

Zillah Wastewater Treatment Plant

Revised February 2012

Station	Sample	Analysis	Analyte	Result	Qualifier	Units
Location	Number	Type				
SP-01	10154271	<i>Nitrogen</i>	Ammonia (NH ₃ +NH ₄) as N	26.6		mg/L
			Nitrate+Nitrite as N	0.942		mg/L
			Total Kjeldahl Nitrogen	46.8		mg/L
		<i>Bacteria</i>	Fecal Coliform	TNTC		CFU/100ml
		<i>General Chemistry</i>	Alkalinity as CaCO ₃	444		mg/L
			Bromide	0.213		mg/L
			Chloride	67.6		mg/L
			Fluoride	0.184		mg/L
			Phosphorus, total	6.87		mg/L
			Sulfate	88.2		mg/L
		<i>Metals</i>	Arsenic	45 U		ug/L
			Barium	107		ug/L
			Cadmium	3 U		ug/L
			Calcium	71000		ug/L
			Chromium	10 U		ug/L
			Copper	34.1		ug/L
			Iron	268		ug/L
			Lead	25 U		ug/L
			Magnesium	24600		ug/L
			Manganese	29.6		ug/L
			Mercury	0.05 UJ		ug/L
			Potassium	21800		ug/L
			Selenium	50 U		ug/L
			Silver	10 U		ug/L
			Sodium	114000		ug/L
			Zinc	130		ug/L
		<i>Wastewater Organics</i>	1,4-dichlorobenzene	2.42 J		ug/L
			1-methylnaphthalene	2 UJ		ug/L
			2,2',4,4'-tetrabromodiphenyl ether	2 U		ug/L
			2,6-dimethylnaphthalene	2 UJ		ug/L
			2-methylnaphthalene	2 UJ		ug/L
			3,4-dichlorophenyl isocyanate	2 U		ug/L
			3-beta-coprostanol	227 J		ug/L
			3-methyl-1h-indole (skatol)	3.89 J		ug/L
			3-tert-butyl-4-hydroxyanisole (bha)	3.75 J		ug/L
			4-cumylphenol	2 U		ug/L
			4-n-octylphenol	2 U		ug/L
			4-nonylphenol monoethoxylate - total (np1eo)	2.66 J		ug/L
			4-octylphenol diethoxylate (op2eo)	2 UJ		ug/L
			4-octylphenol monoethoxylate (op1eo)	1.77 J		ug/L
			4-tert-octylphenol	1.02 J		ug/L
			5-methyl-1h-benzotriazole	2 UJ		ug/L
			acetophenone	0.743 J		ug/L
			acetyl-hexamethyl-tetrahydro-naphthalene (ahtn)	0.406 J		ug/L
			anthracene	2 UJ		ug/L
			anthraquinone	2 U		ug/L
			atrazine	2 U		ug/L
			benz[a]pyrene	2 UJ		ug/L
			benzophenone	1.03 J		ug/L
			beta-sitosterol	19.3 J		ug/L
			beta-stigmastanol	7.94 J		ug/L
			bis-(2-ethylhexyl) phthalate (dehp)	4.35 J		ug/L
			bisphenol a	2 J		ug/L
			bromacil	2 U		ug/L

Zillah Wastewater Treatment Plant

Revised February 2012

	bromoform	2 U	ug/L
	caffeine	81.3	ug/L
	camphor	1.79 J	ug/L
	carbaryl	2 U	ug/L
	carbazole	2 U	ug/L
	chlorpyrifos	2 U	ug/L
	cholesterol	77.5 J	ug/L
	cotinine	0.8 UJ	ug/L
	diazinon	2 U	ug/L
	dichlorvos	2 U	ug/L
	diethoxynonylphenols- total (np2eo)	8.84 J	ug/L
	diethyl phthalate	8.03 J	ug/L
	d-limonene	4.92	ug/L
	fluoranthene	2 UJ	ug/L
	hexahydrohexamethyl cyclopentabenzopyran (hhcb)	3.5	ug/L
	indole	3.4 J	ug/L
	isoborneol	2 J	ug/L
	isophorone	2 U	ug/L
	isopropylbenzene (cumene)	2 U	ug/L
	isoquinoline	2 U	ug/L
	menthol	24.5 J	ug/L
	metalaxyl	2 U	ug/L
	methyl salicylate	1.06	ug/L
	metolachlor	2 U	ug/L
	n,n-diethyl-meta-toluamide (deet)	0.986 J	ug/L
	naphthalene	2 UJ	ug/L
	para-nonylphenol total	3.9 J	ug/L
	p-cresol	69.4 J	ug/L
	pentachlorophenol	2 U	ug/L
	phenanthrene	2 UJ	ug/L
	phenol	16.4 J	ug/L
	prometon	2 U	ug/L
	pyrene	2 UJ	ug/L
	tetrachloroethylene	2 U	ug/L
	tri(2-butoxyethyl) phosphate	1.86	ug/L
	tri(2-chloroethyl) phosphate	0.413 J	ug/L
	tri(dichloroisopropyl) phosphate	39.5 J	ug/L
	tributyl phosphate	0.2 U	ug/L
	triclosan	6.19	ug/L
	triethyl citrate (ethyl citrate)	1.56 J	ug/L
	triphenyl phosphate	2 U	ug/L
<i>Hormones</i>	17-a-estradiol	7.6 U	ng/L
	17-a-ethynyl-estradiol	6.4 U	ng/L
	17-b-estradiol	21.1	ng/L
	Estriol	1030	ng/L
	Estrone	77.1	ng/L
<i>Steroid / Hormones</i>	11-Keto Testosterone	0.1	ug/L
	17a-Hydroxyprogesterone	0.002 U	ug/L
	17alpha-trenbolone	1.562	ug/L
	17beta-estradiol	0.002 U	ug/L
	17beta-trenbolone	0.002 U	ug/L
	4-Androstenedione	0.28	ug/L
	a-Estradiol	0.263	ug/L
	Androstanedienedione	0.255 J	ug/L
	Androsterone	5.049 J	ug/L
	a-Zearalanol	0.176 J	ug/L
	a-Zearalenol	0.002 UJ	ug/L
	b-Zearalanol	0.002 UJ	ug/L

Zillah Wastewater Treatment Plant

Revised February 2012

	b-Zearalenol	0.002 U	ug/L
	Epitestosterone	0.002 U	ug/L
	Estriol	0.632	ug/L
	Estrone	0.002 UJ	ug/L
	Ethynyl Estradiol	0.002 U	ug/L
	Melengesterol Acetate	0.002 U	ug/L
	Progesterone	0.002 UJ	ug/L
	Testosterone	0.053	ug/L
<i>Veterinary Pharmaceuticals</i>	Chlortetracycline(total)	0.02 R	ug/L
	Erythromycin	0.02 UJ	ug/L
	Lincomycin	0.02 UJ	ug/L
	Monensin	0.02 UJ	ug/L
	Oxytetracycline	0.02 R	ug/L
	Ractopamine	0.02 UJ	ug/L
	Sulfachloropyridazine	0.02 UJ	ug/L
	Sulfadimethoxine	0.021 J	ug/L
	Sulfamerazine	0.02 UJ	ug/L
	Sulfamethazine	0.02 UJ	ug/L
	Sulfamethazole	0.02 UJ	ug/L
	Sulfamethoxazole	0.02 UJ	ug/L
	Sulfathiazole	0.02 UJ	ug/L
	Tetracycline	0.55 J	ug/L
	Tiamulin	0.02 UJ	ug/L
	Tylosin	0.02 UJ	ug/L
	Virginiamycin	0.02 UJ	ug/L
<i>Wastewater Pharmaceuticals</i>	Acetaminophen	32	ug/L
	Amphetamine	0.2 U	ug/L
	Azithromycin	0.2 U	ug/L
	Caffeine	0.2 U	ug/L
	Carbamazepine	0.2 U	ug/L
	Cotinine	1.5	ug/L
	DEET	1.6	ug/L
	Diphenhydramine	0.5	ug/L
	Ibuprofen	22 J	ug/L
	Methamphetamine	0.2 U	ug/L
	Naproxen	11	ug/L
	Paraxanthine	0.2 U	ug/L
	Thiabendazole	0.57 J	ug/L
	Triclosan	1 J	ug/L

Abbreviations

BAC32 - *Bacteroides*

ND - Analysis not done

NM - Not measured

PCR - Polymerase Chain Reaction

TNTC - Too numerous to count

Units

CFU/100 ml = colony forming unit per 100 milliliters

MPN/100 ml = most probable number per 100 milliliters

ng/L = nanograms per liter

ug/L = micrograms per liter

mg/L = milligrams per liter

Data Qualifiers

< = less than

J = The analyte was positively identified. The associated numerical value is an estimate.

JN = There is evidence that the analyte is present. The associated numerical result is an estimate.

Zillah Wastewater Treatment Plant

Revised February 2012

N = There is evidence the analyte is present in this sample.

R = The data are unusable for all purposes.

U = The analyte was not detected at or above the reported value.

UJ = The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the