SACRAMENTO COUNTY WATER AGENCY

2021 WATER QUALITY REPORT - ARDEN PARK VISTA, NORTHGATE & SOUTHWEST TRACT

DETECTED PRIMARY STANDARDS - Mandatory Health-Related Standards Established by the State Water Resources Control Board (State Board) PHG or ARDEN PARK VISTA NORTHGATE SWT (SEE #2) SAMPLE DATE: WEIGHTED WEIGHTED (MCLG) or RANGE WEIGHTED RANGE RANGE CONSTITUENT (See Note #1) [MRDLG] [MRDL] MAJOR SOURCES IN DRINKING WATER (LO-HI) **AVERAGE** (LO-HI) AVERAGE (LO-HI) AVERAGE INORGANIC CONTAMINANTS 2017 - 2021 Erosion of natural deposits; residue from some surface water treatment processes ND - 0.09 ND ND ND ND 2017 - 2021 0.004 Erosion of natural deposits; runoff from orchards; glass and electronics production wastes 3.7 - 5.5 2017 - 2021 Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits. ND - 0 11 ND - 0 17 ND - 0.2 PPM 0.13 ND Discharge from steel and pulp mills and chrome plating; erosion of natural deposits. Chromium (Total Cr) 2017 - 2021 PPB (100) 50 ND - 11 ND ND on of natural deposits; water additive that promotes strong teeth; discharge from fertiliz and aluminum factories. 2019 - 2021 Fluoride (Natural Source) unoff and leaching from fertilizer use: leaching from septic tanks and sewage; erosion of natu ND - 5.6 0.58 - 6. 4.4 REGULATED ORGANIC CHEMICALS 2016-2021 arge from factories, dry cleaners and auto shops (metal degr ND - 1.8 Discharge from metal degreasing sites and other factor ND ND ND ND - 0.9 ND 2016-202 RADIOACTIVE CONTAMINANTS 2014 - 2017 pCi/L Erosion of natural deposits ND - 3.6 ND - 3 ND ND - 9.5 4.3 ND ND - 7. DISTRIBUTION SYSTEM nking water disinfectant added for treatn [4.0] 0.31 - 1.62 1.09 Byproduct of drinking water disinfection 4 TTHMs [Total Trihalomethanes] 2020 - 2021 PPB n/a 80 ND - 0.5 0.1 ND ND 54 54 5 HAA5 [Sum of 5 Haloacetic Acids Byproduct of drinking water disinfection. Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilize 6 Fluoride (Treatment Related- Distribution PPM and aluminum factories 2021 0.64 - 0.87 0.73 NA ND - 0.9 0.7 MICROBIOLOGICAL CONTAMINANTS LEVEL FOUND LEVEL FOUND Naturally present in the envirionme 7 Total Coliform Bacte

NOTES:

- The State Water Resources Control Board Division of Drinking Water (SWRCB DDW) allows Sacramento County Water Agency (SCWA) to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our
- Southwest Tract (SWT) receives its water from Fruitridge Vista Water Company which changed its ownership to California American Water Company in March 2020. For questions regarding water quality on Southwest Tract, please call California American Customer Service at 1-(888)
- The SWRCB DDW allows the measurement of gross alpha radiation as a surrogate for Uranium.
- Total Trihalomethanes are the sum of Four Regulated TTHMs, i.e., Chloroform, Bromodichloromethane, Dibromochloromethane, and Bromoform.
- Haloacetic Acids are the Sum of Five Regulated HAA5s, i.e., Monochloroacetic Acid, Monobromoacetic Acid, Dichloroacetic Acid, Dibromoacetic Acid, and Trichloroacetic Acid
- The Arden Park Vista (APV) water system's facilities are fluoridated to reduce tooth decay in children. Studies show that water fluoridation reduces tooth decay by 20 to 40 percent. The SWRCB DDW advised SCWA to implement the CDC's recommended optimal fluorida 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://waterboards.ca.gov/drinking_water/Fluoridation.html .
- On Systems that collect less than 40 samples per month, the Total Coliform Bacteria MCL is no more than one (1) monthly sample return total coliform positive, per the Total Coliform Rule (TCR). A positive TC sample triggers collection of samples for E. coli at the source (i.e., groundwate wells) per the federal Ground Water Rule (GWR). In 2021, all samples taken per the GWR returned negative (absent) for E. coli.

SECONDARY STANDARDS - Aesthetic Standards Established by the State Water Resources Control Board (State Board) PHG or ARDEN PARK VISTA NORTHGATE (MCLG) or MCL or RANGE WEIGHTED **RANGE** WEIGHTED **RANGE** WEIGHTED CONSTITUENT UNITS [MRDL] (LO-HI) (LO-HI) SAMPLE DATE: [MRDLG] MAJOR SOURCES IN DRINKING WATER **AVERAGE AVERAGE** (LO-HI) AVERAGE Colo 2014 - 2021 UNITS 15 Naturally-occurring organic materials ND - 5 ND ND ND ND n/a nternal corrosion of household plumbing systems; erosion of natural deposits; leaching from 2014 - 2021 PPM ND - 0.29 ND ND n/a 8 Iron 2014 - 2021 300 Leaching from natural deposits; industrial wastes ND - 920 ND - 100 ND - 910 PPB ND ND ND Manganese 2014 - 2021 PPB n/a 50 Leaching from natural deposits. ND - 43 ND ND ND ND - 45 ND Naturally-occurring organic materials UNITS Odor-Threshold 2014 - 2021 n/a ND - 1.3 ND ND ND ND - 1.8 ND Soil runoff. Turbidity 2014 - 2021 UNITS n/a ND - 2.7 ND - 0.4 Total Dissolved Solids 2014 - 2021 PPM 1000 Runoff/leaching from natural deposits 110 - 330 180 - 450 81 - 500 Specific Conductance (E.C.) Substances that form ions when in water; seawater influence 2014 - 2021 n/a 1600 96 - 520 321 280 - 730 100 - 740 404 Runoff/leaching from natural deposits; seawater influence n/a PPM Runoff/leaching from natural deposits; industrial wastes. 14.3 OTHER CONSTITUENTS ANALYZED 2014 - 2021 UNITS n/a MO 7.2 - 8 7.8 7.9 - 8 8.0 7.4 - 8.7 7.9 Total Hardness (as CaCO3) PPM MO Due to chemicals naturally occuring in the soil below the earth's surface 10 Total Hardness (as CaCO3) 2014 - 2021 **GRAINS** n/a MO Due to chemicals naturally occuring in the soil below the earth's surface 2.5 - 12.9 4 - 18 2 - 19.3 10 8.3 7.5 Total Alkalinity (as CaCO3) PPM Due to chemicals naturally occuring in the soil below the earth's surface. 2014 - 2021 MO 90 - 250 n/a 44 - 180 118 128 27 - 280 138 Due to chemicals naturally occuring in the soil below the earth's surface PPM n/a 2014 - 2021 Due to chemicals naturally occuring in the soil below the earth's surface. 4.2 - 16 5.9 - 23. PPM МО 10.9 24 - 32 15.7 2014 - 2021 PPM MO Due to chemicals naturally occuring in the soil below the earth's surface 7.3 - 45 29.6 14 - 58 10 - 78 Due to chemicals naturally occuring in the soil below the earth's surface LEAD & COPPER (See Note 11) SAMPLE PHG or ACTION NUMBER OF 90TH % LEVEL NUMBER CONTAMINANT DATE UNITS (MCLG) LEVEL MAJOR SOURCES IN DRINKING WATER SAMPLES DETECTED **EXCEEDING AL** (0.2)2019 PPM (0.3)1.3 Internal corrosion of household water plumbing systems; discharges from industrial (0.2)2019 ND on of household plumbing systems; erosion of natural deposits; leaching from PPM (0.3) 1.3 2019 ND PPM SAMPLE PHG or ACTION NUMBER OF RANGE NUMBER LEVEL UNITS DETECTED **EXCEEDING AL** LEAD Sampling in schools DATE (MCLG) MAJOR SOURCES IN DRINKING WATER **SCHOOLS** ead (San Juan Unified School District) PPR UNREGULATED CONTAMINANT MONITORING RULE (UC ablished by USEPA (See 12) MR 4) - Est SAMPLE MCL Arden Park Vista Northgate Southwest Tract UNITS CONTAMINANT WTD. AVG. DATE (PHG) Level MAJOR SOURCES IN DRINKING WATER RANGE WTD. AVG RANGE WTD. AVG. RANGE HAA5 2019 - 2021 PPB 60 Byproduct of drinking water disinfection ND ND ND - 30 20.8 ND ND Byproduct of drinking water disinfection. HAA6B PPB ND - 5.6 2019 - 2020 n/a n/a NR NR NR NR 2.9

NOTES:

On March 24, 2021, an iron monitoring sample taken at W-05 returned 920 PPB, which exceeds the secondary standard MCL of 300 PPB. A confirmation sample was taken on April 6 and returned Non-Detect. The weighted average for iron in the Arden Park Vista system is Non-Detect.

Byproduct of drinking water disinfection

- The Iron MCL was set to protect against unpleasant aesthetic effects (e.g., color, taste and odor) which may stain household fixtures (e.g., tubs and sinks).

 Hardness units are PPM. General guidelines for classification of water hardness are: 0 60 PPM as **soft**; 61 120 PPM as **moderately hard**; 121 180 PPM as **hard**; and greater than 180 PPM as **very hard**
- 10. Most commercial companies use "grain" units. Conversion: 17.1 PPM = 1 grain.
- 11. The levels for Lead & Copper concentrations were obtained from the 90th percentile sampling of thirty-five (35) homes at the tap for Arden Park Vista (APV), eighteen (18) for Northgate (NOR) & five (5) for Southwest Tract (SWT). The MCLs for lead and copper are set at "Action Levels" (AL). None of the samples taken in APV, NOR or SWT exceeded the Action Level for Copper or Lead. Please refer to the educational information on Lead in drinking water.
- Unregulated Contaminants Monitoring Rule (UCMR 4 / 2018 2020 Monitoring) with notification levels help to determine where certain contaminants occur and whether they need to be regulated. The APV and NOR water systems were not required to sample for the UCMR4. For more ation on the levels of unregulated contaminants found in SWT's system, please call California American Customer Service at 1-(888) 237-1333.

PER- & POLYFLUOROALKYL SUBSTANCES (PFAS) - See # 13

ne State Water Resources Control Board Division of Drinking Water (SWRCB DDW) established new drinking water guidelines for water agencies to follow in detecting and reporting the presence of perfluorooctanoic acid (PFOA) and erfluorooctanesulfonic acid (PFOS) – two members of a large family of chemicals known as per- and polyfluoroalkyl substances (PFAS). Until PFOA and PFOS were phased out in the 2000s due to health concerns, these chemicals were widely sed in grease and stain resistant coatings for consumer products and firefighting foams. Drinking water containing PFOA and PFOS has become an increasing concern due to the persistence of these chemicals in the environment and their lency to accumulate in groundwater. Long-term exposure to PFOA and PFOS over certain levels is associated with adverse health effects that include cancer and developmental harm. SWRCB DDW has identified analytical methods capable ecting the following eighteen (18) perfluorinated compounds in drinking water:

PERFLUOROBUTANE SUI FONIC ACID (PERS) PERFLUOROHEPTANOIC ACID (PFHpA) PERFLUOROHEXANE SULFONIC ACID (PFHxS) PERFLUORONONANOIC ACID (PFNA) PERFLUOROOCTYL SULFONIC ACID (PFOS) PERFLUDROCCTANOIC ACID (PEOA)

N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (NEtFOSAA) N-METHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (NMeFOSAA) PERFLUORODECANOIC ACID (PFDA) PERFLUORODODECANOIC ACID (PFDoA) PERFLUOROHEXANOIC ACID (PFHxA)

PERFLUOROTETRADECANOIC ACID (PET

PERFLUOROUNDECANOIC ACID (PFUnA) HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA) 9-CHLOROHEXADECAFLUORO-3-OXANONE-1 SULFONIC ACID (9CI-PF3ONS) 11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CI-PF3OUdS) 4 8-DIOXA-3H-PERFILIORONONANOIC ACID (ADONA)

PERFLUOROTRIDECANOIC ACID (PETrDA)

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	SAMPLE		Notification	Response		Arden Park Vista		Northgate		Southwest Tract	
CONTAMINANT	DATE	UNITS	Level (#14)	Level (#15)	HEALTH EFFECTS LANGUAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE
					Perfluorooctanoic acid exposures resulted in increased liver weight and cancer in laboratory						
Perfluorooctanoic Acid [PFOA]	2021	PPT	5.1	10	animals.	ND	ND	ND - 6.6	5.2	ND - 5.2	ND
					Perfluorooctanesulfonic acid exposures resulted in immune suppression and cancer in laboratory						
Perfluorooctanesulfonic Acid [PEOS]	2021	PPT	6.5	40	animals.	ND	ND	ND	ND	ND	ND

NOTES:

- Starting in the 2nd Quarter of 2019, SCWA (per SWRCB DDW direction) began PFAS monitoring at numerous wells in the APV & NOR water systems. The results for PFAS monitoring in the APV system returned Non-Detect and SCWA concentrated testing where detectable amounts of PFAS were found in groundwater wells in NOR. The results listed pertain to monitoring four (4) wells in the NOR water system through December 31, 2021. The averages (listed as 5.2 PPT for PFOA & ND for PFOS) represent the highest running annual average at one of the well locations (LRAA), not an average for all wells in the system. For more information on PFAS, PFOA and PFOS, please visit the SWRCB DDW's resource page: https://www.waterboards.ca.gov/drinking_water/PFOA_PFOS.html
- 14. The guidelines adopted by the SWRCB DDW set Notification Levels (NL) of 5.1 parts per trillion (PPT) for PFOA and 6.5 PPT for PFOS. If the NL is exceeded, the water agency (SCWA) is required to report the results to the Sacramento County Board of Supervisors and to the SWRCB DDW. The water agency is also urged to report this information to the customer.
- 15. The SWRCB DDW established a Response Level (RL) of 10 PPT for PFOA and 40 PPT for PFOA and 40 PPT for PFOA. If the RL is exceeded in drinking water provided to consumers, the SWRCB DDW recommends that the water agency consider taking the water source out of service, provide treatment if that option is available, or provide

PARTS PER MILLION (PPM) OR MILLIGRAMS PER LITER (mg/L)

1 picogram per liter (pg/L)

Parts per million (PPM) and milligrams per liter (mg/L) are units of measurement to determine the amount of a chemical in water. If we thought of each "part" or "milligram" as a second in a period of time, the following time frames would be an appropriate or accurate comparison:

1 milligram per liter (mg/L) or 1 part per million (PPM) 1 microgram per liter (µg/L) 1 part per billion (PPB) or 1 nanogram per liter (ng/L)

l part per trillion (PPT) 1 part per quadrillion (PPQ) =1 second in 11.5 days =1 second in nearly 32 years

=1 second in nearly 32,000 years =1 second in nearly 32,000,000 years

100% of the water for the Arden Park Vista and Northgate water systems comes from groundwater wells. Southwest Tract water is supplied by Cal-Am Water. For more detailed information regarding SCWA water quality, please call Aaron Wyley @ (916) 875-5815.

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LEGEND:

AL...Regulatory Action Leve MFL...Million Fibers Per Liter

MPN Most Probable Number

n/a...Not Applicable

ND...Non-Detected

NL...Notification Level

NR...Not Required NTU...Nephelometric Turbidity Units PDWS...Primary Drinking Water Standard

pCi/L...Pico Curies per Liter

PPB...Parts per Billion (ug/l) PPM...Parts per Million (mg/l) PPT...Parts per Trillion (ng/l)

RL....Response Level

TT...Treatment Technique WTP...Water Treatment Plant

MO...Monitored Only

DEFINITIONS The annual average of all tests for a particular substance.

Detection Limit for Reporting: The limit at or above which a contaminant is detected

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency,

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants. Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use

of disinfectants to control microbial contaminants

Primary Drinking Water Standards (PDWS): MCLs, MRDLs and treatment techniques (TTs) for contaminants that affect health, along with their monitoring and reporting requirements.

Public Health Goal (PHG). The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Range (Lo - Hi): The range between the lowest and highest values of a specific substance measured throughout the course of the year.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Weighted Average (WTD AVG): An average of water quality samples in which each sample is assigned a weight. Each sample's contribution (or weight) is based on the amount of water the corresponding water source produces

for the whole system. Instead of each of the sample results contributing equally to the final average, some of the results contribute more than others.

Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity.

While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The U.S. Environmental Protection Agency continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems

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.

To help protect the quality of existing and future groundwater supplies, the Drinking Water Source Assessment and Protection (DWSAP) program calls for examining the vulnerability of drinking water sources to potential contamination. The Water Agency completed its latest comprehensive report in May 2019. The Water Agency's report identified the following potential contamination results:

Arden Park Vista & Northgate:

Most vulnerable to commercial types of activities such as the dry cleaning business, gas stations, a sewer collection system and a leaking underground storage tank, electronic manufacturers and photo processors.

Central & South Service Area (CSA & SSA)

Most vulnerabe to activities including automobile-gas stations; boat services/ repair/ refinishing; chemical/ petroleum pipelines; dry cleaners; fleet/ truck/ bus terminal; grazing; historic waste dumps/ landfills; leaking underground storage tanks; other animal operations; pesticides/ fertilizer/ petroleum storage transfer areas; plastics/ synthetics producers; research laboratory; wells-agricultural/ irrigation types; wells-oil, gas, and geothermal types; wood preserving/ treating and sewer collection system

Hood, East Walnut Grove and Delta Estates:

Most vulnerable to irrigated crops and septic systems

North Service Area (NSA):