**JORDAN VALLEY WATER CONSERVANCY DISTRICT**
**Consumer Confidence Report Data**
**2015**

**Report: B**

The table below lists all of the parameters in the drinking water detected by Jordan Valley Water Conservancy District or its suppliers in the drinking water during the calendar year of this report. The presence of these parameters in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of this report. For certain parameters, EPA and/or the State requires monitoring at a frequency less than once per year because the concentrations do not change frequently.

| Parameter | Units | 2015 Average | 2015 Maximum | 2015 Minimum | Monitoring Criteria | | | Last Sampled | Comments/Likely Source |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | MCL | MCLG | Violation | | |
| **PRIMARY INORGANICS** | | | | | | | | | |
| Antimony | ug/L | ND | ND | ND | 6.00 | 6.00 | No | 2014 | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder. |
| Arsenic | ug/L | 2.1 | 3.2 | ND | 10.0 | 0.0 | No | 2015 | Erosion of naturally occurring deposits and runoff from orchards. |
| Asbestos | MFL | ND | ND | ND | 7.0 | 7.0 | No | 2014 | Decay of asbestos cement in water mains; erosion of natural deposits. |
| Barium | ug/L | 66 | 111 | 13 | 2000 | 2000 | No | 2015 | Erosion of naturally occurring deposits. |
| Beryllium | ug/L | ND | ND | ND | 4 | 4 | No | 2015 | Discharge from metal refineries and coal burning factories. |
| Cadmium | ug/L | ND | ND | ND | 5.00 | 5.00 | No | 2015 | Corosion of galvanized pipes; erosion of natural deposits. |
| Copper | ug/L | 3 | 38 | ND | NE | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Chromium | ug/L | ND | ND | ND | 100.0 | 100.0 | No | 2015 | Discharge from steel and pulp mills; Erosion of natural deposits. |
| Cyanide, Free | ug/L | ND | ND | ND | 200.0 | 200.0 | No | 2013 | Discharge from steel/metal factories; discharge from plastic and fertilizer factories. |
| Fluoride | mg/L | 0.5 | 1.3 | 0.2 | 4.0 | 4.0 | No | 2015 | Erosion of naturally occurring deposits and discharges from fertilizers. Fluoride added at source. |
| Lead | ug/L | 0.1 | 1.0 | ND | NE | NE | No | 2015 | Erosion of naturally occurring deposits. Compliance is based on samples taken from customer's taps, which is represented below. |
| Mercury | ug/L | ND | ND | ND | 2.00 | 2.00 | No | 2015 | Erosion of naturally occurring deposits and runoff from landfills. |
| Nickel | ug/L | 0.0 | 4.5 | ND | NE | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Nitrate | mg/L | 0.7 | 2.1 | ND | 10.0 | 10.0 | No | 2015 | Runoff from fertilizer, leaching from septic tanks, and naturally occurring organic material. |
| Nitrite | mg/L | ND | ND | ND | 1.0 | 1.0 | No | 2015 | Runoff from fertilizer, leaching from septic tanks, and naturally occurring organic material. |
| Selenium | ug/L | 1.1 | 3.1 | 0.0 | 50.0 | 50.0 | No | 2015 | Erosion of naturally occurring deposits. |
| Sodium | mg/L | 27.9 | 79.9 | 5.4 | NE | NE | No | 2015 | Erosion of naturally occurring deposits and runoff from road deicing. |
| Sulfate | mg/L | 50 | 100 | 23 | 1000 | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Thallium | ug/L | ND | ND | ND | 2.0 | 0.5 | No | 2015 | Leaching from ore-processing sites and discharges from electronics, glass and drug factories. |
| TDS | mg/L | 347 | 688 | 100 | 2000 | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Turbidity (groundwater sources) | NTU | 0.30 | 0.52 | 0.08 | 5.0 | NE | No | 2015 | MCL is 5.0 for groundwater. Suspended material from soil runoff. |
| Turbidity (surface water sources) | NTU | 0.03 | 0.13 | 0.01 | 0.3 | TT | No | 2015 | MCL is 0.3 NTU 95% of the time for surface water. Suspended material from soil runoff. |
| Lowest Monthly % Meeting TT | % | 100% (Treatment Technique requirement applies only to treated surface water sources) | | | | | | | |
| **SECONDARY INORGANICS - Aesthetic Standards** | | | | | | | | | |
| Aluminum | ug/L | ND | ND | ND | SS = 50-200 | NE | No | 2015 | Erosion of naturally occurring deposits and treatment residuals. |
| Chloride | mg/L | 51 | 170 | 9 | SS = 250 | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Color | CU | 1 | 1 | 1 | SS = 15 | NE | No | 2015 | Decaying naturally occurring organic material and suspended particles. |
| Iron | ug/L | 2 | 30 | ND | SS = 300 | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Manganese | ug/L | 1 | 5 | ND | SS = 50 | NE | No | 2015 | Erosion of naturally occurring deposits. |
| pH | | 7.8 | 8.3 | 7.4 | SS = 6.5-8.5 | NE | No | 2015 | Naturally occurring and affected by chemical treatment. |
| Silver | ug/L | 0.0 | 0.5 | ND | SS = 100 | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Zinc | ug/L | 0.4 | 30.0 | ND | SS = 5000 | NE | No | 2015 | Erosion of naturally occurring deposits. |
| **UNREGULATED PARAMETERS - monitoring not required** | | | | | | | | | |
| Alkalinity, Bicarbonate | mg/L | 171 | 288 | 60 | UR | NE | No | 2015 | Naturally occurring. |
| Alkalinity, Carbonate | mg/L | 0.5 | 13 | ND | UR | NE | No | 2015 | Naturally occurring. |
| Alkalinity, $CO_2$ | mg/L | 127 | 212 | 45 | UR | NE | No | 2015 | Naturally occurring. |
| Alkalinity, Hydroxide | mg/L | ND | ND | ND | UR | NE | No | 2015 | Naturally occurring. |
| Alkalinity, Total ($CaCo_3$) | mg/L | 135 | 236 | 18 | UR | NE | No | 2015 | Naturally occurring. |
| Ammonia | mg/L | ND | ND | ND | UR | NE | No | 2014 | Runoff from fertilizer and naturally occurring. |
| Bromide | ug/L | ND | ND | ND | UR | NE | No | 2015 | Naturally occurring. |
| Calcium | mg/L | 51 | 84 | 15 | UR | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Chemical Oxygen Demand | mg/L | 11 | 18 | ND | UR | NE | No | 2014 | Measures amount of organic compounds in water. Naturally occurring. |
| Cobalt | mg/L | ND | ND | ND | UR | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Conductance | umhos/cm | 494 | 917 | 46 | UR | NE | No | 2015 | Naturally occurring. |
| Cyanide, Total | ug/L | ND | ND | ND | UR | NE | No | 2014 | Discharge from steel/metal factories; discharge from plastic and fertilizer factories. |
| Geosmin | ng/L | 5.9 | 8.6 | ND | UR | NE | No | 2015 | Naturally occurring organic compound associated with musty odor. |
| Hardness, Calcium | mg/L | 121 | 190 | 14 | UR | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Hardness, Total | mg/L | 193 | 402 | 20 | UR | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Chromium VI | mg/L | ND | ND | ND | UR | NE | No | 2011 | Industrial runoff and naturally occurring. |
| Magnesium | mg/L | 18.9 | 47.0 | 2.7 | UR | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Oil & Grease | mg/L | 6 | 19 | ND | UR | NE | No | 2014 | Petroleum hydrocarbans can either occur from natural underground deposits or from man made lubricants. |
| Orthophosphates | ug/L | 6.9 | 140.0 | ND | UR | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Potassium | mg/L | 4.9 | 14.0 | 0.9 | UR | NE | No | 2015 | Erosion of naturally occurring deposits. |
| TSS (Total Suspended Solids) | mg/L | 0.3 | 1 | ND | UR | NE | No | 2015 | Erosion of naturally occurring deposits. |
| Turbidity (distribution system) | NTU | 0.13 | 0.61 | 0.02 | UR | NE | No | 2015 | Suspended material from soil runoff. |
| Vanadium | ug/L | ND | ND | ND | UR | NE | No | 2015 | Naturally occurring. |
| **VOCs** | | | | | | | | | |
| Chloroform | ug/L | 12.6 | 83.2 | ND | UR | NE | No | 2015 | By-product of drinking water disinfection. |
| Dibromochloromethane | ug/L | 1.2 | 4.4 | ND | UR | NE | No | 2015 | By-product of drinking water disinfection. |
| Bromodichloromethane | ug/L | 4.8 | 17.6 | ND | UR | NE | No | 2015 | By-product of drinking water disinfection. |
| All Other Parameters | ug/L | None Detected | | | Various | Various | No | 2015 | Various sources. |
| **PESTICIDES/PCBs/SOCs** | | | | | | | | | |
| Bis (2ethylhexyl) phthalate | ug/L | ND | ND | ND | 6.0 | 0.0 | No | 2015 | Discharge from rubber and chemical factories. |
| All Other Parameters | ug/L | None Detected | | | Various | Various | No | 2015 | Various sources. |
| **RADIOLOGICAL** | | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Radium 226 | pCi/L | 0.22 | 0.68 | 0.03 | NE | NE | No | 2014 | Decay of natural and man-made deposits. |
| Radium 228 | pCi/L | 1.12 | 3.00 | 0.41 | NE | NE | No | 2015 | Decay of natural and man-made deposits. |
| Radium 226 & 228 | pCi/L | 1.47 | 3.11 | 0.44 | 5.00 | NE | No | 2015 | Decay of natural and man-made deposits. |
| Gross-Alpha | pCi/L | 1.7 | 3.7 | -1.2 | 15.0 | NE | No | 2015 | Decay of natural and man-made deposits. |
| Gross-Beta | pCi/L | 9.6 | 14.0 | 3.5 | 50.0 | NE | No | 2015 | Decay of natural and man-made deposits. |
| Uranium | ug/L | 1.5 | 4.1 | ND | 30.0 | NE | No | 2015 | Decay of natural and man-made deposits. |
| Radon | pCi/L | -4.5 | -1.0 | -8.0 | NE | NE | No | 2013 | Naturally occurring in soil. |
| **DISINFECTANTS / DISINFECTION BY-PRODUCTS** | | | | | | | | | |
| Chlorine | mg/L | 0.7 | 1.2 | ND | 4.0 | NE | No | 2015 | Drinking water disinfectant. |
| TTHMs | ug/L | 36.4 | 103.0 | 0.5 | 80.0 | NE | No | 2015 | High result is not a violation, violation is determined on annual location average. By-product of drinking water disinfection. |
| HAA5s | ug/L | 24.4 | 51.3 | ND | 60.0 | NE | No | 2015 | By-product of drinking water disinfection. |
| HAA6 | ug/L | 36.0 | 54.3 | 22.7 | UR | NE | No | 2015 | By-product of drinking water disinfection. |
| Highest Annual Location Wide Avg. | ug/L | TTHM = 58.4 ug/L, HAA5s = 35.1 ug/L | | | | | | | |
| Bromate | ug/L | ND | ND | ND | 10.0 | NE | No | 2015 | By-product of drinking water disinfection. |
| Chlorine Dioxide | ug/L | 6 | 140 | ND | 800 | NE | No | 2015 | Drinking water disinfectant. |
| Chlorite | mg/L | 0.31 | 0.45 | 0.24 | 1.00 | 0.80 | No | 2015 | By-product of drinking water disinfection. |
| **ORGANIC MATERIAL** | | | | | | | | | |
| Total Organic Carbon | mg/L | 1.8 | 3.6 | 0.7 | TT | NE | No | 2015 | Naturally occurring. |
| Dissolved Organic Carbon | mg/L | 2.1 | 2.5 | 1.8 | TT | NE | No | 2015 | Naturally occurring. |
| UV-254 | 1/cm | 0.021 | 0.051 | 0.014 | UR | NE | No | 2015 | This is a measure of the concentration of UV-absorbing organic compounds. Naturally occurring. |
| **LEAD and COPPER (tested at the consumer's tap) - monitoring required every 3 years.** | | | | | | | | | |
| Lead | ug/L | 5 | 87 | ND | AL = 15 | NE | No | 2013 | Lead violation is determined by the 90th percentile result. Corrosion of household plumbing systems, erosion of naturally occurring deposits. |
| Copper | ug/L | 114 | 370 | 11 | AL = 1300 | NE | No | 2013 | Copper violation is determined by the 90th percentile result. Corrosion of household plumbing systems, erosion of naturally occurring deposits. |
| 90th Percentile | | Lead = 4.2 ppb, Copper = 258 ppb | | | | | | | |
| # of sites above Action Level | | Lead = 2, Copper = 0 | | | | | | | |
| **PROTOZOA (sampled at source water)** | | | | | | | | | |
| Cryptosporidium | Oocysts/1L | 0.01 | 0.11 | ND | TT | 0.00 | No | 2015 | Parasite that enters lakes and rivers through sewage and animal waste. |
| Giardia | Cysts/1L | 0.06 | 0.30 | ND | TT | 0.00 | No | 2015 | Parasite that enters lakes and rivers through sewage and animal waste. |
| **MICROBIOLOGICAL** | | | | | | | | | |
| HPC | MPN/mL | 85.3 | 623.0 | ND | 500.0 | 0.0 | No | 2015 | The high maximum result is not a violation because the HPC value is calculated into the Not >5% positive Coliform samples per month. Even with this result the 5% was not exceeded. |
| Total Coliform | % Positive per Month | 0.00% | 0.68% | 0.00% | Not >5% | 0.00 | No | 2015 | MCL is for monthly compliance. All repeat samples were negative; no violations were issued. Human and animal fecal waste, naturally occurring in the environment. |

mg/L: milligrams per liter
ug/L: micrograms per liter
pg/L: picograms per liter
ng/L: nanograms per liter
NTU: Nephelometric Turbidity Unit
CU: Color Unit
TON: Threshold Odor Unit
umhos/cm: micro ohms per centimeter
1/cm: One / centimeter
pCi/L: picocuries per liter
MFL: Millions of Fibers per Liter
MPN/mL: most probable number per milileter
Oocysts/1L: Oocysts per 1 liter
Cysts/1L: Cysts per 1 liter

MCL: Maximum Contaminant Level
MCLG: Maximum Contaminant Level Goal
TTHM: Total Trihalomethanes
HAA5s: Five Haloacetic Acids
HPC: Heterotrophic Plate Count
VOCs: Volatile Organic Compounds
PCBs: Polychlorinated Biphenyls
SOCs: Synthetic Organic Chemicals

ND: None Detected
NA: Not Applicable
NE: Not Established
UR: Unregulated
TT: Treatment Technique
AL: Action Level
SS: Secondary Standard