2019 Drinking Water Quality Report Update

Board of Public Utilities Meeting June 4, 2020 Tony Llamas, Water Quality Supervisor



Compliance with the Safe Drinking Water Act (SDWA)

Federal Rules – Public drinking water quality:

- Total Coliform Rule
- Disinfectants/Disinfection By-Products Rule
- Lead and Copper Rule
- Groundwater Rule

State Regulations - Cross Connection Control



Annual Water Quality Report provides:

- Water system information
- Testing Information
- Definitions
- How to Read Section
- Water Quality Results
- Rebuild Update













Water Quality Report Distribution

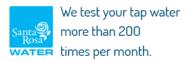
- Press Democrat Ads
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- Mailings
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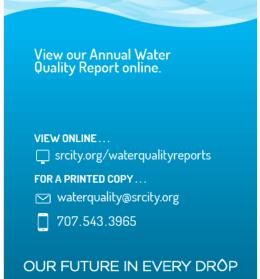


OUR FUTURE IN EVERY DROP



Quality matters.



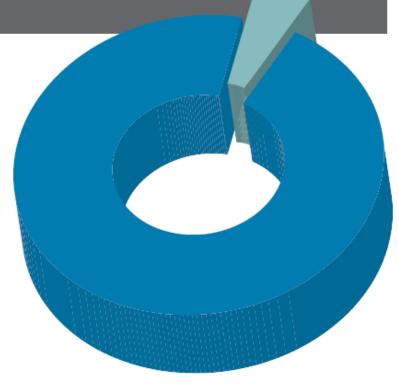


Water Supply Portfolio

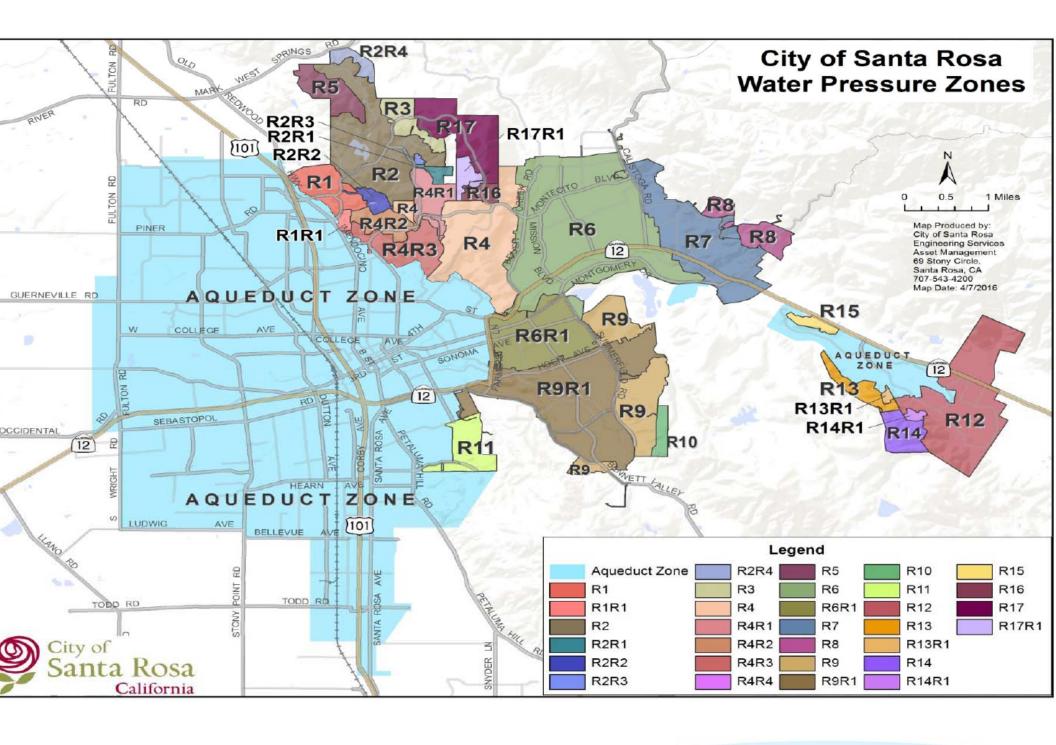
As a Santa Rosa Water customer you are connected to Santa Rosa's public water system. The water supplied to homes and businesses is a combination of surface water from the Russian River and local groundwater.

95% Water Agency (Russian river)

5% Groundwater

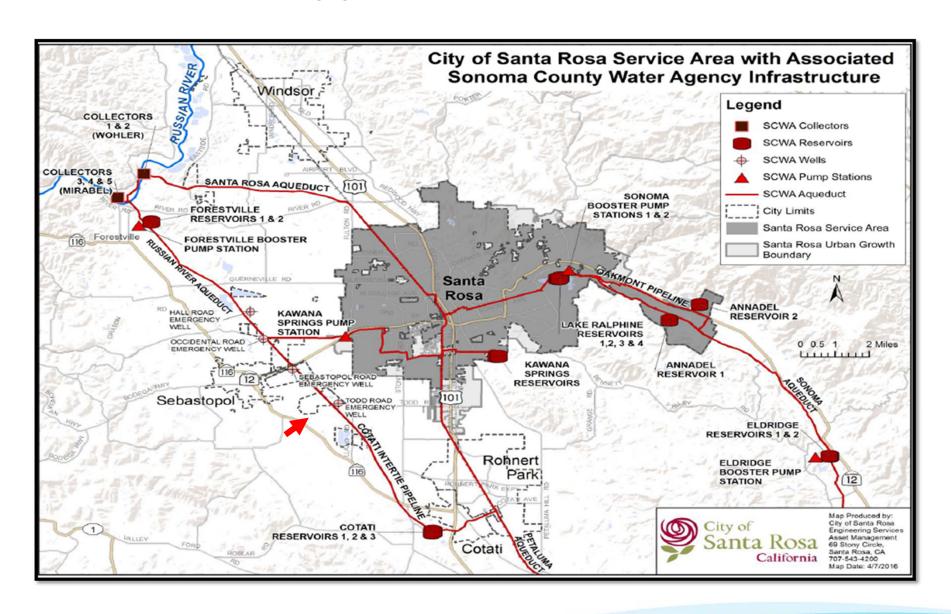






Sonoma Water Transmission Lines

90 miles of pipelines from 12 to 54 inches



Field Sampling covers all areas of our water system







Rebuild Sampling Update

Water Quality in Fountaingrove

Water quality in the Fountaingrove neighborhood that was impacted by the 2017 wildfires continues to meet all state and federal safe drinking water standards. Following the successful restoration of water quality in this area and the lifting of the drinking water advisory on October 11, 2018, Santa Rosa Water, in consultation with the California Division of Drinking Water and the U.S. Environmental Protection Agency, completed an extensive, one-year sampling plan to confirm repairs to the portion of the system were effective.

Under this plan, Santa Rosa Water has taken over 500 post-fire water quality samples inside the impacted area. Data continues to confirm that repairs were effective in removing the contamination and water quality meets all standards for safe drinking water. Upon completion of the robust sampling plan in October 2019, Santa Rosa water continues to ensure the safety of our community's drinking water through routine water quality sampling and system flushing.

Farmers Lane Well -Water **Treatment** Plant Samples







Sonoma County Water Agency - Caissons 1 thru 6 - 2019 Water Quality Report

CLARITY OF WATER FROM	MOI	11-11-		ample				0.1000000000000000000000000000000000000		
GROUNDWATER SOURCES	MCL	Units	Fre	quency	average 0.035	average 0.044	average 0.044	average 0.045	average 0.044	average 0.037
Turbidity (1)	5 (3)	NTU	con	tinuous	range	range	range	range	range	range
Turblatty	3	NIO	Con	unuous	(0.026 - 1.27)	(0.028 - 2.0)	(0.032 - 0.091)	INTERNATION CONTROL TO THE STATE OF	(0.039 - 2.0)	(0.033 - 2.0)
	<u> </u>	MCL			Inits	# Samples	Diete	ibution Sustam	Monitoring for	10.10
MICROBIOLOGICAL - Coliform Bacteria	< 2 nosit	tive samples pe	er month		ms/100ml	537	Distr		samples	2016
			an one and an analysis		STATE OF THE STATE					2004
DISINFECTANT - Total Chlorine Residual	>	95% per monti	n	detectat	ole residual	534	Detecta	able residual in	100% of sample	s taken
Total Trihalomethanes (2) - Tank Samples		0.080	_	n	ng/L	72	average = 0.0	149 mg/L rang	e = (0.0069 mg/l	L - 0.0241 mg/L)
VOLATILE ORGANIC COMPOUNDS	Units	STATE	DLR	PHG	Caisson 1	Caisson 2	Caisson 3	Caisson 4	Caisson 5	Caisson 6
Section 64444 - Table A		MCL		{ MCLG }	9-Sep-19	9-Sep-19	10-Sep-19	10-Sep-19	10-Sep-19	9-Sep-19
Benzene	mg/L	0.001	0.0005	0.00015	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	mg/L	0.0005	0.0005	0.0001	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-DCB)	mg/L	0.6	0.0005	0.6	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-DCB)	mg/L	0.005	0.0005	0.006	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	mg/L	0.005	0.0005	0.003	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	mg/L	0.0005	0.0005	0.0004	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	mg/L	0.006	0.0005	0.01	ND	ND	ND	ND	ND	ND
cis-1,2-Dichlorethylene (c-1,2-DCE)	mg/L	0.006	0.0005	0.013	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene (t-1,2-DCE)	mg/L	0.01	0.0005	0.05	- ND	ND	ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	mg/L	0.005	0.0005	0.004	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	mg/L	0.005	0.0005	0.0005	ND	ND	ND	ND	ND	ND
1,3-Dichloropropene	mg/L	0.0005	0.0005	0.0002	ND	ND	ND	ND	ND	ND
Ethylbenzene	mg/L	0.3	0.0005	0.3	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE) (4)	mg/L	0.013	0.003	0.013	ND	ND	ND	ND	ND	ND
Monochlorobenzene (Chlorobenzene)	mg/L	0.07	0.0005	0.07	ND	ND	ND	ND	ND	ND
Styrene	mg/L	0.1	0.0005	0.0005	ND	ND	ND	ND	ND	ND -
1,1,2,2-Tetrachloroethane	mg/L	0.001	0.0005	0.0001	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	mg/L	0.005	0.0005	0.00006	ND	ND	ND	ND	ND	ND
Toluene	mg/L	0.15	0.0005	0.15	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/L	0.005	0.0005	0.005	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	mg/L	0.2	0.0005	1.0	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	mg/L	0.005	0.0005	0.0003	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	mg/L	0.005	0.0005	0.0017	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	mg/L	0.15	0.005	1.3	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	mg/L	1.2	0.01	4	ND	ND	ND	ND	ND	ND
Vinyl Chloride (VC)	mg/L	0.0005	0.0005	0.00005	ND	ND	ND	ND	ND	ND
Xylenes (m,p, & o)	mg/L	1.75	0.0005	1.8	ND	ND	ND	ND	ND	ND

Caisson 1

Caisson 2

Caisson 3

Caisson 4

Caisson 5

Caisson 6

2019 Water Quality Sampling Results

				SONOMA	A WATER ¹	SANTA	ROSA ²	
Substance (Parameter)	Public Health Goal (MCLG)	DLR	Maximum Contaminant Level	Range Detected	Reporting Value	Range Detected	Reporting Value	Major Source In Drinking Water
RIMARY STANDARDS Detected I	Regulated Contaminan	ts with Primary	MCLs or MRDLs					
HOREANIC CONTAMINANTS Fluoride (pom) ²	1	0.1	4.0	ND	ND	0.19-0.22	0.2	Erosion of natural deposits
								Runoft/leaching from fertilizer use:
Nitrate (as N ppm)	1	0.4	1	ND	ND	ND	ND	leaching from septic tanks and sewage; erosion of natural deposits
OSTRIBUTION SYSTEM DETECTION	ON\$ 2019							
MICROBIOLOGICAL CONTAMINANTS								
Total Coliform Bacteria from Santa Rosa Distribution System	0		5% of monthly samples	NA	NA	0%-0.61%	0%	Naturally present in the environment
Total Trihalomethanes (ppb)	NS		80	NA	NA	19.2-35.4	28.6	By-product of drinking water chlorination
Haloacetic Acids (ppb)	NS		60	NA	NA	6.8-15.0	9.5	By-product of drinking water chlorination
Disinfectant-Free Chlorine (Cl ₂) Residual (ppm)	MRDLG as Cl, 4.0		MRDLG as Cl ₂ 4.0	NA	NA	0.25-1.86	1.06	Disinfectant to control microbes
pH (units) prior to pH adjustment	NS		NS	7.35-7.61	7.4	7.69-8.5	8.2	Sodium Hydroxide addition
Benzene (ppb)	0.15	.5	1	ND	ND	ND	ND	Discharge from plastics, dyes and nylon factories; leaching from gas storage tanks and landfills
LEAD/COPPER RULE 2019 DATA	Monitored at cus	stomer's tap.	# of sites exceed	ding action level	=0 #of sample	es collected=50	# of schools sai	
Copper (ppm)	0.3	0.05	1.3 (AL)	ND	ND	0.011-0.171	0.105*	Internal corrosion of household
	0.2	5	15 (AL)	ND	ND	0.2-5.3	1.8*	plumbing; erosion of natural deposits
			vel=0 # of samp					
EKE SENYGING IN SCHOOLS ECONDARY STANDARDS Aesthe	# of sites exceed	fing action le	vel=0 # of samp	iles collected=3 trol Board's Divisio	133 # of schools n of Drinking Water	sampled=31		
END SIMPLINE IN SCHOOLS RECONDARY STANDARDS Aresthe REGULATED CONTAMINANTS WITH SECUNDARY MILE Threshold Odor Number	# of sites exceed	fing action le	vel=0 # of samp Water Resources Con	iles collected=3 trol Board's Divisio	133 # of schools n of Drinking Water	sampled=31	ND	Naturally occurring organic materials
EXECUTION STANDARDS Assibe REGULATED CONTAINMANTS WITH SECONDARY MCLS [Threshold Odor Number (TOW) at 60°C	# of sites exceed fic Standards Establish There are no add	fing action let hed by the State rerse health e	rel=8 # of samp Water Resources Con ffects from exceed	iles collected=3 trol Board's Divisio ling the seconda	33 # of schools n of Drinking Water ry (aesthetic) sta	sampled=31 odards.		
EXPENSIVE RECOMDARY STANDARDS Assiste REQUIRATE CONTAMINATES REQUIRATE CONTAMINATES Fireshold Odor Number TOWN at 60°C Chloride (ppm)	# of sites exceed tic Standards Establish There are no adv NS	fing action let hed by the State rerse health e	rel=0 # of samp Water Resources Con Hocts from exceeds	iles collected=3 trol Board's Divisio ling the secondar ND	33 # of schools n of Drinking Water ry (aesthetic) sta ND	sampled=31 odards. NO	ND	Run-off/leaching from natural deposits
CARE SEMPCINE R COMBARY STANDARDS Aesther REGISLATED COSTOMINANTS BITH SECONDARY MCLS [Threshold Odor Number [TOWN at 600" C Chloride (ppm) Sulfate (ppm) Specific Conductance	# of sites exceed tic Standards Establish There are no adv NS	ling action let hed by the State rorse health a	rel=0 # of samp Water Resources Con ffects from exceed 3 500	trel Beard's Divisio ling the seconda ND 4.7-5.6	# of schools n of Drinking Water ry (aesthetic) sta ND 5.0	sampled=31 odards. NO 17.6-23.8	ND 20.7	Run-off/leaching from natural deposits Run-off/leaching from natural deposits
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Questions?



