

Santa Claus Water Utility Water Quality Data for 2015

Inorganic Contaminants (2013)

| | MCL MG/L | D.L. MG/L | Result MG/L |
|---------------|-------------|--------------|----------------|
| Antimony | 0.006 | 0.001 | BDL |
| Arsenic | 0.01 | 0.002 | BDL |
| Barium | 2 | 0.002 | 0.095 |
| Beryllium | 0.004 | 0.0003 | BDL |
| Cadmium | 0.005 | 0.001 | BDL |
| Chromium | 0.1 | 0.002 | 0.004 |
| Cyanide, Free | 0.2 | 0.02 | BDL |
| Flouride | 2 | 0.5 | 0.297 |
| Mercury | 0 | 0.0001 | BDL |
| Nickel | 0.1 | 0.001 | BDL |
| Nitrate | 10 | 0.1 | 2.17 |
| Selenium | 0.05 | 0.002 | 0.005 |
| Sodium | U.C. | 0.1 | 81.9 |
| Thallium | 0.002 | 0.0004 | BDL |
| Nitrite | 1 | 0.01 | BDL |

Definitions

| | |
|---------|--|
| "MCL" | means maximum contaminant level |
| "BDL" | means below detectable limit |
| "pCi/L" | means picocuries per liter |
| "D.L." | means detectable limit |
| "mg/L" | means part per million or milligrams per liter |
| "ug/L" | means part per billion or micrograms per liter |

Radioactive Contaminants (2011)

| | MCL | Result | Result |
|-------------|------|--------|--------|
| Radium 228 | 5 | BDL | pCi/L |
| Gross Beta | 40 | 5.7 | pCi/L |
| Gross Alpha | 15 | BDL | pCi/L |
| Uranium | 0.03 | 0.0006 | Mg/L |

Synthetic Organic Contaminants (2015)

| | MCL ug/L | D.L. ug/L | Result ug/L |
|---------------------------|-------------|--------------|----------------|
| Alachlor(Lasso) | 2 | 0.2 | BDL |
| Atrazine | 3 | 0.2 | BDL |
| Benzo(a)pyrene | 0.2 | 0.02 | BDL |
| Carbofuran | 40 | 0.5 | BDL |
| Chlordane(alpha & gamma) | 2 | 0.05 | BDL |
| 2,4-D | 70 | 0.15 | BDL |
| Dalapon | 200 | 1.0 | BDL |
| DBCP | 0.2 | 0.01 | BDL |
| Dinoseb | 7 | 0.3 | BDL |
| 2,3,7,8-TCDD(Dioxin) | 3x10-5 | 0 | BDL |
| Disquat | 20 | 0.66 | BDL |
| Di(2-ethylhexyl)adipate | 400 | 0.5 | BDL |
| Di(2ethylhexyl)phthalate | 6 | 1.0 | BDL |
| Endothall | 100 | 0.5 | BDL |
| Endrin | 2 | 0.02 | BDL |
| Ethylene Dibromide(EDB) | 0.05 | 10.0 | BDL |
| Glyphosate (Round-Up) | 700 | 5.0 | BDL |
| Heptachlor | 0.4 | 0.02 | BDL |
| Heptachlor Epoxide | 0.2 | 0.02 | BDL |
| Hexachlorobenzene | 1 | 0.1 | BDL |
| Hexachlorocyclopentadiene | 50 | 0.1 | BDL |
| Lindane | 0.2 | 0.02 | BDL |
| Methoxychlor | 40 | 0.1 | BDL |
| Oxamyl(Vydate) | 200 | 0.5 | BDL |
| Pentachlorophenol | 1 | 0.04 | BDL |
| Picloram (Tordon) | 500 | 0.15 | BDL |
| PCBs | 0.5 | 0 | BDL |
| Simazine | 4 | 0.15 | BDL |
| 2,4,5-TP (Silvex) | 50 | 0.08 | BDL |
| Toxaphene | 3 | 0.08 | BDL |
| Nitrates (2014) | 10 | 0.02 | 4.16 |
| Nitrites (2014) | 1.0 | 0.06 | BDL |

Likely sources of Contamination

Lead: Corrosion of household plumbing systems, and erosion of natural deposits.
Copper: Corrosion of household plumbing systems.

Bacteriological/Disinfection

There were no positive bacteriological sample results in 2015, and no disinfectant residual violations.

Asbestos

| MCL | D.L. | Result |
|-------|-------|--------|
| 7 MFL | 0.102 | BDL |

Volatile Organic Contaminants (2014)

| | MCL ug/L | D.L. ug/L | Result ug/L |
|----------------------------|-------------|--------------|----------------|
| Benzene | 5 | 0.5 | BDL |
| Carbon Tetrachloride | 5 | 0.5 | BDL |
| Chlorobenzene | 100 | 0.5 | BDL |
| 1,2-Dichlorobenzene | 600 | 0.5 | BDL |
| 1,4-Dichlorobenzene | 75 | 0.5 | BDL |
| 1,2-Dichlorobenzene | 5 | 0.5 | BDL |
| 1,1-Dichloroethylene | 7 | 0.5 | BDL |
| 1,2-Dichloroethylene,cis | 70 | 0.5 | BDL |
| 1,2-Dichloroethylene,trans | 100 | 0.5 | BDL |
| Dichloromethane | 5 | 0.5 | BDL |
| 1,2-Dichloropropane | 5 | 0.5 | BDL |
| Ethylbenzene | 700 | 0.5 | BDL |
| Styrene | 100 | 0.5 | BDL |
| Tetrachloroethylene | 5 | 0.5 | BDL |
| Toluene | 1000 | 0.5 | BDL |
| 1,2,4-Trichlorobenzene | 70 | 0.5 | BDL |
| 1,1,1-Trichloroethane | 200 | 0.5 | BDL |
| 1,1,2-Trichloroethane | 5 | 0.5 | BDL |
| Trichloroethylene | 5 | 0.5 | BDL |
| Vinyl Chloride | 2 | 0.2 | BDL |
| Total Xylenes | 10000 | 0.5 | BDL |

Unregulated Volatile Organic Contaminants (2014)

| | | | |
|-------------------------------|------|-----|-----|
| Bromobenzene | 0 | 0.5 | BDL |
| Bromomethane | 0 | 0.5 | BDL |
| Chloroethane | 0 | 0.5 | BDL |
| 2-Chlorotoluene | 0 | 0.5 | BDL |
| 4-Chlorotoluene | 0 | 0.5 | BDL |
| 1,3-Dichlorobenzene | 0 | 0.5 | BDL |
| 1,1-Dichloroethane | 0 | 0.5 | BDL |
| 1,3-Dichloropropane | 0 | 0.5 | BDL |
| 2,2-Dichloropropane | 0 | 0.5 | BDL |
| 1,1-Dichloropropane | 0 | 0.5 | BDL |
| 1,3-Dichloropropane(cis&trar) | 0 | 0.5 | BDL |
| 1,1,1,2-Tetrachloroethane | 0 | 0.5 | BDL |
| 1,1,2,2-Tetrachloroethane | 0 | 0.5 | BDL |
| 1,2,3-Trichloropropane | 0 | 0.5 | BDL |
| Dibromomethane | 0 | 0.5 | BDL |
| Bromodichloromethane | 0 | 0.5 | BDL |
| Bromoform | 0 | 0.5 | 2.4 |
| Chlorodibromomethane | 0 | 0.5 | 1.9 |
| Chloroform | 0 | 0.5 | BDL |
| Methy-T-butyl ether | 5000 | 0.5 | BDL |

Lead 90th Percentile (2014)

0.015 0.0026 mg/L

Copper 90th Percentile (2014)

1.3 0.25 mg/L

| | MCL | RESULT |
|------------------------------|------|------------|
| | ug/L | ug/L |
| <u>Haloacetic Acids 5</u> | 60 | 16.19 Avg. |
| 2015 Range | | 0 to 51 |
| <u>Total Trihalomethanes</u> | 80 | 21.5 Avg. |
| 2015 Range | | 5 to 69 |