2013 Annual Drinking Water Quality Report Consumer Confidence Report(CCR)

PWS ID NUMBER: TX0310005 PWS Name: LAGUNA MADRE WATER DISTRICT

Annual Water Quality Report for the period of January 1 to December 31, 2013

For more information regarding this report

contact:

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.

Est

Name: Carlos Galvan Phone: (956)943-2626

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (956)943-2626.

LAGUNA MADRE WATER DISTRICT is surface water

Sources of Drinking Water

The sources of 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-occuring minerals and, in some cases, radioactive material, and can pickup 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-occuring 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.

Radioactive contaminants, which can be naturally-occuring 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 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 plumbming. We are responsible for providing high quality drinking water, but we cannot control the variety of materials used in plumbming 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 Source Water Assessments

A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commision on Environmental Quality. This information describes the susceptibility 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 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/swar/Controller/index.jsp?wtrsrc=

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: http://dww.tceq.texas.gov/DWW

Source Water Name PLANT 1

PLANT 2

Type of Water

SW SW

2013 Requisted Contaminants Detected

Lead and Copper

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected riskto health. ALGs allow for a margin of safety,

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	#Sites Over AL	Units	VIOLATION	Likely Source of Contemination
Copper	2013	1,3	1.3	0.171	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.
Lead	2013	0	16	3.78	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

Definitions

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

Avg:

na: NTU

Regulatory compliance with some MCLs are based on running average of monthly samples.

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 fessable 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 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

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) not applicable

nephelometric turbidity units (a measure of turbidity)

pCI/L picocuries per liter (a measure of radioactivity) pph:

micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water. milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

parts per trillion, or nanograms per liter (ng/L) parts per quadrillion, or picograms per liter (pg/L)

Regulated Contaminants	3							
Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Total Haloacetic Acids (HAA5) *	2013	56	12.1 - 40.2	No goal for the total	60	pub	N	By-product of drinking water chlorination.
Total Trihalomethanes (TThm) *	2013	112	27.5 - 101	No goal for the total	80	bbp	Υ	By-product of drinking water chlorination.
inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Antimony	2010	1,08	0,493-1,06	6	6	ppb	N,	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; test addition.
Arsenia	2013	4	2.7 - 3.5	0	10	Ьбр	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Badum	2013	0.103	0.0987-0.103	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	2010	1,13	0.431 - 1.13	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Flouride	2013	0.6	0.48-0.58	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth;Discharge from fertilizer and aluminum.
Nitrate [messured as Vitrogen]	2013	0,44	0,06-0.44	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2013	10	4.4-5	50	50	ppb	N	Discharge from petroteum and metal refineries; Erosion of natural deposits; Discharge from mines.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contemination
Betz/photon emitters	3/20/2008	6	6-8	0	50	pCM.*	N	Decay of natural and man-made deposits,

^{*} EPA considers 50 pCl/L to be the level of concern in beta particles. Turbidity

Limit (Treatment Technique) Level Detected Likely Source of Contamination 1 NTU Highest single measurement 0.77 NTU Soil runoff. 0.3 NTU 95.71% Lowest monthly % meeting limit Soll ranoff.

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

Violations Table Consumer Confidence Rule The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of the water delivered by the systems. Violation End Violation Explanation Violation Begin Violation Type We failed to provide to you, our drinking water customers, an annual report that 6/20/2013 informs you about the quality of our drinking water and characterizes the risks CCR REPORT 07/01/2012 from exposure to contaminants detected in our drinking water. Lead and Copper Rule The Lead and Copper Rule protects the public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper plumbming materials

Violation End

2013

Violation Explanation

than 30 days after learning the results.

We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later

Violation Begin

12/30/2013

Violation Type

LEAD CONSUMER NOTICE (LCR)

1									
ı	Public Notification Rule								
	The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious								
	problem with their drinking water (e.g., a boil water emergency).								
	Violation Type	Violation Begin	Violation End	Violetion Explanation					
	PUBLIC NOTICE RULE LINKED TO VIOLATION	11/04/2010	2013	We falled to adequately notify you, our drinking water consumers, about a					

Total Trihalomethanes (TTHM)							
Some people who drink water containing trihelomethanes 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.	14.3						
Violation Type	Violation Begin	Violation End	Violation Explanation				
MCL, AVERAGE	01/01/2013	03/31/2013					
		J	Water samples showed that the amount of this contaminant in our drinking				
MCL, AVERAGE	04/01/2013	06/30/2013	water was above its standard (called a maximum contaminant level and abbreviated MCL.)				
			for the period indicated.				
MCL AVERAGE	7/1/2013	9/30/2013					