention device/ air gap for: ood equipment -Hose connections -Dish machines
-	Potentially hazardous food meets temperature requirements	0	NO	AUA	4	E	Handwashing at appropriate times				odd equipment -nose connections -Dish machines  odd system carbonator -Beverage dispensers -Toilet tanks
	during storage, preparation, display, service and transportation	0	Neo	IWA	4	0	011	100			hamical dispansare -los machines
						15	Good hygienic practices	C	NO	N/A 2	roper drain for:
-	Hot holding greater than or equal to 140°F, (whole beeflook roasts 130°F.)				Ш	A	☐ No eating ☐ No smoking while working				Food equipment -Dish machines -Ice machines
_	Cold holding less than or equal to 45° F.					В	Wounds covered adequately				(d)
	Proper cooling					C	Proper sink used for handwashing				pilet facilities. Adequate, convenient, accessible,
	Proper re-heating					0					esigned, properly installed
	Proper internal cooking / consumer advisory posted	П				24	Sanitization rinse (hot water - chemical)	C	NO	N/A 2	
						A	Approved sanitizer available/adequate concentration of sanitizer				KEY: DNC [DOES NOT COMPLY]
	Adequate facilities to maintain product temperature, thermometers provided	С	N/O	N/A	2	В	Food-contact surfaces and utensils used for potentially hazardous food sanitized at least every 4 hours				arbage/rubbish storage area/rooms, enclosures - properly constructed, clean
	Food thermometer available and accurate					C	Adequate □dishwasher sanitizer □final rinse temp				arbage/rubbish disposed of in an approved manner, at approved frequency
-	Proper food thermometer for product				Н	D	Proper sanitizing procedure				ermin Control: No insects/rodents present
_	Thermometers appropriately placed in cooler units	H		-	Н	E	Sanitizing between raw animal origin & ready-to-eat food	Ш			uter openings protected against entrance of insects/rodents
1	mentionisters appropriately placed in cooler disias	Н		$\vdash$	Н	0					oors: Floor covering installed, constructed as required, good repair, clean
	Food protected during storage, preparation,	C	N/O	N/A	2	100	Clean wiping cloths	C	NO	N/A 1	oors graded, drained as required
	display, service and transportation	-	100	INA	-		Cloths and/or sponges in good repair and clean				Control of the Contro
1	Produce washed	99)				В	Wiping cloths kept in sanitizer between uses				oor, wall juncture covered
-	Raw meats not stored/prepared near ready-to-eat foods	Н			Н	0					ats removable, good repair, clean
$\rightarrow$		-			Н	26	Food-contact surfaces clean	C	N/O	N/A 2	xterior walking, driving surfaces, good repair, clean
4	Food covered properly				Н	A	Food equipment clean, utensils clean, equipment interiors clean				falls, ceilings attached, equipment properly constructed, good
4	Adequate splash guards / sneeze guard				Ш	В	Single use gloves changed when soiled		7		pair, clean. Wall & ceiling surfaces as required
	No unauthorized personnel	L			Н		Food-contact surfaces clean				ustless cleaning methods used, cleaning equipment properly stored
_	No pooling of eggs not cooked immediately				Н	0					describe Sobiles and ideal as see ideal
-	ood containers stored off the floor					30	Hot and cold water under pressure, provided as required	C	NO	N/A 2	
)						38	Handwashing accessories provided	C	N/O	N/A 1	
	Handling of food minimized	C	N/O	N/A	2	A	Soap / paper towels / drying device available			-	poms & equipment hoods, ducts, vented as required
_	No unnecessary handling RTE and/or cooked foods with bare hands					В	Dispenser(s) working: □Soap □Paper towel	Н	-		poms adequate, clean, adequate lockers provided, facilities clean
	Minimize food handling, other than ready-to-eat, with bare hands					C	Handwash sink(s) clean / waste receptacle at handwash sink	Н		-	stablishment and premises free of litter, no insect/rodent harborage.
	Adequate utensit(s) for dispensing food/ice				П	0	Transmissing) death made receptable at handwash sink	Н		-	o unnecessary articles
1					Н		SCRIBE DEFICIENCIES ON CONTINUATION SHEETS	ш	_	-	omplete separation from living/sleeping quarters and laundry
he	following information is not debitable and does not affect your score	-		(EY:	nen	-	ed food operator), DA (designated atemate), PHF (potentially hazardous for	the s	CD No.	famadha	
200		1	_	ME.I.	_	_		_	B (IO	oobornej	lean/soiled linens stored properly
	s are hot held at: °F. PHFs are cold held at: nternal cooking temperatures taken? Y N ◆To what temperature do	waii	nnnk:	F.	Des	cribe	liness conditions when you would exclude a food worker from work	king:			o live birds, turtles, or other animals (except guide dogs)
out	ry Ground Beef Pork	,	COUR.	_	Wha	t dise	ises related to FB illness are you required to report to the local health	h dep	artme	nt?	eats 75 or more: Nonsmoking area provided, sign(s) posted at
Roas	tsOther			-	10.00			_			strance(s), smoking area indicated by sign(s)
	ribe re-heating procedures:			-1			written illness policy that requires the food worker to report specific is to the QFO? Y N   Do you have a paid sick leave police.			titions	10 AV
NO.		17		_			language barrier between inspector & QFO? Y N If yes indicate Is	*		univam.	putine Inspection
	oods cooked in advance and cooled? Y N   Are leftovers saved? oroducts cooled:	Y	N	- 1		OFO/D					er Inspection:
					_	_		erit Score: *Include demerits from page 1			
esc	ribe cooling methods:			-1	Indicate who answered the above questions: Name (print):						4 3 2 1 Total Rating
5 00	oling monitored for time & temp? Y N is the monitoring of cooling recor	rlari	2 V	N:	Indic	ate ti	e title of above person (circle all that apply): QFO DA Mgr Co	ook	Own	er FW	
*******	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	Jet	. 1			ain si pectio	nature of the person who received the QFO responsibilities information	on at	the ti	me of the	
th	ere a produce washing policy? Y N . Describe what is washed and				116		1				
her	*						report is a two page form (total of 62 debitable items)			1 of 2	



Water source adequate, safe.
-Well / well head protected from contamination
-Water quality in compliance
-Monitoring in compliance



### Item #29 Food Inspection Form

- ♦ Well construction violations of RCSA Section 19-13-B51a-m should be listed a 4 demerit point item under Item #29 on the Food Service Inspection Form.
- ◆ The DOH order\* should require correction of these violations within 14 days.

<sup>\*</sup>explained later



#### **Timeframes for Correction**

- Some well construction violations may not be correctable within 14 days.
- ◆ The FSE should minimally prepare a plan for compliance with any well construction violations within 14 days.
- ◆ The plan for compliance should include details and timeframes for corrective actions.
- ◆ LHD may consult with DWS and FPP, as necessary, to review the plan for compliance.
- ♦ Any changes of "sanitary significance" must be approved by DWS in advance per B102(d)(2). If unclear, the DOH and/or FSE should contact us.



#### **Timeframes for Correction**

♦ If the plan for compliance meets regulatory requirements but timeframes for correction extend beyond the 14 day period due to unavoidable delays, then the order may be extended by the DOH beyond the 14 days as long as interim measures remain in place and no immediate public health hazard exists.





## Case Study: FSE that is a PWS



**Drinking Water Section** 



### Case Study: Background

- 49 Monitoring and Reporting Violations since 2001 (No WQ Monitoring performed)
- Numerous unresolved RCSA 19-13-B51, B102 and B38 violations identified at DWS Sanitary Survey
- Notice of Violation (NOV) and approximately \$96,000 in fines issued by DWS.
- Interconnection to viable Public Water System readily available
- ◆ Food Service License reissued, still open w/o any corrections or any monitoring performed.



### Case Study: Continued

- Improved communication between DWS and LHDs
- ♦ LHD issuance of 4 point demerit for Item 29
  - Look at well (even if very briefly) during inspections
  - Quick review of WQ and M/R violations prior to inspections



#### **DWS/LHD Communication**

- ◆ Look for DWS Website improvements, including a section dedicated to LHD issues (forms, FSE violation lists by health district, etc.)
- ◆ Let us know what else you would like to see on our website



#### **DWS/LHD Communication**

- ♦ Would you like onsite training for sanitarians? We can meet and do surveys with you. Pick 5 or so problem systems and give us a call.
- ◆ Technical Assistance is available whenever you need it; send us an email question (ideally with pictures), or call.



# Communication: PWS Registration for FSEs

- ◆ LHDs are requested to have each food service establishment complete the <u>Food</u> <u>Service Establishment Water System</u> <u>Registration Form</u> each time they register or apply for licensure/re-licensure
- Copies of the registration form should be sent to the DPH-DWS so an accurate PWS inventory can be maintained



#### STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH DRINKING WATER SECTION

Food Service Establishment Water System Registration Form

	Refer to instructions on reverse side for as	ssistance in completing this registration form.	
Ar	te there changes to property and/or food service establishment	t ownership/contact information from this past year?	□ Yes □ No
A.	Food Service Establishment Information	☐ New food establishment licensure	☐ Relicensure
Food	Service Establishment Name:		
Own	ership information (food service establishment):		
]	Name:		
	Mailing Address:		
	Phone Number: Signature of food service establishment Owner:	Data	
		Date	
B.	Water System Information		
If 'C	t is the source of the water supply for this location? ustomer of a Community PWS", do not complete Section B.	Provide name of Community PWS:	(PWS)
Wate	er System/Property Name	PWSID*: CT	
		* If known / if applicable	
Addr	ress of Water System:	Town:	
List a	all businesses and/or facilities supplied by water system:		
	t least 25 persons (including employees, customers, parishior ities/businesses supplied by the water system daily at least 60		s) visit the
	l number of <b>same</b> persons who <b>regularly</b> use the facilities / b ths a year:Avg. # of D		
	s this water system also supply water to a (check applicable): edical facility $\square$ rest area $\square$ park/recreation area $\square$ camp		
Туре	e and number of wells:	low Dug Wells □Other:	
	lled water treatment equipment:		☐ Aeration
Wate	er System annual operating period (begin/end dates of operati	ion): From:To:month/daymonth/day	
Wate Nam	er system ownership information (i.e. property owner): e:		
	ing Address:		
	ne Number: ature of Property Owner:	Date:	
Sign			
	Information below to be complete	ted by the Local Health Department	
	1. Date:		
	<ol> <li>Water System Classification (check one): ☐ NTNC ☐</li> <li>Reviewed by (print name, title and LHD):</li> </ol>	TNC □ NP □ Undetermined □ CWS Custome	er*
	4. Signature:		
	Mail a copy of the completed registration form to:	* If CWS customer, do not forw	ard
	CT Department of Public Health – Drinking Water Section, C 410 Capitol Ave. MS#51WAT, P.O. Box 340308, Hartford, C		

**Drinking Water Section** 



### Water Quality Problems at FSEs: What do LHDs do when....



#### What do we do when.....

- ◆ LHD is notified that an FSE has a sample result that is positive for total coliform?
- What does the LHD do if its positive for fecal/e.coli?
- ◆ LHD is notified that an FSE has a confirmed maximum contaminant level violation for total coliform?



# When an FSE has an initial total coliform positive sample (e.colinegative) but no confirmation...

- Its up to the LHD...nothing required by regulation. <u>More conservative approach</u> - some level of protective measures <u>Less conservative approach</u> - wait for confirmation sample results
- Water quality history and/or B51 compliance might be a consideration in your decision
- ◆ DO NOT ADVISE THEM TO CHLORINATE UNTIL CONFIRMATION SAMPLES ARE COLLECTED!!!



# When an FSE has an initial sample positive for e. coli but no confirmation...

- Still up to the LHD, nothing required by regulation, but....
- DWS recommends protective measures be implemented immediately
- ◆ Confirmation samples still must be collected before the system is chlorinated.



## The confirmation samples indicate its an MCL, now what?

- ▶ First, read the "Presence of Total Coliform Bacteria in the Water Supply at Food Service Establishments Guidance Document"
- ◆ There is a copy in your binder
- It will be posted on the dedicated LHD section of the DWS website in the near future



Revised: 7/15/05

#### LOCAL HEALTH DEPARTMENT - GUIDANCE DOCUMENT

#### Presence of Total Coliform Bacteria in the Water Supply at Food Service Establishments

Prepared by: Connecticut Department of Public Health

Connecticut Association of Directors of Health, Inc. Connecticut Environmental Health Association

<u>Purpose</u>: To provide procedural guidelines to be followed by local health departments when a food service establishment, under local health department jurisdiction, exceeds the monthly maximum contaminant level (MCL) for total coliform bacteria.

Coliform Bacteria: Coliform bacteria are a group of microscopic organisms commonly found in the environment but are also present in the digestive tract and feces of humans and warm-blooded animals. They are usually present in water that has been contaminated by human or animal waste and are used as indicator organisms in the testing of drinking water quality. These indicator organisms are relatively easy, quick, and inexpensive to test for and are normally absent in properly constructed untreated groundwater well supplies. The presence of these organisms indicates that contamination may be entering the water system. Public water systems are required to periodically monitor their water distribution system for the presence of total coliform bacteria to determine the sanitary quality of the water being provided to the public. Coliform bacteria do not generally cause disease by themselves, however, if they are found to be present in a water sample it is assumed that disease-causing organisms (pathogens) may also be present.

<u>Fecal Coliform/E. Coli Bacteria:</u> Fecal coliforms are bacteria that are associated with human or animal wastes. They usually live in human or animal intestinal tracts, and their presence in drinking water is a strong indication of recent sewage or animal waste contamination. Water contaminated with fecal coliforms should never be consumed.

E. coli (Escherichia coli) bacteria is a group of fecal coliform bacteria commonly found in the intestines of animals and humans. E. coli bacteria is also a strong indication of recent sewage or animal waste contamination. Few E. coli strains cause disease, however, the presence of any E. coli bacteria in a water sample suggests that disease-causing organisms may also be present. One of the E. coli strains that does cause disease is E. coli 0157:H7. A standard laboratory analysis will not identify a particular strain of E. coli bacteria nor is it necessary to do so as part of a routine drinking water analysis. Water contaminated with E. coli bacteria, regardless of the strain, should never be consumed.

Collection of Water Samples: Water samples collected from public water systems for compliance with the water quality monitoring requirements contained in Public Health Code (PHC) Section 19-13-B102(e) must be collected by "technical personnel employed by a DPH [Department of Public Health] approved environmental laboratory under Section 25-40 of the Connecticut General Statutes (CGS), or a DPH certified distribution system operator, or a DPH certified water treatment plant operator, or a sanitarian, or an employee of the DPH, or a person under the direct supervision of either an approved environmental laboratory, a certified distribution system operator, or a certified water treatment plant operator". Water samples

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# LHD Actions for MCL Violations (Highlights)

- Order corrective actions to the water system
- ◆ Order interim provision of an alternative source of approved water supply, modify operation (protective measures), or close the food service establishment
- ◆ Attempt to determine source of pollution
- ◆ DPH-DWS will provide technical and field assistance as necessary



# Explanation of DOH Issued Orders: RCSA Section 19-13-B42(u)(3)

◆ Any condition that "constitutes an immediate and substantial hazard to public health" (which could include MCLs) and the DOH may immediately issue written order under RCSA Section 19-13-B42(u)(3) requiring corrective actions within a DOH specified timeframe including, if necessary, immediate correction.



# General Order Template

- The DOH should use the General Order template provided by DPH-LHAB
- ◆ "Right of Appeal" including the RCSA Rules of Practice Sec. 19a-9-8 and Sec.19a-9-14 must be attached to the order
- Order must be signed only by Director of Health
- LHDs are encouraged to seek technical assistance from the DWS and FPP as necessary prior to issuing any orders



Keeping Connecticut Healthy

#### SAMPLE ORDER/NOTICE OF VIOLATION

SSUED TO:	
You are hereby notified of the existence of a public health law violation upon the prem or under your charge, located at and describe n the town of and describe	
AW VIOLATIONS:	
AUTHORITY: Connecticut General Statutes Sections 19a-206, 19a-207, 19a-244	
PENALTY: Connecticut General Statutes Sections 19a-36, 19a-206, 19a-230	
t is hereby ordered that said violation be removed, abated or corrected as follows:	
on or before day of, Director of Health  for (town, city, borough or district)	20
(,,,	

#### PUBLIC HEALTH

#### Keeping Connecticut Healthy

RIGHT OF APPEAL: Connecticut General Statutes Sec. 19a-229 states "Any person aggrieved by an order issued by a town, city or borough director of health may appeal to the Commissioner of Public Health not later than three business days after the date of such person's receipt of such order, who shall thereupon immediately notify the authority from whose order the appeal was taken, and examine into the merits of such case, and may vacate modify, or affirm such order."

There are two ways to appeal this order; both methods require action not later than three business days after you receive the order.

(1) You may appeal the order by delivering your written appeal to the Department not later than three business days after you receive the order. You may deliver it to the Department either in person or by facsimile. The Department's address and facsimile number are:

> Department of Public Health Public Health Hearing Office 410 Capitol Avenue MS 13 PHO P.O. Box 340308 Hartford, CT 06134-0308 Facsimile: (860) 509-7553

If you chose this method of appeal, you need do nothing more to perfect your appeal, unless instructed otherwise by the Department.

(2) You may also appeal the order by calling the Department not later than three business days after receipt of the order at one of the following numbers: (860) 509-7648 or (888) 891-9177. It is sufficient to leave a message with your name, number and a description of the order you are appealing.

If you appeal the order by calling one of the telephone numbers listed above, the telephone call must be followed up with a written notice of appeal that must be <u>received</u> by the Department within ten days of the telephonic notice.

PLEASE NOTE: It is not sufficient that the written notification be postmarked within ten days. It must be received by the department within ten days. Delays caused by the Post Office will not excuse failure to comply with this requirement.

The written notice of appeal following the telephonic notice may be delivered to the Department in person, by facsimile, or by first class or certified mail. The Department's address and facsimile number are provided above. If you chose to send the written notice of appeal by first class mail or certified mail, please use the address provided below.

Department of Public Health Public Health Hearing Office 410 Capitol Avenue MS 13 PHO P.O. Box 340308 Hartford, CT 06134-0308 If the last day of any losed, any paper may be ment is open. Such filing or biration of the time frame.

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# Content of DOH Orders for Total Coliform Bacteria Contaminations

- Prohibit use of contaminated water for all food service operations including drinking water/beverages, ice, and food preparation.
- Order destruction of any foods and beverages prepared with the contaminated well water
- Order corrections for any violations of RCSA Section 19-13-B51 (well construction standards). Consult with DWS as necessary.
- Order water system disinfection following any necessary well construction improvements



# Content of DOH Orders, Continued

♦ The FSE may be allowed to continue operation provided an immediate and substantial hazard to the public health does not exist (e.g. E. coli not detected). During the correction period the local DOH ensures that either an adequate approved alternate water source is made available and/or a modification in the food service operation, menu, equipment use, handwashing facilities, etc., will provide safe quality water in sufficient quantity and at a sufficient pressure to properly continue the food operation.



# Inspection

- ◆ The LHD should perform an inspection of the food service operation upon notification of an MCL.
- Inspect each water source (well) serving the water system for B51 compliance and any obvious sanitary deficiency that may be a contributing factor to the contamination event.
- Inspection should also determine the ability of the food service operation to continue full or restricted operations without the use of the contaminated well water supply.



## **Consult with DPH**

- ◆ LHDs may request field and/or technical assistance from the DWS if they need assistance in determining B51 well construction compliance.
- ◆ DWS may have previous inspection reports for some wells which may help with identifying any necessary corrective actions.



### **Interim Water Use**

- During the on-site inspection the LHD must determine if interim measures for continued food service operations can be implemented in a manner that would prevent public exposure to contaminated water and provide an adequate safe supply of water for continued operations
- ◆ If interim measures cannot be complied with then the food establishment can be ordered immediately closed by the DOH using their authority in RCSA Section 19-13-B42(u)(3) until all violations are corrected

**Drinking Water Section** 



# Interim Measures (Examples)

- The use of approved bottled water
- Using a temporary alternate source of drinking water from a DPH approved source (DPH Guidance Document available)
- Limiting menu to commercially prewashed/prepared packaged foods
- Continue use of well water for hot water and approved chemical sanitizing dishwashing devices at required temperatures and sanitizing concentrations



# Interim Measures (Examples)

- Supplementing handwashing by using a chemical hand sanitizing solution
- Treating the well water supply with a disinfection system approved by the DWS
- Using single service utensils
- Discarding any ready-to-eat foods and ice previously prepared with contaminated well water
- Providing an alternate approved source for ice and beverages



# Content of DOH Orders (E. Coli Bacteria Contamination)

- Same as for Total Coliform with the exception that the food service establishment shall be ordered immediately closed.
- ◆ The DOH, at their discretion, may authorize (in consultation with DWS and FPP) interim measures for continued operation. However, these measures must be in place prior to allowing the food establishment to reopen.



# Content of DOH Orders (Non-Bacteriological Contamination)

- Prohibit use of contaminated water for all food service operations including drinking water/beverages, ice and food preparation
- Order corrections for any violations of RCSA Section 19-13-B51 (well construction standards)
- Order provision of a safe and adequate water supply in conformance with RCSA Section 19-13-B102 as determined by the DWS



# If treatment is being installed as a result of bacteria problems at a Food Service Establishment

- ◆ Communication/coordination between LHD and DWS is key. FPP may also be involved.
- Review of treatment proposals will be prioritized within DWS.



# **Community Water Service**

- Where Community public water service is readily available, FSEs that have contaminated well water or significant B51 violations should be strongly encouraged to interconnect.
- ♦ In some cases, it may be warranted to order that the food establishment obtain Community public water service (i.e. where B51 violations cannot be corrected)



# What are Violation Tiers, and When is Public Notice Required?



## PWS Water Quality Reporting Requirements

#### RCSA Section 19-13-B102(e)(7)(I)(i)

 Routine or Repeat Fecal Coliform/E.coli positive samples must be reported to DWS by the end of the business day (No later than 96 hours from sample collection)

#### RCSA Section 19-13-B102(h)

- MCL for total coliforms reported to DPH and the LHD no later than the end of the next business day
- Monitoring & Reporting violations reported to DPH within 10 days after the PWS discovers the violation.
- All other MCL violations reported to DPH and the LHD within 48 hours.



- Purpose: To notify the public any time a water system violates drinking water regulations or has other situations posing a risk to public health.
- ◆ Compliance: Notices must be sent within 24 hours, 30 days, or one year depending on the tier to which the violation is assigned.
- ▲ Applicability: All Public Water Systems violating drinking water regulations, operating under a variance or exemption, or having other situations posing a risk to public health.



- Violations are classified into three tiers as defined in RCSA 19-13-B102(a)
- PWS must send/post notice within the period specified by each tier:
  - ♦ Tier 1: 24 hours
- Clock for notification starts when the system learns of the violation
- Minimum general content of the notice must contain ten (10) required elements, DWS has 'preapproved' templates
- System shall submit a certification that is has fully complied with the requirements within ten (10) days after completing the public notification requirements



Keeping Connecticut Healthy

### PUBLIC NOTIFICATION MAXIMUM CONTAMINANT LEVEL VIOLATION FECAL COLIFORM/E. COLI.

DATE:PWSID:TO: The Customers/Residents of
FROM: (public water system name)
wishes to inform you that required water quality tests conducted during the monitoring period indicated the presence of fecal coliforms or E. coli. in our water supply. This is a violation of drinking water standards and
Section 19-13-B102(i) of the Regulations of Connecticut State Agencies which requires us to notify you of this situation.
The United States Environmental Protection Agency (EPA) sets drinking water standards and has determined that the presence of fecal coliform or E. coli. is a serious health concern. Fecal coliforms and E. coli. are bacteria whose presence indicates that the water may be contaminated with human or animal waste. Microbes in these wastes can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, the elderly, and people with severely compromised immune systems. It is recommended that the precautions indicated below be taken for human consumption activities including: drinking, food preparation, making coffee or ice, dishwashing, or maintaining oral hygiene.
<ul> <li>Boiling the water for one minute to inactivate any bacteria that may be present; OR</li> <li>Using bottled water or an alternate source of approved drinking water.</li> </ul>
We recommend that the above precautions be considered for infants, expectant mothers, the elderly, immuno-compromised individuals and anyone undergoing chemotherapy. Please consult your physician if you have any medical questions or concerns.
The following steps are being taken to correct this violation:
We expect to return to compliance or resolve the situation by(date)
If you have any questions please contact or or or or by mail at (Street) (Town) (State) (State) (Zip Code)
by mail at,,,,,,(Zip Code)
Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

### <u>CERTIFICATION OF COMPLIANCE</u> <u>PUBLIC NOTIFICATION</u>

Public Water System Name	:	
Public Water System Town	:	
Public Water System ID:		
Violation Type:	Acute Total Coliform (E.coli./Fecal Co Contaminant Level (MCL) Violation	
Monitoring Period:		
consumers in accordance w	licated above hereby affirms that public in the delivery, content, and format requor of Connecticut State Agencies.	
<ul> <li>Consultation with D</li> </ul>	epartment of Public Health (if required)	on
<ul> <li>Notice distributed by</li> </ul>	у	on
<ul> <li>Notice published in</li> </ul>	(newspaper or newsletter)	on
Signature of owner or opera	tor	Date



# Tier 1 Violations:

- ♦ Include All Acute Risk Violations
  - ◆ Total Coliform MCL (fecal/e.coli)

  - ♦ Others (see B102(a)(86))

-within 24 Hours-



# **Consultation Requirements**

# RCSA Section 19-13-B102(i)(1)(B)

- ◆ A PWS required to perform a Tier 1 public notice shall consult with DPH as soon as possible but no later than 24 hours after learning of the violation.
- ◆ Tier 1 public notice required within 24 hours via broadcast media, posting in a conspicuous location, hand delivery to customers, or other DPH approved method.



# Tier 2 Violations:

- All other MCL Violations, MRDL Violations, or Treatment Technique violations
- Monitoring requirements for total coliforms, nitrate, nitrite, total nitrate and nitrite, or chlorine dioxide
- Consent Order Violations

-within 30 Days-



# Tier 3 Violations:

- All other Monitoring requirements
- Operated under an administrative order, variance, or an exemption;
- Exceeded the fluoride secondary maximum contaminant level (SMCL)

-within 365 Days (CCR?)-



## **Additional Info**

- Call or email with any questions that arise. eric.mcphee@po.state.ct.us (860) 509-7333
- ◆ The DPH Food Protection Program is another resource (860) 509-7297
- We can help you make an assessment if you email digital pictures.
- Let us know what information DWS can add to our website to aid you in performing FSE inspections.