



Backflow Prevention for Severe Health Hazard Facilities (Gray) Annual Summary Report (ASR) for 2023

PWS ID: 07300U PWS Name: BLAINE CITY OF County: WHATCOM

Part 1: Backflow Prevention Status

- Describe the backflow prevention status at the end of the reporting year for each wastewater treatment plant and nuclear facility your system serves.
- If you serve more than one severe health hazard facility, click the "Add Facility" button to display another facility data entry box.
- If you serve more than one connection to the same facility, click the "Add Connection" button to display another connection row for that facility.
- You may add as many facilities and connections as needed.
- To update this form, you may delete facilities and connections which are no longer served.

Facility 1 of 1	
Facility Name	Lighthouse point water reclamation facil
Physical Address	272 Marine Drive
City	Blaine
Zip	98230
NPDES Permit#	WA0022641
Facility Type	Wastewater Treatment Plant (WWTP)
Facility Comments	Serves the City of Blaine sanitary sewer system. Required backflow assemblies are based on the degree of hazard.
Facility 1 Connection 1 of 1	
Connection Name	Lighthouse point
Backflow Prevention Status	In-Premises (fixture) Backflow Prevention Only
Connection Comments	Reclamation facility has both air gaps and assemblies as required, with application based on the degree of hazard.

Part 2: Report Certification and Contact Information

I, Adam Lackey, certify that the information in this form is true, complete and accurate to the best of my knowledge.

Last Saved	02/13/2024	All ASR Forms Certified/Submitted	02/13/2024
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Designated CCS/CCC Program Manager ¹					
Name	Adam Lackey	Title	Water Quality Coordinator	CCS Cert #	15692
Email Address	alackey@cityofblaine.com	Phone	360-332-8820	Phone Ext	3421

PWS Manager ²					
Name	Gary McSpadden	Title	Public Works O and M manager	Operator Cert #	
Email Address	gmcsadden@cityofblaine.com	Phone	360-332-8820	Phone Ext	3430

¹ The CCS responsible for developing and implementing the PWS's CCC program (CCC Program Manager).

² The person the designated CCS/CCC Program Manager reports to or other manager having direct oversight of the CCC Program.



**Backflow Prevention for Severe Health Hazard Facilities (Gray)
Annual Summary Report (ASR) for 2023**



Cross-Connection Control Program Summary (Cream) Annual Summary Report (ASR) for 2023

PWS ID: 07300U PWS Name: BLAINE CITY OF County: WHATCOM

Describe the characteristics of the PWS's Cross-Connection Control (CCC) Program at the end of 2023.

Part 1: CCC Program Characteristics

A. Type of Program Implemented

Type of Program	Check One
Premises isolation only.	<input type="radio"/>
Combination program: reliance on both premises isolation and in-premises prevention.	<input checked="" type="radio"/>
In transition from a combination program to a premises isolation only program.	<input type="radio"/>

B. Coordination with Authority Having Jurisdiction (AHJ) on CCC Issues

Indicate the status of coordination with AHJs in your service area. The AHJ is the entity that enforces the Uniform Plumbing Code at the local level. The AHJ is usually your county or city building department. Don't list DOH as an AHJ.

AHJ #	Name of AHJ (City or County Building Department) ¹	PWS		AHJ Declined to Coordinate
		Coordinates with AHJ	Has Written Agreement with AHJ	
1	City of Blaine Building Department	Yes <input checked="" type="radio"/> No <input type="radio"/>	Yes <input type="radio"/> No <input checked="" type="radio"/>	Yes <input type="radio"/> No <input type="radio"/>
2	North Whatcom Fire and Rescue	Yes <input checked="" type="radio"/> No <input type="radio"/>	Yes <input type="radio"/> No <input checked="" type="radio"/>	Yes <input type="radio"/> No <input type="radio"/>

¹ Do not enter an individual's name.

C. Corrective/Enforcement Actions Available to the Purveyor

Type of Corrective Action/Enforcement Action	Indicate Whether Available	Most Often Used (Check One)
Purveyor denies or discontinues water service.	Yes <input checked="" type="radio"/> No <input type="radio"/>	<input type="radio"/>
Purveyor installs backflow assembly and bills customer.	Yes <input checked="" type="radio"/> No <input type="radio"/>	<input type="radio"/>
Purveyor assesses fines (in addition to eliminating or controlling cross connection).	Yes <input type="radio"/> No <input checked="" type="radio"/>	<input type="radio"/>
Purveyor tests backflow assembly and bills customer.	Yes <input type="radio"/> No <input checked="" type="radio"/>	<input type="radio"/>
Other corrective actions (describe) ¹ :Required 2 car washes to correct DCVA's to RPBA's	Yes <input checked="" type="radio"/> No <input type="radio"/>	<input checked="" type="radio"/>

¹ Enter detailed description of other enforcement actions available to PWS. Don't enter "None", "Not Applicable", or "Not Available."

D. CCC Program Responsibilities

Do not include enforcement action related procedures or circumstances.

CCC Program Activity	Responsible Party (Check one per row)	
	Customer	Purveyor
Hazard Evaluation by DOH-certified CCS	<input type="radio"/>	<input checked="" type="radio"/>
Backflow preventer (BP) ownership	<input checked="" type="radio"/>	<input type="radio"/>
BP installation	<input checked="" type="radio"/>	<input type="radio"/>
BP <i>initial</i> inspection (for proper installation - all BPs)	<input checked="" type="radio"/>	<input type="radio"/>
BP <i>initial</i> test (for testable assemblies)	<input checked="" type="radio"/>	<input type="radio"/>
BP <i>annual</i> inspection (Air Gaps and AVBs)	<input checked="" type="radio"/>	<input type="radio"/>
BP <i>annual</i> test (for testable assemblies)	<input checked="" type="radio"/>	<input type="radio"/>
BP maintenance and repair	<input checked="" type="radio"/>	<input type="radio"/>

E. Backflow Prevention for Fire Protection Systems

Please remember to enter number of days allowed if you require retrofitting.

PWS coordinates with <i>AHJ</i> on CCC issues for fire sprinkler systems (FSSs)	Yes <input checked="" type="radio"/> No <input type="radio"/> N/A <input type="radio"/>
PWS coordinates with <i>local Fire Marshal</i> on CCC issues for FSSs.	Yes <input checked="" type="radio"/> No <input type="radio"/> N/A <input type="radio"/>
PWS ensures backflow prevention is installed before serving <i>new</i> connections with FSSs.	Yes <input checked="" type="radio"/> No <input type="radio"/>
PWS requires retrofits to <i>high</i> -hazard FSSs.	Yes <input checked="" type="radio"/> No. of days allowed: 90 No <input type="radio"/> N/A <input type="radio"/>
PWS requires retrofits to <i>low</i> -hazard FSSs.	Yes <input type="radio"/> No. of days allowed: No <input checked="" type="radio"/> N/A <input type="radio"/>

F. Backflow Prevention for Irrigation Systems

Minimum level of backflow prevention required on irrigation systems <i>without</i> chemical addition.	Not Addressed <input type="radio"/> AVB <input type="radio"/> PV/SVBA <input type="radio"/> DCVA <input checked="" type="radio"/> RPBA <input type="radio"/>
PWS currently inspects AVBs upon <i>initial</i> installation.	Yes <input type="radio"/> No <input checked="" type="radio"/> N/A <input type="radio"/>
PWS currently inspects AVBs upon repair, reinstallation or relocation.	Yes <input type="radio"/> No <input checked="" type="radio"/> N/A <input type="radio"/>

G. Used Water

Does PWS prohibit, by ordinance, rules, policy, by-laws or agreement, the intentional return of used water (e.g. for heating or cooling) into the distribution system?	Yes <input checked="" type="radio"/> No <input type="radio"/>
If not prohibited at present, date plan to prohibit use.	N/A
Current number of service connections returning used water to distribution system.	0

H. Backflow Prevention for Unapproved Auxiliary Water Supplies¹ NOT Interconnected with PWSShow the **minimum** backflow preventer and type of protection required for service connections having unapproved auxiliary water supplies *when they are NOT interconnected to the PWS*.

Existing service connections.	None <input checked="" type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/> AG <input type="radio"/>
Type of protection required.	N/A <input checked="" type="radio"/> In-premises prevention <input type="radio"/> Premises isolation <input type="radio"/>
New service connections.	None <input checked="" type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/> AG <input type="radio"/>
Type of protection required.	N/A <input checked="" type="radio"/> In-premises prevention <input type="radio"/> Premises isolation <input type="radio"/>

¹ An auxiliary water supply is any water supply on or available to customer's premises in addition to the purveyor's potable water supply.

I. Backflow Prevention for Tanker Trucks and Temporary Water Connections

Minimum level of backflow prevention (installed on or associated with the truck) required for tanker trucks taking water from PWS.	AG <input checked="" type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/> Not Specified <input type="radio"/> Tanker trucks not allowed <input type="radio"/>
PWS requires tanker trucks to obtain water at designated fill sites each equipped with permanently installed backflow preventer(s).	Yes <input checked="" type="radio"/> (Minimum preventer: DCVA <input checked="" type="radio"/> RPBA <input type="radio"/>) No <input type="radio"/> N/A <input type="radio"/> No sites provided <input type="radio"/>
PWS currently accepts tanker trucks approved by other PWSs without further inspection or testing.	Yes <input type="radio"/> No <input checked="" type="radio"/> N/A <input type="radio"/>
Minimum level of backflow prevention required for temporary water connections (e.g., for construction sites).	AG <input type="radio"/> DCVA <input checked="" type="radio"/> RPBA <input type="radio"/> Not specified <input type="radio"/> Temp. connections not allowed <input type="radio"/>
PWS provides approved backflow preventer for temporary connections.	Yes <input type="radio"/> No <input checked="" type="radio"/> N/A <input type="radio"/> (Temp. connections not allowed)
PWS requires testing each time the temporary connection backflow preventer is relocated.	Yes <input type="radio"/> No <input checked="" type="radio"/> N/A <input type="radio"/> (Temp. connections not allowed)

J. Backflow Prevention for Non-Residential Connections

For each category shown, indicate whether PWS has non-residential connections of that type and the **minimum level of premises isolation** backflow prevention required (whether or not PWS currently has that type of customer).

Type of Connection	PWS has Customers of this Type	Minimum Premises Isolation Backflow Prevention Required
Commercial	Yes <input checked="" type="radio"/> No <input type="radio"/>	Not Required <input checked="" type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/>
Industrial	Yes <input checked="" type="radio"/> No <input type="radio"/>	Not Required <input checked="" type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/>
Institutional	Yes <input checked="" type="radio"/> No <input type="radio"/>	Not Required <input checked="" type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/>

K. Backflow Prevention for Wholesale Customers

Indicate whether the PWS requires backflow prevention at interties with wholesale customers (other PWSs).

Type of Intertie	PWS has Customers of this Type	Minimum Backflow Prevention Required (if prevention is required, indicate minimum level).	
Existing	Yes <input checked="" type="radio"/> No <input type="radio"/>	Not specified / Not required <input checked="" type="radio"/>	
		Always required <input type="radio"/>	
		Required only if purchaser's CCC program is inadequate <input type="radio"/>	
New	Yes <input type="radio"/> No <input checked="" type="radio"/>	Not specified / Not required <input type="radio"/>	
		Always required <input type="radio"/>	
		Required only if purchaser's CCC program is inadequate <input checked="" type="radio"/>	

L. Exceptions to Mandatory Premises Isolation

PWS's written CCC Program Plan allows system to grant exceptions to mandatory premises isolation per WAC 246-290-490(4)(b)(iii)	Yes <input checked="" type="radio"/> No <input type="radio"/> Doesn't Address <input type="radio"/>
PWS currently grants new Exceptions.	Yes <input checked="" type="radio"/> No <input type="radio"/>
PWS granted Exceptions in past reporting years.	Yes <input checked="" type="radio"/> No <input type="radio"/>

Part 2: CCC Program Record-Keeping Software

Indicate the type or name of computer software the PWS uses to track CCC records.

BPMS <input type="radio"/>	Cross-Track (BMI) <input type="radio"/>	Tokay <input type="radio"/>	XC2 <input type="radio"/>	Custom developed for or by PWS ¹ <input type="radio"/>
Other non-CCC software (e.g. Excel) <input checked="" type="radio"/>	Other commercial CCC software (specify) <input type="radio"/>	None Used <input type="radio"/>		

¹ Do not include commercial CCC software customized for PWS. If PWS uses customized commercial software, check the box for the appropriate commercial software name.

Part 3: Comments and Clarifications

- Enter comments to:
 - Explain or clarify information in this report.
 - Describe accomplishments made in this reporting year.
 - Identify challenges faced in this reporting year.
 - Share your goals and objectives for the coming reporting year.
- Delete comments that are no longer valid.

Part #	Date Added	Comment
Pt 1E	08-11-2016	The number of days allowed to retrofit a high-hazard FPS is 90 days. With Public Works Director approval this time can be extended.
Pt 1J	08-11-2016	Even though we have all three types of businesses in our system we have no minimum level of protection required until we have made a hazards evaluation on the business. Our level of protection is based on that evaluation.
General	02-13-2024	One of our biggest challenges to tracking and enforcing our backflow prevention program is outdated software. The city is purchasing brand new software to replace what we have used since 1990. We can increase our tracking with more inspections to help with enforcement of annual recurring inspection reminders to customers with plenty of advanced notice.

Part 4: Report Certification and Contact Information

I, Adam Lackey, certify that the information in this form is true, complete and accurate to the best of my knowledge.

Last Saved	02/13/2024	All ASR Forms Certified/Submitted	02/13/2024
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Designated CCS/CCC Program Manager ¹					
Name	Adam Lackey	Title	Water Quality Coordinator	CCS Cert #	15692
Email Address	alackey@cityofblaine.com	Phone	360-332-8820	Phone Ext	3421

PWS Manager ²					
Name	Gary McSpadden	Title	Public Works O and M manager	Operator Cert #	
Email Address	gmcsadden@cityofblaine.com	Phone	360-332-8820	Phone Ext	3430

¹ The CCS responsible for developing and implementing the PWS's CCC program (CCC Program Manager).

² The person the designated CCS/CCC Program Manager reports to or other manager having direct oversight of the CCC Program.



Cross-Connection Control Activities (Blue) Annual Summary Report (ASR) for 2023

PWS ID: 07300U PWS Name: BLAINE CITY OF County: WHATCOM

Part 1: Designated Cross-Connection Control Specialist (CCS) Information

CCS Name	Adam Lackey	CCS Phone	360-332-8820 ext- 3421	CCS Cert. #	15692	BAT Cert. #	
CCS is: PWS owner or employee							

Part 2: Status of Cross-Connection Control (CCC) Program at End of 2023

Provide information about the status of your CCC Program at the end of the reporting year.

PWS has: A written CCC Program Plan ¹ <input checked="" type="radio"/> Yes <input type="radio"/> No CCC implementation activities ² <input checked="" type="radio"/> Yes <input type="radio"/> No	Program Plan Last Updated³ 07/10/2023
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¹ Enter "Yes" if PWS has any type of written CCC Program Plan, policies, or procedures. Written CCC Program Plan must be part of a Water System Plan (WSP) or Small Water System Management Program (SWSMP).

² Enter "Yes" if PWS implemented any CCC Program activities during the reporting year, such as establishing legal authority, conducting hazard evaluations, requiring installation of backflow assemblies to protect the PWS, requiring assembly testing, maintaining CCC records, or enforcing the PWS's or CCC Program requirements.

³ PWS can update the CCC Program Plan at any time (independent of WSP or SWSMP update).

Provide information regarding PWS's specific CCC Program Elements

Program Element Number	Description of Element [See WAC 246-290-490(3)]	This Program Element is:	
		Included in Written Program Plan	Being Implemented or Is Completed
1	Legal Authority Established	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
2	Hazard Evaluation Procedures and Schedules	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
3	Procedures/Schedules for Ensuring Installation of Backflow Preventers	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
4	Certified CCS Provided	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
5	Backflow Preventer Inspection and Testing	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
6	Assembly Testing Quality Assurance/Quality Control (QA/QC) Program	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
7	Backflow Incident Response Procedures	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
8	Public Education Program	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
9	CCC Records	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
10	Reclaimed Water Permit	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A

Part 3A: PWS Characteristics at End of 2023

Enter the number of connections (new and existing) served by the PWS by type.

Type of Service Connection	Number
Residential (As defined by PWS)	3251
All Other (include dedicated fire lines, dedicated irrigation lines, and PWS-owned facilities such as water and wastewater treatment plants and pumping stations, parks, piers, and docks)	594
Total Number of Connections	3845

Part 3B: Cross-Connection Control for Severe and High-Hazard Premises and High-Hazard Dedicated Lines Served by the PWS

Answer the following questions carefully. These answers control your access to pages 2 and 3 for data entry.

1. Does your PWS serve any severe or high-hazard premises or any high-hazard dedicated fire or irrigation lines? ☒ Yes ☐ No

2. Does PWS serve any high-hazard medical premises? ☒ Yes ☐ No

- If you answer Yes to both questions, you must enter data in at least one row on page 2 and one row on page 3.
- If you answer Yes to Question 1 and No to Question 2, you must enter data on page 2 only.
- If you answer No to both questions, pages 2 and 3 will be grayed out to prevent data entry.

- Count only premises PWS serves water to.
- Report data as accurately as possible. **DOH currently bases CCC compliance actions on this information.**

Type of Severe or High-Hazard Premises or Dedicated Lines <u>[WAC 246-290-490(4)(b)]</u>	Number of Connections at end of 2023			
	A. Being Served Water by PWS ¹	B. With Premises Isolation by AG/RP ²	C. With Column B AG Inspected or RP Tested ³	D. Granted Exception from Premises Isolation
Agricultural (farms and dairies)	20	0	0	0
Beverage bottling plants (including breweries)	1	1	1	0
Car washes	2	2	0	0
Chemical plants	0	0	0	0
Commercial laundries and dry cleaners	0	0	0	0
Both reclaimed water and potable water provided	2	2	2	0
Film processing facilities	0	0	0	0
Dedicated fire lines with chemical addition or using unapproved auxiliary supplies	0	0	0	0
Food processing plants (including canneries, slaughter houses, rendering plants)	6	6	6	0
Hospitals, medical centers, medical, dental and veterinary clinics, mortuaries, nursing homes, etc., reported on Part 3C page 3 (totals imported from page 3)	5	5	5	0
Dedicated irrigation systems using purveyor's water supply and chemical addition ⁴	0	0	0	0
Laboratories	0	0	0	0
Metal plating industries	0	0	0	0
Petroleum processing or storage plants	0	0	0	0
Piers and docks	6	6	6	0
Radioactive material processing plants or nuclear reactors	0	0	0	0
Survey access denied or restricted	0	0	0	0
Wastewater lift/pump stations (non-residential only)	0	0	0	0
Wastewater treatment plants	1	1	1	0
Unapproved auxiliary water supply interconnected with potable water supply	0	0	0	0
Totals	43	23	21	0

¹ Count multiple connections or parallel installations to the same premises as **separate** connections.

² Count only connections with premises isolation AGs or RPs. Don't include connections with in-premises preventers only or connections with DCVAs or DCDAs installed for premises isolation. The number in Column B can't be larger than the number in Column A in the same row.

³ Count only connections whose premises isolation preventers were inspected (AGs) or tested (RPs) during the reporting year.

⁴ For example, dedicated irrigation lines to parks, playgrounds, golf courses, cemeteries, estates, etc.

⁵ Premises with hazardous materials or processes (requiring isolation by AG or RP), such as aircraft and automotive manufacturers, pulp and paper mills, metal manufacturers, military bases, and wholesale customers that pose a high hazard to the PWS. May be grouped together in categories, for example: "Other manufacturing" or "Other commercial".

Part 3C: Cross-Connection Control for High-Hazard Medical Premises Served by the PWS

- Count only medical premises PWS serves water to.
- Don't count the same premises more than once. If you serve different medical category premises through a single connection, count the connection under the medical category you consider to pose the highest hazard to PWS.
- Report data as accurately as possible. **DOH currently bases CCC compliance actions on this information**

Type of High-Hazard Medical Premises [WAC 246-290-490(4)(b)]	Number of Connections at end of 2023			
	A. Being Served Water by PWS ¹	B. With Premises Isolation by AG/RP ²	C. With Column B AG Inspected or RP Tested ³	D. Granted Exception from Premises Isolation
Hospitals				
Hospitals (include psychiatric hospitals and alcohol and drug treatment centers)	0	0	0	0
Facilities for Treatment and Care of Patients Not Located in Hospitals Counted Above				
Same day surgery centers	0	0	0	0
Out-patient clinics and offices	0	0	0	0
Alternative health out-patient clinics and offices	0	0	0	0
Psychiatric out-patient clinics and offices	0	0	0	0
Chiropractors with water-connected X-ray equipment	0	0	0	0
Hospice care centers	0	0	0	0
Childbirth centers	0	0	0	0
Kidney dialysis centers	0	0	0	0
Blood centers	0	0	0	0
Dental clinics and offices	4	4	4	0
Facilities for Housing Patients				
Nursing homes	1	1	1	0
Assisted Living Facilities (formerly Boarding Homes)	0	0	0	0
Residential treatment centers	0	0	0	0
Other Medical-Related Facilities				
Mortuaries with embalming equipment	0	0	0	0
Morgues and autopsy facilities (not in hospitals)	0	0	0	0
Veterinarian offices, clinics and hospitals	0	0	0	0
Totals	5	5	5	0

¹ Count multiple connections or parallel installations to the same premises as **separate** connections.

² Count only connections with premises isolation AGs or RPs. Don't include connections with in-premises preventers only or connections with DCVAs or DCDAs installed for premises isolation. The number in Column B can't be larger than the number in Column A in the same row.

³ Count only connections with premises isolation AGs or RPs. Don't include connections with in-premises backflow preventers only or connections with premises isolation DCVAs or DCDAs isolation.

Part 4A: Backflow Preventer Inventory and Testing Information for 2023

- Complete all fields. Enter **zero (0)**, if no backflow preventers in a specific category.
- Count only backflow preventers relied on to protect the PWS.
- Count AVBs on *irrigation systems only*. Select No to AVB question above Table 2 if PWS doesn't track AVBs.
- Count multiple tests (or failures) for the same backflow preventer as one test (or failure) for that backflow preventer.
- For multiple service connections or parallel installations, count each assembly separately.
- Count RPDAs and DCDAs as **single** assemblies. Count the tests of the mainline assembly and bypass assembly as **one test**. Count the failure of either the mainline or bypass assembly (or the failure of both) as **one failure**. Count an entire detector assembly taken out of service as **one assembly removed from service**.
- Count assemblies installed on dedicated fire or irrigation lines as **Premises Isolation Assemblies** in Table 1.

Backflow Preventer Category and Inspection/Testing Information		Air Gap	RPBA	RPDA	DCVA	DCDA	PVBA	SVBA	AVB
Table 1: Premises Isolation Preventers (include preventers isolating PWS-owned facilities)									
Existing Premises Isolation Backflow Preventers									
1	In service at beginning of 2023	1	130	0	176	34			
2	Inspected and/or tested in 2023 ¹	1	85	0	113	21			
3	Failed inspection or test in 2023	0	0	0	0	0			
New Premises Isolation Backflow Preventers									
4	Installed in 2023 ²	0	0	0	0	0			
5	Inspected and/or tested in 2023 ¹	0	0	0	0	0			
6	Failed inspection or test in 2023	0	0	0	0	0			
Premises Isolation Backflow Preventers (existing or new)									
7	Removed from service in 2023 ³	0	0	0	0	0			
Total Premises Isolation Preventers at End of 2023		1	130	0	176	34	0	0	0
Does PWS track AVBs on irrigation systems? <input type="radio"/> Yes <input checked="" type="radio"/> No									
Table 2: In-Premises Preventers (include preventers within PWS-owned facilities)									
Existing In-Premises Backflow Preventers									
8	In service at beginning of 2023	0	0	0	0	0	0	0	unk
9	Inspected and/or tested in 2023 ¹	0	0	0	0	0	0	0	unk
10	Failed inspection or test in 2023	0	0	0	0	0	0	0	unk
New In-Premises Backflow Preventers									
11	Installed in 2023 ²	0	0	0	0	0	0	0	unk
12	Inspected and/or tested in 2023 ¹	0	0	0	0	0	0	0	unk
13	Failed inspection or test in 2023	0	0	0	0	0	0	0	unk
In-Premises Backflow Preventers (existing or new)									
14	Removed from service in 2023 ³	0	0	0	0	0	0	0	unk
Total In-Premises Preventers at End of 2023⁴		0	0	0	0	0	0	0	0
Grand Totals at End of 2023		1	130	0	176	34	0	0	0

¹ Initial and/or routine annual inspection (for proper installation and approval status) and/or test (for testable assemblies only, using DOH-approved USC field test procedures).

² Includes preventers installed on connections where backflow prevention was not previously required and any preventers that replaced those in service at the beginning of the reporting year. Replacement preventers may be of a different type than the originals.

³ Existing or new preventers taken out of service, whether or not they were replaced by the same or a different type of preventer.

Part 4B: Other Implementation Activities in 2023

Complete all cells. Enter zero if not applicable.

Water Use Questionnaires	
Did your PWS send any water use questionnaires to customers during 2023?	<input type="radio"/> Yes <input checked="" type="radio"/> No

On-site Hazard Surveys			
Did your CCS conduct any on-site hazard surveys during 2023?			<input type="radio"/> Yes <input checked="" type="radio"/> No
	Service Connection Type		
	New	Existing	Total
1. Number of connections surveyed for cross-connection hazards to PWS.			0
2. Number of connections requiring backflow prevention to protect PWS.^{1,2}			0

New Exceptions to Premises Isolation	
Did your CCS grant any new premises isolation exceptions in 2023 to high-hazard premises?³	<input type="radio"/> Yes <input checked="" type="radio"/> No

CCC Enforcement Actions	
Did your PWS take any enforcement actions during 2023?⁴	<input type="radio"/> Yes <input checked="" type="radio"/> No

¹ Include services where either premises isolation or in-premises preventers were required to protect the PWS.² Include existing services that need new, additional or higher level backflow prevention.³ Submit a completed DOH Exception Form (green) for each new exception granted in the reporting year.⁴ "Enforcement actions" means actions taken by the PWS (such as water shut-off, PWS installation or testing of backflow preventer, assessment of fines, etc.) when the customer fails to comply with the PWS's CCC requirements.**Part 5: Backflow Incidents and "Off-Normal" Events in 2023**

Backflow Incidents, Risk Factors, and Indicators during 2023		Number
<i>Backflow Incidents during 2023</i>		
1	Backflow incidents that contaminated the PWS ⁵ .	0
2	Backflow incidents that contaminated the customer's drinking water system <i>only</i> ⁵ .	0
<i>Risk Factors for Backflow during 2023</i>		
3	Distribution main breaks per 100 miles of pipe.	1.00
4	Low pressure events (<20 psi in PWS distribution system).	0
5	Water outage events.	0
<i>Indicators of Possible Backflow during 2023</i>		
6	Total health-related complaints received by PWS. ⁶	0
7	Received during BWA or PN events. ⁷	0
8	Received during low pressure or water outage events.	0
9	Total aesthetic complaints (color, taste, odor, air in lines, etc.).	30
10	Received during BWA or PN events. ⁷	0
11	Number of these complaints received during low pressure or water outage events.	0

⁵ Purveyors must submit a Backflow Incident Report form for each backflow incident known to have contaminated the public water system. DOH is also interested in receiving incident report forms for backflow incidents that contaminated the customer's drinking water system only.⁶ Such as stomach ache, headache, vomiting, diarrhea, skin rashes, etc.⁷ "BWA" means **Boil Water Advisory** and "PN" means **Public Notification** for water quality reasons.

Part 6: Comments and Clarifications

- Enter comments to:
 - Explain or clarify information in this report.
 - Describe challenges faced or accomplishments made in this reporting year.
 - Share your goals and objectives for the coming reporting year.
- Delete comments that are no longer valid.

Part No.	Date Added	Comments
Other	08-17-2016	The City of Blaine supplies reclaimed water via the Lighthouse Point Water Reclamation Facility to the Semiahmoo Golf course as irrigation water during the Summer months. There is a physical disconnect between the potable and reclaimed water. All reclaimed lines are painted purple to identify the contents as reclaimed wastewater.
Pt 4A	04-26-2018	The City no longer tracks in premise assemblies if the premise utilizes a premise isolating assembly. The Exception to this being City owned facilities.
Pt 5	03-10-2021	The City has 86 miles of potable water main. In 2020 we had 2 main breaks that resulted in low pressure events. The breaks were isolated and repaired in a short time. I have calculated main breaks per 100 miles of main to illustrate the number of breaks per 100 miles of main. Main breaks are calculated as follows $86 \text{ (miles of main)} \div 100 = .86 \times 2 = 1.72$ main breaks per 100 miles.
Pt 1	04-11-2022	The City has 86 miles of potable water main. In 2021 we had 1 main break. The break was isolated and repaired in a short time. I have calculated main breaks per 100 miles of main to illustrate the number of breaks per 100 miles of main. Main breaks are calculated as follows $86 \text{ (miles of main)} \div 100 = 0.86 \times 1 = 0.86$ main breaks per 100 miles.
Pt 1	04-25-2023	The city has 86 miles of potable water main. In 2022 we had no breaks in the line.
Pt 1	01-22-2024	The City of Blaine has implemented a full time position dedicated to the CCC program to protect our water system and our Customers to the highest degree possible. For example, 2 received backflow reports from our 2 car washes state a passing test for the assembly but the assembly was not applicable to the application. Both car washes had a DCVA assembly where a RPBA is required. Both were notified and complied within the 30 days given for correction. These are the types of instances we aim to find and get corrected as part of our implementation of our new full time Water Quality Coordinator position.

Part 7: Report Certification and Contact Information

I, Adam Lackey , certify that the information in this form is true, complete and accurate to the best of my knowledge.

Last Saved	02/13/2024	All ASR Forms Certified/Submitted	02/13/2024
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Designated CCS/CCC Program Manager¹

Name	Adam Lackey	Title	Water Quality Coordinator	CCS Cert #	15692
Email Address	alackey@cityofblaine.com	Phone	360-332-8820	Phone Ext	3421

PWS Manager²

Name	Gary McSpadden	Title	Public Works O and M manager	Operator Cert #	
Email Address	gmcspadden@cityofblaine.com	Phone	360-332-8820	Phone Ext	3430

¹ The CCS responsible for developing and implementing the PWS's CCC program (CCC Program Manager).

² The person the designated CCS/CCC Program Manager reports to or other manager having direct oversight of the CCC Program.