



STATE OF WASHINGTON
DEPARTMENT OF HEALTH
OFFICE OF DRINKING WATER

PO Box 47822 • Olympia, Washington 98504-7822
Tel: 360-236-3100 • Fax: 360-236-2253 • TDD Relay Service: 1-800-833-6388

June 30, 2014

Dear Ms. Chandler:

Enclosed is our *2013 Violations of National Primary Drinking Water Regulations in Washington State* annual report. This report summarizes water quality, monitoring, or reporting violations that occurred in Washington State last year. We reported these violations of national primary drinking water regulations to the EPA electronically on a quarterly basis, as they occurred.

This year our compliance team met with EPA Region 10 quarterly to review priority systems as identified on EPA's Enforcement Tracking Tool (ETT). In this review, we identified several historical data reporting errors, which we corrected. We are also linking more violations to formal enforcement actions so we reported these violations as addressed in the ETT system.

If you have questions about this report, please call me at 360-236-3110, or John Aden, Compliance Lead, at 360-236-3157.

Sincerely,

Clark Halvorson
Director

Enclosure

CC: Marie Jennings, EPA Region 10
Maryanne Guichard, Department of Health

2013 Violations of National Primary Drinking Water Regulations in Washington State

*Washington's 18th Annual Report to the U.S. Environmental Protection
Agency*

July 2014



Washington State Department of Health
Office of Drinking Water
P.O. Box 47822
Olympia, WA 98504-7822
360-236-3100

The Washington State Department of Health Office of Drinking Water prepared this report to comply with the requirements of the federal Safe Drinking Water Act. The report lists water quality violations, monitoring or reporting requirements, and related enforcement activities that occurred in 2013. Each quarter we submit data to the Safe Drinking Water Information System (SDWIS/FED), an automated database the U.S. Environmental Protection Agency (EPA) maintains. We based this annual report on data retrieved from SDWIS/FED.

Our mission is to protect the health of the citizens of Washington State by ensuring safe and reliable drinking water. We accomplish our mission by helping communities address the drinking water challenges they face now and in the future. We provide education and technical assistance to water systems, and use appropriate enforcement tools when they are out of compliance with safe drinking water requirements. While we are concerned about any drinking water violation, we prioritize and focus our compliance efforts on the highest public health risks, consistent with EPA's Enforcement Response Policy.

Federal regulations define a *public water system* as a system that provides water via piping or other constructed conveyances for human consumption to at least 15 service connections or an average of at least 25 people for at least 60 days each year. In Washington, we call these systems "Group A public water systems."

There are three types of Group A systems¹:

- Community (such as a city, town, or homeowners association)
- Nontransient noncommunity (such as schools or businesses)
- Transient noncommunity (such as rest stops or parks).

Washington has 4,100 Group A public water systems subject to federal requirements. Of those, 1,032 experienced at least one violation. Very small water systems that serve fewer than 100 people accounted for about half of the violations in this report. These systems generally lack sufficient capacity to meet the requirements of running a public water system. We provide assistance and funding to help these systems build capacity, collaborate with another entity to manage and operate their system, or consolidate with a larger more capable system. When that fails, we take appropriate enforcement action.

¹ See Attachment A for a full description of water system types.

Summary of Violations

Coliform: Violations increased less than 1 percent from 2012.

Consumer Confidence Report: By the end of 2013, 93 out of 2,215 systems failed to submit their consumer confidence report.

Chemical Contaminant Group: Chemical monitoring covers four major chemical contaminant groups: inorganic chemicals, synthetic organic chemicals, volatile organic chemicals, and radionuclides. We did not include monitoring violations for radionuclides in this report.

In 2013, the only maximum contaminant level (MCL) violations for chemicals involved arsenic, nitrate, and fluoride. Together, these violations affected 46 water systems serving about 10,685 people. There were 33 systems with nitrate MCL violations, 12 systems with arsenic MCL violations, and 1 system with fluoride violations. Together, these systems account for about 1 percent of Washington's regulated water systems and affect about 0.2 percent of the population that gets its water from regulated systems.

There were 295 systems (7.2%) with at least one chemical monitoring violation in 2013.

Surface Water Treatment Rule: In Washington, 243 regulated water systems rely on at least one permanent surface water source, one groundwater source under the direct influence of surface water (GWI) source, or one permanent intertie with a system that uses surface water or GWI. In 2013, five of these systems reported treatment technique violations affecting 15,822 people. This represents less than 0.3 percent of the population served by regulated water systems in the state.

Lead and Copper: In 2013, nine systems had monitoring violations. These systems serve less than 0.1 percent of the residential population that gets its water from regulated systems. We reported no treatment technique violations in 2013.

Disinfection Byproducts: While we track and maintain water system compliance information for disinfection byproducts, we did not report any data electronically to EPA for 2013.

Public notification: Our regional offices check and track this information; however, it isn't available electronically and we did not include it in this report.

Report Terms

Maximum Contaminant Level (MCLs)

MCLs are the national limits on contaminant levels in drinking water EPA sets to ensure that the water is safe for human consumption.

Maximum Residual Disinfectant Level (MRDLs)

MRDLs are the national limits EPA sets on residual disinfectant levels to reduce the risk of exposure to disinfection byproducts in drinking water. Disinfectant byproducts can form when public water systems add chemical disinfectant for primary or residual treatment.

Treatment Techniques

For some regulations, the EPA establishes treatment techniques instead of an MCL to control unacceptable levels of contaminants. For example, there are treatment techniques for viruses, some bacteria, and turbidity. We issue a treatment technique violation when a water system fails to treat a drinking water source properly.

Monitoring

A public water system must monitor and verify that the levels of contaminants present in the water do not exceed the MCL. A monitoring violation occurs when a system fails to test its water as required, or fails to report test results to us correctly.

Significant Monitoring Violations

This report includes significant monitoring violations that occurred in 2013. With rare exceptions, a significant monitoring violation occurs when a system takes no samples or reports no results during a compliance period.

Consumer Notification (the Consumer Confidence Report)

Every community water system must deliver a brief annual water quality report to its customers. This report must include educational material and provide information on the system's source water, the levels of any detected contaminants, and compliance with drinking water regulations.

Significant Consumer Notification Violations

For this report, a significant public notification violation means a community water system completely failed to provide its customers the required annual water quality report.

Variations and Exemptions

We have issued no variations or exemptions in Washington.

Attachments

- Attachment A: Water system definitions
- Attachment B: Violations reported to EPA.
- Attachment C: Summary of violations reported to EPA.
- Attachment D: Systems with MCL and treatment technique violations in 2013.

Note: We continue to work with EPA Region 10 to correct errors in the federal database. The overall numbers displayed in the above attachments represent the corrected information for 2013.

Accessing This Report

Washington's Annual Violations Report is online at <http://www.doh.wa.gov/CommunityandEnvironment/DrinkingWater/RegulationandCompliance/Enforcement/EPAViolationReports.aspx>

You can also request a copy at:

Department of Health
Office of Drinking Water
P.O. Box 47822
Olympia, Washington 98504-7822
1-800-521-0323

Attachment A: Water System Definitions

Public water system (PWS): Any system providing piped water for human consumption, including any collection, treatment, storage, or distribution facilities under control of the purveyor and used primarily in connection with the system. This definition excludes a system serving only one single-family residence and a system with four or fewer connections all of which serve residences on the same farm,

Group A water system: A public water system serving 15 or more connections or 25 or more people per day for 60 or more days per year and subject to the federal Safe Drinking Water Act.

Community water system: A Group A system with 15 or more service connections used by residents for 180 or more days within a calendar year regardless of the number of people, or regularly serving 25 or more residents for 180 or more days within the calendar year regardless of the number of service connections.

Noncommunity water system: A Group A system serving 25 or more nonresidents per day for 60 or more days per year, or 15 or more connections, or 25 or more residents between 60 and 180 days per year.

Nontransient noncommunity (NTNC) water system: A Group A noncommunity system serving 25 or more of the same nonresidents per day for 180 days or more per year.

Transient noncommunity (TNC) water system: A Group A noncommunity system that serves 15 or more connections in use less than 180 days per year, or 25 or more different nonresidents for 60 or more days per year, or 25 or more of the same nonresidents for 60 to 180 days per year, or 25 or more residents for 60 to 180 days per year.

Group B water system: A public water system that serves fewer than 15 connections and fewer than 25 people for 60 or more days per year, or fewer than 15 connections and any number of people for less than 60 days per year. *Note: This report doesn't include Group B systems. They are subject to Washington State Board of Health requirements but not federal requirements.*

Attachment B: Violations Reported to EPA

Violations for 2013									
Violations Category	MCL		Treatment Technique		Significant Monitoring		Consumer ** Notification		
	Violations	Systems	Violations	Systems	Violations	Systems	Violations	Systems	
Chemical Contaminant Group*	76	46			2849	295			
Total Coliform Rule	21	20			646	427			
Surface Water Treatment Rule			26	5	7	5			
Lead and Copper Rule			0	0	9	9			
Disinfection Byproducts	NR	NR	NR	NR	NR	NR			
Consumer Notification Violation							435	435	
Public Notice							NR	NR	

Totals	
Total Number of Systems in Violation***	1,032
Total Number of Violations	4,069

NR = Not Reported

* **Chemical Monitoring:** This report doesn't include MCL and monitoring violations for radionuclides. All of the MCL violations reported for the chemical contaminant group in 2013 were for arsenic (26%), nitrate (72%), or fluoride (2%).

** **Consumer Confidence Reports (CCRs):** This report covers information for 2012. CCRs cover data on the previous year and are due to customers by July 1.

*** Although a PWS may be out of compliance with more than one MCL or monitoring requirement, we counted that system only once when calculating total of number systems in violation.

Key to Abbreviations for Attachments C and D

Attachment C

MCL Maximum Contaminant Level
NR Not Reported
PWS Public Water System

Attachment D

ID# Public Water System Identification Number

NAME Water System Name

TYPE

CWS Community Water System
NTNC Nontransient Noncommunity Water System
TNC Transient Noncommunity Water System

SRC Source of Drinking Water
GW Groundwater
SW Surface water

POP Population served, includes residential and nonresidential

VIOL TYPE

Arsenic MCL Arsenic Maximum Contaminant Level Violation
Coliform MCL Coliform Maximum Contaminant Level Violation
Fluoride MCL Fluoride Maximum Contaminant Level Violation
Nitrate MCL Nitrate Maximum Contaminant Level Violation
SWTR TTV Filtered Surface Water Treatment Technique Violation

COMMENTS

Under BCA The system signed a Bilateral Compliance Agreement with us
Under order We directed the system to comply with requirements.
RTC Returned to compliance.
EPA U.S. Environmental Protection Agency

Attachment C: Summary of Violations Reported to EPA

SAFE DRINKING WATER INFORMATION SYSTEM – ANNUAL PWS COMPLIANCE REPORT

Compliance period: January 1, 2013, through December 31, 2013

STATE SUMMARY

Rule group	MCLs		Monitoring		Treatment Technique		Consumer Notification	
	# of violations	# PWSs in violation	# of violations	# PWSs in violation	# of violations	# PWSs in violation	# of violations	# PWSs in violation
CHEM	0	0	1400	61	-	-	-	-
Chemical Sub-group	0	0	577	41	-	-	-	-
Volatile Organic	76	46	872	194	-	-	-	-
Synthetic Organic	NR	NR	NR	NR	-	-	-	-
Inorganic								
Radionuclides								
CHEM Total	76	46	2849	295	-	-	-	-
Total Coliform Rule	21	20	646	427	-	-	-	-
Surface Water Treatment Rule	-	-	7	5	26	5	-	-
Lead and Copper Rule	-	-	9	9	0	0	-	-
Disinfection Byproducts	NR	NR	NR	NR	NR	NR	-	-
Consumer Confidence Reports	-	-	-	-	-	-	437	437
Public Notification	-	-	-	-	-	-	NR	NR
Grand Total	97	66	3,511	660	26	5	435	435

Grand total number of violations (MCL, Monitoring, Treatment Technique, and Consumer Notification): 4,069

Grand total number of systems in violation (MCL, Monitoring, Treatment Technique, and Consumer Notification): 1,032

NOTE: Although a water system may be out of compliance with more than one MCL or monitoring requirement, we counted that system only once when calculating total number systems in violation.

Attachment D: Systems with MCL and Treatment Technique Violations in 2013

ID #	System Name	Type	SRC	Pop	Violation Type	Comments	Follow-up Action
25384	AHEARN WATER SYSTEM	CWS	GW	91	Coliform MCL	Aug violation	RTC
04725	BATTLE POINT PARK	TNC	GW	512	Coliform MCL	Sept & Nov violations	RTC
AA373	BC WATER CO	CWS	GW	1202	Nitrate MCL	Quarter 2 & 4 violations	
06643	BCT INC	NTNC	GW	58	Nitrate MCL	Quarter 1 violation	
01001	BLUE SKY RV PARK	TNC	GW	69	Coliform MCL	Oct violation	RTC
31568	BLUEBIRD INN	TNC	GW	45	Nitrate MCL	Quarter 2 violation	Under BCA
07066	BRINNONWOLD ASSOC	TNC	GW	11	Coliform MCL	Oct violation	RTC
09200	BULLMAN BEACH	TNC	SW	35	SWTR TTV	Oct, Nov, & Dec violations	Under Order
11060	CAPE HORN MAINTENANCE COMPANY	CWS	GW	940	Coliform MCL	Oct violation	RTC
58451	CEDAR CREEK SDA CHURCH	TNC	GW	50	Coliform MCL	June violation	RTC
88122	CHEHALIS RV PARK	TNC	SW	128	SWTR TTV	June & July violations	
47128	CHRIST COMMUNITY FELLOWSHIP	NTNC	GW	115	Nitrate MCL	Quarter 1, 2, & 4 violations	
AB441	CLAYTON ORCHARDS HOUSING	TNC	GW	72	Nitrate MCL	Quarter 2, 3, & 4 violations	Under BCA
13615	CLEARWOOD	CWS	GW	2848	Coliform MCL	Sept violation	RTC
07200	COLUMBIA CREST ESTATES	CWS	GW	55	Arsenic MCL	Quarter 1, 2, & 3 violations	Under BCA
17641	COLUMBIA CREST WINERY	NTNC	GW	218	Nitrate MCL	Quarter 1 violation	RTC
06152	CONAGRA FOODS LAMB WESTON - PLANT	NTNC	GW	250	Nitrate MCL	Quarter 1 violation	RTC
15518	COUNTRY VILLA MOBILE PARK	CWS	GW	145	Nitrate MCL	Quarter 2 violation	RTC
02050	COVINGTON 212	CWS	GW	40	Arsenic MCL	Quarter 1, 2, & 3 violations	Hooked up to City of Lacey
03014	CRISTALINA WATER COMPANY	CWS	GW	336	Coliform MCL	Sept violation	RTC
SP200	CURLEW LAKE STATE PARK	TNC	GW	778	Nitrate MCL	Quarter 2 & 3 violations	Under BCA
01852	DEER MEADOWS WATER COMPANY INC	CWS	GW	68	Arsenic MCL	Quarter 1 violation	RTC
18750	DELTA WATER ASSOCIATION	CWS	GW	420	Nitrate MCL	Quarter 1 & 2 violations	Under Order
58951	EHLERS LABOR CAMP	TNC	GW	40	Nitrate MCL	Quarter 1 violation	Under BCA
22850	ELECTRIC CITY, CITY OF	CWS	GW	1358	Arsenic MCL	Quarter 1 violation	RTC

ID #	System Name	Type	SRC	Pop	Violation Type	Comments	Follow-up Action
23960	EVANS WATER SYSTEM	CWS	GW	47	Coliform MCL	Aug violation	RTC
24524	FAIRWAY ESTATES INC	CWS	GW	100	Coliform MCL	Sept violation	RTC
09639	FISHHOOK PARK	TNC	GW	651	Nitrate MCL	Quarter 2 & 3 violations	Under BCA
45533	FOUR CORNER GROCERY & DELI	TNC	GW	221	Coliform MCL	Sept violation	RTC
01874	GOLDEN VALLEY WATER SYSTEM.	CWS	GW	174	Nitrate MCL	Quarter 1 & 2 violations	Under BCA
29710	GREENBANK ESTATES WATER SYSTEM	CWS	GW	43	Coliform MCL	Sept violation	RTC
19928	HANSON HARBOR HOMEOWNERS ASSN	CWS	GW	56	Arsenic MCL	Quarter 1 violation	
35550	INCHELIUM WATER DISTRICT	CWS	GW	540	Arsenic MCL	Quarter 1 violation	Under EPA Exemption
36705	JEFFERSON COUNTY WATER DIST #1	CWS	GW	600	Arsenic MCL	Quarter 1, 2, & 3 violations	Under BCA
37750	KAPOWSIN WATER DISTRICT	CWS	SW	70	SWTR TTV	Jan thru Dec violations	RTC
39950	KING COUNTY WATER DISTRICT #54	CWS	GW	5037	Coliform MCL	Sept violation	RTC
42175	KIONA VILLAGE COURT	CWS	GW	112	Nitrate MCL	Quarter 1 violation	RTC
42704	KITTITAS COUNTY WATER DISTRICT #5	CWS	GW	690	Arsenic MCL	Quarter 1 violation	RTC
00119	KONTREE APARTMENTS WATER SYSTEM	CWS	GW	60	Nitrate MCL	Quarter 1 & 2 violations	Under Order
19906	LAKEVIEW SUBDIVISION	TNC	GW	17	Nitrate MCL	Quarter 1 & 4 violations	
26049	LEWIS AND CLARK CAMPGROUND	TNC	GW	27	Coliform MCL	Oct violation	
09356	MAPLE HILL PARK	CWS	GW	35	Nitrate MCL	Quarter 1 & 2 violations	
61400	NORTH SUNSET POINT WATER USERS ASSN	CWS	GW	25	Coliform MCL	Aug violation	RTC
62135	NORTHWOOD PARK SYSTEM	CWS	GW	50	Nitrate MCL	Quarter 1 & 2 violations	Under Order
64300	ORIENT WATER COMPANY	CWS	SW	207	Coliform MCL	Apr violation	Under Order
64300	ORIENT WATER COMPANY	CWS	SW	207	SWTR TTV	Apr & May, July thru Dec	Under Order
07870	P AND G ORCHARDS CAMP 2	CWS	GW	196	Arsenic MCL	Quarter 1 violation	Under Order
65760	PALMERS MUTINY BAY WATER ASSN	TNC	GW	9	Nitrate MCL	Quarter 1 violation	RTC
55914	PHEASANT RUN	TNC	GW	95	Nitrate MCL	Quarter 1, 2, & 4 violations	
69000	PORT TOWNSEND, CITY OF	CWS	SW	15382	SWTR TTV	Aug violation	Under Order
03741	RACE LAGOON WATER ASSOCIATION	CWS	GW	141	Coliform MCL	Aug violation	RTC
56829	RADER FARMS LABOR CAMP	TNC	GW	44	Nitrate MCL	Quarter 1, 2, & 3 violations	Under BCA

ID #	System Name	Type	SRC	Pop	Violation Type	Comments	Follow-up Action
71100	RANCH HOUSE BBQ	TNC	GW	135	Coliform MCL	Apr violation	RTC
AD017	RANGEVIEW	TNC	GW	55	Nitrate MCL	Quarter 1 violation	
20540	RIGGLEMAN ORCHARDS INC	TNC	GW	70	Nitrate MCL	Quarter 1 violation	
17631	RIVER ROAD MOBILE HOME PARK	CWS	GW	150	Arsenic MCL	Quarter 1 violation	
72821	RIVERS EDGE LODGE	TNC	GW	44	Nitrate MCL	Quarter 1 violation	
AC812	SAGEDALE APARTMENTS	CWS	GW	40	Nitrate MCL	Quarter 2 violation	
59546	SUNDANCE ESTATES WATER SYSTEM	CWS	GW	50	Arsenic MCL	Quarter 1 violation	
85129	SUN HARBOR WATER DISTRICT #3	CWS	GW	187	Fluoride MCL	Quarter 1 violation	Under Order
13451	SUNRISE ESTATES WATER SYSTEM	CWS	GW	30	Nitrate MCL	Quarter 1, 2, & 4 violations	Under BCA
59317	TRI-FRESH LLC	TNC	GW	40	Nitrate MCL	Quarter 1 violation	RTC
14131	TYSON FRESH MEATS INC	NTNC	GW	1500	Nitrate MCL	Quarter 4 violation	
90850	UTSALADY POINT WATER SYSTEM INC	CWS	GW	54	Coliform MCL	Sept violation	RTC
56831	VICENTE FARMS & SONS ENTERPRISE	TNC	GW	45	Nitrate MCL	Quarter 1 & 2 violations	Under Order
20226	VISTA VUE WATER USERS ASSN	CWS	GW	60	Arsenic MCL	Quarter 1 violation	RTC
AC298	WAHLUKE MEETING HOUSE	TNC	GW	80	Nitrate MCL	Quarter 1, 2, 3, & 4 violations	Under BCA
19300	WEAR-TEK	NTNC	GW	40	Nitrate MCL	Quarter 3 violation	RTC
AC535	WET PLANET RAFTING	TNC	GW	99	Coliform MCL	July violation	
05796	WSP KENNEWICK DETACHMENT	TNC	GW	30	Nitrate MCL	Quarter 1 violation	
02507	WYCKOFF FARMS - SUNNY HOP	TNC	GW	71	Nitrate MCL	Quarter 2 violation	RTC