Consumer Confidence Report 2019

Yokosuka Main Base
Drinking Water System

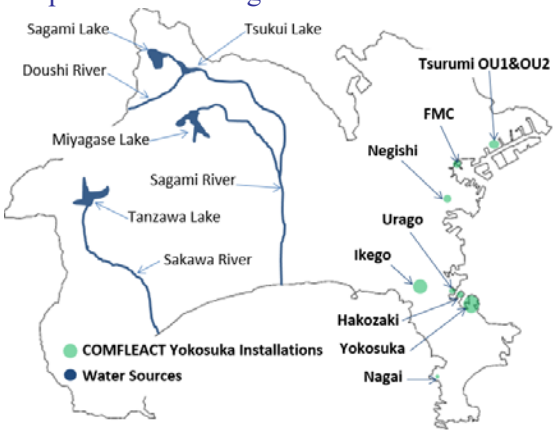
Commander, Fleet Activities Yokosuka

Issued in accordance with Commander, Navy Installations Command Instruction 5090.1A, N4, 29 Jun 2018.
This report reflects monitoring data collected in 2019 and will be updated annually.

The Navy is pleased to provide you with this annual Consumer Confidence Report (CCR) of the Drinking Water System that supports Yokosuka Main Base. This report provides information about the water delivered to Yokosuka Main Base in 2019. It describes where our water comes from, what it contains, and how it compares to standards for safe drinking water. The drinking water at Yokosuka is safe to drink. Our goal is, and always has been, to provide safe and dependable drinking water.

Source of Water

Drinking water at Yokosuka Main Base is combined surface water from the Sagami River and the Sakawa River purchased from the Yokosuka City Waterworks and Sewerage Bureau. The supplier filters and chlorinates the drinking water with a conventional rapid sand filtration system before providing to Yokosuka Main Base.



Water Distribution Systems

Commander, Fleet Activities (COMFLEACT) Yokosuka Public Works Department (PWD) operates the water distribution system servicing our area. In Yokosuka, purchased water is temporarily stored in tanks, and the water provided to the housing areas is fluoridated prior to distribution.

Compliance with Drinking Water Requirements

U.S. Navy overseas installations are required to meet or exceed National Primary Drinking Water regulations promulgated under the Safe Drinking Water Act of 1974, which was adopted by Commander, Navy Installations Command (CNIC) Instruction 5090.1 A and are the same standards used in the U.S. to ensure safe drinking water. COMFLEACT, Yokosuka is also required to meet all criteria established in the latest Japan Environmental Governing Standards (JEGS), intended to ensure DoD activities and installations in Japan protect human health and the natural environment through the promulgation of specific environmental compliance criteria.

The Installation Commanding Officer has established an Installation Water Quality Board (IWQB) tasked with ensuring there is a reliable supply of drinking water for all persons using FLEACT, Yokosuka facilities. IWQB is currently taking steps to meet all requirements of the Navy's Overseas Drinking Water (ODW) program, and the Regional Water Quality Board granted COMFLEACT Yokosuka a Conditional Certificate To Operate (CTO) for its water systems. COMFLEACT Yokosuka is expected to receive a Full CTO when all significant deficiencies identified during the Sanitary Survey are corrected. All deficiencies have either been corrected or are in the process of implementing corrective actions.

Source Water Assessment

The Navy Water Quality Oversight Council (WQOC) conducts a comprehensive sanitary survey of the FLEACT Yokosuka drinking water systems every three years. This survey provides an evaluation of the adequacy of the drinking water source, facilities, equipment, operation and maintenance for producing and distributing safe drinking water. In addition to sanitary surveys, Public Works Department regularly conducts environmental audits to verify compliance. FLEACT Yokosuka is continually improving the drinking water system based on the recommendations in the report. The next comprehensive sanitary survey is scheduled in 2020.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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. U.S. Environmental Protection Agency (EPA) and Centers for Disease Control and Prevention guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Variance and Exemptions

U.S. Navy overseas drinking water (ODW) systems are required to use accredited laboratories that use U.S. Environmental Protection Agency (EPA) approved analytical methods. The Japanese contracted laboratory, which FLEACT Yokosuka used for Drinking water monitoring for coliform and nitrate/nitrite analyses was not accredited in accordance with WQOC policy. Instead of U.S. EPA method standards, the laboratory used equivalent Japanese methods to conduct analysis. In May 2020, the WQOC Laboratory authority granted a variance that the Japanese laboratory successfully demonstrates additional quality control measures into their analysis to meet U.S. EPA method standards.

Possible Source of Contaminants

Drinking water, including bottled water, may reasonably be expected to contain trace amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline at 1-800-426-4791 or visiting the EPA website at https://www.epa.gov/dwstandardsregulations/drinking-water-contaminant-human-health-effects-information

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. It can also pick up other contaminants resulting from the presence of animals or human activity. Contaminants that may be present in source water include;

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production. They can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which 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, USEPA and the JEGS prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in US-sourced bottled water which must provide the same protection for public health.

Other Potential Contaminants

Lead

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. When your water has been sitting for several hours, you can further minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water for drinking or cooking. Drinking water samples are collected from consumer taps including family housing units to analyze for lead annually. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead

Lead in Priority Areas

In an effort to reduce children's potential exposure to lead, priority areas facility's drinking water was tested to establish a baseline in 2014 to include all Department of Defense Schools, Child Development Centers and Youth Centers. All drinking water outlets are re-tested every five years or whenever outlets are added or replaced. In 2018, five year recurring sampling continued at Yokosuka Main Base and drinking water samples were collected from water outlets at all DoD schools and youth and child program facilities.

In March 2019, the WQOC issued a new LIPA policy that lowered the Lead screening level from 20 parts per billion (ppb) to 15 ppb. Effective April 2019, the policy required corrective actions for any outlets that previously tested at 15 ppb or greater. Data from the last five-year recurring sampling at Yokosuka Main Base and Ikego Housing Area was reviewed to determine if outlets needed to be replaced. All drinking water outlets exceeding the EPA recommended screening level of 15 ppb were immediately taken out of service. Corrective actions are currently in progress for those outlets that do not meet the latest screening level. They will remain out of service until permanent corrective actions are complete and confirmation of lead level by follow up testing.

The latest test results are available at the following link:
https://www.cnic.navy.mil/regions/cnrj/installations/cfa_yokosuka/om/environmental/water-quality-information/cfay-lead-in-priority-area-sampling-program.html.

Water samples were also collected from locations listed in the table below after individual replacement of drinking water outlets. These water outlets were replaced due to mechanical problems such as water leak or low water pressure and not because of lead exceedances.

Lead in Priority Areas Individual Replacement Drinking Water Sample Results		
Location	**Sample Date**	**Results (ppb)**
Yokosuka Middle School Bldg. 4372 1F Storage 147C Faucet (ID# F074-1F)	1/29/2019	7.6
Yokosuka Middle School Bldg. 4372 1F Storage 147C Faucet (ID# F074-2F)	1/29/2019	ND
Yokosuka Middle School Bldg. 4373 3F Classroom 312 Faucet (ID# F177-1F)	1/29/2019	4.7
Yokosuka Middle School Bldg. 4373 3F Classroom 312 Faucet (ID# F177-2F)	1/29/2019	ND
Yokosuka Middle School Bldg. 4373 2F Classroom 137 Faucet (ID# F062)	4/11/2019	4.6
Kinnick High School Bldg. 1901 3F Corridor Cooler (ID# C131)	6/6/2019	1.9
Sullivans Elementary School Bldg. 9000T 2F Classroom Cooler (ID#B018)	1/23/2019	1.7
Sullivans Elementary School Bldg. 9000T 2F Corridor Cooler (ID#C015) B018	9/4/2019	ND

Drinking Water Monitoring

COMFLEACT, Yokosuka uses Japanese and EPA approved laboratory methods to analyze our drinking water, and monitors drinking water for the following constituents.

Constituent	Frequency
pH, Residual Chlorine, Turbidity	Hourly
Fluoride	Daily
Total Coliform	Monthly
Disinfection Byproducts (Total Trihalomethanes and Haloacetic Acids)	Quarterly
Lead and Copper	Annually
Inorganic Chemicals	Annually / Quarterly[1]
Volatile Organic Compounds	Annually
Pesticides and PCBs	Once every 3 years
Radionuclides	Once every 3 years
Asbestos	Once every 9 years

Note:

1. Surface water baseline monitoring frequency for Total Nitrate/Nitrite

Water Quality Data

The table in the following section lists constituents detected during the latest round of required sampling. Only those constituents detected are listed. The presence of a contaminant does not necessarily indicate the water poses a health risk. As such, Yokosuka Main Base's drinking water is safe and fit for human consumption.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Range		Sample Date	Violation	Typical Source
			Low	High			
Disinfectants & Disinfection By-Products							
Residual Chlorine (ppm)	4	4[1]	0.27	.79	2019	No[2]	Disinfectant water additive to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	9	20.2	2019	No	By-product of drinking water chlorination
TTHMs (Total Trihalomethanes) (ppb)	NA	80	2.3	39.2	2019	No	By-product of drinking water disinfection
Inorganic Contaminants							
Fluoride (ppm)	4	4	0.08	0.71	2019	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate [measured as Nitrogen] (ppm)	10	10	0.8	0.8	2019	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)	NA	NA	6.6	7.4	2019	No	Erosion of natural deposits; Leaching
Volatile Organic Contaminants							
Toluene (ppm)	1	1	ND	0.00027	2019	No	Discharge from petroleum factories
Microbiological contaminants							
Total coliform	0	More than one positive	Negative	Positive	2019	Yes[3]	Naturally present in the environment

Notes:

1. Residual Chlorine - Maximum Residual Disinfectant Level.
2. Chlorine residual should be maintained at a minimum of 0.2 mg/L to ensure against bacteriological growth in the distribution system. No bacteria has ever been detected in the drinking water.
3. Two (2) of our samples showed the presence of total coliform bacteria in June 2019. The standard is that no more than one (1) sample per month may do so. Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed, and this was a warning of potential problems. Public Works Department completed follow-up testing to see if other bacteria of greater concern, such as fecal coliform or E. coli, are present. We did not find any of these bacteria in our subsequent testing confirming the problem has been resolved.

Contaminants	MCLG	AL	90th percentile	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
Inorganic Contaminants							
Copper (ppm)	1.3	1.3	0.046	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	0	15	1.1	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Abbreviations and Definitions:

AL: Action Level. The concentration of a contaminant in water that establishes the appropriate treatment for a water system. AL is based on a 90th percentile value.

MCL: Maximum Contaminant Level. The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG: Maximum Contaminant Level Goal. The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MRDL: Maximum Residual Disinfectant Level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG: Maximum Residual Disinfection Level Goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA: Not applicable.

ND: Not Detected.

ppm: parts per million, or milligrams per liter (mg/L).

ppb: parts per billion, or micrograms per liter (µg/L).

TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

90th percentile: Represents the highest value found out of 90 percent of the samples taken. If the 90th percentile value is greater than the AL, a treatment evaluation and/or mitigation actions must be conducted on the water system.

Point of Contact

Contact PWD Environmental for additional information or questions:
Yoshiaki Kanazawa at 243-6460Yoshiaki.Kanazawa.ja@fe.navy.mil or
Loreal Spear at 243-9520 Loreal.spear@fe.navy.mil

Consumer Confidence Report 2019

Ikego Housing Area
Drinking Water System

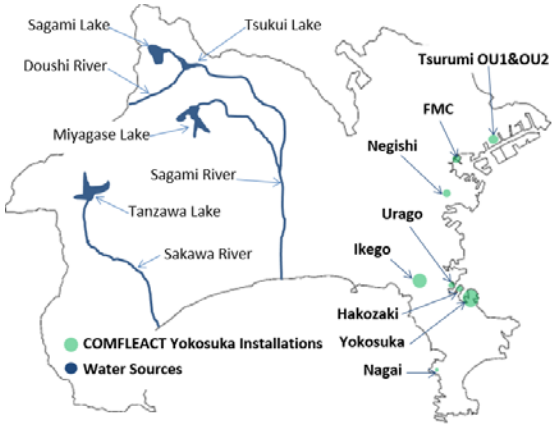
Commander, Fleet Activities Yokosuka

Issued in accordance with Commander, Navy Installations Command Instruction 5090.1A, N4, 29 Jun 2018.
This report reflects monitoring data collected in 2019 and will be updated annually.

The Navy is pleased to provide you with this annual Consumer Confidence Report (CCR) of the Drinking Water System that supports Ikego Housing Area. This report provides information about the water delivered to Ikego in 2019. It describes where our water comes from, what it contains, and how it compares to standards for safe drinking water. The drinking water at Ikego Housing Area is safe to drink. Our goal is, and always has been, to provide safe and dependable drinking water.

Source of Water

Drinking water at Ikego Housing Area is surface water from the Sagami River purchased from the Kanagawa Prefectural Waterworks. The supplier filters and chlorinates the drinking water with a conventional rapid sand filtration system before providing to Ikego Housing Area.



Water Distribution Systems

Commander, Fleet Activities (COMFLEACT) Yokosuka Public Works Department (PWD) operates the water distribution system servicing our area. In Ikego Housing Area, purchased water is temporarily stored in tanks and fluoridated prior to distribution.

Compliance with Drinking Water Requirements

U.S. Navy overseas installations are required to meet or exceed National Primary Drinking Water regulations promulgated under the Safe Drinking Water Act of 1974 which was adopted by Commander, Navy Installations Command (CNIC) Instruction 5090.1 A and are the same standards used in the U.S. to ensure safe drinking water. COMFLEACT, Yokosuka is also required to meet all criteria established in the latest Japan Environmental Governing Standards (JEGS), intended to ensure DoD activities and installations in Japan protect human health and the natural environment through the promulgation of specific environmental compliance criteria.

The Installation Commanding Officer has established an Installation Water Quality Board (IWQB) tasked with ensuring there is a reliable supply of drinking water for all persons using FLEACT, Yokosuka facilities. IWQB is currently taking steps to meet all requirements of the Navy's Overseas Drinking Water (ODW) program and the Regional Water Quality Board granted COMFLEACT Yokosuka a Conditional Certificate To Operate (CTO) for its water systems. COMFLEACT Yokosuka is expected to receive a Full CTO when all significant deficiencies identified during the Sanitary Survey are corrected. All deficiencies have either been corrected or are in the process of implementing corrective actions.

Source Water Assessment

The Navy Water Quality Oversight Council (WQOC) conducts a comprehensive sanitary survey of the FLEACT Yokosuka drinking water systems every three years. This survey provides an evaluation of the adequacy of the drinking water source, facilities, equipment, operation and maintenance for producing and distributing safe drinking water. In addition to sanitary surveys, Public Works Department regularly conducts environmental audits to verify compliance. FLEACT Yokosuka is continually improving the drinking water system based on the recommendations in the report. The next comprehensive sanitary survey is scheduled in 2020.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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. U.S. Environmental Protection Agency (EPA) and Centers for Disease Control and Prevention guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Variance and Exemptions

U.S. Navy overseas drinking water (ODW) systems are required to use accredited laboratories that use U.S. Environmental Protection Agency (EPA) approved analytical methods. The Japanese contracted laboratory, which FLEACT Yokosuka used for Drinking water monitoring for coliform and nitrate/nitrite analyses was not accredited in accordance with WQOC policy. Instead of U.S. EPA method standards the laboratory used equivalent Japanese methods to conduct analysis. In May 2020, the WQOC Laboratory authority granted a variance that the Japanese laboratory successfully demonstrates additional quality control measures into their analysis to meet U.S. EPA method standards.

Possible Source of Contaminants

Drinking water, including bottled water, may reasonably be expected to contain trace amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline at 1-800-426-4791 or visiting the EPA website at https://www.epa.gov/dwstandardsregulations/drinking-water-contaminant-human-health-effects-information

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. It can also pick up other contaminants resulting from the presence of animals or human activity. Contaminants that may be present in source water include;

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production. They can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which 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, USEPA and the JEGS prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in US-sourced bottled water which must provide the same protection for public health.

Other Potential Contaminants

Lead

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. When your water has been sitting for several hours, you can further minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water for drinking or cooking. Drinking water samples are collected from consumer taps including family housing units to analyze for lead annually. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead

Lead in Priority Areas

In an effort to reduce children's potential exposure to lead, priority areas facility's drinking water was tested to establish a baseline in 2014 to include all Department of Defense Schools, Child Development Centers and Youth Centers. All drinking water outlets are re-tested every five years or whenever outlets are added or replaced. The latest five year recurring sampling results are available at following link: https://www.cnic.navy.mil/regions/cnrj/installations/cfa_yokosuka/om/environmental/water-quality-information/cfay-lead-in-priority-area-sampling-program.html.

In March 2019, the WQOC issued a new LIPA policy that lowered Lead screening level from 20 ppb to 15 ppb. Effective April 2019, the policy required corrective actions for any outlets that previously tested at 15 ppb or greater. Data from the last five year recurring sampling was reviewed to determine if outlets needed to be replaced. All outlets in Ikego Priority Areas met the recommended screening level of 15 parts per billion (ppb) for lead.

In 2019, water samples were collected from locations listed in the table below after individual replacement of drinking water outlets. These water outlets were replaced due to mechanical problems such as water leak or low water pressure and not because of lead exceedances.

Lead in Priority Areas Individual Replacement Drinking Water Sample Results		
Location	**Sample Date**	**Results (ppb)**
Ikego Elementary School Bldg. 824 3F Corridor 2 Cooler (ID# C114)	6/14/2019	0.63

Drinking Water Monitoring

COMFLEACT, Yokosuka uses Japanese and EPA approved laboratory methods to analyze our drinking water and monitors drinking water for the following constituents.

Constituent	Frequency
pH, Residual Chlorine, Turbidity	Hourly
Fluoride	Daily
Total Coliform	Monthly
Disinfection Byproducts (Total Trihalomethanes and Haloacetic Acids)	Quarterly
Lead and Copper	Annually
Inorganic Chemicals	Annually/ Quarterly[1]
Volatile Organic Compounds	Annually
Pesticides and PCBs	Once every 3 years
Radionuclides	Once every 3 years
Asbestos	Once every 9 years

Note:

1. Surface water baseline monitoring frequency for Total Nitrate/Nitrite

Water Quality Data

The table in the following section lists constituents detected during the latest round of required sampling. Only those constituents detected are listed. The presence of a contaminant does not necessarily indicate the water poses a health risk. As such, Ikego Housing Area's drinking water is safe and fit for human consumption.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Range		Sample Date	Violation	Typical Source
			Low	High			
Disinfectants & Disinfection By-Products							
Residual Chlorine (ppm)	4	4[1]	0.33	.96	2019	No[2]	Disinfectant water additive to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	7.6	32.7	2019	No	By-product of drinking water chlorination
TTHMs (Total Trihalomethanes) (ppb)	NA	80	10	19.3	2019	No	By-product of drinking water disinfection
Inorganic Contaminants							
Fluoride (ppm)	4	4	NA[3]	0.75	2019	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate [measured as Nitrogen] (ppm)	10	10	NA[3]	0.8	2019	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)	NA	NA	NA[3]	7.5	2019	No	Erosion of natural deposits; Leaching
Volatile Organic Contaminants							
Toluene (ppm)	1	1	ND	0.00039	2019	No	Discharge from petroleum factories

Notes:
1. Residual Chlorine - Maximum Residual Disinfectant Level.
2. Chlorine residual should be maintained at a minimum of 0.2 mg/L to ensure against bacteriological growth in the distribution system.
3. A single sample was used to determine compliance and no range is reported.

Contaminants	MCLG	AL	90th percentile	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
Inorganic Contaminants							
Copper (ppm)	1.3	1.3	0.025	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	0	15	2	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Abbreviations and Definitions:

AL: Action Level. The concentration of a contaminant in water that establishes the appropriate treatment for a water system. AL is based on a 90th percentile value.

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Point of Contact

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Yoshiaki Kanazawa at 243-6460Yoshiaki.Kanazawa.ja@fe.navy.mil or
Loreal Spear at 243-9520 Loreal.spear@fe.navy.mil

Consumer Confidence Report 2019

Hakozaki Fuel Terminal
Drinking Water System

Commander, Fleet Activities Yokosuka

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Source of Water

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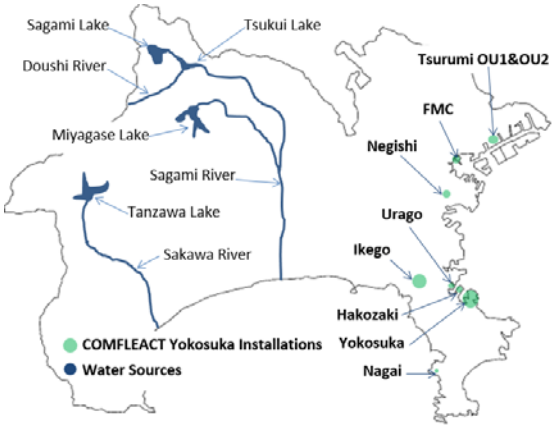

Water Distribution Systems

Commander, Fleet Activities (COMFLEACT), Yokosuka Public Works Department (PWD) operates the water distribution system servicing our area. In Hakozaki Fuel Terminal, purchased water is temporarily stored in a storage tank before distributed throughout the Terminal without any treatment by the PWD.

Compliance with Drinking Water Requirements

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Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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. U.S. Environmental Protection Agency (EPA) and Centers for Disease Control and Prevention guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Variance and Exemptions

U.S. Navy overseas drinking water (ODW) systems are required to use accredited laboratories that use U.S. Environmental Protection Agency (EPA) approved analytical methods. The Japanese contracted laboratory, which FLEACT Yokosuka used for Drinking water monitoring for coliform and nitrate/nitrite analyses was not accredited in accordance with WQOC policy. Instead of U.S. EPA method standards the laboratory used equivalent Japanese methods to conduct analysis. In May 2020, the WQOC Laboratory authority granted a variance that the Japanese laboratory successfully demonstrates additional quality control measures into their analysis to meet U.S. EPA method standards.

Possible Source of Contaminants

Drinking water, including bottled water, may reasonably be expected to contain trace amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline at 1-800-426-4791 or visiting the EPA website at https://www.epa.gov/dwstandardsregulations/drinking-water-contaminant-human-health-effects-information

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. It can also pick up other contaminants resulting from the presence of animals or human activity. Contaminants that may be present in source water include;

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production. They can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which 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, USEPA and the JEGS prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in US-sourced bottled water which must provide the same protection for public health.

Other Potential Contaminants

Lead

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. When your water has been sitting for several hours, you can further minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water for drinking or cooking. Drinking water samples are collected from consumer taps including family housing units to analyze for lead annually. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead

Drinking Water Monitoring

COMFLEACT, Yokosuka uses Japanese and EPA approved laboratory methods to analyze our drinking water and monitors drinking water for the following constituents.

Constituent	Frequency
pH, Residual chlorine	Monthly
Total coliform	Monthly
Disinfection byproducts (Total Trihalomethanes and Haloacetic Acids)	Annually
Lead and Copper	Annually
Inorganic Chemicals	Annually/ Quarterly[1]
Volatile Organic Compounds	Annually
Pesticides and PCBs	Once every 3 years
Asbestos	Once every 9 years

Note:

1. Surface water baseline monitoring frequency for Total Nitrate/Nitrite

Water Quality Data

The table in the following section lists constituents detected during the latest round of required sampling. Only those constituents detected are listed. The presence of a contaminant does not necessarily indicate the water poses a health risk. As such, Hakozaki Fuel Terminal's drinking water is safe and fit for human consumption.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Range		Sample Date	Violation	Typical Source
			Low	High			
Disinfectants & Disinfection By-Products							
Residual Chlorine (ppm)	4	4[1]	0.27	.79	2019	No[2]	Disinfectant water additive to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	NA[3]	14.4	2019	No	By-product of drinking water chlorination
TTHMs (Total Trihalomethanes) (ppb)	NA	80	NA[3]	20.6	2019	No	By-product of drinking water disinfection
Inorganic Contaminants							
Nitrate [measured as Nitrogen] (ppm)	10	10	NA[3]	0.7	2019	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)	NA	NA	NA[3]	6.5	2019	No	Erosion of natural deposits; Leaching

Notes:

1. Residual Chlorine - Maximum Residual Disinfectant Level.
2. Chlorine residual should be maintained at a minimum of 0.2 mg/L to ensure against bacteriological growth in the distribution system.
3. A single sample was used to determine compliance and no range is reported.

Contaminants	MCLG	AL	90th percentile	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
Inorganic Contaminants							
Copper (ppm)	1.3	1.3	0.0325	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	0	15	2.7	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Abbreviations and Definitions:

AL: Action Level. The concentration of a contaminant in water that establishes the appropriate treatment for a water system. AL is based on a 90th percentile value.

MCL: Maximum Contaminant Level. The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG: Maximum Contaminant Level Goal. The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MRDL: Maximum Residual Disinfectant Level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG: Maximum Residual Disinfection Level Goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA: Not applicable.

ND: Not Detected.

ppm: parts per million, or milligrams per liter (mg/L).

ppb: parts per billion, or micrograms per liter (µg/L).

TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

90th percentile: Represents the highest value found out of 90 percent of the samples taken. If the 90th percentile value is greater than the AL, a treatment evaluation and/or mitigation actions must be conducted on the water system.

Point of Contact

Contact PWD Environmental for additional information or questions:
Yoshiaki Kanazawa at 243-6460Yoshiaki.Kanazawa.ja@fe.navy.mil or
Loreal Spear at 243-9520 Loreal.spear@fe.navy.mil

Consumer Confidence Report 2019

Tsurumi Operating Unit-1 & 2 Drinking Water System

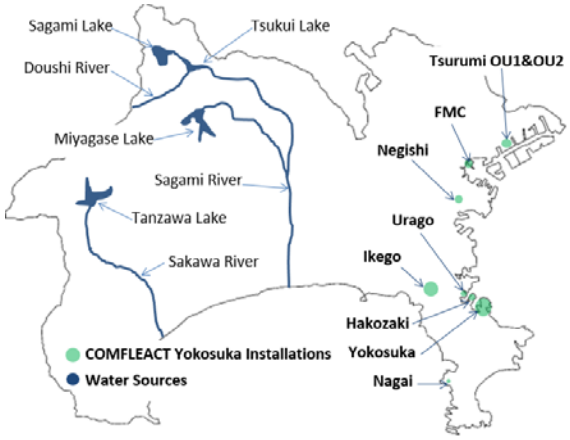
Commander, Fleet Activities Yokosuka

Issued in accordance with Commander, Navy Installations Command Instruction 5090.1A, N4, 29 Jun 2018.
This report reflects monitoring data collected in 2019 and will be updated annually.

The Navy is pleased to provide you with this annual Consumer Confidence Report (CCR) of the Drinking Water System that supports Tsurumi Operating Unit (OU)-1 & 2. This report provides information about the water delivered to Tsurumi in 2019. It describes where our water comes from, what it contains, and how it compares to standards for safe drinking water. The drinking water at Tsurumi OU-1 & 2 is safe to drink. Our goal is, and always has been, to provide safe and dependable drinking water.

Source of Water

Drinking water at Tsurumi is surface water from the Sagami River purchased from the Yokohama Waterworks Bureau. The supplier filters and chlorinates the drinking water with a conventional rapid sand filtration system before providing to Tsurumi OU-1 & 2.



Water Distribution Systems

Commander, Fleet Activities (COMFLEACT) Yokosuka Public Works Department (PWD) operates the water distribution system servicing our area. Purchased water is directly distributed throughout Tsurumi OU-1 & 2 without any treatment by the PWD.

Compliance with Drinking Water Requirements

U.S. Navy overseas installations are required to meet or exceed National Primary Drinking Water regulations promulgated under the Safe Drinking Water Act of 1974 which was adopted by Commander, Navy Installations Command (CNIC) Instruction 5090.1 A and are the same standards used in the U.S. to ensure safe drinking water. COMFLEACT, Yokosuka is also required to meet all criteria established in the latest Japan Environmental Governing Standards (JEGS), intended to ensure DoD activities and installations in Japan protect human health and the natural environment through the promulgation of specific environmental compliance criteria.

The Installation Commanding Officer has established an Installation Water Quality Board (IWQB) tasked with ensuring there is a reliable supply of drinking water for all persons using FLEACT, Yokosuka facilities. IWQB is currently taking steps to meet all requirements of the Navy's Overseas Drinking Water (ODW) program and the Regional Water Quality Board granted COMFLEACT Yokosuka a Conditional Certificate To Operate (CTO) for its water systems. COMFLEACT Yokosuka is expected to receive a Full CTO when all significant deficiencies identified during the Sanitary Survey are corrected. All deficiencies have either been corrected or are in the process of implementing corrective actions.

Source Water Assessment

The Navy Water Quality Oversight Council (WQOC) conducts a comprehensive sanitary survey of the FLEACT Yokosuka drinking water systems every three years. This survey provides an evaluation of the adequacy of the drinking water source, facilities, equipment, operation and maintenance for producing and distributing safe drinking water. In addition to sanitary surveys, Public Works Department regularly conducts environmental audits to verify compliance. FLEACT Yokosuka is continually improving the drinking water system based on the recommendations in the report. The next comprehensive sanitary survey is scheduled in 2020.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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. U.S. Environmental Protection Agency (EPA) and Centers for Disease Control and Prevention guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Variance and Exemptions

U.S. Navy overseas drinking water (ODW) systems are required to use accredited laboratories that use U.S. Environmental Protection Agency (EPA) approved analytical methods. The Japanese contracted laboratory, which FLEACT Yokosuka used for Drinking water monitoring for coliform and nitrate/nitrite analyses was not accredited in accordance with WQOC policy. Instead of U.S. EPA method standards the laboratory used equivalent Japanese methods to conduct analysis. In May the WQOC Laboratory authority granted a variance that the Japanese laboratory successfully demonstrates additional quality control measures into their analysis to meet U.S. EPA method standards.

Possible Source of Contaminants

Drinking water, including bottled water, may reasonably be expected to contain trace amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline at 1-800-426-4791 or visiting the EPA website at https://www.epa.gov/dwstandardsregulations/drinking-water-contaminant-human-health-effects-information

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. It can also pick up other contaminants resulting from the presence of animals or human activity. Contaminants that may be present in source water include;

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production. They can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which 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, USEPA and the JEGS prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in US-sourced bottled water which must provide the same protection for public health.

Other Potential Contaminants

Lead

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. When your water has been sitting for several hours, you can further minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water for drinking or cooking. Drinking water samples are collected from consumer taps including family housing units to analyze for lead annually. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead

Drinking Water Monitoring

COMFLEACT, Yokosuka uses Japanese and EPA approved laboratory methods to analyze our drinking water and monitors drinking water for the following constituents.

Constituent	Frequency
pH, Residual Chlorine, Turbidity	Hourly
Total Coliform	Monthly
Disinfection Byproducts (Total Trihalomethanes and Haloacetic Acids)	Annually
Lead and Copper	Annually
Inorganic Chemicals	Annually/ Quarterly[1]
Volatile Organic Compounds	Annually
Pesticides and PCBs	Once every 3 years
Asbestos	Once every 9 years

Note:

1. Surface water baseline monitoring frequency for Total Nitrate/Nitrite

Water Quality Data

The table in the following section lists constituents detected during the latest round of required sampling. Only those constituents detected are listed. The presence of a contaminant does not necessarily indicate the water poses a health risk. As such, Tsurumi 's drinking water is safe and fit for human consumption.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Range		Sample Date	Violation	Typical Source
			Low	High			
Disinfectants & Disinfection By-Products							
Residual Chlorine (ppm)	4	4[1]	0.48	.71	2019	No[2]	Disinfectant water additive to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	NA[3]	14.4	2019	No	By-product of drinking water chlorination
TTHMs (Total Trihalomethanes) (ppb)	NA	80	NA[3]	19.8	2019	No	By-product of drinking water disinfection
Inorganic Contaminants							
Barium (ppm)	2	2	NA[3]	0.0019	2019	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Nitrate [measured as Nitrogen] (ppm)	10	10	NA[3]	0.8	2019	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)	NA	NA	NA[3]	6.4	2019	No	Erosion of natural deposits; Leaching

Notes:

1. Residual Chlorine - Maximum Residual Disinfectant Level.
2. Chlorine residual should be maintained at a minimum of 0.2 mg/L to ensure against bacteriological growth in the distribution system.
3. A single sample was used to determine compliance and no range is reported.

Contaminants	MCLG	AL	90th percentile	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
Inorganic Contaminants							
Copper (ppm)	1.3	1.3	0.0645	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	0	15	1.225	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Abbreviations and Definitions:

AL: Action Level. The concentration of a contaminant in water that establishes the appropriate treatment for a water system. AL is based on a 90th percentile value.

MCL: Maximum Contaminant Level. The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG: Maximum Contaminant Level Goal. The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MRDL: Maximum Residual Disinfectant Level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG: Maximum Residual Disinfection Level Goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA: Not applicable.

ND: Not Detected.

ppm: parts per million, or milligrams per liter (mg/L).

ppb: parts per billion, or micrograms per liter (µg/L).

TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

90th percentile: Represents the highest value found out of 90 percent of the samples taken. If the 90th percentile value is greater than the AL, a treatment evaluation and/or mitigation actions must be conducted on the water system.

Point of Contact

Contact PWD Environmental for additional information or questions:
Yoshiaki Kanazawa at 243-6460Yoshiaki.Kanazawa.ja@fe.navy.mil or
Loreal Spear at 243-9520 Loreal.spear@fe.navy.mil

Consumer Confidence Report 2019

Urago Ordnance Storage Area Drinking Water System

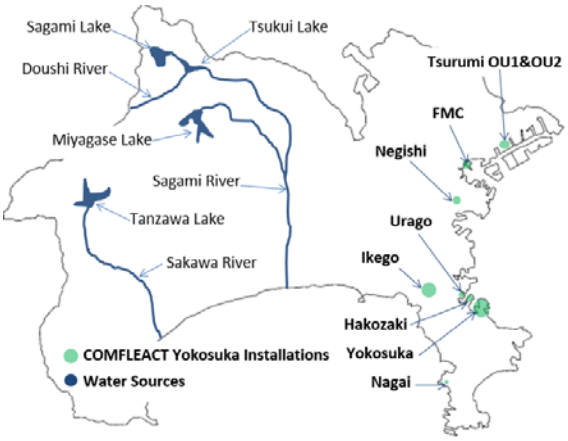
Commander, Fleet Activities Yokosuka

Issued in accordance with Commander, Navy Installations Command Instruction 5090.1A, N4, 29 Jun 2018.
This report reflects monitoring data collected in 2019 and will be updated annually.

The Navy is pleased to provide you with this annual Consumer Confidence Report (CCR) of the Drinking Water System that supports Urago Ordnance Storage Area. This report provides information about the water delivered to Urago in 2019. It describes where our water comes from, what it contains, and how it compares to standards for safe drinking water. The drinking water at Urago Ordnance Storage Area is safe to drink. Our goal is, and always has been, to provide safe and dependable drinking water.

Source of Water

Drinking water at Urago is combined surface water from the Sagami River and the Sakawa River purchased from the Yokosuka City Waterworks and Sewerage Bureau. The supplier filters and chlorinates the drinking water with a conventional rapid sand filtration system before providing to Urago.



Water Distribution Systems

Commander, Fleet Activities (COMFLEACT) Yokosuka Public Works Department (PWD) operates the water distribution system servicing our area. Purchased water is directly distributed throughout Urago without any treatment by the PWD.

Compliance with Drinking Water Requirements

U.S. Navy overseas installations are required to meet or exceed National Primary Drinking Water regulations promulgated under the Safe Drinking Water Act of 1974 which was adopted by Commander, Navy Installations Command (CNIC) Instruction 5090.1A and are the same standards used in the U.S. to ensure safe drinking water. COMFLEACT, Yokosuka is also required to meet all criteria established in the latest Japan Environmental Governing Standards (JEGS), intended to ensure DoD activities and installations in Japan protect human health and the natural environment through the promulgation of specific environmental compliance criteria.

The Installation Commanding Officer has established an Installation Water Quality Board (IWQB) tasked with ensuring there is a reliable supply of drinking water for all persons using FLEACT, Yokosuka facilities. IWQB is currently taking steps to meet all requirements of the Navy's Overseas Drinking Water (ODW) program and the Regional Water Quality Board granted COMFLEACT Yokosuka a Conditional Certificate To Operate (CTO) for its water systems. COMFLEACT Yokosuka is expected to receive a Full CTO when all significant deficiencies identified during the Sanitary Survey are corrected. All deficiencies have either been corrected or are in the process of implementing corrective actions.

Source Water Assessment

The Navy Water Quality Oversight Council (WQOC) conducts a comprehensive sanitary survey of the FLEACT Yokosuka drinking water systems every three years. This survey provides an evaluation of the adequacy of the drinking water source, facilities, equipment, operation and maintenance for producing and distributing safe drinking water. In addition to sanitary surveys, Public Works Department regularly conducts environmental audits to verify compliance. FLEACT Yokosuka is continually improving the drinking water system based on the recommendations in the report. The next comprehensive sanitary survey is scheduled in 2020.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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. U.S. Environmental Protection Agency (EPA) and Centers for Disease Control and Prevention guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Variance and Exemptions

U.S. Navy overseas drinking water (ODW) systems are required to use accredited laboratories that use U.S. Environmental Protection Agency (EPA) approved analytical methods. The Japanese contracted laboratory, which FLEACT Yokosuka used for Drinking water monitoring for coliform and nitrate/nitrite analyses was not accredited in accordance with WQOC policy. Instead of U.S. EPA method standards the laboratory used equivalent Japanese methods to conduct analysis. In May 2020, the WQOC Laboratory authority granted a variance that the Japanese laboratory successfully demonstrates additional quality control measures into their analysis to meet U.S. EPA method standards.

Possible Source of Contaminants

Drinking water, including bottled water, may reasonably be expected to contain trace amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline at 1-800-426-4791 or visiting the EPA website at https://www.epa.gov/dwstandardsregulations/drinking-water-contaminant-human-health-effects-information

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. It can also pick up other contaminants resulting from the presence of animals or human activity. Contaminants that may be present in source water include;

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production. They can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which 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, USEPA and the JEGS prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in US-sourced bottled water which must provide the same protection for public health.

Other Potential Contaminants

Lead

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. When your water has been sitting for several hours, you can further minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water for drinking or cooking. Drinking water samples are collected from consumer taps including family housing units to analyze for lead annually. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead

Drinking Water Monitoring

COMFLEACT, Yokosuka uses Japanese and EPA approved laboratory methods to analyze our drinking water and monitors drinking water for the following constituents.

Constituent	Frequency
pH, Residual Chlorine	Monthly
Total Coliform	Monthly
Disinfection Byproducts (Total Trihalomethanes and Haloacetic Acids)	Annually
Lead and Copper	Annually
Inorganic Chemicals	Annually/ Quarterly[1]
Volatile Organic Compounds	Annually
Pesticides and PCBs	Once every 3 years
Asbestos	Once every 9 years

Note:

1. Surface water baseline monitoring frequency for Total Nitrate/Nitrite

Water Quality Data

The table in the following section lists constituents detected during the latest round of required sampling. Only those constituents detected are listed. The presence of a contaminant does not necessarily indicate the water poses a health risk. As such, Urago's drinking water is safe and fit for human consumption.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Range		Sample Date	Violation	Typical Source
			Low	High			
Disinfectants & Disinfection By-Products							
Residual Chlorine (ppm)	4	4[1]	0.50	.73	2019	No[2]	Disinfectant water additive to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	NA[3]	16.6	2019	No	By-product of drinking water chlorination
TTHMs (Total Trihalomethanes) (ppb)	NA	80	NA[3]	21.8	2019	No	By-product of drinking water disinfection
Inorganic Contaminants							
Barium (ppm)	2	2	NA[3]	0.0023	2019	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Nitrate [measured as Nitrogen] (ppm)	10	10	NA[3]	0.7	2019	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)	NA	NA	NA[3]	6.5	2019	No	Erosion of natural deposits; Leaching

Notes:

1. Residual Chlorine - Maximum Residual Disinfectant Level.
2. Chlorine residual should be maintained at a minimum of 0.2 mg/L to ensure against bacteriological growth in the distribution system.
3. A single sample was used to determine compliance and no range is reported.

Contaminants	MCLG	AL	90th percentile	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
Inorganic Contaminants							
Copper (ppm)	1.3	1.3	0.038	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	0	15	1.85	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

*A single sample was used to determine compliance and no range is reported.

Abbreviations and Definitions:

AL: Action Level. The concentration of a contaminant in water that establishes the appropriate treatment for a water system. AL is based on a 90th percentile value.

MCL: Maximum Contaminant Level. The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG: Maximum Contaminant Level Goal. The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MRDL: Maximum Residual Disinfectant Level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

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NA: Not applicable.

ND: Not Detected.

ppm: parts per million, or milligrams per liter (mg/L).

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TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

90th percentile: Represents the highest value found out of 90 percent of the samples taken. If the 90th percentile value is greater than the AL, a treatment evaluation and/or mitigation actions must be conducted on the water system.

Point of Contact

Contact PWD Environmental for additional information or questions:
Yoshiaki Kanazawa at 243-6460Yoshiaki.Kanazawa.ja@fe.navy.mil or
Loreal Spear at 243-9520 Loreal.spear@fe.navy.mil

Consumer Confidence Report 2019

Yokohama Fleet Mail Center
Drinking Water System

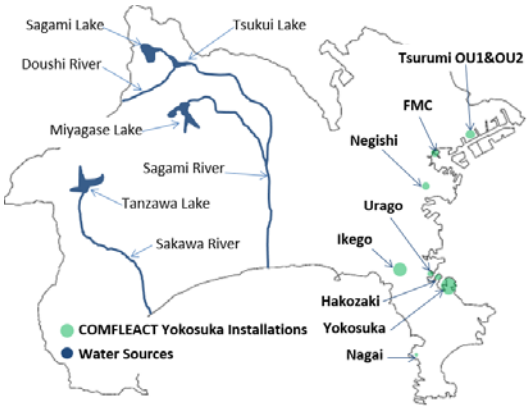
Commander, Fleet Activities Yokosuka

Issued in accordance with Commander, Navy Installations Command Instruction 5090.1A, N4, 29 Jun 2018.
This report reflects monitoring data collected in 2018 and will be updated annually.

The Navy is pleased to provide you with this annual Consumer Confidence Report (CCR) of the Drinking Water System that supports Yokohama Fleet Mail Center (FMC). This report provides information about the water delivered to FMC in 2019. It describes where our water comes from, what it contains, and how it compares to standards for safe drinking water. The drinking water at FMC is safe to drink. Our goal is, and always has been, to provide safe and dependable drinking water.

Source of Water

Drinking water at FMC is surface water from the Sagami Lake purchased from the Yokohama Waterworks Bureau. The supplier filters and chlorinates the drinking water with a conventional rapid sand filtration system before providing to FMC.



Water Distribution Systems

Commander, Fleet Activities (COMFLEACT) Yokosuka Public Works Department (PWD) operates the water distribution system servicing our area. Purchased water is directly distributed throughout FMC without any treatment by the PWD.

Compliance with Drinking Water Requirements

U.S. Navy overseas installations are required to meet or exceed National Primary Drinking Water regulations promulgated under the Safe Drinking Water Act of 1974 which was adopted by Commander, Navy Installations Command (CNIC) Instruction 5090.1 A and are the same standards used in the U.S. to ensure safe drinking water. COMFLEACT, Yokosuka is also required to meet all criteria established in the latest Japan Environmental Governing Standards (JEGS), intended to ensure DoD activities and installations in Japan protect human health and the natural environment through the promulgation of specific environmental compliance criteria.

The Installation Commanding Officer has established an Installation Water Quality Board (IWQB) tasked with ensuring there is a reliable supply of drinking water for all persons using FLEACT, Yokosuka facilities. IWQB is currently taking steps to meet all requirements of the Navy's Overseas Drinking Water (ODW) program and the Regional Water Quality Board granted COMFLEACT Yokosuka a Conditional Certificate To Operate (CTO) for its water systems. COMFLEACT Yokosuka is expected to receive a Full CTO when all significant deficiencies identified during the Sanitary Survey are corrected. All deficiencies have either been corrected or are in the process of implementing corrective actions.

Source Water Assessment

The Navy Water Quality Oversight Council (WQOC) conducts a comprehensive sanitary survey of the FLEACT Yokosuka drinking water systems every three years. This survey provides an evaluation of the adequacy of the drinking water source, facilities, equipment, operation and maintenance for producing and distributing safe drinking water. In addition to sanitary surveys, Public Works Department regularly conducts environmental audits to verify compliance. FLEACT Yokosuka is continually improving the drinking water system based on the recommendations in the report. The next comprehensive sanitary survey is scheduled in 2020.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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. U.S. Environmental Protection Agency (EPA) and Centers for Disease Control and Prevention guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Variance and Exemptions

U.S. Navy overseas drinking water (ODW) systems are required to use accredited laboratories that use U.S. Environmental Protection Agency (EPA) approved analytical methods. The Japanese contracted laboratory, which FLEACT Yokosuka used for Drinking water monitoring for coliform and nitrate/nitrite analyses was not accredited in accordance with WQOC policy. Instead of U.S. EPA method standards the laboratory used equivalent Japanese methods to conduct analysis. In May 2020, the WQOC Laboratory authority granted a variance that the Japanese laboratory successfully demonstrates additional quality control measures into their analysis to meet U.S. EPA method standards.

Possible Source of Contaminants

Drinking water, including bottled water, may reasonably be expected to contain trace amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline at 1-800-426-4791 or visiting the EPA website at https://www.epa.gov/dwstandardsregulations/drinking-water-contaminant-human-health-effects-information

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. It can also pick up other contaminants resulting from the presence of animals or human activity. Contaminants that may be present in source water include;

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production. They can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which 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, USEPA and the JEGS prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in US-sourced bottled water which must provide the same protection for public health.

Other Potential Contaminants

Lead

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. When your water has been sitting for several hours, you can further minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water for drinking or cooking. Drinking water samples are collected from consumer taps including family housing units to analyze for lead annually. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead

Drinking Water Monitoring

COMFLEACT, Yokosuka uses Japanese and EPA approved laboratory methods to analyze our drinking water and monitors drinking water for the following constituents.

Constituent	Frequency
pH, Residual Chlorine, Turbidity	Hourly
Total Coliform	Monthly
Disinfection Byproducts (Total Trihalomethanes and Haloacetic Acids)	Annually
Lead and Copper	Annually
Inorganic Chemicals	Annually/ Quarterly[1]
Volatile Organic Compounds	Annually
Pesticides and PCBs	Once every 3 years
Asbestos	Once every 9 years

Note:

1. Surface water baseline monitoring frequency for Total Nitrate/Nitrite

Water Quality Data

The table in the following section lists constituents detected during the latest round of required sampling. Only those constituents detected are listed. The presence of a contaminant does not necessarily indicate the water poses a health risk. As such, Yokohama FMC drinking water is safe and fit for human consumption.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Range		Sample Date	Violation	Typical Source
			Low	High			
Disinfectants & Disinfection By-Products							
Residual Chlorine (ppm)	4	4[1]	0.55	.84	2019	No[2]	Disinfectant water additive to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	NA[3]	12.3	2019	No	By-product of drinking water chlorination
TTHMs (Total Trihalomethanes) (ppb)	NA	80	NA[3]	11.9	2019	No	By-product of drinking water disinfection
Inorganic Contaminants							
Barium (ppm)	2	2	NA[3]	0.0028	2019	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Nitrate [measured as Nitrogen] (ppm)	10	10	NA[3]	1.0	2019	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)	NA	NA	NA[3]	6.5	2019	No	Erosion of natural deposits; Leaching
Volatile Organic Contaminants							
Toluene (ppm)	1	1	ND	0.00077	2019	No	Discharge from petroleum factories

Notes:

1. Residual Chlorine - Maximum Residual Disinfectant Level.
2. Chlorine residual should be maintained at a minimum of 0.2 mg/L to ensure against bacteriological growth in the distribution system.
3. A single sample was used to determine compliance and no range is reported.

Contaminants	MCLG	AL	90th percentile	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
Inorganic Contaminants							
Copper (ppm)	1.3	1.3	0.079	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	0	15	2.0	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Abbreviations and Definitions:

AL: Action Level. The concentration of a contaminant in water that establishes the appropriate treatment for a water system. AL is based on a 90th percentile value.

MCL: Maximum Contaminant Level. The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG: Maximum Contaminant Level Goal. The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MRDL: Maximum Residual Disinfectant Level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG: Maximum Residual Disinfection Level Goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA: Not applicable.

ND: Not Detected.

ppm: parts per million, or milligrams per liter (mg/L).

ppb: parts per billion, or micrograms per liter (µg/L).

TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

90th percentile: Represents the highest value found out of 90 percent of the samples taken. If the 90th percentile value is greater than the AL, a treatment evaluation and/or mitigation actions must be conducted on the water system.

Point of Contact

Contact PWD Environmental for additional information or questions:
Yoshiaki Kanazawa at 243-6460Yoshiaki.Kanazawa.ja@fe.navy.mil or
Loreal Spear at 243-9520 Loreal.spear@fe.navy.mil

Consumer Confidence Report 2019

Nagai Communication Facility
Drinking Water System

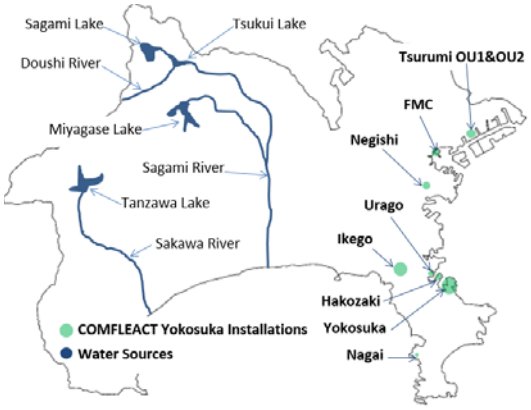
Commander, Fleet Activities Yokosuka

Issued in accordance with Commander, Navy Installations Command Instruction 5090.1A, N4, 29 Jun 2018.
This report reflects monitoring data collected in 2019 and will be updated annually.

The Navy is pleased to provide you with this annual Consumer Confidence Report (CCR) of the Drinking Water System that supports Nagai Communication Facility. This report provides information about the water delivered to Nagai in 2019. It describes where our water comes from, what it contains, and how it compares to standards for safe drinking water. Our goal is, and always has been, to provide safe and dependable drinking water.

Source of Water

Drinking water at Nagai is combined surface water from the Sagami River and the Sakawa River purchased from the Yokosuka City Waterworks and Sewerage Bureau. The supplier filters and chlorinates the drinking water with a conventional rapid sand filtration before providing to Nagai Communication Facility.



Water Distribution Systems

Fleet Activities (FLEACT) Yokosuka Public Works Department (PWD) operates the water distribution system servicing our area. Purchased water is directly distributed to Nagai Communication Facility without any treatment by the PWD.

Compliance with Drinking Water Requirements

U.S. Navy overseas installations are required to meet or exceed National Primary Drinking Water regulations promulgated under the Safe Drinking Water Act of 1974 which was adopted by Commander, Navy Installations Command (CNIC) Instruction 5090.1A and are the same standards used in the U.S. to ensure safe drinking water. FLEACT, Yokosuka is also required to meet all criteria established in the latest Japan Environmental Governing Standards (JEGS), intended to ensure DoD activities and installations in Japan protect human health and the natural environment through the promulgation of specific environmental compliance criteria.

The Installation Commanding Officer has established an Installation Water Quality Board (IWQB) tasked with ensuring there is a reliable supply of drinking water for all persons using FLEACT, Yokosuka facilities. IWQB is currently taking steps to meet all requirements of the Navy's Overseas Drinking Water (ODW) program and the Regional Water Quality Board granted FLEACT Yokosuka a Conditional Certificate To Operate (CTO) for its water systems. FLEACT Yokosuka is expected to receive a Full CTO when all significant deficiencies identified during the Sanitary Survey are corrected. All deficiencies have either been corrected or are in the process of implementing corrective actions.

Source Water Assessment

The Navy Water Quality Oversight Council (WQOC) conducts a comprehensive sanitary survey of the FLEACT Yokosuka drinking water systems every three years. This survey provides an evaluation of the adequacy of the drinking water source, facilities, equipment, operation and maintenance for producing and distributing safe drinking water. In addition to sanitary surveys, Public Works Department regularly conducts environmental audits to verify compliance. FLEACT Yokosuka is continually improving the drinking water system based on the recommendations in the report. The next comprehensive sanitary survey is scheduled in 2020.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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. U.S. Environmental Protection Agency (EPA) and Centers for Disease Control and Prevention guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Variance and Exemptions

U.S. Navy overseas drinking water (ODW) systems are required to use accredited laboratories that use U.S. Environmental Protection Agency (EPA) approved analytical methods. The Japanese contracted laboratory, which FLEACT Yokosuka used for Drinking water monitoring for coliform and nitrate/nitrite analyses was not accredited in accordance with WQOC policy. Instead of U.S. EPA method standards the laboratory used equivalent Japanese methods to conduct analysis. In May 2020 the WQOC Laboratory authority granted a variance that the Japanese laboratory successfully demonstrates additional quality control measures into their analysis to meet U.S. EPA method standards.

Possible Source Contaminants

Drinking water, including bottled water, may reasonably be expected to contain trace amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline at 1-800-426-4791 or visiting the EPA website at https://www.epa.gov/dwstandardsregulations/drinking-water-contaminant-human-health-effects-information

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. It can also pick up other contaminants resulting from the presence of animals or human activity. Contaminants that may be present in source water include;

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production. They can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which 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, USEPA and the JEGS prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in US-sourced bottled water which must provide the same protection for public health.

Other Potential Contaminants

Lead

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. When your water has been sitting for several hours, you can further minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water for drinking or cooking. Drinking water samples are collected from consumer taps including family housing units to analyze for lead annually. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead

Under the authority of the Safe Drinking Water Act, US Environmental Protection Agency (EPA) set the action level (AL) for lead in drinking water at 15 micrograms of lead per liter of water (µg/L). This means FLEACT Yokosuka must ensure that water from taps used for human consumption do not exceed the AL in at least in 90 percent of the sites sampled (90th percentile value). The AL is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which FLEACT Yokosuka must follow to correct the problem. In August 2018, the 90th percentile value for this water system exceeded the AL. The outlet was taken out of service with immediate notification of an exceedance. We provided Public Education material to ensure our customers knew about the action level exceedance, understood the health effects of lead and potential lead sources, and actions they could take to reduce exposure to lead in drinking water.

Exceedance of the 90th percentile requires standard sampling for lead every 6 months so we can closely monitor the lead levels in our water system. In August 2019, the 90th percentile results was 17 µg/L, which exceeded the AL. The outlet at Nagai remains out of service and is not used for consumption. Public Works Department will install a Point of Use water filter to reduce lead level in drinking water.

Drinking Water Monitoring

COMFLEACT, Yokosuka uses Japanese and EPA approved laboratory methods to analyze our drinking water and monitors drinking water for the following constituents.

Constituent	Frequency
pH, Residual Chlorine	Monthly
Total Coliform	Monthly
Disinfection Byproducts (Total Trihalomethanes and Haloacetic Acids)	Annually
Lead and Copper	Annually (Lead monitoring frequency increased to twice a year in 2019)
Inorganic Chemicals	Annually/ Quarterly[1]
Volatile Organic Compounds	Quarterly
Pesticides and PCBs	Quarterly
Asbestos	Once every 9 years

Note:

1. Surface water baseline monitoring frequency for Total Nitrate/Nitrite

Water Quality Data

The table in the following section lists constituents detected during the latest round of required sampling. Only those constituents detected are listed. The presence of a contaminant does not necessarily indicate the water poses a health risk.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Range		Sample Date	Violation	Typical Source
			Low	High			
Disinfectants & Disinfection By-Products							
Residual Chlorine (ppm)	4	4[1]	0.32	.59	2019	No[2]	Disinfectant water additive to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	NA[3]	21.4	2019	No	By-product of drinking water chlorination
TTHMs (Total Trihalomethanes) (ppb)	NA	80	NA[3]	23.9	2019	No	By-product of drinking water disinfection
Inorganic Contaminants							
Barium (ppm)	2	2	NA[3]	0.0032	2019	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Nitrate [measured as Nitrogen] (ppm)	10	10	NA[3]	0.9	2019	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)	NA	NA	NA[3]	7.3	2019	No	Erosion of natural deposits; Leaching

Notes:
1. Residual Chlorine - Maximum Residual Disinfectant Level.
2. Chlorine residual should be maintained at a minimum of 0.2 mg/L to ensure against bacteriological growth in the distribution system.
3. A single sample was used to determine compliance and no range is reported.

Contaminants	MCLG	AL	90th percentile	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
Inorganic Contaminants							
Copper (ppm)	1.3	1.3	0.05	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	0	15	17	2019	0	Yes	Corrosion of household plumbing systems; Erosion of natural deposits

Abbreviations and Definitions:

AL: Action Level. The concentration of a contaminant in water that establishes the appropriate treatment for a water system. AL is based on a 90th percentile value.

MCL: Maximum Contaminant Level. The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG: Maximum Contaminant Level Goal. The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MRDL: Maximum Residual Disinfectant Level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG: Maximum Residual Disinfection Level Goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA: Not applicable.

ND: Not Detected.

ppm: parts per million, or milligrams per liter (mg/L).

ppb: parts per billion, or micrograms per liter (µg/L).

TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

90th percentile: Represents the highest value found out of 90 percent of the samples taken. If the 90th percentile value is greater than the AL, a treatment evaluation and/or mitigation actions must be conducted on the water system.

Point of Contact

Contact PWD Environmental for additional information or questions:
Yoshiaki Kanazawa at 243-6460Yoshiaki.Kanazawa.ja@fe.navy.mil or
Loreal Spear at 243-9520 Loreal.spear@fe.navy.mil

Consumer Confidence Report 2019

Negishi Housing Area
Drinking Water System

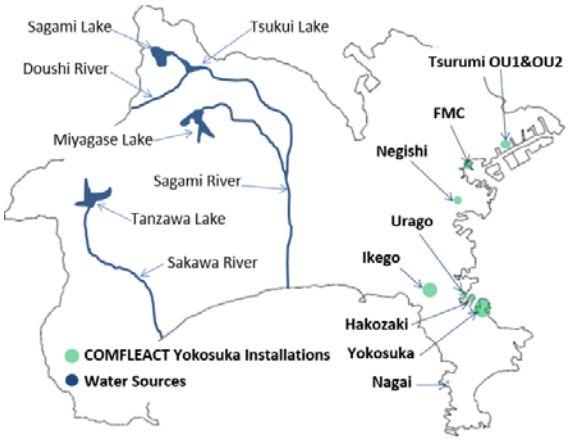
Commander, Fleet Activities Yokosuka

Issued in accordance with Commander, Navy Installations Command Instruction 5090.1A, N4, 29 Jun 2018.
This report reflects monitoring data collected in 2019 and will be updated annually.

The Navy is pleased to provide you with this annual Consumer Confidence Report (CCR) of the Drinking Water System that supports Negishi Housing Area. This report provides information about the water delivered to Negishi in 2019. It describes where our water comes from, what it contains, and how it compares to standards for safe drinking water. The drinking water at Negishi Housing Area is safe to drink. Our goal is, and always has been, to provide safe and dependable drinking water.

Source of Water

Drinking water at Negishi Housing Area is surface water from the Sagami Lake purchased from the Yokohama Waterworks Bureau. The supplier filters and chlorinates the drinking water with a conventional rapid sand filtration system before providing to Negishi.



Water Distribution Systems

Commander, Fleet Activities (COMFLEACT) Yokosuka Public Works Department (PWD) operates the water distribution system servicing our area. Purchased water is directly distributed to occupied facilities at Negishi without any treatment by the PWD. Water distribution to housing units has been terminated. Drinking water is supplied only to the Negishi Fire Department building.

Compliance with Drinking Water Requirements

U.S. Navy overseas installations are required to meet or exceed National Primary Drinking Water regulations promulgated under the Safe Drinking Water Act of 1974 which was adopted by Commander, Navy Installations Command (CNIC) Instruction 5090.1 A and are the same standards used in the U.S. to ensure safe drinking water. COMFLEACT, Yokosuka is also required to meet all criteria established in the latest Japan Environmental Governing Standards (JEGS), intended to ensure DoD activities and installations in Japan protect human health and the natural environment through the promulgation of specific environmental compliance criteria.

The Installation Commanding Officer has established an Installation Water Quality Board (IWQB) tasked with ensuring there is a reliable supply of drinking water for all persons using FLEACT, Yokosuka facilities. IWQB is currently taking steps to meet all requirements of the Navy's Overseas Drinking Water (ODW) program and the Regional Water Quality Board granted COMFLEACT Yokosuka a Conditional Certificate To Operate (CTO) for its water systems. COMFLEACT Yokosuka is expected to receive a Full CTO when all significant deficiencies identified during the Sanitary Survey are corrected. All deficiencies have either been corrected or are in the process of implementing corrective actions.

Source Water Assessment

The Navy Water Quality Oversight Council (WQOC) conducts a comprehensive sanitary survey of the FLEACT Yokosuka drinking water systems every three years. This survey provides an evaluation of the adequacy of the drinking water source, facilities, equipment, operation and maintenance for producing and distributing safe drinking water. In addition to sanitary surveys, Public Works Department regularly conducts environmental audits to verify compliance. FLEACT Yokosuka is continually improving the drinking water system based on the recommendations in the report. The next comprehensive sanitary survey is scheduled in 2020.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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. U.S. Environmental Protection Agency (EPA) and Centers for Disease Control and Prevention guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Variance and Exemptions

U.S. Navy overseas drinking water (ODW) systems are required to use accredited laboratories that use U.S. Environmental Protection Agency (EPA) approved analytical methods. The Japanese contracted laboratory, which FLEACT Yokosuka used for Drinking water monitoring for coliform and nitrate/nitrite analyses was not accredited in accordance with WQOC policy. Instead of U.S. EPA method standards the laboratory used equivalent Japanese methods to conduct analysis. In May 2020, the WQOC Laboratory authority granted a variance that the Japanese laboratory successfully demonstrates additional quality control measures into their analysis to meet U.S. EPA method standards.

Possible Source of Contaminants

Drinking water, including bottled water, may reasonably be expected to contain trace amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline at 1-800-426-4791 or visiting the EPA website at https://www.epa.gov/dwstandardsregulations/drinking-water-contaminant-human-health-effects-information

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. It can also pick up other contaminants resulting from the presence of animals or human activity. Contaminants that may be present in source water include;

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production. They can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which 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, USEPA and the JEGS prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in US-sourced bottled water which must provide the same protection for public health.

Other Potential Contaminants

Lead

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. When your water has been sitting for several hours, you can further minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water for drinking or cooking. Drinking water samples are collected from consumer taps including family housing units to analyze for lead annually. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead

Drinking Water Monitoring

COMFLEACT, Yokosuka uses Japanese and EPA approved laboratory methods to analyze our drinking water and monitors drinking water for the following constituents.

Constituent	Frequency
pH, Residual Chlorine	Monthly
Total Coliform	Monthly
Disinfection Byproducts (Total Trihalomethanes and Haloacetic Acids)	Annually
Lead and Copper	Annually
Inorganic Chemicals	Annually/ Quarterly[1]
Volatile Organic Compounds	Annually
Pesticides and PCBs	Once every 3 years
Asbestos	Once every 9 years

Note:

1. Surface water baseline monitoring frequency for Total Nitrate/Nitrite

Water Quality Data

The table in the following section lists constituents detected during the latest round of required sampling. Only those constituents detected are listed. The presence of a contaminant does not necessarily indicate the water poses a health risk. As such, Negishi Housing Area's drinking water is safe and fit for human consumption.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Range		Sample Date	Violation	Typical Source
			Low	High			
Disinfectants & Disinfection By-Products							
Residual Chlorine (ppm)	4	4[1]	0.35	.70	2019	No[2]	Disinfectant water additive to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	NA[3]	12.5	2019	No	By-product of drinking water chlorination
TTHMs (Total Trihalomethanes) (ppb)	NA	80	NA[3]	12.3	2019	No	By-product of drinking water disinfection
Inorganic Contaminants							
Barium (ppm)	2	2	NA[3]	0.0029	2019	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Nitrate [measured as Nitrogen] (ppm)	10	10	NA[3]	1.0	2019	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)	NA	NA	NA[3]	6.7	2019	No	Erosion of natural deposits; Leaching

Notes:

1. Residual Chlorine - Maximum Residual Disinfectant Level.
2. Chlorine residual should be maintained at a minimum of 0.2 mg/L to ensure against bacteriological growth in the distribution system
3. A single sample was used to determine compliance and no range is reported.

Contaminants	MCLG	AL	90th percentile	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
Inorganic Contaminants							
Copper (ppm)	1.3	1.3	0.23	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	0	15	0.001	2019	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Abbreviations and Definitions:

AL: Action Level. The concentration of a contaminant in water that establishes the appropriate treatment for a water system. AL is based on a 90th percentile value.

MCL: Maximum Contaminant Level. The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG: Maximum Contaminant Level Goal. The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MRDL: Maximum Residual Disinfectant Level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG: Maximum Residual Disinfection Level Goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the

use of disinfectants to control microbial contaminants.

NA: Not applicable.

ND: Not Detected.

ppm: parts per million, or milligrams per liter (mg/L).

ppb: parts per billion, or micrograms per liter (µg/L).

TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

90th percentile: Represents the highest value found out of 90 percent of the samples taken. If the 90th percentile value is greater than the AL, a treatment evaluation and/or mitigation actions must be conducted on the water system.

Point of Contact

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