



SPRING WATER QUALITY REPORT 2013

Grand Springs water products are produced and manufactured under the authority of the Virginia Department of Agriculture and The Federal Food and Drug Regulatory Agency (FDA).

The Food and Drug (FDA) and the Virginia Department of Agriculture both conduct un-announced visits to our facility to perform audits of our manufacturing procedures and to collect water samples for compliance with state and federal drinking water standards.

In addition to the above audits, we are audited by third party auditors to comply with the International Bottle Water compliance of the Model Code of IBWA.

We are an approved supplier to The Department of Defense and must pass a HACCP audit on an annual basis conducted by the US Army.

FDA regulations require annual source water testing for bacterial, organic, and radiological analyses. The 2013 analyses were conducted by National Testing Laboratories (Ypsilanti, MI 48197).

Grand Springs utilizes its in-house laboratory for daily analysis of bacteriological and physical parameter analyses of source water and finished products. Our multiple barrier approach involves careful control of filtration and disinfection processes, as well as, continuous monitoring and testing.

We test our products for purity and consistency throughout the bottling process and in hourly tests on finished products. The controlled process and testing assures consistency in taste and purity.

TABLE 1: GRAND SPRINGS DISTRIBUTION SPECIFIC MINERAL ANALYSIS

General Mineral Analysis	Results	Detection Limit	FDA SOQ
Bicarbonate	34	20	-----
Calcium	7.6	2.0	-----
Chloride	3.0	1.0	250
Fluoride	ND	0.10	-----
Magnesium	2.5	0.10	-----
Sodium	6	1	-----
Sulfate	ND	5	250
Total Dissolved Solids	76	5	500
Alkalinity	34	20	-----
PH	5.4	----	-----

ND = Not detected

TABLE 2: PRODUCT ANALYSIS*(All results reported in mg/L except as noted)*

Product>	Results	Detection Limit	FDA SOQ
<u>Inorganic Chemicals</u>			
Antimony (2)	ND	0.003	0.006
Arsenic	ND	0.002	0.010
Barium	ND	0.10	2.0
Beryllium (2)	ND	0.001	0.004
Cadmium	ND	0.001	0.005
Chromium	ND	0.007	0.1
Cyanide (2)	ND	0.02	200
Fluoride	ND	0.10	-----
Lead	ND	0.001	0.005
Mercury	ND	0.0002	0.002
Nickel (2)	ND	0.005	0.1
Nitrate-N	0.90	0.05	10.0
Nitrite-N	ND	0.05	1.0
Total Nitrate + Nitrite	0.90	0.50	
Uranium	ND	0.001	0.030
Selenium	ND	0.002	0.05
Thallium (2)	ND	0.001	0.002
<u>Secondary Inorganic Parameters</u>			
Aluminum	ND	0.05	0.2
Chloride	3.0	1	250
Copper	0.004	0.002	1
Iron	ND	0.020	0.3
Manganese	ND	0.004	0.05
Silver	ND	0.002	0.1
Sulfate	ND	5	250
Total Dissolved Solids (TDS)	76	5	500
Zinc	0.004	0.004	5
<u>Volatile Organic Chemicals</u>			
1,1,1-Trichloroethane	ND	0.0005	0.2
1,1,2-Trichloroethane	ND	0.0005	0.005
1,1-Dichloroethene	ND	0.0005	0.007
1,2,4-Trichlorobenzene	ND	0.0005	0.07
1,2-Dichloroethane	ND	0.0005	0.005
1,2-Dichloropropane	ND	0.0005	0.005
Benzene	ND	0.0005	0.005
Carbon tetrachloride	ND	0.0005	0.005
cis-1,2-Dichloroethene	ND	0.0005	0.07
trans-1,2-Dichloroethene	ND	0.0005	0.1
Ethylbenzene	ND	0.0005	0.7
Haloacetic acids, total (HAA5)	ND	0.001	0.06
Methylene chloride (Dichloromethane)	ND	0.0005	0.005
Methyl tertiary butyl ether (MTBE)	ND	0.0005	-----
Monochlorobenzene	ND	0.0005	-----
o-Dichlorobenzene	ND	0.0005	0.6

ND = Not detected

Product>	Results	Detection Limit	FDA SOQ
<u>Volatile Organic Chemicals</u>			
<u>(Cont'd.)</u>			
p-Dichlorobenzene	ND	0.0005	-----
Naphthalene	ND	0.0005	-----
Styrene	ND	0.0005	0.1
1,1,2,2-Tetrachloroethane	ND	0.0005	-----
Tetrachloroethene	ND	0.0005	0.005
Toluene	ND	0.0005	1
Trichloroethene	ND	0.0005	0.005
Vinyl chloride	ND	0.0005	0.002
Xylenes (total)	ND		10
Bromodichloromethane	ND	0.0005	-----
Chlorodibromomethane	ND	0.0005	-----
Chloroform	ND	0.0005	-----
Bromoform	ND	0.0005	-----
Total Trihalomethanes	ND	0.0005	0.080
<u>Semivolatile Organic Chemicals</u>			
Benzo(a)pyrene	ND	0.0002	0.0002
Di(2-ethylhexyl)adipate	ND	0.0002	0.4
Di(2-ethylhexyl)phthalate	ND	0.0006	
Hexachlorobenzene	ND	0.0001	0.001
Hexachlorocyclopentadiene	ND	0.0001	0.05
Total Recoverable Phenolics	ND	0.001	-----
<u>Synthetic Organic Chemicals</u>			
2,4,5-TP (Silvex)	ND	0.0002	0.05
2,4-D (Dichlorophenoxy acetic acid)	ND	0.0001	0.07
Alachlor	ND	0.0002	0.002
Aldicarb	ND	0.001	
Aldicarb sulfone	ND	0.001	
Aldicarb sulfoxide	ND	0.001	
Atrazine	ND	0.0001	0.003
Carbofuran	ND	0.001	0.04
Chlordane	ND	0.0001	0.002
Dalapon	ND	0.001	0.2
Dibromochloropropane (DBCP)	ND	0.0001	0.0002
Dinoseb	ND	0.0002	0.007
Dioxin (2,3,7,8-TCDD)	ND	5pg/L	-----
Diquat	ND	0.001	0.02
Endothall	ND	0.009	0.1
Endrin	ND	0.0002	0.002
Ethylene dibromide	ND	0.00001	-----
Glyphosate	ND	0.006	0.7
Heptachlor	ND	0.00001	0.0004
Heptachlor epoxide	ND	0.00001	0.0002
Lindane	ND	0.00002	0.0002
Methoxychlor	ND	0.0001	0.04
Oxamyl (vydate)	ND	0.001	0.2
Pentachlorophenol	ND	0.00004	0.001
Picloram	ND	0.0001	0.5
Polychlorinated biphenyls (PCBs)	ND	0.0005	0.0005
Simazine	ND	0.0001	0.004
Toxaphene	ND	0.001	0.003

ND = Not detected

Product>	Results	Detection Limit	FDA SOQ
<u>Water Properties</u>			
Color	ND	3.0	15
Turbidity	ND	0.1	5
pH	5.4	----	----
Odor	ND	----	3
<u>Radiological Contaminants</u>			
Gross alpha particle activity	0.792	-----	15
Gross beta particle and photon activity	4.68	-----	50
Radium 226	0.268	-----	-----
Radium 228	-0.024	-----	5
<u>Microbiological Contaminants</u>			
Total Coliform	ND	1	0.0
<i>E. Coli</i>	ND	1	0.0
<i>Cryptosporidium parvum</i>	ND	0.0	0.0
<i>Giardia lamblia</i>	ND	0.0	0.0
<u>ANALYTICAL REPORT BY</u>			
<u>NATIONAL TESTING LABS</u>			
<u>YPSILANTI, MI</u>			

ND = Not detected