



2021 Annual Water Quality Report

Introduction

Richard's Rainwater takes pride in providing our customers with the cleanest and safest water for our customers. The following water report is a review of the rainwater that is used in both our Still and Sparkling offerings. For Sparkling Rainwater, the Still Rainwater is carbonated at a low temperature, under high pressure then bottled off for our customers to enjoy. We take pride in providing our customers with a differentiated packaged water option that is free from chemicals and toxins.

Richard's Rainwater Mission

To inspire and improve the lives of our customers and communities we serve by using local rainwater capture and distribution systems to provide the purest, cleanest, most sustainable source of drinking water on the planet.

Richard's Rainwater Source

All the water used in the making of Richard's Rainwater products comes from water collected from the clouds from across the country. We bottle the rainwater at the source and then ship it to our customers.

Common Water Analysis Attributes

Parameter	Detection Limit	unit	Results
Physical Quality			
Color	3.0	ACU	ND
Total Dissolved Solids	10	mg/L	ND
Turbidity	0.10	NTU	0.46
Odor, Threshold	1.0	TON	ND
Microbiological Quality			
Coliforms in 100/mL Water	PA		Absent
E. coli in 100/mL Water	PA		Absent

Full Water Analysis Attributes

Parameter	Detection Limit	unit	Results
Disinfection Residuals/Disinfection By-Products			
Bromate	1.0	ug/L	ND
Chloramine, Total	0.10	mg/L	ND
Chlorite	0.010	mg/L	ND
Chlorine Dioxide	0.24	mg/L	ND
Monochloroacetic Acid	2.0	ug/L	ND
Monobromoacetic Acid	1.0	ug/L	ND
Dichloroacetic Acid	1.0	ug/L	ND
Trichloroacetic Acid	1.0	ug/L	ND
Dibromoacetic Acid	1.0	ug/L	ND



Parameter	Detection Limit	unit	Results
Disinfection Residuals/Disinfection By-Products (Continued)			
Total Haloacetic Acid	2.0	ug/L	ND
Chlorine, Total Residual	0.10	mg/L	ND
Chlorine, Free Residual	0.10	mg/L	ND
Radiologicals			
Gross Alpha	3.0	pCi/L	ND
Alpha Variance +/-	-	pCi/L	0.53
Gross Beta	3.0	pCi/L	ND
Beta Variance +/-	-	pCi/L	0.52
Radium-226	1.0	pCi/L	ND
Radium 226 Variance +/-	-	pCi/L	0.4
Radium-228	1	pCi/L	ND
Radium 228 Variance +/-	-	pCi/L	0.7
Uranium	1.0	ug/L	ND
Inorganic Chemicals			
Aluminum	20	ug/L	ND
Antimony	1.0	ug/L	ND
Arsenic	1.0	ug/L	ND
Barium	2.0	ug/L	ND
Beryllium	1.0	ug/L	ND
Cadmium	0.50	ug/L	ND
Chloride	0.50	mg/L	ND
Chromium (includes Hexavalent Chromium)	1.0	ug/L	ND
Copper	2.0	ug/L	ND
Cyanide, Total	0.025	mg/L	ND
Fluoride	0.050	mg/L	ND
Iron	0.010	ug/L	ND
Lead	0.50	ug/L	ND
Manganese	2.00	ug/L	ND
Mercury	0.20	ug/L	ND
Nickel	5.0	ug/L	ND
Nitrogen, Nitrate	0.10	mg/L	ND
Nitrogen, Nitrite	0.050	mg/L	ND
Total Nitrate + Nitrite-Nitrogen	0.10	mg/L	ND
Selenium	5.0	ug/L	ND
Silver	0.50	ug/L	ND
Sulfate as SO4	0.50	mg/L	ND
Thallium	1.0	ug/L	ND
Phenolics	1.0	ug/L	ND
Zinc	20	ug/L	ND
Organic Chemicals			
<i>Diquat and Paraquat (Ref: EPA 549.2)</i>			
Diquat	0.40	ug/L	ND
Paraquat	2.0	ug/L	ND

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Parameter	Detection Limit	unit	Results
Organic Chemicals (Continued)			
<i>Endothall (Ref: EPA 548.1) - (ug/L)</i>			
Endothall	5.0	ug/L	ND
<i>Glyphosate (Ref: EPA 547)</i>			
Glyphosate	6.0	ug/L	ND
<i>2,3,7,8-TCDD (Ref: EPA 1613B)</i>			
2,3,7,8-Tetrachlorodibenzo-p-dioxin	5.00	pg/L	ND
<i>Carbamate Pesticides (Ref: 531.2)</i>			
3-Hydroxycarbofuran	0.50	ug/L	ND
Aldicarb	0.50	ug/L	ND
Aldicarb sulfone	0.50	ug/L	ND
Aldicarb sulfoxide	0.50	ug/L	ND
Baygon	0.50	ug/L	ND
Carbaryl	0.50	ug/L	ND
Carbofuran	0.50	ug/L	ND
Methiocarb	0.50	ug/L	ND
Methomyl	0.50	ug/L	ND
Oxamyl	0.50	ug/L	ND
<i>Herbicides (Ref: EPA 515.3)</i>			
2,4-D	0.10	ug/L	ND
2,4-DB	2.0	ug/L	ND
2,4,5-T	0.20	ug/L	ND
2,4,5-TP (Silvex)	0.20	ug/L	ND
3,5-Dichlorobenzoic acid	0.50	ug/L	ND
Acifluorfen	0.20	ug/L	ND
Bentazon	0.50	ug/L	ND
Dalapon	1.0	ug/L	ND
DCPA Acid Metabolites	0.10	ug/L	ND
Dicamba	0.10	ug/L	ND
Dichlorprop	0.50	ug/L	ND
Dinoseb	0.20	ug/L	ND
Pentachlorophenol	0.040	ug/L	ND
Picloram	0.10	ug/L	ND
<i>Semivolatile Organic Compounds (Ref: EPA 525.2)</i>			
2,4-Dinitrotoluene	0.10	ug/L	ND
Acenaphthylene	0.10	ug/L	ND
Alachlor	0.050	ug/L	ND
Aldrin	0.010	ug/L	ND
alpha-Chlordane	0.050	ug/L	ND
Anthracene	0.020	ug/L	ND
Atrazine	0.050	ug/L	ND
Benzo(a)Anthracene	0.050	ug/L	ND
Benzo(a)Pyrene	0.020	ug/L	ND
Benzo(b)Fluoranthene	0.020	ug/L	ND

ND = Not Detected

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Parameter	Detection Limit	unit	Results
<i>Semivolatile Organic Compounds (Continued)</i>			
Benzo(g,h,i)Perylene	0.050	ug/L	ND
Benzo(k)Fluoranthene	0.020	ug/L	ND
bis(2-Ethylhexyl)adipate	0.60	ug/L	ND
bis(2-Ethylhexyl)phthalate (DEHP)	0.60	ug/L	ND
Bromacil	0.10	ug/L	ND
Butachlor	0.050	ug/L	ND
Butylbenzylphthalate	0.50	ug/L	ND
Caffeine	0.050	ug/L	ND
Chrysene	0.020	ug/L	ND
Diazinon	0.10	ug/L	ND
Dibenz(a,h)Anthracene	0.050	ug/L	ND
Dieldrin	0.010	ug/L	ND
Diethylphthalate	0.50	ug/L	ND
Dimethoate	0.10	ug/L	ND
Dimethylphthalate	0.50	ug/L	ND
Di-n-butylphthalate	1.0	ug/L	ND
Endrin	0.10	ug/L	ND
Fluoranthene	0.10	ug/L	ND
Fluorene	0.050	ug/L	ND
gamma-Chlordane	0.050	ug/L	ND
Heptachlor	0.010	ug/L	ND
Heptachlor Epoxide	0.010	ug/L	ND
Hexachlorobenzene	0.050	ug/L	ND
Hexachlorocyclopentadiene	0.050	ug/L	ND
Indeno(1,2,3,c,d)Pyrene	0.050	ug/L	ND
Isophorone	0.50	ug/L	ND
Lindane (gamma-BHC)	0.010	ug/L	ND
Methoxychlor	0.050	ug/L	ND
Metolachlor	0.050	ug/L	ND
Metribuzin	0.050	ug/L	ND
Molinate	0.10	ug/L	ND
Phenanthrene	0.040	ug/L	ND
Propachlor	0.050	ug/L	ND
Pyrene	0.050	ug/L	ND
Simazine	0.050	ug/L	ND
Thiobencarb (ELAP)	0.20	ug/L	ND
trans-Nonachlor	0.050	ug/L	ND
Trifluralin	0.10	ug/L	ND
<i>Volatiles: EDB and DBCP (Ref: EPA 504.1)</i>			
1,2-Dibromo-3-Chloropropane (DBCP)	0.010	ug/L	ND
Ethylene Dibromide (EDB)	0.010	ug/L	ND

ND = Not Detected



Parameter	Detection Limit	unit	Results
Volatiles Regulated and Monitoring VOC's (Ref: EPA 524.2)			
Bromoform	0.50	ug/L	ND
Chloroform	0.50	ug/L	ND
Styrene	0.50	ug/L	ND
Carbon disulfide	0.50	ug/L	ND
Vinyl Chloride	0.30	ug/L	ND
Carbon Tetrachloride	0.50	ug/L	ND
m+p-Xylenes	0.50	ug/L	ND
o-Xylene	0.50	ug/L	ND
Total Xylenes	0.50	ug/L	ND
Methyl-tert-Butyl Ether (MTBE)	0.50	ug/L	ND
tert-amyl Methyl Ether	3.0	ug/L	ND
tert-Butyl Ethyl Ether	3.0	ug/L	ND
Di-isopropyl ether	3.0	ug/L	ND
Naphthalene	0.50	ug/L	ND
Hexachlorobutadiene	0.50	ug/L	ND
Total Trihalomethanes	0.50	ug/L	ND
Benzene	0.50	ug/L	ND
Isopropylbenzene (Cumene)	0.50	ug/L	ND
n-Propylbenzene	0.50	ug/L	ND
Ethyl Benzene	0.50	ug/L	ND
Bromobenzene	0.50	ug/L	ND
Chlorobenzene	0.50	ug/L	ND
1,3-Dichlorobenzene	0.50	ug/L	ND
1,2-Dichlorobenzene	0.50	ug/L	ND
1,4-Dichlorobenzene	0.50	ug/L	ND
1,2,3-Trichlorobenzene	0.50	ug/L	ND
1,2,4-Trichlorobenzene	0.50	ug/L	ND
1,2,4-Trimethylbenzene	0.50	ug/L	ND
1,3,5-Trimethylbenzene	0.50	ug/L	ND
n-Butylbenzene	0.50	ug/L	ND
sec-Butylbenzene	0.50	ug/L	ND
tert-Butylbenzene	0.50	ug/L	ND
1,1-Dichloroethylene	0.50	ug/L	ND
cis-1,2-Dichloroethylene	0.50	ug/L	ND
trans-1,2-Dichloroethylene	0.50	ug/L	ND
Trichloroethylene	0.50	ug/L	ND
Tetrachloroethylene	0.50	ug/L	ND
1,2-Dichloropropane	0.50	ug/L	ND
1,3-Dichloropropane	0.50	ug/L	ND
2,2-Dichloropropane	0.50	ug/L	ND
1,2,3-Trichloropropane	0.50	ug/L	ND
1,1-Dichloropropene	0.50	ug/L	ND
cis-1,3-Dichloropropene	0.50	ug/L	ND
trans-1,3-Dichloropropene	0.50	ug/L	ND

ND = Not Detected

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Parameter	Detection Limit	unit	Results
<i>Volatiles: Regulated and Monitoring VOC's (Continued)</i>			
Total 1,3-Dichloropropene	0.50	ug/L	ND
2-Butanone (MEK)	5.0	ug/L	ND
4-Methyl-2-Pentanone (MIBK)	5.0	ug/L	ND
Bromoethane	0.50	ug/L	ND
Bromomethane (Methyl Bromide)	0.50	ug/L	ND
Dibromomethane	0.50	ug/L	ND
Chlorodibromomethane	0.50	ug/L	ND
Chloromethane (Methyl Chloride)	0.50	ug/L	ND
Bromochloromethane	0.50	ug/L	ND
Dichloromethane	0.50	ug/L	ND
Bromodichloromethane	0.50	ug/L	ND
Dichlorodifluoromethane	0.50	ug/L	ND
Trichlorofluoromethane	0.50	ug/L	ND
Trichlorotrifluoroethane	0.50	ug/L	ND
Chloroethane	0.50	ug/L	ND
1,1-Dichloroethane	0.50	ug/L	ND
1,2-Dichloroethane	0.50	ug/L	ND
1,1,1-Trichloroethane	0.50	ug/L	ND
1,1,1,2-Tetrachloroethane	0.50	ug/L	ND
1,1,2-Trichloroethane	0.50	ug/L	ND
1,1,2,2-Tetrachloroethane	0.50	ug/L	ND
Toluene	0.50	ug/L	ND
p-Isopropyltoluene (Cymene)	0.50	ug/L	ND
o-Chlorotoluene	0.50	ug/L	ND
p-Chlorotoluene	0.50	ug/L	ND
<i>Chlorinated Pesticides and Organohalides (Ref: EPA 508.1)</i>			
Toxaphene	0.50	ug/L	ND
Chlordane	0.10	ug/L	ND
PCB 1016	0.080	ug/L	ND
PCB 1221	0.10	ug/L	ND
PCB 1232	0.10	ug/L	ND
PCB 1242	0.10	ug/L	ND
PCB 1248	0.10	ug/L	ND
PCB 1254	0.10	ug/L	ND
PCB 1260	0.10	ug/L	ND
Endrin	0.0100	ug/L	ND
Total PCBs	0.10	ug/L	ND



PFAS/PFOA Water Analysis Attributes

Parameter	Detection Limit	unit	Results
10:2 FTOH-2-Perfluorodecyl ethanol	1.0	ug/L	<1.0
8:2 FTOH-2-Perfluorooctyl ethanol	1.0	ug/L	<1.0
7:2 FTOH-1-Perfluoroheptyl ethanol	1.0	ug/L	<1.0
6:2 FTOH-2-Perfluorohexyl ethanoic acid	1.0	ug/L	<1.0
4:2 FTOH-2-Perfluorobutyl ethanol	1.0	ug/L	<1.0
NVHOS	1.7	ng/L	<1.7
Perfluoro (2-ethoxyethane) sulfonic acid	1.7	ng/L	<1.7
10:2 FTS	4.2	ng/L	<4.2
PMPA	1.7	ng/L	<1.7
HFPODA	2.5	ng/L	<2.5
Perfluoro-4-ethylcyclohexanesulfonic acid	1.7	ng/L	<1.7
PFECA B	1.7	ng/L	<1.7
Perfluorooctadecanoic acid	2.5	ng/L	<2.5
NEtFOSE	2.5	ng/L	<2.5
Perfluorooctanesulfonic acid	1.7	ng/L	<1.7
Perfluoroundecanoic acid	1.7	ng/L	<1.7
NMeFOSAA	1.7	ng/L	<1.7
R-PSDA	1.7	ng/L	<1.7
Hydrolyzed PSDA	1.7	ng/L	<1.7
R-PSDCA	1.7	ng/L	<1.7
R-EVE	1.7	ng/L	<1.7
NMeFOSE	2.5	ng/L	<2.5
PEPA	1.7	ng/L	<1.7
Perfluoropentanoic acid	1.7	ng/L	<1.7
Perfluoropentanesulfonic acid	1.7	ng/L	<1.7
6:2 Fluorotelomer sulfonic acid	4.2	ng/L	<4.2
8:2 FTCA	1.7	ng/L	<1.7
PS Acid	1.7	ng/L	<1.7
NEtFOSAA	2.5	ng/L	<2.5
Perfluorohexanoic acid	1.7	ng/L	<1.7
Perfluorododecanoic acid	1.7	ng/L	<1.7
NMeFOSA	2.5	ng/L	<2.5
Perfluorooctanoic acid	1.7	ng/L	<1.7
Perfluorodecanoic acid	1.7	ng/L	<1.7
Perfluorodecanesulfonic acid	1.7	ng/L	<1.7
Perfluorohexanesulfonic acid	1.7	ng/L	<1.7
3:3 FTCA	1.7	ng/L	<1.7
Perfluorobutanoic acid	4.2	ng/L	<4.2
Perfluorobutanesulfonic acid	1.7	ng/L	<1.7
Perfluoroheptanoic acid	1.7	ng/L	<1.7
Perfluoroheptanesulfonic acid	1.7	ng/L	<1.7
Perfluorononanoic acid	1.7	ng/L	<1.7
Perfluorotetradecanoic acid	1.7	ng/L	<1.7

ND = Not Detected

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Parameter	Detection Limit	unit	Results
PFECA F	1.7	ng/L	<1.7
8:2 Fluorotelomer sulfonic acid	2.5	ng/L	<2.5
PFO2HxA	1.7	ng/L	<1.7
PFO3OA	1.7	ng/L	<1.7
PFO4DA	1.7	ng/L	<1.7
TAF	4.2	ng/L	<4.2
NEtFOSA	4.2	ng/L	<4.2
PPF Acid	4.2	ng/L	<4.2
Perfluoropropanesulfonic acid	1.7	ng/L	<1.7
6:2 FTCA	1.7	ng/L	<1.7
10:2 FTCA	1.7	ng/L	<1.7
PFMOAA	1.7	ng/L	<1.7
Perfluorohexadecanoic acid	2.5	ng/L	<2.5
Perfluorononanesulfonic acid	1.7	ng/L	<1.7
EVE Acid	1.7	ng/L	<1.7
8:2 FTUCA	1.7	ng/L	<1.7
6:2 FTUCA	1.7	ng/L	<1.7
10:2 FTUCA	1.7	ng/L	<1.7
Perfluorotridecanoic acid	1.7	ng/L	<1.7
Hydro-PS Acid	1.7	ng/L	<1.7
Perfluorooctanesulfonamide	1.7	ng/L	<1.7
9Cl-PF3ONS	1.7	ng/L	<1.7
4:2 Fluorotelomer sulfonic acid	1.7	ng/L	<1.7
11Cl-PF3OUdS	1.7	ng/L	<1.7
Hydro-EVE Acid	1.7	ng/L	<1.7
Perfluorododecanesulfonic acid	2.5	ng/L	<2.5
PFECA G	1.7	ng/L	<1.7
7:3 FTCA	1.7	ng/L	<1.7
PFECA A	1.7	ng/L	<1.7
5:3 FTCA	1.7	ng/L	<1.7
DONA	1.7	ng/L	<1.7
MTP	4.2	ng/L	<4.2