2014 Annual Drinking Water Quality Report Emigration Improvement District (Public Water System)

We're very pleased to provide you with this year's Annual Water Quality Report. We want to keep you informed about the excellent water and services that have been delivered to you over the past year. Our goal is, and always has been, to provide canyon residences a safe and dependable supply of drinking water.

WATER SOURCES

Emigration Improvement District's (EID) water source is from four wells. Freeze Creek well is an 8" diameter deep well that produces about 60 gallons per minute. Well #2, is an 8" diameter deep well that produces about 250 gallons per minute. Brigham Fork well is an 8" diameter deep well that historically produces up to 300 gallons per minute, but due to mechanical issues currently produces about 60 gallons per minute. EID's recently completed Upper Freeze Creek is a deep well that produces about 240 gallons per minute. The District has two water storage tanks totaling about one million three hundred thousand gallons of capacity.

SOURCE PROTECTION

The EID has a Drinking Water Source Protection Plan available for review. It contains information about source protection zones. potential contamination sources, and management strategies to protect the drinking water. The wells have been determined to have a low susceptibility level to potential

contaminants. The potential contamination sources that could affect the production wells include: roads, and residential areas. The District has also developed management strategies to further protect its water resources from possible contamination. If you have any questions or concerns regarding source protection, contact the District manager Mr. Eric Hawkes at 801-243-5741, or Mr. Larry Hall of Aqua Environmental Services Inc. at 801-209- 6382.

QUESTIONS

Currently, the District is operated by a three member board of trustees and a manager. The water system operations is contracted to Agua Environmental Services Inc. If you have any questions regarding this report or concerns with the water, please contact Mr. Eric Hawkes, District Manager at 801-243-5741. or Larry Hall of Aqua Environmental Services Inc at 801-209-6382. We want our valued customers to be informed about their water utility. The Emigration Improvement District has web а site at www.emigrationcanyon.org there you will find the most up-to-date information and most recent District activities. The public is encouraged to attend the Trustee Meetings which are generally held on the second Thursday of each month, 7:00 PM at the fire station (5025 E Emigration Canyon Rd).

MONITORING PERIOD

The EID public water system is routinely monitored for constituents in accordance with the Federal and State laws. The following table shows the results of our monitoring for the period prior to December 31, 2014.

DEFINITIONS

In the following table, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

ND/Low - High - For water systems that have multiple sources of water, the Utah Division of Drinking Water has given water systems the option of listing the test results of the constituents in one table, instead of multiple tables. To accomplish this, the lowest and highest values detected in the multiple sources are recorded in the same space in the report table.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (ug/l) - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nanograms per liter (nanograms/l) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000. Parts per quadrillion (ppq) or Picograms per liter (picograms/l) one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000.

Picocuries per liter (pCi/L) - picocuries/ per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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

Treatment Technique (TT) - (mandatory language) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminant Level (MCL) - (mandatory language) The "Maximum Allowed" (MCL) is 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

(MCLG) - (mandatory language) The "Goal"(MCLG) is 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.

Waivers (W) - Because some chemicals are not used or stored in areas around drinking water sources, some water systems have been given waivers that exempt them from having to take certain chemical samples, these waivers are also tied to Drinking Water Source Protection Plans.

Contaminant	Violation	Level	R PRIO	MCLG	MCL	Dete	
	Y/N	Detected ND/Low- High	Measurement	MCLG	MCL	Date Sampled	Likely Source of Contamination
Microbiological	Contam	inants					
Total Coliform Bacteria	N	0	N/A	0	Presence of coliform bacteria in 5% of monthly samples	2014	Naturally present in the environment
Fecal coliform and <i>E.coli</i>	N	0	N/A	0	a routine sample and repeat sample are total coliform positive, and one is also fecal coliform or <i>E. coli</i> positive	2014	Human and animal fecal waste
Radioactive Con	tamina	nts	141				
Gross Alpha	N	-3.0 - 1.9	pCi/l		15	2013 & 2014	Erosion of natural deposits
Radium 228	N	.26-2.7	pCi/1	0	5	2013	Erosion of natural deposits
Inorganic Conta	minants	3					
Antimony	N	ND	ppb	6	6	2012 & 2013	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic	N	500-1400	ppt	N/A	10000	2012 & 2013	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Asbestos	N	W	MFL	7	7		Decay of asbestos cement water mains; erosion of natural deposits
Barium	N	25-57	ррb	2000	2000	2012 & 2013	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium	N	ND	ppb	4	4	2012 & 2013	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries

Cadmium	N	ND	ppb	5	5	2012 &	Corrosion of galvanized
						2013	pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium	N	ND	ppb	100	100	2012 & 2013	Discharge from steel and pulp mills; erosion of natural deposits
Copper a. 90% results b. # of sites that exceed the AL	N	a. 269 b. 0	ppb	1300	AL=1300	2013	Corrosion of household plumbing systems; erosion of natural deposits
Cyanide	N	ND	ppb	200	200	2012 & 2013	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	N	ND-1500	ррb	4000	4000	2012 & 2013	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead a. 90% results b. # of sites that exceed the AL	Ν	a. 6 b. 0	ppb	0	AL=15	2013	Corrosion of household plumbing systems, erosion of natural deposits
Mercury (inorganic)	N	ND	ррb	2	2	2012 & 2013	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Nitrate (as Nitrogen)	N	ND-200	ррb	10000	10000	2014	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	N	ND2.9	ррb	50	50	2012 & 2013	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	N	15.4-283	ppm	None set by EPA	None set by EPA	2012 & 2013	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills.
Sulfate	N	98-621	ppm	1000*	1000*	2012 & 2013	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills, runoff from cropland
Thallium	N	ND	ррb	1	2	2012 & 2013	Leaching from ore- processing sites; discharge from electronics, glass, and drug factories
Furbidity for Ground Water	Y	.45-7	NTU	N/A	5	2012 & 2013	Soil runoff
Turbidity for Surface Water	N	N/A	NTU	N/A	0.5 in at least 95% of the samples and must		Soil Runoff
TDS (Total Dissolved Solids *If the sulfate level of a publi	Y	472-1420	ppm	1000**	2000**	2012 & 2013	Erosion of natural deposits

*If the sulfate level of a public water system is greater than 500 ppm, the supplier must satisfactorily demonstrate that: a) no better water is available, and b) the water shall not be available for human consumption from commercial establishments. In no case shall water having a level above 1000 ppm be used.

**If TDS is greater than 1000 ppm the supplier shall demonstrate to the Utah Drinking Water Board that no better water is available. The Board shall not allow the use of an inferior source of water if a better source is available.

Synthetic Organic Contaminants including Pesticides and Herbicides

2,4-D	N	ND	nnh	70	70	2013 &	Runoff from herbicide used
2,4-D	IN	ND	ppb	10	70	2013 & 2014	on row crops
2,4,5-TP (Silvex)	N	ND	ppb	50	50	2013 & 2014	Residue of banned herbicide
Acrylamide	TT	N/A	N/A		TT	2013 & 2014	Added to water during sewage/wastewater treatment
Alachlor	N	ND	ppb	0	2	2013 & 2014	Runoff from herbicide used on row crops
Atrazine	N	ND	ppb	3	3	2013 & 2014	Runoff from herbicide used on row crops
Benzo(a)pyrene (PAH)	N	ND	ppt	0	200	2013 & 2014	Leaching from linings of water storage tanks and distribution lines
Carbofuran	N	ND	ppb	40	40	2013 & 2014	Leaching of soil fumigant used on rice and alfalfa
Chlordane	N	ND	ppb	0	2	2013 & 2014	Residue of banned termiticide
Dalapon	N	ND	ppb	200	200	2013 & 2014	Runoff from herbicide used on rights of way
Di(2-ethylhexyl) adipate	N	ND	ppb	400	400	2013 & 2014	Discharge from chemical factories
Di(2-ethylhexyl) phthalate	N	ND	ppb	0	6	2013 & 2014	Discharge from rubber and chemical factories
Dibromochloropropane	N	ND	ppt	0	200	2013 & 2014	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb	N	ND	ppb	7	7	2013 & 2014	Runoff from herbicide used on soybeans and vegetables
Diquat	N	ND	ppb	20	20	2013 & 2014	Runoff from herbicide use
Dioxin [2,3,7,8-TCDD]	N	ND	ppq	0	30	2013 & 2014	Emissions from waste incineration and other combustion; discharge from chemical factories
Endothall	N		ppb	100	100	2013 & 2014	Runoff from herbicide use
Endrin	N	ND	ppb	2	2	2013 & 2014	Residue of banned insecticide
Epichlorohydrin	TT	N/A	N/A	0	TT	2013 & 2014	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylene dibromide	N	ND	ppt	0	50	2013 & 2014	Discharge from petroleum refineries
Glyphosate	N	ND	ppb	700	700	2013 & 2014	Runoff from herbicide use
Heptachlor	N	ND	ppt	0	400	2013 & 2014	Residue of banned termiticide
Heptachlor epoxide	N	ND	ppt	0	200	2013 & 2014	Breakdown of heptachlor
Hexachlorobenzene	N	ND	ppb	0	1	2013 & 2014	Discharge from metal refineries and agricultural chemical factories

Havashlanasusla	N	NID	h	50	50	2012 8	Discharge from showing!
Hexachlorocyclo- pentadiene	N	ND	ppb	50	50	2013 & 2014	Discharge from chemical factories
Lindane	N	ND	ppt	200	200	2013 & 2014	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	N	ND	ррb	40	40	2013 & 2014	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate]	N	ND	ррb	200	200	2013 & 2014	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
PCBs [Polychlorinated biphenyls]	N	ND	ppt	0	500	2013 & 2014	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol	N	ND	ppb	0	1	2013 & 2014	Discharge from wood preserving factories
Picloram	N	ND	ppb	500	500	2013 & 2014	Herbicide runoff
Simazine	N	ND	ppb	4	4	2013 & 2014	Herbicide runoff
Toxaphene	N,	ND	Ppb	0	3	2013 & 2014	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic	c Contar	ninants					
Benzene	N	ND	Ppb	0	5	2013 & 2014	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride	N	ND	Ppb	0	5	2013 & 2014	Discharge from chemical plants and other industrial activities
Chlorobenzene	N	ND	Ppb	100	100	2013 & 2014	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene	N	ND	Ppb	600	600	2013 & 2014	Discharge from industrial chemical factories
p-Dichlorobenzene	N	ND	Ppb	75	75	2013 & 2014	Discharge from industrial chemical factories
1,2 - Dichloroethane	N	ND	Ppb	0	5	2013 & 2014	Discharge from industrial chemical factories
1,1 - Dichloroethylene	N	ND	Ppb	7	7	2013 & 2014	Discharge from industrial chemical factories
cis-1,2-ichloroethylene	N	ND	Ррb	70	70	2013 & 2014	Discharge from industrial chemical factories
trans - 1,2 - Dichloroethylene	N	ND	Ppb	100	100	2013 & 2014	Discharge from industrial chemical factories
Dichloromethane	N	ND	Ppb	0	5	2013 & 2014	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane	N	ND	Ppb	0	5	2013 & 2014	Discharge from industrial chemical factories
Ethylbenzene	N	ND	Ppb	700	700	2013 & 2014	Discharge from petroleum refineries
Styrene	N	ND	Ppb	100	100	2013 & 2014	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene	N	ND	Ppb	0	5	2013 & 2014	Leaching from PVC pipes; discharge from factories and dry cleaners
1,2,4 -Trichlorobenzene	N	ND	Ppb	70	70	2013 & 2014	Discharge from textile- finishing factories

1,1,1 - Trichloroethane	N	ND	Ppb	200	200	2013 &	Discharge from metal
						2014	degreasing sites and other
							factories
1,1,2 -Trichloroethane	N	ND	Ppb	3	5	2013 &	Discharge from industrial
						2014	chemical factories
Trichloroethylene	N	ND	Ppb	0	5	2013 &	Discharge from metal
						2014	degreasing sites and other
			5				factories
Toluene	N	ND	Ppb	1000	1000	2013 &	Discharge from petroleum
						2014	factories
Vinyl Chloride	N	ND	Ppb	0	2	2013 &	Leaching from PVC piping;
						2014	discharge from plastics
							factories
Xylenes	Ν	ND	Ppb	10000	10000	2013 &	Discharge from petroleum
						2014	factories; discharge from
							chemical factories
Disinfection By-p	roduct	ts					
TTHM	Ν	12.4	ppb	80	80	2014	By-product of drinking water
[Total trihalomethanes]							disinfection
Haloacetic Acids	N	ND	ppb	60	60	2014	By-product of drinking water
							disinfection
Chlorine	Ν	.1 - 3500	ppb	4000	4000	2014	Water additive used to
							control microbes

Unregulated Contaminants

These are contaminants that some systems are required to monitor for but which EPA has not set MCLs.

Contaminant	Level Detected	Unit Measurement	Date Sampled	Contaminant	Level Detected	Unit Measurement	Date Sampled
Chloroform	ND	Ppb	2013 & 2014	Aldrin	ND	ppb	2013 & 2014
Bromodichlorome thane	ND	Ppb	2013 & 2014	Butachlor	ND	ppb	2013 & 2014
Chlorodibromome thane	ND	Ррb	2013 & 2014	Carbaryl	ND	ppb	2013 & 2014
Bromoform	ND	Ppb	2013 & 2014	Dicamba	ND	ppb	2013 & 2014
m- Dichlorobenzene	ND	Ppb	2013 & 2014	Dieldrin	ND	ppb	2013 & 2014
1,1- Dichloropropene	ND	Ррb	2013 & 2014	3-Hydroxycarbofuran	ND	ppb	2013 & 2014
1,1- Dichloroethane	ND	Ррb	2013 & 2014	Methomyl	ND	ppb	2013 & 2014
1,1,2,2- Tetrachloroethane	ND	Ppb	2013 & 2014	Metolachlor	ND	ppb	2013 & 2014
1,3- Dichloropropane	ND	Ppb	2013 & 2014	Metribuzin	ND	ppb	2013 & 2014
Chloromethane	ND	Ppb	2013 & 2014	Propachlor	ND	ppb	2013 & 2014
Bromomethane	ND	Ppb	2013 & 2014	1,2,4-Trimethylbenzene	ND	ppb	2013 & 2014
1,2,3- Trichloropropane	ND	Ppb	2013 & 2014	1,2,3-Trichlorobenzene	ND	ppb	2013 & 2014
1,1,1,2- Tetrachloroethane	ND	Ppb	2013 & 2014	n-Propylbenzene	ND	ppb	2013 & 2014
Chloroethane	ND	Ppb	2013 & 2014	n-Butylbenzene	ND	ppb	2013 & 2014
2,2-Dichloropropa ne	ND	Ррb	2013 & 2014	Napthalene	ND	ppb	2013 & 2014

o-Chlorotoluene	ND	Ppb	2013 & 2014	Hexachlorobutadiene	ND	ppb	2013 & 2014
p-Chlorotoluene	ND	Ppb	2013 & 2014	1,3,5-Trimethylbenzene	ND	ppb	2013 & 2014
Bromobenzene	ND	Ppb	2013 & 2014	p-Isopropyltoluene	ND	ppb	2013 & 2014
1,3 -Dichloropropene	ND	Ppb	2013 & 2014	Isopropylbenzene	ND	ppb	2013 & 2014
			2013 & 2014	Tert-butylbenzene	ND	ppb	2013 & 2014
Nickel	ND	Ppb	2013 & 2014	Sec-butylbenzene	ND	ppb	2013 & 2014
		-		Fluorotrichloromethane	ND	ppb	2013 & 2014
				Dichlorodifluoromethane	ND	ppb	2013 & 2014
			s	Bromochloromethane	ND	ppb	2013 & 2014

TEST SUMMARY

Turbidity has health no effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps. diarrhea. and associated headaches.

<u>"I DRINK BOTTLED WATER BECAUSE IT'S SAFER"</u>

All sources of drinking water are subject potential contamination to bv constituents that are naturally occurring or are man-made. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the

Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

WHAT ABOUT FLUORIDE?

Our water contains very little natural fluoride and there is NO fluoride added to the water.

WHAT ABOUT HOME TREATMENT?

As can be seen from this report, your water is safe from your tap. If you decide to install a treatment device on your service, you must take the responsibility for the maintenance of it. It is possible to make your water unsafe by not taking proper care of your personal treatment devices. The District's public water is hard and you may want to install a water softener. Water is usually softened by ion exchange systems. Sodium and potassium exchange systems are the most common methods shown to work effectively. Magnetic systems have not proven to be effective.

SPECIAL HEALTH ALERT

Some people may be more vulnerable to contaminants drinking in water. Immuno- compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC auidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

WHAT DETERMINES THE MCL LEVEL?

Maximum Contaminant Levels or MCLs are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-ina-million chance of having the described health effect.

Thank you for allowing us to continue providing you with clean quality water. We are pleased to keep you informed and educated on all water matters within our service area. We continue to present you with this report every year. Please contact us if you have any questions or concerns.



(P) 801.209.6382 (E) larryh@aquaenviron.com

5/4/14

Kenneth H. Bousfield Compliance Manager Division of Drinking Water P.O. Box 144830 Salt Lake City, Utah 84114-4830

Dear Mr. Bousfield:

Subject: Consumer Confidence Report for EID Oaks - #18143

Enclosed is a copy of EID Oaks Consumer Confidence Report. It contains the water quality information for our water system for the calendar year 2014 or the most recent sample data.

We have delivered this report to our customers by:

• post a notice of the availability of the report on our water bill and sending a copy to those that request a copy and allowing inspection of the report at the water system office.

If you have any questions, please contact me at 209-6382.

Sincerely,

Larry Hall, Aqua Environmental Services Inc.

Enclosure