





Singapore Area Coordinator Annual Overseas Drinking Water System Consumer Confidence Report

This Report meets Chief of Naval Operations/Commander, Navy Installations Command and Naval Facilities Engineering Command Guidance for Consumer Confidence Reports. This report is updated annually and reflects monitoring data collected up to December 31, 2014.

Water Provider

Singapore Public Utilities board (PUB) owns and operates the water system servicing your area. We, at Navy Region Center Singapore (NRCS), do not provide any treatment to the water except additional surveillance. Public Works Environmental and CLWP Medical Aid Station take samples and test the water (some monthly, some annually) to ensure the water quality meets U.S. standards. This is a potable water system. Base on the most recent sanitary survey (2014), it is determined that our drinking water essentially meets U.S standard. PUB has confirmed that our water do not have any reading of Cryptosporidium.

Source of Water

Your drinking water comes from surface water sources. Raw water from various sources is conveyed by pipelines to local waterworks where it is chemically treated, filtered and disinfected. Treatment frees the water of harmful bacteria, makes it clear, sparkling, odourless, colourless, and safe for consumption.

Most treatment plants use chemical coagulation and rapid gravity filtration to remove suspended matter in the raw water. For chemical coagulation, correct doses of suitable coagulants and coagulant-aids are added to the raw water to combine or 'flocculate' the colloidal and larger particles of suspended matter. This causes the suspended matters to settle more readily and then be removed in the sedimentation tank. The water is then passed through rapid gravity filters which remove the finer particles of suspended matter. The filtered water, temporarily stored in water tank, is disinfected to get rid of all harmful bacteria and viruses. The water is then pumped into the distribution system, ready for consumption.

Aluminium sulphate is the main coagulant. In most cases, hydrated lime is also added to adjust the pH of the raw water for the best flocculation results. Polyelectrolyte is used as a coagulant aid. For disinfection, chlorine is used to destroy the bacteria and viruses. Ozone is used as well as chlorine in some cases. Ammonia is added in the treated water containing free chlorine to form a stable chlorine residual. Activated carbon is also used to remove any bad taste and odour.

Sodium silicofluoride is also added to the water on its way from the filters to the clear water tank. Fluoridation is a requirement by the Ministry of Health (Singapore) and has been a practice since 1957. It helps in the prevention of dental caries.

Drinking Water Standards

Last year, as in years past, your drinking water met all U.S. Environmental Protection Agency (EPA) and Singapore Public Utility Board, World Health Organization Guidelines for Drinking Water Quality and parameters on contaminants regulated by the U.S. Overseas Environmental Baseline Guidance Document and CNICINST 5090.1 series. In accordance with Navy guidance, we are required to test your water for contaminants on a regular basis, making sure it is safe to drink, and to report our results accordingly.

To ensure that our water is safe to drink, EPA and World Health prescribes limits to which the water standards must meet.

In the latest compliance monitoring period, we conducted tests for over 120 contaminants that have potential for being found in your drinking water.







Table 1-lidentifies all contaminants found in your water and their levels of concentration. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk.

Potential Contaminants

Contaminants that may be present in your 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 storm water 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 storm water runoff, and residential uses.

Organic chemical contaminants – including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

Radionuclide contaminants — which can be naturally-occurring or be the result of oil and gas production and mining activities.

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 minimize the potential for lead exposure by flushing your tap for 30 seconds to two minutes before using water for drinking or cooking.

Nitrite – Once ingested, conversion of nitrate to nitrite takes place in saliva and gastrointestinal tract. Infants convert approximately double, or 10 present of ingested nitrates to nitrites compared to 5 percent conversion in order children and adults and can lead to blue baby symptoms. High enough concentrations of nitrate in drinking water can result in a temporary blood disorder in infants called methemoglobinemia, commonly called "blue baby syndrome." In severe, untreated cases, brain damage and eventually death can result from suffocation due to lack of oxygen.

Arsenic – Arsenic occurs in inorganic and organic forms. Inorganic arsenic compounds (such as those found in water) are highly toxic while organic arsenic compounds (such as those found in seafood) are less harmful to health.

Additional Sources of Information:

U.S. EPA provides guidance for water suppliers in "Preparing your Drinking Water Consumer Confidence Report" document available at http://www.epa.gov/safewater/ccr/pdfs/guide_ccr_forwatersuppliers.pdf; or reviewing the http://www.ccriwriter.com/ website for formatting assistance.

Concerns/Additional Copies:

For questions, information, and /or additional copies, please contact Navy Region Center Singapore, Public Works Department/Environmental at (65) 6750-2052/2911 or alice.wilson@fe.navy.mil.

Water Quality Data Table

The following table lists contaminants that PWD/ENV routinely test based on U.S. Overseas Environmental Baseline Guidance Document (OEBGD). The water samples were collected from our installation and analysed by *the* Laboratory Sciences Division USA Public Health Command Region-Pacific. The presence of contaminants does not necessarily indicate that the water poses a health risk.







Contaminants in the Water

Table 1-1

Contaminants in	me water				Table 1-1				
Contaminants(units)	MCL (Allowed)	MCL (Goal)	Highest Level Detected	Lowest Level Detected	Date of Detection	Date of Sample	Typical Sources of Contaminants	Viola tion	
Inorganic Contaminants	Vary for each contamin ant	Vary for each contami nant	Passed	Passed	2014	2014	Erosion of natural deposits; water additive which promotes strong teeth	No	
Arsenic (mg/L)	0.01	0.01	< 0.001	< 0.001	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Antimony (mg/L)	0.006	0.006	<0.0006	<0.0006	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Barium (mg/L)	2	2	0.032	0.02	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Beryllium (mg/L)	0.004	0.004	< 0.0004	< 0.0004	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Cadmium (mg/L)	0.005	0.005	< 0.0003	< 0.0003	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Chromium (mg/L)	0.1	0.1	< 0.005	< 0.005	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Cyanide (mg/L)	0.2	0.2	< 0.005	< 0.005	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Fluoride (mg/L)	4	4	0.5	0.5	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014			
Mercury (mg/L)	0.002	0.002	< 0.0001	<0.0001	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Nickel (mg/L)	0.1	0.1	< 0.001	< 0.001	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Nitrate (mg/L) (as N)	10	10	1.1	0.33	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014			
Nitrite (mg/L) (as N)	1	1	0.051	0.018	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Total Nitrite & Nitrate (mg/L) (as N)	10	10	1.0151	0.34	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Selenium (mg/L)	0.05	0.05	< 0.001	< 0.001	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Sodium (mg/L)	200	200	20	2.5	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Thallium (mg/L)	0.002	0.002	< 0.0002	< 0.0002	April 18, 2014 Dec 15, 2014	March 10, 2014 Nov 17, 2014		No	
Organic Contaminants	Vary for each contamin ant	Vary for each contami nant	Passed	Passed	2014	2014		No	
33 Pesticides/PCB									
Alachlor (μg/L)	2	2	<0.1	<0.1	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No	
Aldicarb (μg/L)	3	3	<0.5	<0.5	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No	
Aldicarb sulfone (µg/L)	2	2	<0.7	<0.7	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No	







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Aldicarb sulfoxide (μg/L)	4	4	<0.5	<0.5	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Atrazine (µg/L)	3	3	<0.1	<0.1	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Benzo[a]pyrene (µg/L)	0.2	0.2	< 0.02	<0.02	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Carbofuran (μg/L)	40	40	<0.9	<0.9	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Chlordane (µg/L	2	2	<0.1	<0.1	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Dalapon (μg/L)	200	200	<1	<1	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
2,4-D (μg/L)	70	70	<1	<1	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
1,2-Dibromo-3- chloropropane (DBCP) (µg/L)	0.2	0.2	< 0.01	<0.01	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Di (2-ethylhexyl) adipate (μg/L)	400	400	<0.6	<0.6	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Di (2-ethylhexyl) phthalate (μg/L)	6	6	<0.6	<0.6	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Dinoseb (µg/L)	7	7	<0.5	<0.5	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Diquat (μg/L)	20	20	<0.4	<0.4	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Endrin (µg/L)	2	2	<0.01	<0.01	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Endothall (µg/L)	100	100	<9	<9	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Ethylene dibromide (EDB) (µg/L)	0.05	0.05	< 0.01	<0.01	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Glyphosphate (μg/L)	700	700	<6	<6	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Heptachlor (µg/L)	0.4	0.4	< 0.04	<0.04	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Heptachlor Epoxide (µg/L)	0.2	0.2	< 0.02	<0.02	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Hexachlorobenzene (µg/L)	1	1	<0.1	<0.1	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Hexachlorocyclopent adiene (µg/L)	50	50	<0.1	<0.1	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No







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Lindane (µg/L)	0.2	0.2	< 0.02	< 0.02	April 18, 2014 April 18, 2014	March 10, 2014 March 11, 2014		No
Methoxychlor (μg/L)	40	40	<0.1	<0.1	June 16, 2014 April 18, 2014 April 18, 2014	May 5, 2014 March 10, 2014 March 11, 2014		No
Oxamyl (Vydate)	200	200	<1	<1	June 16, 2014 April 18, 2014 April 18, 2014	May 5, 2014 March 10, 2014 March 11, 2014		No
(μg/L) PCBs (as	200	200	<1	<1	June 16, 2014 April 18, 2014	May 5, 2014 March 10, 2014		NO
Decachlorobiphenol) (µg/L)	0.5	0.5	<0.5	<0.5	April 18, 2014 June 16, 2014	March 11, 2014 May 5, 2014		No
$\begin{array}{c} Pentachlorophenol \\ (\mu g/L) \end{array}$	1	1	<0.5	<0.5	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Picloram (µg/L)	500	500	<1	<1	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Simazine (µg/L)	4	4	<0.07	<0.07	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
2,3,7,8-TCDD (Dioxin) (pg/L)	30	30	<5	<5	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
Toxaphene (µg/L)	3	3	<1	<1	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
2,4,5-TP (Silvex) (µg/L)	50	50	<0.2	<0.2	April 18, 2014 April 18, 2014 June 16, 2014	March 10, 2014 March 11, 2014 May 5, 2014		No
21 Volatile Organic Chemicals	Vary for each contamin ant	Vary for each contami nant	Passed	Passed	2014	2014		No
Benzene (µg/L)	4121	1144114				A 11.7 2014		
	5	5	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
Carbon tetrachloride (µg/L)	5	5	<0.5	<0.5	Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014	Sep 9, 2014 Nov 17, 2014 April 7, 2014 Sep 9, 2014		No No
					Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014	Sep 9, 2014 Nov 17, 2014 April 7, 2014 Sep 9, 2014 Nov 17, 2014 April 7, 2014 Sep 9, 2014		
$\begin{array}{c} (\mu g/L) \\ \\ 0\text{-Dichlorobenzene} \\ (\mu g/L) \\ \\ Cis-1,2\text{-} \\ Dichloroethylene \end{array}$	5	5	<0.5	<0.5	Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014	Sep 9, 2014 Nov 17, 2014 April 7, 2014 Sep 9, 2014 Nov 17, 2014 April 7, 2014 Sep 9, 2014 Nov 17, 2014 April 7, 2014 Sep 9, 2014		No
$(\mu g/L)$ 0-Dichlorobenzene $(\mu g/L)$ Cis-1,2-	5	5	<0.5	<0.5	Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014	Sep 9, 2014 Nov 17, 2014 April 7, 2014 Sep 9, 2014 Nov 17, 2014 April 7, 2014 Sep 9, 2014 Nov 17, 2014 April 7, 2014		No No
$\begin{array}{c} (\mu g/L) \\ \\ 0\text{-Dichlorobenzene} \\ (\mu g/L) \\ \\ Cis-1,2\text{-} \\ Dichloroethylene} \\ (\mu g/L) \\ \\ Trans-1,2\text{-} \\ Dichloroethylene \\ \end{array}$	5 600 70	5 600 70	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014	Sep 9, 2014 Nov 17, 2014 April 7, 2014 Sep 9, 2014		No No
$\begin{array}{c} (\mu g/L) \\ \\ 0\text{-Dichlorobenzene} \\ (\mu g/L) \\ \\ Cis-1,2\text{-} \\ Dichloroethylene} \\ (\mu g/L) \\ \\ Trans-1,2\text{-} \\ Dichloroethylene} \\ (ug/L) \\ \\ 1,1\text{-Dichloroethylene} \end{array}$	5 600 70 100	5 600 70 100	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014 Dec 15, 2014 May 14, 2014 Oct 7, 2014	Sep 9, 2014 Nov 17, 2014 April 7, 2014 Sep 9, 2014 Nov 17, 2014 April 7, 2014 Sep 9, 2014 Nov 17, 2014 Sep 9, 2014 Nov 17, 2014 April 7, 2014 Sep 9, 2014 Nov 17, 2014 Sep 9, 2014 Nov 17, 2014		No No No







Dichloromethane (µg/L)	5	5	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
1,1,2-Trichloroethane (µg/L)	5	5	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
1,2,4-Trichloro- benzene (µg/L)	70	70	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
1,2-Dichloropropane (µg/L)	5	5	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
Ethylbenzene (μg/L)	700	700	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
Monochlorobenzene (μg/L)	100	100	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
para-Dichlorobenzene (μg/L)	75	75	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
Styrene (µg/L)	100	100	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
Tetrachloroethylene (μg/L)	5	5	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
Trichloroethylene (μg/L)	5	5	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
Toluene (µg/L)	1000	1000	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
Vinyl chloride (µg/L)	2	2	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
Xylene (total) (μg/L)	10000	10000	<0.5	<0.5	May 14, 2014 Oct 7, 2014 Dec 15, 2014	April 7, 2014 Sep 9, 2014 Nov 17, 2014		No
Disinfectant/Disinfect ion Byproducts	Vary for each contamin ant	Vary for each contami nant	Passed	Passed	2014	2014		No
Bromate (mg/L)	0.01	0.01	<0.003	<0.003	Monthly	2014	By-product of drinking water disinfection	No
Other	Vary for each contamin ant	Vary for each contami nant	Passed	Passed	2014	2014		No
рН	Around 7	Around 7	Around 7	Around 7	Monthly	2014		No
Chloramine (ppm)	MRDL=4	MRDLG =4	MRDL = 2.5	MRDL = 0.02	Monthly	2014	Disinfectant. Stabilized by ammonia. Procedure changed to test for chloramines in the future.	No







Contaminants(units)	Action Level (Allowed)	Action Level (Goal)	Highest Level Detected	Lowest Level Detected	Date of Detection	Date of Sample	Typical Sources of Contaminants	Viola tion
Lead & Copper *AL			Passed	Passed	2014	2014		No
Copper (mg/L)	1.3	1.3	0.24	<0.10	April 21, 2014 Dec 15, 2014	Mar 10, 2014 Nov 17, 2014	Corrosion of household plumbing systems; Erosion of natural deposits	No
Lead (mg/L)	0.015	0.015	0.0058	<0.0010	April 21, 2014 Dec 15, 2014	Mar 10, 2014 Nov 17, 2014	Corrosion of household plumbing systems; Erosion of natural deposits	No

Contaminants(units)	MCL (Allowed)	MCL (Goal)	Highest Level Detected	Lowest Level Detected	Date of Detection	Date of Sample	Typical Sources of Contaminants	Viola tion
Disinfectant/Disinfect ion Byproducts	Vary for each contamin ant	Vary for each contami nant	Passed	Passed	2014	2014		No
Total Trihalomethanes (TTHM) (µg/L)	80	60	52.9	41.5	April 18, 2014 May 14, 2014 June 16, 2014 Oct 7, 2014 Dec 15, 2014	March 10, 2014 April 7, 2014 May 5, 2014 Sep 9, 2014 Nov 17, 2014	By-product of drinking water disinfection	No
Total Haloacetic Acid (HAA5) (µg/L)	60	45	45	9.9	April 18, 2014 May 14, 2014 June 16, 2014 Oct 7, 2014 Jan 7, 2015	March 10, 2014 April 7, 2014 May 5, 2014 Sep 9, 2014 Dec 12, 2014	By-product of drinking water disinfection	No

Table Definitions:

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

AL Action Level, Based on 90th percentile level of tap water samples, the concentration of a contaminant which, if

exceeded, triggers treatment or other requirements which a water system must follow.

MCL Maximum Contaminant Level. The level of a 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 Disinfectant 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 contamination.

Table Abbreviations:

ppb parts per billion or micrograms per liter. Ppm parts per million or milligrams per liter Nd not detectable at testing limits Pg/L pico gram per liter n/a not applicable mg/L milligram per liter







