TX0800003 CYPRESS SPRINGS SUD N PLANT 1

Annual Water Quality Report for the period of January 1 to December 31, 2017

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

For more information regarding this report contact:

NameCypress Springs SUD_

Phone 903-588-2082

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (___)____.

CYPRESS SPRINGS SUD N PLANT 1 is Surface Water

Sources of Drinking Water

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

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

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 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.

- 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, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

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. We are responsible for providing high quality drinking water, but we 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.

Information about your Drinking Water

TCEQ Completed an assessment of your source water and results indicate that some of your source water are suseptable to certain contaminants. The sampling requirements for your water. system are based on this susceptable and previous sample data. Any detections of these contaminants may be found in this Consumer Confidence Report. For more imformation on source water assessments and protection efforts at our system, contact Kevin Spence.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=

Source Water Name		Type of Wa	ter Report Status	Location	
INTAKE 1 – Lake Cypress Springs	1 - 2	SW	<u>A</u>	N-east corner of FM 115 BRIDGE	• •
Public Participation Opportunities Date: 2 nd Tuesday of the month Location: 114 FM 115				-	•
Mt. Vernon,TX.75457 903-588-2082					

2017

Water Quality Test Results

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/26/2016	1.3	1.3	0.028	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	08/26/2016	0	15	1	0	ррb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

Definitions and Abbreviations

The following tables contain scientific terms and measures, some of which may require explanation.

Action Level:

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Water Quality Test Results	
Action Level Goal (ALG):	The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
Level 1 Assessment:	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been , found in our water system.
Level 2 Assessment:	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
Maximum Contaminant Level or MCL:	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.
Maximum Contaminant Level Goal or MCLG:	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.
Maximum residual disinfectant level or MRDL:	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.
Maximum residual disinfectant level goal or MRDLC	3: 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.
MFL	million fibers per liter (a measure of asbestos)
mrem:	millirems per year (a measure of radiation absorbed by the body)
na:	not applicable.
NTU	nephelometric turbidity units (a measure of turbidity)
pCi/L	picocuries per liter (a measure of radioactivity)
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
ppq	parts per quadrillion, or picograms per liter (pg/L)
ppt	parts per trillion, or nanograms per liter (ng/L)
Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2017	56	19.1 - 74.1	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

Total Trihalomethanes (TTHM)	2017	68	8.76 - 87	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2017	0.046	0.043 - 0.046	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2017	129	0 - 129	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2017	0.1	0.0627 - 0.0773	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2017	1	0 - 0.556	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2017	5.3	0 - 5.3	0	4	mrem/yr	N	Decay of natural and man-made deposits.

*EPA considers 50 pCi/L to be the level of concern for beta particles.

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Xylenes	2017	0.00114	0 - 0.00114	10	10	ppm	N	Discharge from petroleum factories; Discharge from chemical factories.

Turbidity

	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest single measurement	0.22 NTU	1 NTU	N	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration

95PT

Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.	
		6			- * }

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration

Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No, of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
· 0	l positive monthly sample.	There were no TCR detections for this system in this CCR period	•	0	N	Naturally present in the environment.

Maximum Residual Disinfectiont Level

Systems must complete and submit disinfection data on the Surface Water Monthly Operations Report (SWMOR). On the CCR report, the system must provide disinfectant type, minimum, maximum and average levels.

Year	Disinfectant	Average Level	Minimum Level	Maximum Lavel	MRDLMRDLO	Unit of Measure	Source of Chemical
1 . ···	Disinfectant Used	Average level of CGR	Minimin result. single sample.	Maximum result	4.0. <4:0	.ppm	Dislafectant used to
2017	Chlorami		1 0	ancena eautible			control uniterobation

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

- Water Loss: During the 2013 83rd regular Legistlative Session, House Bill (HB1461) was passed on September 1,2013. HB1461 requires any public water system to file a water loss audit with the Texas Water Development Board. The water system also has to notify it's customers on the most recent report. The Water Loss Audit 2017 for Cypress Springs SUD North Plant 1 is 19,345,425gallons at 9%.
- Violation Notice : On 7-19-2016 we were notified by TCEQ that we exceeded the MCL for secondary constituent level for aluminum. The SMCL for Aluminum is .20mg/l. Our annual test result from the lab were .34mg/l.This is not an emergency. The E.P.A. state there are no adverse health effects. You do not need to use an alternate water supply. We are taking corrective actions(treatment techniques and modifications) to get this level back in compliance as soon as possible.

TX0800003 CYPRESS SPRINGS SUD N-EAST PLANT 3

Annual Water Quality Report for the period of January 1 to December 31, 2017

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

For more information regarding this report contact:

Name Cypress Springs SUD_

Phone 903-588-2082

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (___)__-__.

CYPRESS SPRINGS SUD N-EAST PLANT 3 is Surface Water

Sources of Drinking Water

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

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

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 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.

- 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, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

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. We are responsible for providing high quality drinking water, but we 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.

Information about your Drinking Water

TCEQ completed an assessment of your source water and results indicate that some of your source water are suseptable to certain contaminants. The sampling requirements for your water system are based on this susceptible and previous sample data. Any detections of these contaminants may be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, contact Kevin Spence.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=

Source Water Name		Type of Water	Report Status	Location	۰.
INTAKE 1 – Lake Cypress Springs	1-2	sw	<u>A</u>	N-EAST corner of dam on FM 3007	
Public Participation Opportunities Date : 2 nd Tuesday of the month Time: 7:00 pm Location : 114 FM 115 Mt. Vernon, TX. 75457 903-588-2082					

2017

Water Quality Test Results

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/26/2016	1.3	1.3	0.028	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	08/26/2016	0	15	1	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

Definitions and Abbreviations

The following tables contain scientific terms and measures, some of which may require explanation.

Action Level:

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Water Quality Test Results	
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Level 1 Assessment:	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
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Maximum Contaminant Level or MCL:	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.
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Maximum residual disinfectant level or MRDL:	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.
Maximum residual disinfectant level goal or MRDLO	3: 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.
MFL	million fibers per liter (a measure of asbestos)
mrem:	millirems per year (a measure of radiation absorbed by the body)
na:	not applicable.
NTU	nephelometric turbidity units (a measure of turbidity)
pCi/L	picocuries per liter (a measure of radioactivity)
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
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pqq	parts per quadrillion, or picograms per liter (pg/L)
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Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2017	56	19.1 - 74.1	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

Total Trihalomethanes (TTHM)	2017	68	8.76 - 87	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2017	0.046	0.043 - 0.046	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2017	129	0 - 129	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2017	0.1	0.0627 - 0.0773	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2017	1	0 - 0.556	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2017	5.3	0 - 5.3	0	4	mrem/yr	N	Decay of natural and man-made deposits.

*EPA considers 50 pCi/L to be the level of concern for beta particles.

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Xylenes	2017	0.00114	0 - 0.00114	10	10	ppm	N	Discharge from petroleum factories; Discharge from chemical factories.

Turbidity

	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest single measurement	0.22 NTU	1 NTU	Ν	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration

95PT

Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.	

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration

Coliform Bacteria

'Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No, of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
. 0		There were no TCR detections for this system in this CCR period		0	И	Naturally present in the environment.

Maximum Residual Disinfectant Level

Systems must complete and submit disinfection data on the Surface Water Monthly Operations Report (SWMOR). On the CCR report, the system must provide disinfectant type, minimum, maximum and average levels.

Year	Disinfectant	Average Level	Minimum Level	Maximum "Lavel	MRDLM	RDLO	Unit of Measure	Source of Chemical
2017	Olsinfectant Used Chloramin	Look A COMMONY	Minimum result singla sampla,	Maximum result slogie sample	4.0	<4:0	.ppm	Disinfectant used to control microscies.

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

Water Loss: During the 2013 83rd regular Legistlative Session ,House Bill (HB1461) was passed 0n September 1,2013. HB1461 requires any public water system to file a water loss audit with the Texas Water Development Board. The water system also has to notify it's customers on the most recent report. The Water Loss Audit 2017 for Cypress Springs SUD Northeast Plant 3 was 16,945,097 gallons at 6.8%.

Violation notice: On 7-19- 2016 we were notified that we exceeded the MCL for secondary constituent level for aluminum. The SMCL for Aluminum is .20mg/l. our annual test result from the lab were .28mg/l. This is not an emergency. The E.P A .state there are no adverse health effects. You do not need to use an alternate water supply. We are taking corrective actions (treatment techniques and modifications) to get this level back in compliance as soon as possible.

TX0800016 CYPRESS SPRINGS SUD SOUTH PLANT

Annual Water Quality Report for the period of January 1 to December 31, 2017

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For more information regarding this report contact:

NameCypress Springs SUD_____

Phone 903-588-2082_____

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CYPRESS SPRINGS SUD SOUTH PLANT is Surface Water

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- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

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

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For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=

Source Water Name		Type of Water	Report Status	Location
INTAKE 1 Lake Cypress Springs		SW	<u>A</u>	1-2 tranfer pumps raw water intake on southside of
Public Participation Opportunities Date: 2 nd Tuesday of the month Location: 114 FM 115 Mt.Vernon,Tx 75457 903-588-2082				FM 115 bridge
	2017	Water Quality Test Results		

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/21/2016	1.3	1.3	0.022	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

Water Quality Test Results	
Definitions and Abbreviations	The following tables contain scientific terms and measures, some of which may require explanation.
Action Level:	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Action Level Goal (ALG):	The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
Level 1 Assessment:	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

4

Water Quality Test Results

Level 2 Assessment:	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
Maximum Contaminant Level or MCL:	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.
Maximum Contaminant Level Goal or MCLG:	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.
Maximum residual disinfectant level or MRDL:	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.
Maximum residual disinfectant level goal or MRDLO	G: 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.
MFL	million fibers per liter (a measure of asbestos)
mrem:	millirems per year (a measure of radiation absorbed by the body)
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Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2017	35	1.1 - 30.9	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2017	59	40.2 - 57.2	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

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Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Asbestos	03/12/2013	0.1987	0.1987 - 0.1987	7	7	MFL	N	Decay of asbestos cement water mains; Erosion of natural deposits.
Barium	2017	0.044	0.044 - 0.044	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2017	0.3	0.279 - 0.279	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2017	0.19	0.19 - 0.19	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite [measured as Nitrogen]	06/24/2013	0.008	0.008 - 0.008	1	1	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	09/22/2015	7.1	7.1 - 7.1	0	4	mrem/yr	N	Decay of natural and man-made deposits.

*EPA considers 50 pCi/L to be the level of concern for beta particles.

Combined Radium 226/228	09/22/2015	1.5	1.5 - 1.5	0	5	pCi/L	N	Erosion of natural deposits.
								*

Turbidity

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	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination	
Highest single measurement	0.25 NTU	1 NTU	N	Soil runoff.	
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.	

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

Coliform Bacteria

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'Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No, of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No, of Positive E, Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
· 0	monthly sample.	There were no TCR detections for this system in this CCR period	•	0	N	Naturally present in the environment.

Maximum Residual Disinfectant/Level

Systems must complete and submit disinfection data on the Surface Water Monthly Operations Report (SWMOR). On the CCR report the system must provide disinfectant type, minimum, maximum and average levels.

Year,	Disinfectant	Average Lovel	Minimum Lavel	Meximum Lavel	MROL MRDLO	Unit of Measure	Source of Chemical
2017 ا	Clainfactant used Chlorami	your qualledy	Minimum reșult single și mple, 1.8	Maximum result slogile sample 3.5	4.0 41:0	ridat.	Clistefectant Uked to control microBak

Water Loss : During the 2013 83rd regular Legislative Session, House Bill (HB1461) was passed. It became effective on September 1,2013.

HB1461 requires any retail public water system to file a water loss audit with the Texas Water Development Board. The water system also has to notify their customers on the most recent report. The water loss for 2017 was 7,722,190 gallons at 11.75%. CSSUD is currently using (BMP) Best Management Practices, replacing old lines and meters to reduce water loss.

TX0800012 CYPRESS SPRINGS SUD PINE VALLEY

Annual Water Quality Report for the period of January 1 to December 31, 2017

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

For more information regarding this report contact:

NameCypress Springs SUD_

Phone 903-588-2082

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (___)___-__.

CYPRESS SPRINGS SUD PINE VALLEY is Ground Water

Sources of Drinking Water

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

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

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 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.

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, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

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. We are responsible for providing high quality drinking water, but we 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.

Information about your Drinking Water

A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment allows us to focus source water protection strategies.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=

wood preservatives; Corrosion of house plumbing systems.					Type of Water	Report	t Status	Location	
E: 2 nd Tuesday of the month ation: 114 FM 115 Mt. Vernon, Tx.75457 903-588-2082 2017 Water Quality Test Results Lead and Copper Date Sampled MCLG Action Level (AL) 90th Percentile # Sites Over AL Units Violation Likely Source of Contamination Copper 2017 1.3 1.3 0.103 0 ppm N Erosion of natural deposits; Leaching fn wood preservatives; Corrosion of house plumbing systems.	Carizzo/Wilcox Aquifer				GW		Y	Canadian Rd Lot 188	·
Lead and Copper Date Sampled MCLG Action Level (AL) 90th Percentile # Sites Over AL Units Violation Likely Source of Contamination Copper 2017 1.3 1.3 0.103 0 ppm N Erosion of natural deposits; Leaching fr wood preservatives; Corrosion of house plumbing systems.	e: 2 nd Tuesday of the ation: 114 FM 115 Mt. Vernon,Tx	month .75457							
Copper 2017 1.3 1.3 0.103 0 ppm N Erosion of natural deposits; Leaching fr wood preservatives; Corrosion of house plumbing systems.			2017	Water Qualit	y Test Results				
wood preservatives; Corrosion of house plumbing systems.	Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
	Copper	2017	1.3	1.3	0.103	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of househol plumbing systems.
Lead 2017 0 15 1.4 0 ppb N Corrosion of household plumbing system Erosion of natural deposits.		2017	0	15	1.4	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.
	Lead Water Quality Test Definitions and Abbrevia Action Level:			ving tables contain scie entration of a contamin					water system must follow.
Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.	Water Quality Test Definitions and Abbrevia Action Level:	ations	The conce	entration of a contamin	ant which, if excee	ded, triggers treatn	nent or other	r requirements which a v	

Water Quality Test Results

Level 1 Assessment:	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
Level 2 Assessment:	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
Maximum Contaminant Level or MCL:	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.
Maximum Contaminant Level Goal or MCLG:	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.
Maximum residual disinfectant level or MRDL:	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.
Maximum residual disinfectant level goal or MRDLG	: 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.
MFL	million fibers per liter (a measure of asbestos)
mrem:	millirems per year (a measure of radiation absorbed by the body)
na:	not applicable.
NTU	nephelometric turbidity units (a measure of turbidity)
pCi/L	picocuries per liter (a measure of radioactivity)
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
ppq	parts per quadrillion, or picograms per liter (pg/L)
ppt	parts per trillion, or nanograms per liter (ng/L)
Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	09/21/2016	28.8	28.8 - 28.8	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	09/21/2016	48.5	48.5 - 48.5	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	06/22/2016	0.025	0.025 - 0.025	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	06/22/2016	0.106	0.106 - 0.106	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2017	0.051	0.051 - 0.051	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No, of Positive E, Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
· 0	monthly sample.	There were no TCR detections for this system in this CCR period		0	N	Naturally present in the environment,

Maximum Residuel Disinfectant Level

Systems must complete and submit disinfection data on the Surface Water Monthly Operations Report (SWMOR). On the CCR report, the system must provide disinfectantizer, minimum, maximum and average levels.

Year, Disinfectant	Average Lovel	Minimum Level	Maximum "Lavel	MRDLW	IRDLO	Unit of Measure	Source of Chemical
Disinfectant esed 2017 Free Chlo	yoara guarlady	single: sample.	ingle sample	4.Q. ·	e4:0	ppm '.	Distriectant used for control microbate:

Vater Loss : During the 2013 83rd Legistlative Session, House Bill (HB1461) was passed. It became effective on September 1,2013. HB1461 requires any retail public

water system to file a water loss audit with the Texas Water Development Board. The water system also has to notify it's customers on the most recent

report. The 2017 Water Loss Audit for CSSUD Pine Valley was 198,394 gallons at 3.75%. CSSUD is currently using (BMP) Best Management Practices, replacing old lines and meters to reduce water loss.