Laboratory Results

Sample Water Sample ID No.: WW-13 (Revised)
Sample Date: April 16, 2010

SampleType: Domestic drinking water

Laboratory Analyses Performed:

Ammonia, Nitrogen and Nitrate Pesticides and Herbicides

Pathogens Trace Organics

General Chemistry Veterinary Pharmaceuticals Hormones Wastewater Pharmaceuticals

Metals Nitrogen Isotopes

Perchlorate Sulfur hexafluoride (SF₆) Age Dating

	Result ^a	Units	Laboratory Detection Limit	Drinking Water Standards	
Chemical				MCL ^b	SMCL ^c
Nitrogen Compounds		1			
Nitrate (NO ₃)	41.4	mg/L	0.05	10	
Ammonia (NH ₃ +NH ₄) as N	Not Detected	mg/L	0.05		
Nitrate+Nitrite (NO ₃ +NO ₂) as N	44	mg/L	2.5	10	
Total Kjeldahl Nitrogen	Not Detected	mg/L	5.1		
Pathogens	· ·		-		
Escherichia coli	Not Detected	#/100 mL	1	See Footnote ^d	
Fecal Coliform	Not Detected	#/100 mL	1	$0.0^{\rm e}$	
Total Coliform	Not Detected	#/100 mL	1	5% (per month) ^e	
General Chemistry		<u>ļ</u>		e /e (per memm)	
Alkalinity as CaCO3	604	mg/L	5		
Bromide	0.428	mg/L	0.2		
Chloride	79.8	mg/L	1.2		250
Fluoride	0.132	mg/L	0.4	4.0	2.0
Phosphorus, total	Not Detected	mg/L	0.02		
Sulfate	229	mg/L	6		250
Hormones ^f	_				
17-a-estradiol	Not Detected	ug/L	0.00021		
17-a-ethynyl-estradiol	Not Detected	ug/L	0.00016		
17-b-estradiol	Not Detected	ug/L	0.00014		
Estriol	Not Detected	ug/L	0.00022		
Estrone	Not Detected	ug/L	0.00021		
Hormones ^f					
11-Keto Testosterone	Not Detected	ug/L	0.002		
17a-Hydroxyprogesterone	Not Detected	ug/L	0.002		
17alpha-trenbolone	Not Detected	ug/L	0.002		
17beta-estradiol	Not Detected	ug/L	0.002		
17beta-trenbolone	Not Detected	ug/L	0.002		
4-Androstenedione	Not Detected	ug/L	0.002		
a-Estradiol	Not Detected	ug/L	0.002		
Androstanedienedione	Not Detected	ug/L	0.002		
Androsterone	Not Detected	ug/L	0.002		
a-Zearalanol	Not Detected	ug/L	0.002		
a-Zearalenol	Not Detected	ug/L	0.002		
b-Zearalanol	Not Detected	ug/L	0.002		

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Chemical	Result ^a	Units	Laboratory Detection	Drinking Water Standards	
	Kesuit		Limit	MCL^b	SMCL ^c
b-Zearalenol	Not Detected	ug/L	0.002		
Epitestosterone	Not Detected	ug/L	0.002		
Estriol	Not Detected	ug/L	0.002		
Estrone	Not Detected	ug/L	0.002		
Ethynyl Estradiol	Not Detected	ug/L	0.002		
Melengesterol Acetate	Not Detected	ug/L	0.002		
Progesterone	Not Detected	ug/L	0.002		
Testosterone	Not Detected	ug/L	0.002		
Metals			•		
Arsenic	Not Detected	ug/L	45	10	
Barium	8.7	ug/L	1	2000	
Cadmium	Not Detected	ug/L	3	5.0	
Calcium	217000	ug/L	30		
Chromium	Not Detected	ug/L	10	100	
Copper	Not Detected	ug/L	5	1300	1000
Iron	Not Detected	ug/L	20		300
Lead	Not Detected	ug/L	25	15	
Magnesium	66300	ug/L	50		
Manganese	Not Detected	ug/L	2		50
Mercury	0.106	ug/L	0.05	2.0	
Potassium	5450	ug/L	700		
Selenium	Not Detected	ug/L	50	50	
Silver	Not Detected	ug/L	10		100
Sodium	97300	ug/L	100		
Zinc	9.7	ug/L	5		5000
Perchlorate		<i>6</i>	-		
Perchlorate	1.17	ug/L	0.003	See Footnote ^g	
Pesticides/ Herbicides	1117		0.002	See I domote	
2,3,4,5-Tetrachlorophenol	Not Detected	ug/L	0.19		
2,3,4,6-Tetrachlorophenol	Not Detected	ug/L ug/L	0.096		
2,4,5-T	Not Detected	ug/L	0.48		
2,4,5-Trichlorophenol	Not Detected	ug/L	0.19		
2,4,6-Trichlorophenol	Not Detected	ug/L	0.48		
2,4-D	Not Detected	ug/L	0.48	70.0	
2,4-DB	Not Detected	ug/L	0.096	70.0	
3,5-Dichlorobenzoic acid	Not Detected	ug/L	0.096		
4-Nitrophenol	Not Detected	ug/L	0.48		
Acifluorfen	Not Detected	ug/L	0.48		
Alachlor	0.048 J	ug/L	0.1	2.0	
Atrazine	0.048 J	ug/L	0.1	3.0	
Azinphos-methyl	Not Detected	ug/L	0.1	2.0	
Bentazon	Not Detected	ug/L	0.096		
Benzonitrile, 2,6-dichloro-	Not Detected	ug/L	0.1		
Bromoxynil	Not Detected	ug/L	0.096		
Chloramben	Not Detected	ug/L	0.19		
Chlorpyrifos, Ethyl	Not Detected	ug/L ug/L	0.1		
Clopyralid	Not Detected	ug/L	0.96		
DACTHAL-DCPA	Not Detected	ug/L	0.48		
Diazinon	Not Detected	ug/L	0.1		
Dicamba	Not Detected	ug/L	0.096		

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Limit MCL SMCL	Chemical	Result ^a	Units	Laboratory Detection	Drinking Water Standards	
Dichlorprop	Chemical	Result	Cints		MCL^b	SMCL ^c
Diclofop, Methyl	Dichlorprop	Not Detected	ug/L			
Dinoseb Not Detected ug/L 0.18 7.0	* *					
Dinton					7.0	
Endosulfan II					,,,,	
Endosulfan II						
Endosulfan Sulfate						
Fenhexamid						
Fenpropathrin						
Imidan						
Ioxynil Not Detected ug/L 0.1	• •					
Not Detected ug/L 0.19						
MCPA Not Detected ug/L 0.19 MCPP Not Detected ug/L 0.096 Metribuzin Not Detected ug/L 0.1 Myclobutanil Not Detected ug/L 0.1 Oxyfluorfen Not Detected ug/L 0.1 Pendimethalin Not Detected ug/L 0.1 Pentachlorophenol Not Detected ug/L 0.0 Picloram Not Detected ug/L 0.06 500 Propargite Not Detected ug/L 0.1 0.1 Silvex Not Detected ug/L 0.1 0.1 Simazine Not Detected ug/L 0.1 4.0 SURFLAN Not Detected ug/L 1.9 1.9 Trichlorypr Not Detected ug/L 0.096 1.7 Trifluralin Not Detected ug/L 0.39 1.7 Triduralin Not Detected ug/L 0.2 1.1 1,-adichlorobenzene Not Detected	*					
MCPP Not Detected ug/L 0.096 Metribuzin Not Detected ug/L 0.1 Myclobutanil Not Detected ug/L 0.1 Oxyfluorfen Not Detected ug/L 0.1 Pendimethalin Not Detected ug/L 0.1 Pentachlorophenol Not Detected ug/L 0.096 1.0 Pricoram Not Detected ug/L 0.1 0.096 500 Propargite Not Detected ug/L 0.1 4.0 0.1 4.0 0.1 4.0 0.1 4.0 0.1 4.0 0.1 4.0 0.1 4.0 0.1 4.0 0.1 4.0 0.1 4.0 0.1 4.0 0.1 4.0 0.1 4.0 0.1 4.0 0.2 0.1 4.0 0.2 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	· · · · · · · · · · · · · · · · · · ·					
Metribuzin						
Myclobutanil						
Oxyfluorfen						
Pendimethalin						
Pentachlorophenol						
Picloram					1.0	
Propargite	•		_			
Silvex					200	
Simazine	1 0	+			50	1
SURFLAN		 				
Terbacil					1.0	+
Trichlorpyr						
Triflumizole						
Trifluralin	A 1		119/L			
Trace Organics 1,4-dichlorobenzene Not Detected ug/L 0.2 1-methylnaphthalene Not Detected ug/L 0.3 2,2',4,4'-tetrabromodiphenyl ether Not Detected ug/L 0.3 2,6-dimethylnaphthalene Not Detected ug/L 0.2 2-methylnaphthalene Not Detected ug/L 0.2 2-methylnaphthalene Not Detected ug/L 0.2 3,4-dichlorophenyl isocyanate Not Detected ug/L 1.6 3-beta-coprostanol Not Detected ug/L 1.6 3-methyl-1h-indole (skatol) Not Detected ug/L 0.2 3-tert-butyl-4-hydroxyanisole (bha) Not Detected ug/L 0.2 4-cumylphenol Not Detected ug/L 0.2 4-n-octylphenol Not Detected ug/L 0.2 4-nonylphenol monoethoxylate - total Not Detected ug/L 0.2 4-cutylphenol diethoxylate (op2eo) Not Detected ug/L 0.5 4-octylphenol monoethoxylate (op1eo) Not Detected ug/L 1.6 4-octylphenol monoethoxylate (op1eo) Not Detected ug/L 0.4 5-methyl-1h-benzotriazole Not Detected ug/L 0.4 5-methyl-1h-benzotriazole Not Detected ug/L 0.4 acetophenone Not Detected ug/L 0.4 acetyl-hexamethyl-tetrahydronaphthalene (ahtn) Not Detected ug/L 0.2 anthracene Not Detected ug/L 0.2 anthraquinone Not Detected ug/L 0.2						
1,4-dichlorobenzene Not Detected ug/L 0.2 1-methylnaphthalene Not Detected ug/L 0.2 2,2',4,4'-tetrabromodiphenyl ether Not Detected ug/L 0.3 2,6-dimethylnaphthalene Not Detected ug/L 0.2 2-methylnaphthalene Not Detected ug/L 0.2 3,4-dichlorophenyl isocyanate Not Detected ug/L 1.6 3-beta-coprostanol Not Detected ug/L 1.6 3-methyl-1h-indole (skatol) Not Detected ug/L 0.2 3-tert-butyl-4-hydroxyanisole (bha) Not Detected ug/L 0.2 4-cumylphenol Not Detected ug/L 0.2 4-n-octylphenol Not Detected ug/L 0.2 4-nonylphenol monoethoxylate - total Not Detected ug/L 0.2 4-notylphenol diethoxylate (op2eo) Not Detected ug/L 0.5 4-octylphenol diethoxylate (op2eo) Not Detected ug/L 0.5 4-octylphenol monoethoxylate (op1eo) Not Detected ug/L 0.4 5-methyl-1h-benzotriazole Not Detected ug/L 0.4 5-methyl-1h-benzotriazole Not Detected ug/L 0.4 acetyl-hexamethyl-tetrahydronaphthalene (ahtn) Not Detected ug/L 0.2 anthracene Not Detected ug/L 0.2 anthraquinone Not Detected ug/L 0.2 anthraquinone		1 (of Beteeted	<u> </u>	0.1		
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4-nonylphenol monoethoxylate - total Not Detected ug/L 1.6 4-octylphenol diethoxylate (op2eo) Not Detected ug/L 0.5 4-octylphenol monoethoxylate (op1eo) Not Detected ug/L 1 4-tert-octylphenol Not Detected ug/L 0.4 5-methyl-1h-benzotriazole Not Detected ug/L 1.6 acetophenone Not Detected ug/L 0.4 acetyl-hexamethyl-tetrahydro- naphthalene (ahtn) Not Detected ug/L 0.2 anthracene Not Detected ug/L 0.2 anthraquinone Not Detected ug/L 0.2	* 1					
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4-octylphenol monoethoxylate (op1eo) Not Detected ug/L 1 4-tert-octylphenol Not Detected ug/L 0.4 5-methyl-1h-benzotriazole Not Detected ug/L 1.6 acetophenone Not Detected ug/L 0.4 acetyl-hexamethyl-tetrahydro-naphthalene (ahtn) Not Detected ug/L 0.2 anthracene Not Detected ug/L 0.2 anthraquinone Not Detected ug/L 0.2						
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5-methyl-1h-benzotriazole Not Detected ug/L 1.6 acetophenone Not Detected ug/L 0.4 acetyl-hexamethyl-tetrahydro- naphthalene (ahtn) Not Detected ug/L 0.2 anthracene Not Detected ug/L 0.2 anthraquinone Not Detected ug/L 0.2				0.4		
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acetyl-hexamethyl-tetrahydro- naphthalene (ahtn) anthracene nathraquinone Not Detected ug/L 0.2 Not Detected ug/L 0.2						+
naphthalene (ahtn) anthracene not Detected ug/L 0.2 0.2 naphthalene (ahtn) Not Detected ug/L 0.2 Not Detected ug/L 0.2	•	THOI DOUGLIEU	ug/L			+
anthracene Not Detected ug/L 0.2 anthraquinone Not Detected ug/L 0.2	II * * * * * * * * * * * * * * * * * *	Not Detected	ug/L	0.2		
anthraquinone Not Detected ug/L 0.2		Not Detected	μσ/I	0.2		+
						+
I Not Detected L ng/L L 0.2 L 2.0 L	attrazine	Not Detected Not Detected	ug/L ug/L	0.2	3.0	

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Chemical	Result ^a	Units	Laboratory Detection	Drinking Water Standards	
			Limit	MCL^b	SMCL ^c
benz[a]pyrene	Not Detected	ug/L	0.2	0.2	
benzophenone	Not Detected	ug/L	0.2		
beta-sitosterol	Not Detected	ug/L	1.6		
beta-stigmastanol	Not Detected	ug/L	1.7		
bis-(2-ethylhexyl) phthalate (dehp)	Not Detected	ug/L	2	6	
bisphenol a	Not Detected	ug/L	0.4		
bromacil	Not Detected	ug/L	0.8		
bromoform	Not Detected	ug/L	0.2	80	
caffeine	Not Detected	ug/L	0.2		
camphor	Not Detected	ug/L	0.2		
carbaryl	Not Detected	ug/L	0.2		
carbazole	Not Detected	ug/L	0.2		
chlorpyrifos	Not Detected	ug/L	0.2		
cholesterol	Not Detected	ug/L	1.6		
cotinine	Not Detected	ug/L	0.8		
diazinon	Not Detected	ug/L	0.2		
dichlorvos	Not Detected	ug/L	0.2		+
diethoxynonylphenols- total (np2eo)	Not Detected	ug/L ug/L	3.2		+
diethyl phthalate	Not Detected	ug/L ug/L	0.2		
d-limonene	Not Detected	ug/L ug/L	0.2		+
fluoranthene	Not Detected Not Detected		0.2		
hexahydrohexamethyl	Not Detected	ug/L	0.2		
cyclopentabenzopyran (hhcb)	Not Detected	ug/L	0.2		
indole indole	Not Detected	ug/L	0.2		
isoborneol	Not Detected Not Detected	ug/L ug/L	0.2		
	Not Detected Not Detected		0.2		
isophorone	Not Detected Not Detected	ug/L	0.2		
isopropylbenzene (cumene)	Not Detected Not Detected	ug/L	0.2		+
isoquinoline menthol	Not Detected Not Detected	ug/L	0.2		+
	Not Detected Not Detected	ug/L	0.2		+
metalaxyl	Not Detected Not Detected	ug/L	0.2		+
methyl salicylate		ug/L			+
metolachlor	Not Detected	ug/L	0.2		
n,n-diethyl-meta-toluamide (deet)	Not Detected	ug/L	0.2		
naphthalene	Not Detected	ug/L	0.2		
para-nonylphenol total	Not Detected	ug/L	1.6		
p-cresol	Not Detected	ug/L	0.2	1.0	
pentachlorophenol	Not Detected	ug/L	1.6	1.0	
phenanthrene	Not Detected	ug/L	0.2		
phenol	Not Detected	ug/L	0.2		
prometon	Not Detected	ug/L	0.2		+
pyrene	Not Detected	ug/L	0.2		
tetrachloroethylene	Not Detected	ug/L	0.4	5.0	1
tri(2-butoxyethyl) phosphate	Not Detected	ug/L	0.2		-
tri(2-chloroethyl) phosphate	Not Detected	ug/L	0.2		
tri(dichloroisopropyl) phosphate	Not Detected	ug/L	0.2		-
tributyl phosphate	Not Detected	ug/L	0.2		1
triclosan	Not Detected	ug/L	0.2		_
triethyl citrate (ethyl citrate)	Not Detected	ug/L	0.2		
triphenyl phosphate	Not Detected	ug/L	0.2		
Veterinary Pharmaceuticals					_
Chlortetracycline(total)	Not Detected	ug/L	0.02		

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Chemical	Result ^a	Units	Laboratory Detection Limit	Drinking Water Standards	
				MCL^b	SMCL ^c
Erythromycin	Not Detected	ug/L	0.02		
Lincomycin	Not Detected	ug/L	0.085		
Monensin	Not Detected	ug/L	0.02		
Oxytetracycline	Not Detected	ug/L	0.02		
Ractopamine	Not Detected	ug/L	0.02		
Sulfachloropyridazine	Not Detected	ug/L	0.02		
Sulfadimethoxine	Not Detected	ug/L	0.02		
Sulfamerazine	Not Detected	ug/L	0.02		
Sulfamethazine	Not Detected	ug/L	0.02		
Sulfamethazole	Not Detected	ug/L	0.02		
Sulfamethoxazole	Not Detected	ug/L	0.02		
Sulfathiazole	Not Detected	ug/L	0.02		
Tetracyline	Not Detected	ug/L	0.02		
Tiamulin	Not Detected	ug/L	0.02		
Tylosin	Not Detected	ug/L	0.02		
Virginiamycin	0.041	ug/L	0.02		
Wastewater Pharmaceuticals			•		•
Acetaminophen	Not Detected	ug/L	0.2		
Amphetamine	Not Detected	ug/L	0.2		
Azithromycin	Not Detected	ug/L	0.2		
Caffeine	Not Detected	ug/L	0.2		1
Carbamazepine	Not Detected	ug/L	0.2		
Cotinine	Not Detected	ug/L	0.2		1
DEET	Not Detected	ug/L	0.2		1
Diphenhydramine	Not Detected	ug/L	0.2		1
Ibuprofen	Not Detected	ug/L	0.2		1
Methamphetamine	Not Detected	ug/L	0.2		1
Naproxen	Result Not Useable	ug/L	0.2		
Paraxanthine	Not Detected	ug/L	0.2		
Thiabendazole	Not Detected	ug/L	0.2		
Triclosan	Result Not Useable	ug/L	0.2		
Nitrogen Isotopes					
Nitrate (NO ₃) as N	42	(mg/L)	0.1		
δ15N-NO ₃	11.17	(%)	NR		
Ammonia (NH ₄) as N	0.1	(mg/L)	0.1		
δ15N-NH ₄	NM	(%)	NM		
δ18O-NO ₃	15.9	% SMOW	NR		
Age Dating					
Piston Flow Model SF6 Recharge Age	24.1 J	years	1970 ^h		

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Laboratory Results Notes, Abbreviations and Units

Notes

Shading indicates that the chemical was detected above the MCL.

Footnotes

^aThe Results column shows a numeric value for the concentration of the chemical if the chemical was detected in the sample. The term "Not Detected" means that the chemical was not detected in the sample above the laboratory detection limit. The term "Result Not Usable" indicates that there were quality assurance or quality control problems with the laboratory analysis of that chemical and there are no results to report.

^bMaximum contaminant levels (MCLs) are the highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

^cNational Secondary Drinking Water Regulations (or secondary maximum contaminant levels [SMCLs]) are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards to water systems but does not require systems to comply. However, states may choose to adopt them as enforceable standards.

^dAny fecal coliform-positive repeat sample or *E. coli*-positive repeat sample, or any total coliform-positive repeat sample following a fecal coliform-positive routine sample constitutes a violation of the MCL for total coliforms. For purposes of the public notification requirements, this is a violation that may pose an acute risk to health.

^eNo more than 5.0% samples total coliform-positive in a month. Every sample that has total coliforms must be analyzed for fecal coliforms; no fecal coliforms are allowed.

^fFive hormones (17-a-estradiol, 17-a-ethynyl-estradiol, 17-b-estradiol, Estriol, and Estrone) were analyzed by two laboratories. The detection limits for these chemicals were different at each laboratory.

^gEPA does not have a MCL level for perchlorate. The human health based standard calculated under Washington State Model Toxics Control Act (MTCA) Cleanup Levels and Risk Calculation (CLARC) tool using Method B is 11ug/L.

^hThe SF6 recharge dating limit is around 1970.

Abbreviations

MCL - Maximum Contaminant Level

MTCA - Model Toxics Control Act

ND - Analysis not done

NM - Insufficient nitrate to complete analysis

NR - Not relevant. The result is a calculated value.

SMCL - Secondary Maximum Contaminant Level

SMOW - standard mean of ocean water

TNTC - Too numerous to count

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 δ 15N-NO3 = Nitrogen isotopes of nitrate. Ratio of the nitrogen isotopes 15N and 14N in a specific sample using nitrate compared to a standard of known composition of 15N and 14N. This expressed as the parts per thousand (‰).

 δ 15N-HN4 = Nitrogen isotopes of ammonia. Ratio of the nitrogen isotopes 15N and 14N in a specific sample using ammonia compared to a standard of known composition of 15N and 14N. This expressed as the parts per thousand (‰).

 δ 180-NO3 = Oxygen isotopes of nitrate. Ratio of the oxygen isotopes 180 and 160 in a specific sample using nitrate compared to a standard of known composition of 180 and 160. This expressed as the parts per thousand (‰) standard mean of ocean water.

Units

CFU/100 ml = colony forming unit per 100 milliliters

MPN/100 ml = most probable number per 100 milliliters

ug/L = micrograms per liter

mg/L = milligrams per liter

‰ = parts per thousand difference from the atmospheric standard

Data Qualifiers

< = less than

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

 $R = The \ data \ are \ unusable \ for \ all \ purposes.$

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