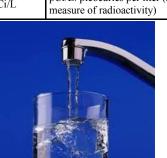
Important l	Important Drinking Water Definitions/Terms							
Term	Definition							
MCLG	Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.							
MCL	Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.							
TT	Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.							
AL	Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.							
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.							
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.							
NA	Not applicable							
SDWA	Safe Drinking Water Act: The federal law that protects public drinking water supplies throughout the nation.							
UCMR	Unregulated Contaminant Monitoring Rule: Monitoring used by the EPA to collect data for contaminants that are suspected to be present in drinking water and do not have health-based standards set under the SDWA.							

Unit Descriptions	3	
Term	Definition	1
ppm	ppm: parts per million, or milligrams per liter (mg/L)	
ppb	ppb: parts per billion, or micrograms per liter (µg/L)	
pCi/L	pCi/L: picocuries per liter (a measure of radioactivity)	



MCAS NEW RIVER WATER WATER SYSTEM HADNOT POINT WATER SYSTEM RIFLE RANGE WATER SYSTEM ONSLOW BEACH WATER SYSTEM

MCIEAST-MCB CAMLEJ

Questions?

For more information about this report, or for any questions relating to your drinking water, please call Robert Lowder (EMD) at (910) 451-5068.



2015 Annual Water Quality Report

Holcomb Boulevard Water Treatment System PWSID# 04-67-043



Marine Corps Base Camp Lejeune (MCB CAMLEJ) is pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality.

MCB CAMLEJ is committed to providing you with information because informed customers are our best allies.

Source Water

Eighteen drinking water supply wells provide groundwater from the Castle Hayne Aquifer to the Holcomb Boulevard Water Treatment Plant (WTP). There, the raw water is treated by filtration, disinfection, and softening practices prior to distribution to our customers.

The North Carolina Department of Environmental Quality, Public Water Supply Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina in order to determine the susceptibility of each drinking water source to potential contaminant sources. More information on the SWAP, including source water assessment reports, can be found on the web at http://www.ncwater.org/?page=600.

Water Quality

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. We routinely monitor for more than 150 contaminants that could potentially be in your drinking water. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. Unless otherwise noted, the table below lists all of the regulated drinking water contaminants that were detected during the 2015 calendar year. Although many more contaminants were tested, only those substances listed below were found in your water. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, definitions and abbreviations have been provided on the next page.

Regulated	Regulated MCLG MCL, Amo		Amount	Amount Range		Year	Violation	T. 1.10	
Contaminants	or MRDLG	MRDL	Detected	Low	High	Sampled	Violation	Typical Source	
Disinfectants & Disinfe	ection By-Pr	oducts							
Haloacetic Acids (HAA5) (ppb)	NA	60	26*	17	29	2015	No	By-product of drinking water chlorination	
Total Trihalomethanes (TTHMs) (ppb)	NA	80	64*	34	72	2015	No	By-product of drinking water disinfection	
Inorganic Contaminan	its								
Fluoride (ppm)	4	4	0.76	N	ΙA	2015	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	
Radioactive Contamin	Radioactive Contaminants								
Radium (combined 226/228) (pCi/L)	0	5	0.7	N	ΙA	2013	No	Erosion of natural deposits	

^{*} Result reported is the highest locational running annual average

Regulated Contaminants	MCLG	AL	Amount Detected	Year Sampled	# Samples Exceeding AL	Exceeds AL	Typical Source	
Inorganic Conta	Inorganic Contaminants							
Copper (ppm)	1.3	1.3	< 0.05	2013	0	No	Corrosion of household plumbing systems; erosion of natural deposits	
Lead (ppb)	0	15	6	2013	0	No	Corrosion of household plumbing systems; erosion of natural deposits	

Substances That Could Be in Water

To ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

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

For more information about contaminants and potential health effects, call the USEPA's Safe Drinking Water Hotline at (800) 426-4791.

Lead and Drinking Water 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. MCB CAMLEJ's Holcomb Boulevard Water Treatment System is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

UCMR3 Monitoring

MCB CAMLEJ conducted additional monitoring as part of Phase 3 of the EPA's Unregulated Contaminant Monitoring Rule (UCMR3). Information collected through the monitoring of these contaminants/chemicals will help the EPA makefuture decisions on drinking water standards. This table lists all of the unregulated constituents that were detected during UCMR3 sampling.

Contaminants	Average	Rai	Year		
Contaminants	Level	Low	High	Sampled	
UCMR3 Contan	ninants				
Chlorate (ppb)	333	130	570	2013	
Hexavalent chromium (ppb)	0.11	.088	.14	2013	
Strontium (ppb)	148	130	160	2013	

Voluntary Sampling Program

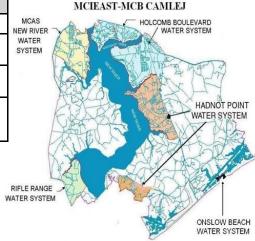
In addition to what is required by regulation, and as part of our commitment to ensure that we are providing the safest, most reliable drinking water possible to our Base population, MCB CAMLEJ has monitored drinking water for compounds found in explosives (nitroaromatics, nitramines, nitrate esters) and perchlorate in finished water since 2004, and raw groundwater starting in 2011. These compounds, commonly known as "munitions constituents", are used in the manufacture of explosives or are the breakdown products of compounds used in explosives. Voluntary water sampling in 2015 detected traces of one munitions constituent in wells supplying the Holcomb Boulevard Water Treatment System and two munitions constituents in the finished water. These trace amounts are not considered to be a public health concern. There are no MCLs established for munitions constituents.

Additionally, MCB CAMLEJ sampled both raw groundwater and finished water for listed Volatile Organic Contaminants (VOCs), Synthetic Organic Contaminants (SOCs) and inorganic contaminants. This sampling was done voluntarily above what is required by current regulations. Results of all voluntary testing were within regulatory drinking water standards.

Detections for voluntary sampling conducted throughout the Holcomb Boulevard system can be viewed on the web at http://www.lejeune.marines.mil/OfficesStaff/EnvironmentalMgmt/AnnualReports.aspx

Important	Important Drinking Water Definitions/Terms								
Term	Definition								
MCLG	Maximum Contaminant Level Goal: 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.								
MCL	Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.								
ТТ	Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.								
AL	Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.								
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.								
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.								
NA	Not applicable								
SDWA	Safe Drinking Water Act: The federal law that protects public drinking water supplies throughout the nation.								
UCMR	Unregulated Contaminant Monitoring Rule: Monitoring used by the EPA to collect data for contaminants that are suspected to be present in drinking water and do not have health-based standards set under the SDWA.								

Unit Descriptions						
Term	Definition					
ppm	ppm: parts per million, or milligrams per liter (mg/L)					
ppb	ppb: parts per billion, or micrograms per liter (μ g/L)					
% positive samples/month	% positive samples/month: Percent of samples taken monthly that were positive					





Questions?

For more information about this report, or for any questions relating to your drinking water, please call Robert Lowder (EMD) at (910) 451-5068.



2015 Annual Water Quality Report

Hadnot Point Water Treatment System PWSID# 04-67-041



Marine Corps Base Camp Lejeune (MCB CAMLEJ) is pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. From the beginning of the year through April 20, 2015, the Hadnot Point Water Treatment Plant was temporarily closed for maintenance. Drinking water was supplied by the Holcomb Boulevard Water Treatment Plant during this time. For information about water supplied by the Holcomb Boulevard Water Treatment Plant, see the 2015 Holcomb Boulevard Annual Water Quality Report.

MCB CAMLEJ is committed to providing you with information because informed customers are our best allies.

Source Water

Twenty-six drinking water supply wells provide groundwater from the Castle Hayne Aquifer to the Hadnot Point Water Treatment Plant (WTP). There, the raw water is treated by filtration, disinfection, and softening practices prior to distribution to our customers.

The North Carolina Department of Environmental Quality, Public Water Supply Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina in order to determine the susceptibility of each drinking water source to potential contaminant sources. More information on the SWAP, including source water assessment reports, can be found on the web at http://www.ncwater.org/?page=600.



Water Quality Data In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. We routinely monitor for more than 150 contaminants that could potentially be in your drinking water. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. Unless otherwise noted, the table below lists all of the regulated drinking water contaminants that were detected during the 2015 calendar year. Although many more contaminants were tested, only those substances listed below were found in your water. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, definitions and abbreviations have been provided on the next page.

Regulated Contaminants	MCLG or	MCL, TT, or	Amount Detected		nge	Year Sampled	Violation	Typical Source	
D:: 6 4 4 6 D:: 6	MRDLG	MRDL		Low	High	•			
Disinfectants & Disinfection By-Products									
Haloacetic Acids (HAA5) (ppb)	NA	60	221	16	25	2015	No	By-product of drinking water chlorination	
Total Trihalomethanes (TTHMs) (ppb)	NA	80	60 ¹	33	88 ²	2015	No	By-product of drinking water disinfection	
Inorganic Contaminan	ts								
Fluoride (ppm)	4	4	0.71	N	ĪΑ	2015	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	
Microbiological Contaminants									
Total Coliform (% positive samples/month)	0	5	2.5	N	ΙA	2015	No	Naturally present in the environment	

¹ Result reported is the highest locational running annual average

² The maximum level reported for TTHMs was above the MCL at one location. Because the 4-quarter average at that sampling location was not above the MCL there was no violation. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Regulated Contaminants	MCLG	AL	Amount Detected	Year Sampled	# Samples Exceeding AL	Exceeds AL	Typical Source
Inorganic Contan	ninants						
Copper (ppm)	1.3	1.3	< 0.05	2014	0	No	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	0	15	< 3	2014	0	No	Corrosion of household plumbing systems; erosion of natural deposits

Substances That Could Be in Water

To ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

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

For more information about contaminants and potential health effects, call the USEPA's Safe Drinking Water Hotline at (800) 426-4791.

Lead and Drinking Water 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. MCB CAMLEJ's Hadnot Point Water Treatment System is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

UCMR3 Monitoring

MCB CAMLEJ conducted additional monitoring as part of Phase 3 of the EPA's Unregulated Contaminant Monitoring Rule (UCMR3). Information collected through the monitoring of these contaminants/chemicals will help the EPA make future decisions on drinking water standards. This table lists all of the unregulated constituents that were detected during UCMR3 sampling.

Contaminants	Average	Ra	Year		
Contaminants	Level	Low	High	Sampled	
UCMR3 Contamin	ants				
Chlorate (ppb)	229	88	400	2014	
Chromium (ppb)	31	Only D	etection	2014	
Hexavalent chromium (ppb)	0.11	0.09	0.12	2014	
Strontium (ppb)	120	90	150	2014	
Vanadium (ppb)	0.21	Only D	etection	2014	

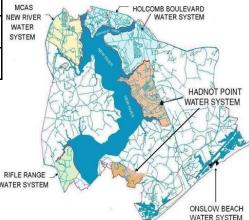
Voluntary Sampling Program In addition to what is required by regulation, and as part of our commitment to ensure that we are providing the safest, most reliable drinking water possible to our Base population, MCB CAMLEJ has monitored drinking water for compounds found in explosives (nitroaromatics, nitramines, nitrate esters) and perchlorate in finished water since 2004, and raw groundwater starting in 2011. These compounds, commonly known as "munitions constituents", are used in the manufacture of explosives or are the breakdown products of compounds used in explosives. Voluntary water sampling in 2015 detected traces of two munitions constituents in the finished water. These trace amounts are not considered to be a public health concern. There are no MCLs established for munitions constituents.

Additionally, MCB CAMLEJ sampled both raw groundwater and finished water for listed Volatile Organic Contaminants (VOCs), Synthetic Organic Contaminants (SOCs) and inorganic contaminants. This sampling was done voluntarily above what is required by current regulations. Results of all voluntary testing were within regulatory drinking water standards.

Detections for voluntary sampling conducted throughout the Hadnot Point system can be viewed on the web at http://www.lejeune.marines.mil/OfficesStaff/EnvironmentalMgmt/AnnualReports.aspx

Important 1	Important Drinking Water Definitions/Terms							
Term	Definition							
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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.							
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.							
NA	Not applicable							
SDWA	Safe Drinking Water Act: The federal law that protects public drinking water supplies throughout the nation.							
UCMR	Unregulated Contaminant Monitoring Rule: Monitoring used by the EPA to collect data for contaminants that are suspected to be present in drinking water and do not have health-based standards set under the SDWA.							

Unit Descriptions	
Term	Definition
ppm	ppm: parts per million, or milli- grams per liter (mg/L)
ppb	ppb: parts per billion, or mi- crograms per liter (µg/L)



MCIEAST-MCB CAMLEJ



Questions?

For more information about this report, or for any questions relating to your drinking water, please call Robert Lowder (EMD) at (910) 451-5068.



2015 Annual Water Quality Report

MCAS New River Water Treatment System
PWSID# 04-67-042



Marine Corps Base Camp Lejeune (MCB CAMLEJ) is pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality.

MCB CAMLEJ is committed to providing you with information because informed customers are our best allies.

Source Water

Eight drinking water supply wells provide groundwater from the Castle Hayne Aquifer to the MCAS New River Water Treatment Plant (WTP). There, the raw water is treated by filtration, disinfection, and softening practices prior to distribution to our customers.

The North Carolina Department of Environmental Quality, Public Water Supply Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina in order to determine the susceptibility of each drinking water source to potential contaminant sources. More information on the SWAP, including source water assessment reports, can be found on the web at http://www.ncwater.org/?page=600.

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Regulated	MCLG or MRDLG	MCL, TT, or MRDL	Amount Detected	Range		Year	X7. 1	m · 10		
Contaminants				Low	High	Sampled	Violation	Typical Source		
Disinfectants & Disinfection By-Products										
Haloacetic Acids (HAA5) (ppb)	NA	60	21*	14	26	2015	No	By-product of drinking water chlorination		
Total Trihalomethanes (TTHMs) (ppb)	NA	80	66*	34	78	2015	No	By-product of drinking water disinfection		
Inorganic Contaminan	Inorganic Contaminants									
Fluoride (ppm)	4	4	0.27	N	JΑ	2015	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories		

^{*} Result reported is the highest locational running annual average

Regulated Contaminants	MCLG	AL	Amount Detected	Year Sampled	# Samples Exceeding AL	Exceeds AL	Typical Source		
Inorganic Contai	Inorganic Contaminants								
Copper (ppm)	1.3	1.3	0.127	2013	0	No	Corrosion of household plumbing systems; erosion of natural deposits		
Lead (ppb)	0	15	11	2013	2	No	Corrosion of household plumbing systems; erosion of natural deposits		

Lead and Drinking Water 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. MCB CAMLEJ's MCAS New River Water Treatment System is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Substances That Could Be in Water

To ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

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

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Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities;

For more information about contaminants and potential health effects, call the USEPA's Safe Drinking Water Hotline at (800) 426-4791.

UCMR3 Monitoring

MCB CAMLEJ conducted additional monitoring as part of Phase 3 of the EPA's Unregulated Contaminant Monitoring Rule (UCMR3). Information collected through the monitoring of these contaminants/ chemicals will help the EPA make future decisions on drinking water standards.

This table lists all of the unregulated constituents that were detected during UCMR3 sampling.

Contaminants	Average	Rar	ige	Year Sampled						
Contaminants	Level	Low	High							
UCMR3 Contar	UCMR3 Contaminants									
Chlorate (ppb)	655	210	1100	2015						
Strontium (ppb)	195	120	250	2015						

Voluntary Sampling Program In addition to what is required by regulation, and as part of our commitment to ensure that we are providing the safest, most reliable drinking water possible to our Base population, MCB CAMLEJ has monitored drinking water for compounds found in explosives (nitroaromatics, nitramines, nitrate esters) and perchlorate in finished water since 2004, and raw groundwater starting in 2011. These compounds, commonly known as "munitions constituents", are used in the manufacture of explosives or are the breakdown products of compounds used in explosives. Voluntary water sampling in 2015 detected traces of one munitions constituent in wells supplying the MCAS New River Water Treatment System and three munitions constituents in the finished water. These trace amounts are not considered to be a public health concern. There are no MCLs established for munitions constituents.

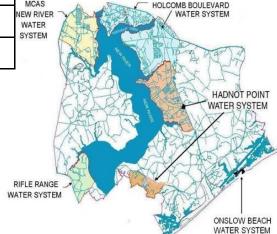
Additionally, MCB CAMLEJ sampled both raw groundwater and finished water for listed Volatile Organic Contaminants (VOCs), Synthetic Organic Contaminants (SOCs) and inorganic contaminants. This sampling was done voluntarily above what is required by current regulations. Results of all voluntary testing were within regulatory drinking water standards.

Detections for voluntary sampling conducted throughout the MCAS New River system can be viewed on the web at http://www.lejeune.marines.mil/OfficesStaff/EnvironmentalMgmt/AnnualReports.aspx

Important l	Important Drinking Water Definitions/Terms								
Term	Definition								
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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.								
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.								
NA	Not applicable								
SDWA	Safe Drinking Water Act: The federal law that protects public drinking water supplies throughout the nation.								

MCAS

Unit Descriptions							
Term	Definition						
ppm	ppm: parts per million, or milligrams per liter (mg/L)	N					
ppb	ppb: parts per billion, or micrograms per liter (μg/L)						



MCIEAST-MCB CAMLEJ



Ouestions?

For more information about this report, or for any questions relating to your drinking water, please call Robert Lowder (EMD) at (910) 451-5068.



2015 Annual Water Quality Report

Rifle Range Water Distribution System PWSID# 04-67-046



Marine Corps Base Camp Lejeune (MCB CAMLEJ) is pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality.

MCB CAMLEJ is committed to providing you with information because informed customers are our best allies.

Source Water

The MCB CAMLEJ Rifle Range system is supplied with drinking water from the Onslow Water and Sewer Authority (ONWASA). This system consists of a series of groundwater wells that are used to pump raw water from the Castle Hayne Aquifer, of which several of these wells source the ONWASA Dixon Water Treatment Plant. The 2015 ONWASA Water Quality Report can be accessed at http://www.onwasa.com.

The North Carolina Department of Environmental Quality, Public Water Supply Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina in order to determine the susceptibility of each drinking water source to potential contaminant sources. More information on the SWAP, including source water assessment reports, can be found on the web at http://www.ncwater.org/?page=600.

Water Quality Data In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. We routinely monitor for more than 150 contaminants that could potentially be in your drinking water. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. Unless otherwise noted, the table below lists all of the regulated drinking water contaminants that were detected during the 2015 calendar year. Although many more contaminants were tested, only those substances listed below were found in your water. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, definitions and abbreviations have been provided on the next page.

Regulated Contaminants	MCLG	MCL, TT, or MRDL	Amount Detected	Range		Year	X7: 1 4:	m	
	or MRDLG			Low	High	Sampled	Violation	Typical Source	
Disinfectants & Disinfection By-Products									
Haloacetic Acids (HAA5) (ppb)	NA	60	28*	27	28	2015	No	By-product of drinking water chlorination	
Total Trihalomethanes (TTHMs) (ppb)	NA	80	62*	57	62	2015	No	By-product of drinking water disinfection	
Inorganic Contaminants									
Fluoride (ppm)	4	4	0.66	N	ΙA	2015	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	

* Result reported is the highest locational running annual average

Regulated Contaminants	MCLG	AL	Amount Detected	Year Sampled	# Samples Exceeding AL	Exceeds AL	Typical Source		
Inorganic Contaminants									
Copper (ppm)	1.3	1.3	0.29	2013	0	No	Corrosion of household plumbing systems; erosion of natural deposits		
Lead (ppb)	0	15	< 3	2013	0	No	Corrosion of household plumbing systems; erosion of natural deposits		

Lead and Drinking Water 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. MCB CAM-LEJ's Rifle Range Water Distribution System is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Substances That Could Be in Water

To ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

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

For more information about contaminants and potential health effects, call the USEPA's Safe Drinking Water Hotline at (800) 426-4791.

Voluntary Sampling Program

In addition to what is required by regulation, and as part of our commitment to ensure that we are providing the safest, most reliable drinking water possible to our Base population, MCB CAMLEJ has monitored drinking water for compounds found in explosives (nitroaromatics, nitratines, nitrate esters) and perchlorate in finished water since 2004. These compounds, commonly known as "munitions constituents", are used in the manufacture of explosives or are the breakdown products of compounds used in explosives. Voluntary water sampling in 2015 detected traces of one munitions constituent in the Rifle Range Water Distribution System. These trace amounts are not considered to be a public health concern. There are no MCLs established for munitions constituents.

Additionally, MCB CAMLEJ sampled finished water for Volatile Organic Contaminants (VOCs), Synthetic Organic Contaminants (SOCs) and inorganic contaminants. This sampling was done voluntarily above what is required by current regulations. There were no detections of VOCs, SOCs, or inorganic contaminants from voluntary monitoring conducted in 2015.

Detections for voluntary sampling conducted throughout the Rifle Range system can be viewed on the web at http://www.leieune.marines.mil/OfficesStaff/EnvironmentalMgmt/AnnualReports.aspx