#### WORKING HARD FOR YOU

Under the Safe Drinking Water Act (SDWA), USEPA is responsible for setting national limits for hundreds of substances in drinking water and also specifies various treatments that water systems must use to remove these substances. In California, each system continually monitors for these substances and reports directly to the State Water Resources Control Board (SWRCB) if they were detected in the drinking water. USEPA uses this data to ensure that consumers are receiving good water and to verify that states are enforcing the laws that regulate drinking water.

This publication conforms to the regulation under SDWA requiring water utilities to provide detailed water quality information to each of their customers annually. We are committed to providing you with this information about your water supply because customers who are well informed are our best allies in supporting improvements necessary to maintain the highest drinking water

#### COMMUNITY PARTICIPATION

You are invited to participate in our public forum and voice your concerns about your drinking water. We meet on the first and third Tuesday of every month beginning at 6:00 p.m. at the City Council Chambers, 383 Main Street,

Este reporte contiene informacion sobre su aqua potable. Si uste no lo entendio, pida que sea traducido por un amigo o alguien que lo entienda.

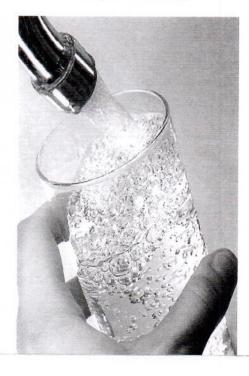
EPA Call U.S. EPA's Safe Drinking Water Hotline at 1-800-426-4791

PAID CENTRO, CA

2016 Water Quality Report



Proudly Prepared By City of Brawley



City of Brawley Water Treatment Plant 760 Willard Avenue

Brawley, CA 92227

## Where Does My Water Come From?

The City of Brawley customers are fortunate because we enjoy an abundant water supply from the Colorado River. The Water Treatment Plant receives water form the Central Main Canal via the All American Canal.

### Substances Expected to be in Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems. agricultural livestock operations, and wildlife.

Inorganic Contaminants, such as salts and metals, that can be naturally occurring or result from urban storm water

runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming,

Pesticides and Herbicides, that may come from a variety of sources such as agriculture, urban stormwater runoff, and

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems,

Radioactive Contaminants, that can be naturally occurring or be the result of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (SWRCB) prescribed regulations that limit the amount of certain contaminants in water provided by public water systems. SWRCB regulations also establish limits for contaminants in bottled water, they must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained be calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

### Special Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/CDC (Centers for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791)





### Mark of Excellence

Since the beginning, City of Brawley's goal has been to produce the highest quality drinking water for all its customers, we are proud of our history of quality service. To maintain our commitment to you, our water treatment staff routinely collects and test water samples every step of the way- from the water source right into the distribution system and into your home checking purity and identifying potential problems. Our Water Treatment Division constantly maintains, evaluates and stays abreast of advances in technology, health science and government regulations. Staffed by trained technicians, the lab has latest, most sophisticated instruments, and can measure some substances down to one part per billion. In addition, the City has a comprehensive Cross -Connection Control Program. This program ensures that your water is free from cross contamination from backflow or back siphonage. Through foresight and planning, efficiency in operations, and focus on excellence in customer service, we will provide you the best quality drinking water at an economical price

For more information about this report, or for any questions relating to your drinking water, please call Rodolfo Nunez, Water Treatment Plant Chief, at 760-344-2698

# What's Inside?

This report outlines the processes involved in delivering to you the highest quality drinking water available. We will answer two important questions:

\*Where does my water come from? \*What is in my drinking water?

Also, we will provide you with information about available resources that will answer other questions on water quality and health effects.

# What's In My Water?

We are pleased to report that during the past year, the water delivered to your home or business complied with all of the state and federal drinking water requirements. For your information, we have compiled a list in the table below. We feel it is important that you know exactly what was detected and how much of the substance was present in the water. The state requires us to monitor for certain substances less than once per year because the concentration of these substances do not change frequently. We are pleased to present you the 2016 water quality report.



Chemical or Constituent (and reporting units)	Sample Date	(Average) Level Detected	Range of Results	Sample Date	(Average) Level detected	Range of Results		PHG (MCLG)(MRD	Violation	Typical Source of Contaminant
		Raw water	•	Treated W.			MCL (MRDLG)	(MCLG)(MRD		1. Blazer contra as constitutioning
DETECTION OF	CONTAMIN	ANTS W	ITH A PE	RIMARY D	RINKING	WATER	R STANDARD r	egulated	to prote	ect against possible health effects
Aluminum (ppb)	4 Quarterly samples in 2016	255	150-340	12 monthly samples in 2016	<50	0~50	1000	600	N/A	Erosion of natural deposits, residue from some surface water treatment processes.
Gross Alpha (pCl/L)	2016	13	N/A	N/A	N/A	N/A	15	0	N/A	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation.
Uranium (pCl/L)	2016	3.2	N/A	N/A	N/A	N/A	20	0	N/A	Erosian of natural deposits
Barium (ppm)	2016	0.13	N/A	N/A	N/A	N/A	1	2	N/A	Discharge of oil drilling wastes and from metal refineries, erosion of natural deposit.
Fluoride (ppm)	2016	0.38	N/A	N/A	N/A	N/A	2	1	N/A	Erosion of natural deposits, water additive that promotes strong teeth, discharge from fertilizer and aluminium factories.
Turbidity (ntu)	N/A	N/A	N/A	2016	.05/100%	N/A	IT=1NTU/TT=95% of samples <0.3ntu	N/A	N/A	Sail runoff
	Turbidity (measure compliance with fill	d in NTU) is a m	reasurement of	f the cloudiness o	f water and is a	good indicate	The second second	ation performance	ce. Turbidity r	esults which meet performance standards are considered to be in
				12 monthly						
Aluminum (ppb)	4 Quarterly samples in 2016	255	140-360	samples in 2016	<50	6-<50	200	NO	NE	Erosion of natural deposits, residue from some surface water treatment processes.
		255 170	140-360	samples in	<50	0-<50 <20-50	200	NO:		
Aluminum (ppb) ron (ppb) Color (unfiltered)	in 2016 4 quarterly samples			samples in 2016 12 monthly samples in					NÉ	treatment processes.
ron (ppb) Color (unfiltered)	in 2016 4 quarterly samples in 2016	170	190-350	samples in 2016 12 monthly samples in 2016	23	<20-50	300	NO	NE A	treatment processes.  Leaching from natural deposits, industrial wastes.
ron (ppb) Color (unfiltered) urbidity (ntu)	in 2016 4 quarterly samples in 2016	170	190-350 N/A	samples in 2016 12 monthly samples in 2016 N/A	23 N/A	<20-50 N/A	300 15	NOI N/	NÉ A	treatment processes.  Leaching from natural deposits, industrial wastes.  Naturally-occurring organic materials
ron (ppb) Color (unfiltered) Furbidity (ntu) Chloride (ppm)	n 2016 4 quarterly samples in 2016 2016	170 10	190-350 N/A 6.5-27.14	samples in 2016 12 monthly samples in 2016 N/A N/A	N/A	<20-50 N/A N/A	300 15	NOI N/	NE A A	treatment processes.  Leaching from natural deposits, industrial wastes.  Naturally-occurring organic materials  Soil runoff
ron (ppb) Color (unfiltered) Curbidity (ntu) Chloride (ppm) Odor Threshold pedific Conductance	n 2016 4 quarterly samples in 2016 2016 2016 2016	170 10 16.7	190-350 N/A 6.5-27.14 N/A	samples in 2016 12 monthly samples in 2016 N/A N/A	23 N/A N/A	<20-50 N/A N/A N/A	300 15 5 500	NOI N/ N/ N/	NE A A	treatment processes.  Leaching from natural deposits, industrial wastes.  Naturally-occurring organic materials  Soil runoff  Naturally-occurring organic materials  Naturally-occurring organic materials
ron (ppb)	n 2016 4 quarterly samples in 2016 2016 2016 2016 2016	170 10 16.7 110	190-350 N/A 6.5-27.14 N/A N/A	tamples in 2016 12 monthly samples in 2016 N/A N/A N/A	23 N/A N/A N/A	<20-50 N/A N/A N/A	300 18 5	NOI N/ N/	NE A A A	treatment processes.  Liacking from natural deposits, industrial wastes.  Naturally-occurring organic materials  Soil runoff  Naturally-occurring organic materials  Naturally-occurring organic materials  Substances that form ions when in water, soawater influence.
ron (ppb)  Color (unfiltered)  Turbióty (ntu)  Chloride (ppm)  Odor Threshold  (pecífic Conductance umhox/cm)	n 2016 4 quarterly samples in 2016 2016 2016 2016 2016 2016 2016 2016	170 10 16.7 110 1	190-350 N/A 6.5-27.14 N/A N/A	samples in 2016 12 monthly samples in 2016 N/A N/A N/A	23 N/A N/A N/A N/A	<20-50 N/A N/A N/A N/A	300 15 5 500 3	NOI N/	NE A A A A	Deathment processes.  Liaching from natural deposits, industrial wastes.  Naturally-occurring organic materials  Soil nunoff  Naturally-occurring organic materials  Naturally-occurring organic materials  Substances that form ions when in water, soawater influence.  Runoff/leaching from natural deposits, industrial wastes.
ron (spb)  Color (unfiltered)  Turbidity (ntu)  Chloride (ppm)  Odor Threshold  pecific Conductance unhay(cm)  valfate (ppm)  outs Filterable Residue (tds)	n 2016 4 quarterly samples in 2016 2016 2016 2016 2016 2016 2016 2016	170 10 16.7 110 1 1100 270 690	190-350 N/A 6-5-27-14 N/A N/A N/A N/A	samples in 2016 2016 12 monthly samples in 2016 N/A N/A N/A N/A N/A N/A	23 N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	300 15 5 500 3 1800	NO N/ N/ N/ N/ N/	NE A A A A	treatment processes.  Liacking from natural deposits, industrial wastes.  Naturally-occurring organic materials  Soil runoff  Naturally-occurring organic materials  Naturally-occurring organic materials  Substances that form ions when in water, soawater influence.
ron (ppb)  Color (unfiltered)  Turbidity (ntu)  Chloride (ppm)  Odor Threshold  specific Coneutaince  umhos/cm)  otal filterable Residue (tds)	n 2016 4 quarterly samples in 2016 2016 2016 2016 2016 2016 2016 2016	170 10 16.7 110 1 1100 270 690	190-350 N/A 6-5-27-14 N/A N/A N/A N/A	samples in 2016 2016 12 monthly samples in 2016 N/A N/A N/A N/A N/A N/A	23 N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	300 15 5 500 3 1800	NOI N/A N/A N/A N/A N/A	NE A A A A A	Deathing from natural deposits, industrial wastes.  Naturally-occurring organic materials  Soil nunoff  Naturally-occurring organic materials  Naturally-occurring organic materials  Substances that form ions when in water, seawater influence.  Runoff/leaching from natural deposits, industrial wastes.
ron (spb)  Color (unfiltered)  Purbidity (ntu)  Chloride (ppm)  Odor Threshold  geoffic Conductance  winths/cim)  oftal filterable Residue (tds)  DISINFECTION B	# 2016  4 quarterly samples in 2016  2016  2016  2016  2016  2016  2016  2016  2016  2016  2016  2016  2016  2016	170 10 16.7 110 1 1100 270 690 S,DISINF	190-350 N/A 6.5-27.14 N/A N/A N/A N/A SCTANT	tamples in 2016 12 monthly samples in 2016 N/A N/A N/A N/A N/A N/A RESIDUA	23 N/A N/A N/A N/A N/A N/A N/A N/A N/A	<20-50 N/A N/A N/A N/A N/A N/A	300 15 5 500 3 1800 500	NO N/ N/ N/ N/ N/	NE A A A A	treatment processes.  Leaching from natural deposits, industrial wastes.  Naturally-occurring organic materials  Soil runoff  Naturally-occurring organic materials  Naturally-occurring organic materials  Substances that form sons when in water, souwater influence.  Runoff/leaching from natural deposits, industrial wastes.  Runoff/leaching from natural deposits.

SUBSTANCE (UNITS)	YEAR SAMPLED	REGULATORY ACTION LEVEL	PHG	AMOUNT DETECTED	HOMES ABOVE RAL	VIOLATION	TYPICAL SOURCE
COPPER (PPM)	2014	1.3	0.3	0.100	0	NO	Internal corrosion of household water plumbing systems, Erosion of natural deposits, Leaching from wood preservatives.
Lead (ppb)	2014	15	0.2	<.005	0	NO	Internal corrosion of household water plumbing systems, Discharged from industrial manufacturers, Erosion of natural deposits.
		VIOLA	TION O	F A MCL, MRDL,	AL,TT, OR MO	NITORING	G AND REPORTING REQUIREMENT
/iolation	Explanation Durat		Duration	Action taken to Correct the Violation		Health Effect	s Language
Vo Violations							

UNREGULATI	ED CONTAMINANTS, O'	Typical Source of Contaminant				
Substance	Year sampled Amount Detection		cted Source			
Calcium (ppm)	2016	82		Leaching from natural deposits.		
Potassium (ppm)	2016	5.3		Runoff/leaching from natural deposits		
Ph (ph units)	2016	8.3		a measure of the acidity and alkalinity.		
Sodium (ppm)	2016	120		Runoff/leaching from natural deposits		
Total Hardness (ppm)	2016	330		Runoff/leaching from natural deposits		
Alkalinity (ppm)	2016	150	No.	Is a measure of the ability of a solution to neutralize acids		
Magnesium (ppm)	2016	30		Naturally occurring mineral.		
Bicarbonate (ppm)	2016	190	0	Naturally occurring mineral.		
Boron (ppm)	2016	0.082	NL=1ppm	Runoff/Reaching from natural deposits.		
Vanadium(ppb)	2016	3.6	NL=50ppb	Runoff/leachingfrom natural deposits		
		DEFI	NITIONS T	ABLE		

- NTU: (Nephelometric Turbidity Units): Measurement of the clarity, or turbidity, of water.
- (parts per million): One part per million (or milligrams per liter)
- pCi/Li Picocuries per Liter (a measure of radiation).
- MRDL: (Maximum Residual Disinfectant Level): The highest level of a disinfectant allowed in drinking water. There is contact addition of a disinfectant is necessary for control of microbial contaminants.
- MORIG: (Maximum Residual Disinfectant Level Goal): The level of drinking water disinfectant below which there is no risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminant
- Not Detected
- (Regulatory Action Level): The concentration of a contaminant, which, if exceeded, triggers treatment or other require water system must follow.
- (Maximum contaminant Level): The highest level of a contaminant that is allowed in drinking water. Print to the PHGs (or MCLGs) economically and technologically feasible. Secondary MCLs (2nd MCL are set to and appearance of drinking water. MCL:
- MCLG: (Maximum Contaminant Level Goal): The level of a contaminant in drinking water to health. MCLGs are set by the USEPA.
- Public Health Gool! The level of a contaminant in drinking water below which there is no known or expected risk to he PMSs are set by the CEPA. Drinking Water Standard or POWS: MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.
- (Treatment Technique): A required process intended to reduce the level of a contaminant in diriking water
- Not applicable

### DISINFECTION BYPRODUCTS

Public water systems using chlorine as their primary disinfectant are required by the USEPA and SWRCB to monitor for disinfection by-products. These disinfectants react with natural occurring organic material in the water to produce a variety of DBPs. Among these DBPs are TTHMS and HAA5. Our quarterly sample analysis has shown results below the MCL. If you would like more information or have concerns, please contact our office.

A source water assessment was conducted for the CENTRAL MAIN CANAL of the City of Brawley water system in October, 2016. This source is considered most vulnerable to these activities for which no associated contaminant has been detected; concentrated animal feeding operations, agricultural activities such as pesticide use and farm chemical distribution, mining, geothermal wells, landfills/dumps, and illegal dumping, a copy of the assessment may be viewed at our Water Treatment Plant Facility located at 760 Willard Avenue, Brawley, CA.

### LEAD IN DRINKING WATER

LEAD IN DRINKING WATER
In 2014, the City of Brawley was required to sample 30 homes for lead and copper. The results of these samples showed levels below the Regulatory Action Level set by the EPA and Water Boards. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. City of Brawley is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at Website: www.epa.gov/safewater/lead.

### INFORMATION ON THE INTERNET

WEB SITES PROVIDE A SUBSTANTIAL AMOUNT OF INFORMATION ON MANY ISSUES RELATING TO WATER RESOURCES, WATER BOARDS HAS A WEB SITE (WWW.SWRCB.CA.GOV) THAT PROVIDES COMPLETE AND CURRENT INFORMATION ON WATER ISSUES IN OUR STATE. FOR ADDITIONAL WATER CONSERVATION INFORMATION YOU CAN VISIT THE CITY OF BRAWLEY WEBSITE AT: HTTP:/WWW.BRAWLEY-CA.GOV

