SACRAMENTO COUNTY WATER AGENCY

2017 WATER QUALITY REPORT - MATHER / SUNRISE / ANATOLIA (See Note #1)

| DETECTED PRIMARY STANDARDS - Ma | andatory Hea | Ith-Relate | ed Standards | | | | | | |
|-------------------------------------------------------------|-----------------------------------------|------------------|-----------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|-----------------------------|---------------------|
| Established by State Water Resources C | Control Board | d (State B | oard) | | | | | | |
| | | | PHG or | | | SURFACE W | ATER (see #2) | GROUN | DWATER |
| | SAMPLE | | (MCLG) or | | | RANGE | WEIGHTED | RANGE | WEIGHTED |
| CONSTITUENT | DATE | UNITS | [MRDLG] | MCL OR [MRDL] | MAJOR SOURCES IN DRINKING WATER | (LO-HI) | AVERAGE | (LO-HI) | AVERAGE |
| INORGANIC CONTAMINANTS | | | | | | | | | |
| | | | | | Erosion of natural deposits; water additive that promotes strong teeth; | | | | |
| Fluoride (Natural Source) | 2016 - 2017 | PPM | 1 | 2 | discharge from fertilizer and aluminum factories. | ND | ND | ND - 0.11 | ND |
| | | | | | Discharge from electroplating factories, leather tanneries, wood preservation | | | | |
| 2 Hoveyelent Chromium | 2014 2017 | PPB | 0.00 | n/a | chemical synthesis, refractory production, and textile manufacturing facilities erosion of natural deposits. | | ND | ND 00 | ND |
| 3 Hexavalent Chromium | 2014 - 2017 | PPB | 0.02 | n/a | Runoff and leaching from fertilizer use; leaching from septic tanks and sewag | ND | ND | ND - 2.3 | ND |
| Nitrate (as N) | 2017 | PPM | 10 | 10 | erosion of natural deposits. | ND | ND | ND - 0.62 | ND |
| RADIOACTIVE CONTAMINANTS | 2017 | 11111 | 10 | 10 | Crooking Printer and Coppositor | NB | ND | 142 0.02 | ND |
| Radium 228 | 2006 - 2008 | pCi/l | 0.019 | n/a | Erosion of natural deposits | ND | ND | ND - 1.22 | ND |
| DISTRIBUTION SYSTEM | 2000 - 2000 | рСіл | 0.019 | IVa | E1031011 01 Hatural deposits | | (LO - HI) | | RAGE |
| Chlorine Residuals | 2017 | PPM | [4] | [4.0] | Drinking water disinfectant added for treatment. | 0 | 2.46 | | 29 |
| | | PPB | | | Byproduct of drinking water disinfection. | ND | 76 | | |
| 4 Total Trihalomethanes | 2017 | | n/a | 80 | ., | | | | 9.5 |
| 5 Haloacetic Acids | 2017 | PPB | n/a | 60 | Byproduct of drinking water disinfection. | ND | 43 | 1 | 1.9 |
| 6 Fluoride (Treated - Distribution) | 2017 | PPM | 1 | 2 | Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories. | 0.6 | 0.88 | 0 | 71 |
| 7 Control of DBP Precursors (TOC) | 2017 | PPM | n/a | TT | Various natural and manmade sources | 0.88 | 1.20 | | .04 |
| | 2017 | FEIN | 11/a | | vanious flatural and mailinade sources | 0.00 | | | .0-1 |
| MICROBIOLOGICAL CONTAMINANTS | | # of | I | | | | LEVEL | FUUND | |
| | | # of Positive | 1 | | | | | | |
| 8 Total Coliform Bacteria | 2017 | Samples | (0) | >1 | Naturally present in the envirionment. | | | | |
| C Total Comonii Bactoria | 2011 | | n/a | TT = 1 NTU | , , | | 0.115 | | |
| | | | 11/4 | TT = 95% of Samples | | | 0.110 | 1410 | |
| O. Turkidita | 2017 | NTU | 2/2 | < 0.3 NTU | Cail Dunoff | | 10 | 20/ | |
| 9 Turbidity SECONDARY STANDARDS - Aesthetic S | | NTO | n/a | <u><</u> 0.3 N10 | Soil Runoff | CUDEAC | E WATER | | DWATER |
| | | 1 (Ct-t- D | | | | | E WATER | | DWATER |
| Established by State Water Resources C | | | · · · · · · · · · · · · · · · · · · · | | | RANGE | WTD. AVG. | RANGE | WTD. AVG |
| Color | 2015 - 2017 | Units | n/a | 15 | Naturally-occurring organic materials. | ND | ND | ND - 5 | 1.11 |
| Manganese | 2016 - 2017 | PPB | n/a | 50 | Leaching from natural deposits | ND | ND | ND - 31 | ND |
| Odor-Threshold | 2015 - 2017 | Units | n/a | 3 | Naturally-occurring organic materials. | ND | ND | 1.5 - 1.8 | 1.67 |
| Turbidity | 2015 - 2017 | Units | n/a | 5 | Soil runoff. | ND - 0.115 | ND | 0.48 - 0.65 | 0.6 |
| Total Dissolved Solids | 2015 - 2017 | PPM | n/a | 1000 | Runoff/leaching from natural deposits. | 66 - 110 | 88 | 130 - 150 | 139 |
| Specific Conductance (E.C.) | 2015 - 2017 | umhos/cm | n/a | 1600 | Substances that form ions when in water; seawater influence. | 100 - 150 | 125 | 150 - 200 | 176 |
| Chloride | 2015 - 2017 | PPM | n/a | 500 | Runoff/leaching from natural deposits; seawater influence. | 2.1 - 5.4 | 3.8 | 2.9 - 8.1 | 5.4 |
| Sulfate | 2015 - 2017 | PPM | n/a | 500 | Runoff/ leaching from natural deposits; industrial wastes. | 2.4 - 5.1 | 3.8 | ND - 1.1 | ND |
| OTHER CONSTITUENTS ANALYZED | | | | | | | | | |
| pH | 2015 - 2017 | Units | n/a | MO | | 7.7 - 8.1 | 8.0 | 7.9 - 8 | 7.9 |
| Total Hardness (as CaCO3) | 2015 - 2017 | PPM | n/a | MO | Due to chemicals naturally occuring in the soil below the earth's surface. | 32 - 59 | 46 | 53 - 54 | 53.4 |
| 10 Total Hardness (as CaCO3) | 2015 - 2017 | Grains | n/a | MO | Due to chemicals naturally occuring in the soil below the earth's surface. | 1.9 - 3.4 | 2.7 | 3.1 - 3.2 | 3.1 |
| Total Alkalinity (as CaCO3) | 2015 - 2017 | PPM | n/a | MO | Due to chemicals naturally occurring in the soil below the earth's surface. | 37 - 62 | 48 | 66 - 81 | 72.7 |
| Bicarbonate (as HCO3) | 2015 - 2017 | PPM | n/a | MO | Due to chemicals naturally occurring in the soil below the earth's surface. | 45 - 76 | 58 | 81 - 98 | 88.6 |
| Sodium | 2015 - 2017 | PPM | n/a n/a | MO MO | Due to chemicals naturally occurring in the soil below the earth's surface. Due to chemicals naturally occurring in the soil below the earth's surface. | 45 - 76 | 58 7 | 13 - 19 | 15.7 |
| | | | | - | Due to chemicals naturally occurring in the soil below the earth's surface. Due to chemicals naturally occurring in the soil below the earth's surface. | | 9 | | |
| Calcium | 2015 - 2017 | PPM | n/a | MO | , , | 6.9 - 12 | _ | 11 - 12 | 11 |
| Magnesium | 2015 - 2017 | PPM | n/a | MO | Due to chemicals naturally occuring in the soil below the earth's surface. | 3.6 - 7 | 5.0 | 5.8 - 5.9 | 5.9 |
| LEAD & COPPER (See Note 11a & 11b) | CAME | | BUIG | ACTION | | AULIMANES OF | 00TH 0/ 1 TH | | IDER |
| | SAMPLE | | PHG or | ACTION | | NUMBER OF | 90TH % LEVEL | | IBER |
| CONTAMINANT | DATE | UNITS | (MCLG) | LEVEL | MAJOR SOURCES IN DRINKING WATER | SAMPLES | DETECTED | EXCEE | DING AL |
| | | | | | Internal corrosion of household water plumbing systems; discharges from | | | | |
| | 2017 | PPB | (0.2) | 15 | industrial manufactures; erosion of natural deposits. | 62 | ND | | 0 |
| Lead | 2017 | | | | | | | | |
| Lead | 2017 | | | | Internal corrosion of household plumbing systems; erosion of natural deposits | s; | | | |
| Lead Copper | 2017 | PPM | (0.3) | 1.3 | Internal corrosion of household plumbing systems; erosion of natural deposits leaching from wood preservatives. | s; 62 | 0.12 | | 0 |
| Copper | 2017 | | | | leaching from wood preservatives. | | 0.12 | | 0 |
| | 2017 | | | | leaching from wood preservatives. | 62 | 0.12 E WATER | | 0 DWATER |
| Copper UNREGULATED CONTAMINANT MONIT | 2017 ORING RULE | | 3) - Establish | ed by USEPA (See No | leaching from wood preservatives. te 12) | 62 | | | DWATER |
| Copper UNREGULATED CONTAMINANT MONIT CONTAMINANT | 2017 ORING RULE SAMPLE DATE | (UCMR | 3) - Establishe Notification | ed by USEPA (See No | leaching from wood preservatives. te 12) DISTRIBUTION SYSTEM EFFECTS LANGUAGE RANGE AVERAGE | SURFAC RANGE | E WATER AVERAGE | GROUNI | DWATER AVERAGE |
| Copper UNREGULATED CONTAMINANT MONIT CONTAMINANT Molybdenum | 2017 ORING RULE SAMPLE DATE 2013 - 2014 | UNITS PPB | 3) - Establish Notification Level | ed by USEPA (See No | te 12) DISTRIBUTION SYSTEM RANGE AVERAGE ND - 1.1 0.51 | SURFAC RANGE ND | E WATER AVERAGE ND | GROUNI RANGE ND - 2.4 | DWATER AVERAGE 0.59 |
| Copper UNREGULATED CONTAMINANT MONIT CONTAMINANT | 2017 ORING RULE SAMPLE DATE | UNITS | 3) - Establish Notification Level | ed by USEPA (See No | Leaching from wood preservatives. | SURFAC RANGE | E WATER AVERAGE | GROUNI RANGE | DWATER AVERAGE |
| Copper UNREGULATED CONTAMINANT MONIT CONTAMINANT Molybdenum | 2017 ORING RULE SAMPLE DATE 2013 - 2014 | UNITS PPB | 3) - Establish Notification Level | ed by USEPA (See No HEALTH | leaching from wood preservatives. Ite 12) DISTRIBUTION SYSTEM RANGE AVERAGE ND - 1.1 0.51 120 - 140 131 Injurant women who drink water containing | SURFAC RANGE ND | E WATER AVERAGE ND | GROUNI RANGE ND - 2.4 | DWATER AVERAGE 0.59 |
| Copper UNREGULATED CONTAMINANT MONIT CONTAMINANT Molybdenum | 2017 ORING RULE SAMPLE DATE 2013 - 2014 | UNITS PPB | 3) - Establish Notification Level | HEALTH The babies of some prequanadium in excess | Leaching from wood preservatives. | SURFAC RANGE ND | E WATER AVERAGE ND | GROUNI RANGE ND - 2.4 | DWATER AVERAGE 0.59 |
| Copper UNREGULATED CONTAMINANT MONIT CONTAMINANT Molybdenum | 2017 ORING RULE SAMPLE DATE 2013 - 2014 | UNITS PPB | 3) - Establish Notification Level | HEALTH The babies of some prequandium in excess increased risk of deve | leaching from wood preservatives. Ite 12) DISTRIBUTION SYSTEM RANGE AVERAGE ND - 1.1 0.51 120 - 140 131 Ignant women who drink water containing of the notification level may have an | SURFAC RANGE ND | E WATER AVERAGE ND | GROUNI RANGE ND - 2.4 | DWATER AVERAGE 0.59 |

- 1. The state allows SCWA to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently.
- 2. Surface Water is from SCWA's Vineyard Surface Water Treatment Plant (VSWTP) which provided 58% of the water distributed to customers in the Mather, Sunrise, Anatolia area in 2017. SCWA purchased very little water from Golden State (<0.01%) which was for testing and discharged to waste. For more information regarding Golden State water quality data, please call (800) 999-4033 or look online (www.gxwater.com/sca_homepages/rancho_cordova.html).
- There is currently no MCL for hexavalent chromium. The previous MCL of 10 PPB was withdrawn on September 11, 2017. Chromium-6 is one of the forms of chromium making up total chromium which has a California MCL of 50 PPB. For more information about Chromium-6, please visit the StateWater Resources Control Board's website: www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Chromium6.shtml
- 4. Total Trihalomethanes = sum of results for Chloroform, Bromoform, Dibromochloromethane, & Bromodichloromethane,
- Haloacetic Acids = sum of results for Bromochloroacetic acid, Dibromoacetic acid, Dichloroacetic acid, Monochloroacetic acid, & Trichloroacetic acid
- 6. The Mather-Sunrise-Anatolia water system's facilities are all fluoridated to reduce tooth decay in children. Studies show that water fluoridation reduces tooth decay by 20 to 40 percent. The California State Water Resources Control Board advised SCWA to implement the CDC's recommended optimal fluoride content of 0.7 mg/L and control range of 0.6 mg/L - 1.2 mg/L. Information about fluoridation, oral health and current issues is available from $http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.shtml.\\$
- Only surface water sources must monitor for Disinfection By-Product precursors. Treatment Technique is not required if the raw or treated water TOC is <2 mg/L.
- On Systems that collect less than 40 samples per month, the Total Coliform Bacteria MCL is one (1) Total Coliform positive sample, per the Total Coliform Rule (TCR). On 10/11/17, a positive TC sample triggered collection of samples for E. coli at the source (i.e., groundwater wells) per the federal Ground Water Rule (GWR). All samples taken per the GWR returned negative (absent) for E. coli.
- Turbidity is a measure of the cloudiness of the water. 0.115 NTU is the highest individual measurement in 2017. 100% is the lowest percentage of monthly samples which were in compliance below the 0.3 NTU range. SCWA monitors turbiditybecause it is a good indicator of the effectiveness of its filtration systems. Only surface water sources must comply with PDWS for turbidity
- 10. Hardness units are PPM. Most commercial companies use "grain" units. Conversion: 17.1 PPM = 1 grain.
- 11a. The levels for Lead & Copper concentrations were obtained from the 90th percentile of 62 tap water samples taken throughout the Mather-Sunrise-Anatolia system. The MCLs for lead and copper are set at "Action Levels." None of the samples in Mather-Sunise-Anatolia exceeded the Action Levels for Lead and Copper. Please refer to the educational information on Lead in drinking water.
- 11b. Effective January 18, 2017, The State Water Resources Control Board requires the Sacramento County Water Agency (SCWA) to provide one-time assistance with lead sampling to call public, private and/or charter schools that submit a written request to SCWA and are served water by SCWA. Two (2) schools served by the Mather-Sunrise-Anatolia water system requested lead sampling at their campuses in 2017.
- 12. Unregulated Contaminants Monitoring Rule (UCMR 3 / 2013 2015 Monitoring) with notification Levels help to determine where certain contaminants occur and whether they need to be regulated.

In 2017, the Mather / Sunrise / Anatolia system received approximately 58% of its water from SCWA's Vineyard Surface Water Treatment Plant. For more detailed information regardeing SCWA water quality, call Aaron Wyley @ (916) 875-5815.

State Mandated Information for Lead:

Lead:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Sacramento County Water Agency is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/lead.

Cryptosporidium:

Cryptosporidium is a microbial pathogen found in surface water (e.g., rivers, lakes and streams) throughout the United States. SCWA's raw surface water source is the Sacramento River. Our monitoring of the source water indicates the presence of these organisms. From 2005 to 2007, SCWA took monthly Cryptosporidium samples. Of the 24 samples taken, only four detected the pathogen in the raw water. The results ranged from non-detect (ND) to 0.2 Occycsts/ 10 liters. The average analysis result was 0.2 Occycsts/ 10Liters. SCWA's surface water is highly treated with a thorough disinfection and filtration process to remove Cryptosporidium before distribution to the customer; however, the most commonly used filtration methods cannot guarantee 100 percent removal. Ingestion of Cryptosporidium may cause cryptosporidiosis, and abdominal infection, the symptoms of which include nausea, cramps, diarrhea, and associated headaches. We encourage immune-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection.