#### LT2 Rule

protection of your drinking water supply. fo ləvəl rətgint a bivorq bna snoisalugər drinking water. The rule will bolster existing and other disease-causing microorganisms in linked with the contaminant Cryptosporidium (LT2) for the sole purpose of reducing illness The U.S. EPA has created the Long Term 2 Enhanced Surface Water Treatment Rule

:gniwollof Sampling of our water source has shown the

Cryptosporidium: (0-2 IFA Count)

Giardia lamblia: ( 0-1 IFA Count )

·1674-824 EPA's Safe Drinking Water Hotline at (800) supply. For more information, contact the U.S. only and not from our treated drinking water from our Rio Grande River raw water source It is important to note that these results are

PWS ID#: TX0310096/TX0310031

Presented By: East Rio Hondo WATER SUPPLY CORPORATION

Water testing performed in 2009

ANNUAL

For more information about this report, or 🥑 įsuoitsənC

and protection efforts, contact the TCEQ

more information on source water assessments

shown in this consumer confidence report. For

data. Any detection of these contaminants is

on this susceptibility and on previous sample

requirements for your water system are based

to certain contaminants. The sampling

indicate that some of our sources are susceptible

an assessment of your source water, and results

Environmental Quality) has completed

The TCEQ (Texas Commission on

Source Water Assessment

Region 15 office at (956) 425-6010.

### for any questions relating to your drinking

.656) 748-3633.

## water, please call Veronica Medrano at

E

H<sub>2</sub>O

WSC

(956) 748-3633

Community Participation

in which area of the Rio Grande watershed the inflow originates.

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sobre el agua para tomar. Para asistencia en espanol, favor de llamar al telefono



Water Supply Corporation (ERHWSC) Main Office, 206 Industrial Parkway, Rio Hondo, Texas.

Vou are invited to participate in our public forum and voice your concerns about your drinking

in level, depending on inflows from other states and from Mexico. Water quality varies depending

the Rio Grande Valley is stored in both Amistad and Falcon reservoirs. These reservoirs fluctuate

ERHWSC. Analyses for all four water sources are included in this report. Rio Grande water for

Corporation or from Harlingen Waterworks System (WWW) via an interconnect pipeline with

of the Combes and North Harlingen areas may receive water from North Cameron Water Supply

pipeline located on FM 1847. The Arroyo City plant is also supplied water by CCID2. Members

Plant, located west of Arroyo City off of FM 2925, or from ERHWSC through an interconnect

Members of the Arroyo City area receive water produced from the 0.6 MGD Arroyo City Treatment

two plants can deliver water to all locations in our service area, depending upon system demands.

transferred to both plants by Cameron County Irrigation District Number Two (CCID2). These

MGD Martha Ann Simpson Treatment Plant. Water is pumped from the Rio Grande River and

Road Treatment Plant south of FM 1561. In March of 2009 we put into production our new 8.0

facilities. For 27 years, ERHWSC has operated the 3.2 million gallon per day (MGD) Nelson service area, you receive processed Rio Grande River water from one of four treatment

epending on where you live in the East Rio Hondo Water Supply Corporation (ERHWSC)

- water. We meet the second Monday of each month beginning at 7 p.m. at the East Rio Hondo



East Rio Hondo Water Supply Corporation 206 Industrial Parkway / P.O. Box 621

Rio Hondo, TX 78583

#### sbrahnet? AgiH gninistnisM

stand behind you and the drinking water we work diligently to provide. drinking water possible. There may be other hurdles in the future but know that we will always this we have maintained our high standards in an effort to continue delivering the best quality years have presented many of us with challenges we could not have imagined. Yet, in spite of testing performed between January 1 and December 31, 2009. The events of the past few nce again we are proud to present our annual water quality report. This report covers all

Should you ever have any questions, we are always available to assist you. We encourage you to share your thoughts with us on the information contained in this report.

#### Important Health Information



Rio Hondo Water Supply Corporation is responsible for providing high-quality materials and components associated with service lines and home plumbing. East I pregnant women and young children. Lead in drinking water is primarily from f present, elevated levels of lead can cause serious health problems, especially for

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

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

 $10^{+0.0}$  CMp to the Water Hair Mater Distribution of the Mater Hotline at ( $10^{-0.0}$ 

oil and gas production, mining, or farming; industrial or domestic wastewater discharges, may result from urban stormwater runoff, metals, which can be naturally occurring or

urban stormwater runoff, and residential uses; from a variety of sources such as agriculture, Pesticides and Herbicides, which may come

come from gas stations, urban stormwater petroleum production and which may also are by-products of industrial processes and synthetic and volatile organic chemicals, which Organic Chemical Contaminants, including

runoff, and septic systems;

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

Drinking Water Hotline at (800) 426-4791. potential health effects, call the U.S. EPA's Safe more information about contaminants and water, please contact our business office. For information on taste, odor, or color of drinking necessarily causes for health concerns. For more problems. These types of problems are not water that may cause taste, color, or odor Contaminants may be found in drinking

#### - Substances That Could Be in Water

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

that may be present in source water include: animals or from human activity. Substances and substances resulting from the presence of minerals, in some cases, radioactive material, the ground, it can acquire naturally occurring travels over the surface of the land or through ponds, reservoirs, springs, and wells. As water and bottled water) include rivers, lakes, streams, The sources of drinking water (both tap water

livestock operations, or wildlife; treatment plants, septic systems, agricultural and bacteria, which may come from sewage Microbial Contaminants, such as viruses

Inorganic Contaminants, such as salts and

Where Does My Water Come From? –

Res	Samp
ults	gui

**REGULATED SUBSTANCES** 

The tables below show only those contaminants that were detected in the water. Although all During the past year we have taken hundreds of water samples to determine the presence of any radioactive, biological, inorganic, volatile organic, or synthetic organic contaminants.

> in the water. of the substances listed here are under the Maximum Contaminant Level (MCL), we feel it is important that you know exactly what was detected and how much of the substance was present

concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken. The state requires us to monitor for certain substances less than once per year because the

				East Rio H Supply C	East Rio Hondo Water Supply Corporation	Harlingen Water Wor	· Works System	Arroyo Water Plant	ater Plant	North Cameron Regional Water Supply Corporation	Regional Water rporation		
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]	MCLG [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Arsenic (ppb)	2009	10	NA	2.5	2.5-2.5	NA	NA	2	2-2	NA	NA	No	Erosion of natural deposits; runoff from orc
Atrazine (ppb)	2009	З	3	0.11	0.11 - 0.11	NA	NA	NA	NA	NA	NA	No	Runoff from herbicide used on row crops
Barium (ppm)	2009	2	2	0.109	0.109-0.109	NA	NA	0.11	0.11-0.11	NA	NA	No	Discharge of drilling wastes; Discharge from
Beta/Photon Emitters <sup>1</sup> (pCi/L)	2009	50	0	6.4	6.4 - 6.4	NA	NA	NA	NA	NA	NA	No	Decay of natural and man-made deposits
Chloramines (ppm)	2009	[4]	[4]	$2.80^{2}$	0.6-4.9	NA	NA	$2.4^{3}$	0.50-5.3	2.24	0.31-4.20	No	Disinfectant additive used to neutralize mic
Chlorine Dioxide (ppb)	2009	800	800	190	ND-190	NA	NA	NA	NA	NA	NA	No	Water additive used to control microbes
Chlorite (ppm)	2009	1	0.8	0.51	0.01-0.92	NA	NA	NA	NA	NA	NA	No	By-product of drinking water disinfection
Fluoride (ppm)	2009	4	4	0.44	0.40-0.44	0.44	0.42-0.46	0.42	0.42-0.42	NA	NA	No	Erosion of natural deposits; Water additive
Haloacetic Acids [HAA] (ppb)	2009	60	NA	19.4	18.0-22.6	NA	NA	15.1	15.1–15.1	NA	NA	No	By-product of drinking water disinfection
Nitrate (ppm)	2009	10	10	0.17	0.09-0.17	0.22	0.08-0.35	0.04	0.04 - 0.04	0.05	0.05-0.05	No	Runoff from fertilizer use; Leaching from se
Selenium (ppb)	2009	50	50	5.8	5.8-5.8	NA	NA	NA	NA	NA	NA	No	Discharge from petroleum and metal refiner
TTHMs [Total Trihalomethanes] (ppb)	2009	80	NA	46.8	37.7-51.7	NA	NA	20.7	20.7-20.7	NA	NA	No	By-product of drinking water chlorination
Total Organic Carbon (ppm)	2009	TT	NA	2.05	0.84-2.05	NA	NA	1.91	0.93 - 1.91	NA	NA	No	Naturally present in the environment
Turbidity <sup>4</sup> (NTU)	2009	TT	NA	0.31	0.02 - 0.31	0.30	ND-0.30	0.29	0.04-0.29	NA	NA	No	Soil runoff
<b>Turbidity</b> (Lowest monthly percent of samples meeting limit)	2009	TT	NA	100	NA	100	NA	100	NA	NA	NA	No	Soil runoff
Tap water samples were collected for lead and copper analyses from sample sites throughout the communities	analyses from sa	mple sites th	roughout the co	mmunities									

		East Rio Hondo Water	Supply Corporation	Arroyo Wate	er Plant		
SUBSTANCE YEAR (UNIT OF MEASURE) SAMPLED AL	MCLG	AMOUNT DETECTED (90TH % TILE)	SITES ABOVE AL/ TOTAL SITES	AMOUNT DETECTED (90TH%TILE)	SITES ABOVE AL/TOTAL SITES	VIOLATION	TYPICAL SOURCE
<b>Copper</b> (ppm) 2007 1.3 1.3	1.3	$0.129^{5}$	0/30	$0.083^{6}$	$0/10^{6}$	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb) 2007 15	0	1.45	0/30	26	$0/10^{6}$	No	Corrosion of household plumbing systems; Erosion of natural deposits
SECONDARY SUBSTANCES							

		er Plant	Arroyo Water Plant	System	Harlingen Water Works System	Harlingen	poration	East Rio Hondo Water Supply Corporation	t Rio Hondo W	Eas			
												STANCES 7	UNREGULATED SUBSTANCES <sup>7</sup>
To Runoff/leaching from natural deposits; Industrial wastes	No	NA	NA	0.02-0.02	0.02	NA	NA	0.02-0.02	0.02	NA	5	2009	Zinc (ppm)
Io Runoff/leaching from natural deposits	No	NA	NA	719–719	719	819-875	847	732–895	895	NA	1000	2009	Total Dissolved Solids [TDS] (ppm)
lo Runoff/leaching from natural deposits; Industrial wastes	No	NA	NA	253-253	253	295-307	301	263-286	286	NA	250	2009	Sulfate (ppm)
lo Naturally occurring; Measure of corrosivity of water	No	NA	NA	7.3–7.3	7.3	7.4-7.5	7.4	7.2-7.4	7.4	NA	6.5-8.5	2009	<b>pH</b> (Units)
Io Leaching from natural deposits	No	NA	NA	64–64	64	NA	NA	29-29	29	NA	50	2009	Manganese (ppb)
To Leaching from natural deposits; Industrial wastes	No	NA	NA	19–19	19	NA	NA	16-16	16	NA	300	2009	<b>Iron</b> (ppb)
Io Runoff/leaching from natural deposits	No	NA	NA	141-141	141	197-201	199	155-219	219	NA	250	2009	Chloride (ppm)
To Erosion of natural deposits; Residue from some surface water treatment processes	No	NA	NA	58-58	58	NA	NA	42-42	42	NA	200	2009	Aluminum (ppb)
ITION TYPICAL SOURCE	VIOLATION	RANGE LOW-HIGH	AMOUNT	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT	RANGE LOW-HIGH	AMOUNT DETECTED	MCLG	MCL	YEAR SAMPLED	SUBSTANCE (UNIT OF MEASURE)
		North Cameron Regional Water Supply Corporation	North Cam Water Supp	Arroyo Water Plant	Arroyo \	Harlingen Water Works System	Harlingen <sup>1</sup> Sy	East Rio Hondo Water Supply Corporation	East Rio H Supply C				

		East Rio Hondo Wa	East Rio Hondo Water Supply Corporation	Harlingen Wat	Harlingen Water Works System	Arroyo Water Plant	er Plant	
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT	RANGE LOW-HIGH	TYPICAL SOURCE
Bromodichloromethane (ppb)	2009	9.4	4.3–13.5	NA	NA	10	10-10	By-product of drinking water disinfection
Bromoform (ppb)	2009	10.4	4.5-19.6	NA	NA	3.9	3.9-3.9	By-product of drinking water disinfection
Chloroform (ppb)	2009	5.4	3.5-6.9	NA	NA	6.4	6.4-6.4	By-product of drinking water disinfection
Dibromochloromethane (ppb)	2009	12.9	7.3–17.9	NA	NA	7.4	7.4-7.4	7.4–7.4 By-product of drinking water disinfection
Hardness as Ca/Mg (ppm)	2009	290	290-290	NA	NA	NA	NA	Naturally occurring calcium and magnesium
Sodium (ppm)	2009	122	122-122	NA	NA	125	125-125	Runoff/leaching from natural deposits
Total Alkalinity [as CaCO3] (ppm)	2009	110	93-110	99	88-110	NA	NA	Naturally occurring soluble mineral salts

<sup>5</sup> Texas Commission on Environmental Quality has <sup>3</sup>The MRDL/MRDLG <sup>2</sup> The MRDL/MRDLG established a 3-year lead and copper sampling interval for East Rio Hondo W.S.C. The data reported of suspended particulates. Turbidity in water is considered as a measurement of the quality of <sup>+</sup>Turbidity is a measure of the degree to which the that include a range The MCL for beta particles is 4 mrem/year. The U.S. EPA considers 50 pCi/L to be the level of concern for drinking water and warranted. Any unr the U.S. EPA has not Unregulated contaminants are those for which copper in 2009. Arroyo City water system was sampled for lead and runoff. that include a range vast area of Arroyo ( annual average. After analyzing over 300 samples coverage, our annual running average of Water Hotline at (800) 426-4791 information and data, visit www.epa.gov/safewater/ are reported in the t the occurrence of u monitoring is to assist the EPA in determining standards. The purpose of unregulated contaminant next sampling is scheduled for the later part of 2010. is from the most recent sampling done in 2007. The the water and is caused by sediments, algae, and water loses its transparency due to the presence 2.4 mg/L in 2009. annual running average of Chloramine residual was Chloramine residual was 2.8 mg/L in 2009. vast area of East Rio annual average. After analyzing over 500 samples beta particles ucmr/ucmr2/index.html, or call the Safe Drinking egulated contaminants detected City's distribution coverage, our of 4.0 mg/L is based on a running of 4.0 mg/L is based on a running ollowing table. For additional whether future regulation is nregulated contaminants in established drinking water of locations representing the of locations representing the Hondo W.S.C.'s distribution

nicrobes, bacteria, and viruses om metal refineries; Erosion of natural deposits rchards; runoff from glass and electronics production wastes

ve that promotes strong teeth; Discharge from fertilizer and aluminum factories

septic tanks, sewage; Erosion of natural deposits

ineries; Erosion of natural deposits; Discharge from mines

# Definitions

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

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

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

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

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

NA: Not applicable

ND (Not detected): Indicates that the substance was not found by laboratory analysis.

of 5 NTU is just noticeable to the average person. of the clarity, or turbidity, of water. Turbidity in excess NTU (Nephelometric Turbidity Units): Measurement

radioactivity. pCi/L (picocuries per liter): A measure of

ppb (parts per billion): One part substance per

billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

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