

2025  
**WATER  
QUALITY**  
ANNUAL REPORT

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Central Arizona Water Conservation District  
Water Transmission

# YOUR WATER

Central Arizona Project (CAP) reliably delivers Colorado River water from Lake Havasu, located on Arizona's western border, to central and southern Arizona. The total CAP system is 336 miles long, lifts water approximately 3,000 feet, and includes open canals, inverted siphon pipelines, tunnels, pumping plants, check structures, turnouts, and the Lake Pleasant storage reservoir.

The CAP system provides a means for nearly 1.5 million acre feet (MAF) of Arizona's Colorado River allotment (totaling 2.8 MAF) to be delivered to the most populous areas of the state and reduce the use of groundwater for municipalities, agriculture, and other activities.

Central Arizona Water Conservation District (CAWCD), with more than 60 long-term stakeholders, is Arizona's largest supplier of renewable water. Stakeholders are categorized in two distinct user groups: municipal and industrial (M&I), and Native American Tribes. They treat and use CAP's Colorado River water to operate businesses, water crops, and maintain households, all of which are critical to the quality of life in Arizona.

***“CAP delivers more than water - it delivers reliability, resilience, and public trust.”***



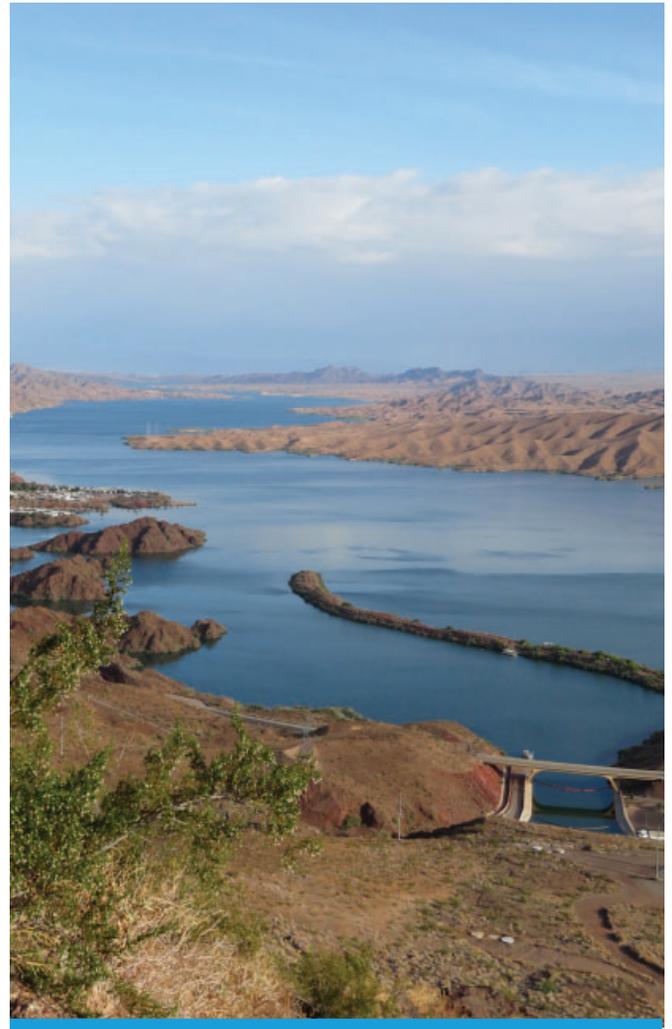
# CAP WATER SOURCES

CAWCD does not provide potable water directly to the public, but supplies raw, untreated Colorado River water to its various stakeholders. The primary CAP intakes are at the southern-most portion of Lake Havasu, at a depth of approximately 24 feet.

Lake Pleasant is CAP's 10,000 surface-acre storage reservoir and is located just north of Phoenix. The reservoir is strategically utilized based on demand, while taking advantage of the lowest power rates possible. In general, Colorado River water is pumped into Lake Pleasant from October to May, and water is drawn from the reservoir during summer months. Therefore, depending on the time of year, CAP stakeholders may receive water that solely originates from the Colorado River, or a blend of water from the river and Lake Pleasant.

Each of these sources presents its own unique challenges. The surface waters are exposed to various watershed-related events and activities, such as stormwater runoff, treated wastewater discharge, recreation, wildlife, algal blooms, and other factors that may affect water quality.

Although CAP's raw water is considered to be of high quality, stakeholders filter, disinfect, and apply other necessary treatments to the water before it is delivered through distribution systems for domestic use.



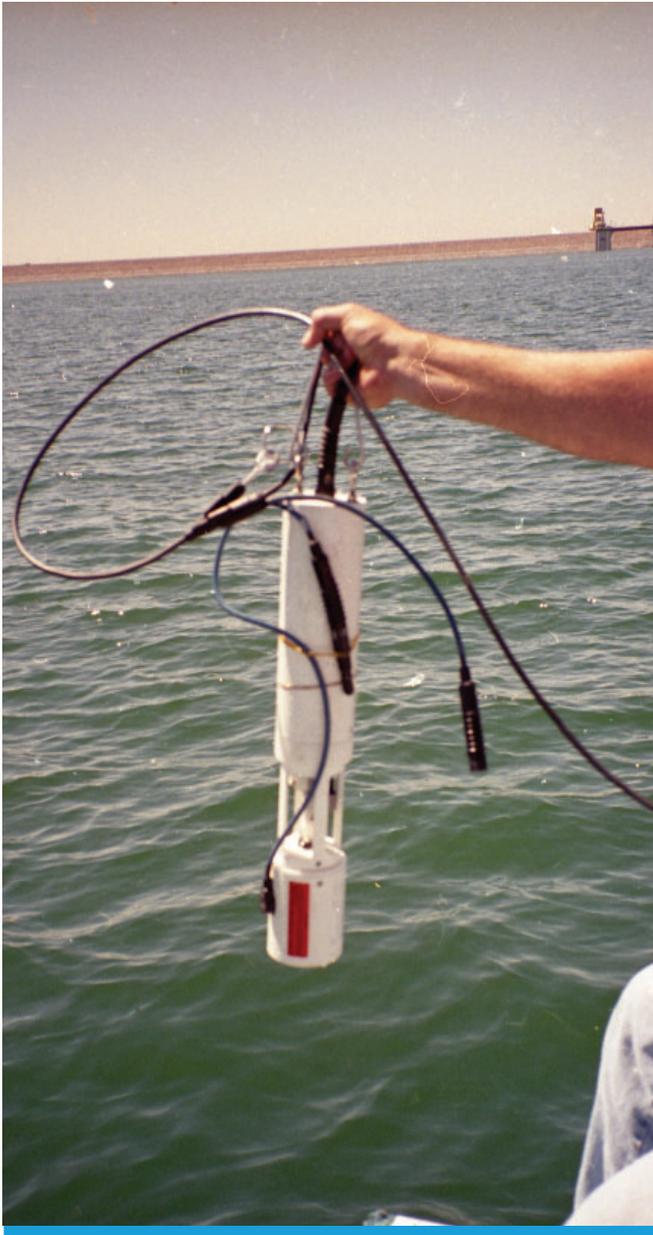
# CAP HISTORICAL WATER QUALITY

From 1985 to 1995, the United States Bureau of Reclamation (USBR) and CAWCD cooperated with the United States Geological Survey (USGS) to implement a water quality sampling program. USGS collected monthly and quarterly grab samples at three sites in the CAP system and tested more than 50 parameters. Historical CAP water quality data can be viewed by entering “CAP Canal” as the Site Name on the USGS Water Quality website:

[Historic Water Quality Data](#)

In 1996, CAWCD took over the water quality sampling program and customized it based on recommendations from stakeholders. Since that time, the program has continued to expand to include additional sites and parameters. CAWCD produces Annual Water Quality reports which summarize water quality measured in the canal throughout the calendar year. Recent reports are available on CAP’s AquaPortal website ([CAP AquaPortal - Annual Reports](#)).

Reports from 1996–2016 reports are available upon request.



# CAP BASELINE WATER QUALITY PROGRAM

## MISSION

In 2019, CAP's Water Quality Program re-focused its efforts to better meet the needs of its stakeholders, and in doing so, created a Mission Statement and goals that provide a direction for moving forward:

*The Water Quality Program (Program) provides information and recommendations to CAP Operations and Maintenance to help maintain the quality of CAP water; the Program supports the overall goal of its Municipal Stakeholders by providing a broad understanding of raw water quality conditions; the Program ensures that Non-Project sources comply with established standards; and the Program supports all other Stakeholder groups by providing valuable water quality information that helps to achieve their individual goals.*

The Program has implemented a monitoring approach that consists of both continuous (real-time) measurements and monthly/semi-annual grab samples. Sampled constituents align with the [Non-Project Water Quality Guidance Document](#), but also include additional constituents that may be of public interest.

A comprehensive database management system is utilized to store historical and current water quality data, and a user-friendly website known as AquaPortal has been created to make the data easily accessible to the public ([CAP AquaPortal](#)).

## CONTINUOUS MEASUREMENTS

CAWCD monitors basic water quality in near real-time at two locations along the canal; CAP Headquarters (HDQ; 7th Street) and at the Roosevelt Water Conservation District turnout (RWCD) in Mesa, AZ. In 2025, the RWCD sensor was part of a replacement project, so no data was available. At the HDQ station, a Hydrolab DS5X multiparameter meter was used to measure temperature, conductivity, pH, TDS, and dissolved oxygen. Meters are calibrated and maintained monthly to provide reasonably accurate data. Data is uploaded from each water quality meter every 15 minutes and displayed on [AquaPortal - Current Conditions](#).

*\*In late December 2025, both Hydrolab sondes were replaced with In Situ Troll 500 sondes.*

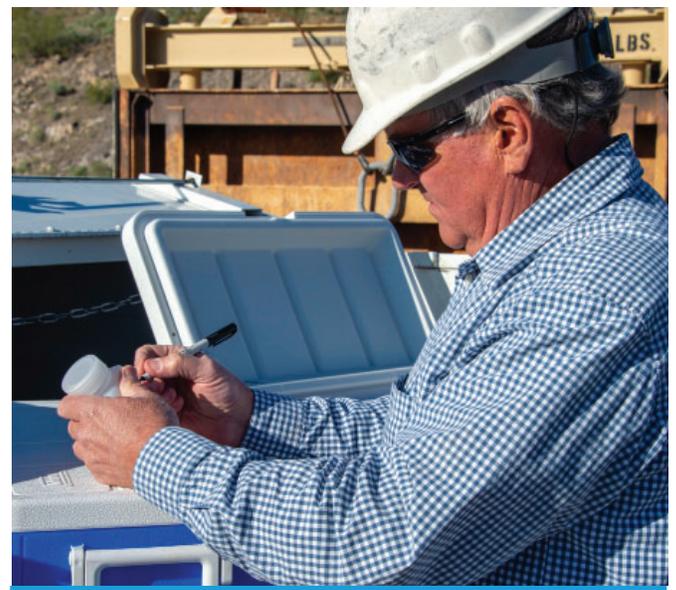
Real-time FTS turbidity sensors were operating at five permanent locations in the CAP through 2024. However, the vendor discontinued the manufacturing and support of this sensor, so data was relatively sporadic in 2025, depending on the timing for sensor maintenance. All locations are scheduled to be upgraded to new sensors in 2026 (see map on Page 6).

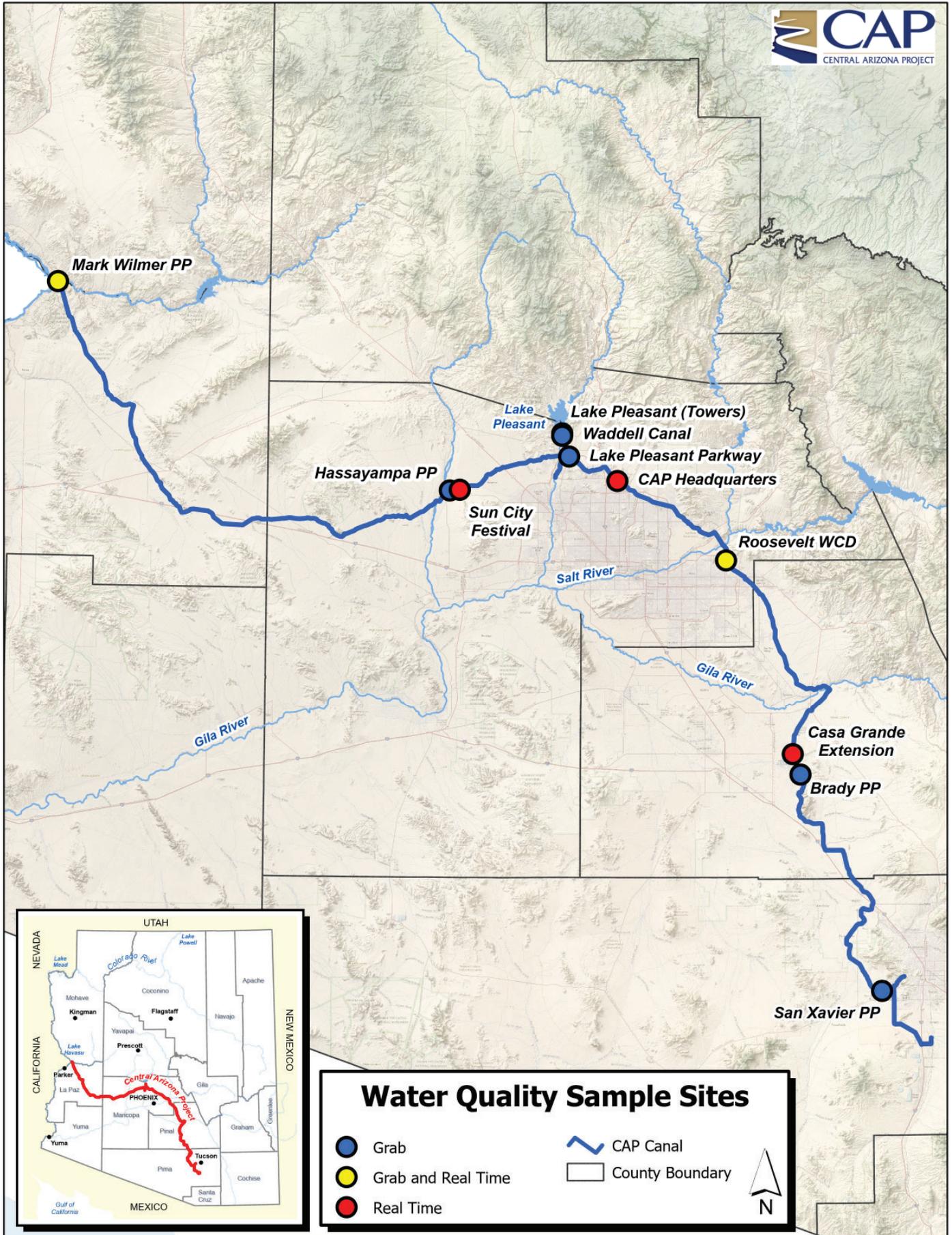
When operating, these sensors uploaded data every hour to [AquaPortal - Current Conditions](#).

## GRAB SAMPLES

Monthly grab samples are collected at eight canal locations (see map on page 6). Each monthly sample includes testing for 47 water quality "priority constituents" (as listed in Table A-1 of the Guidance Document), as well as 12 additional constituents. Additional monthly sampling is conducted within Lake Pleasant. Semi-annual samples are collected from four sites (see map on page 6). Semi-annual samples include the monthly constituents, 178 contaminants listed in Table A-2 of the Guidance Document, and approximately 85 additional contaminants.

CAWCD contracts with State of Arizona licensed laboratories to perform the water quality analyses. Verified results for priority constituents are posted on [AquaPortal - Data Set](#). Results for the remaining constituents, which are not commonly detected in the CAP system, are available upon request.





### Water Quality Sample Sites

|                                                                                                                                                                                                                    |                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li><span style="color: blue;">●</span> Grab</li> <li><span style="color: yellow;">●</span> Grab and Real Time</li> <li><span style="color: red;">●</span> Real Time</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: blue;">—</span> CAP Canal</li> <li><span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> County Boundary</li> </ul> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



# 2025 MONITORING RESULTS

Although the CAP system is not regulated as a Water of the United States, CAWCD tests for a wide range of constituents to inform stakeholders of the quality of water that they are receiving. As previously noted, the CAWCD baseline monitoring program aligns with the [Guidance Document](#) for Introducing Non-Project Water. The Guidance Document identifies 47 priority constituents with Introduction and Delivery standards (Table A-1) and 178 additional contaminants that should not be introduced (Table A-2).

Colorado River water is remarkably consistent and stable, and generally considered of good quality. Without exception, the average concentrations of constituents in water delivered by the CAP are below the applicable ADEQ numeric standards for a Domestic Water Source (18 A.A.C. 11), although isolated, short-duration spikes did occur.

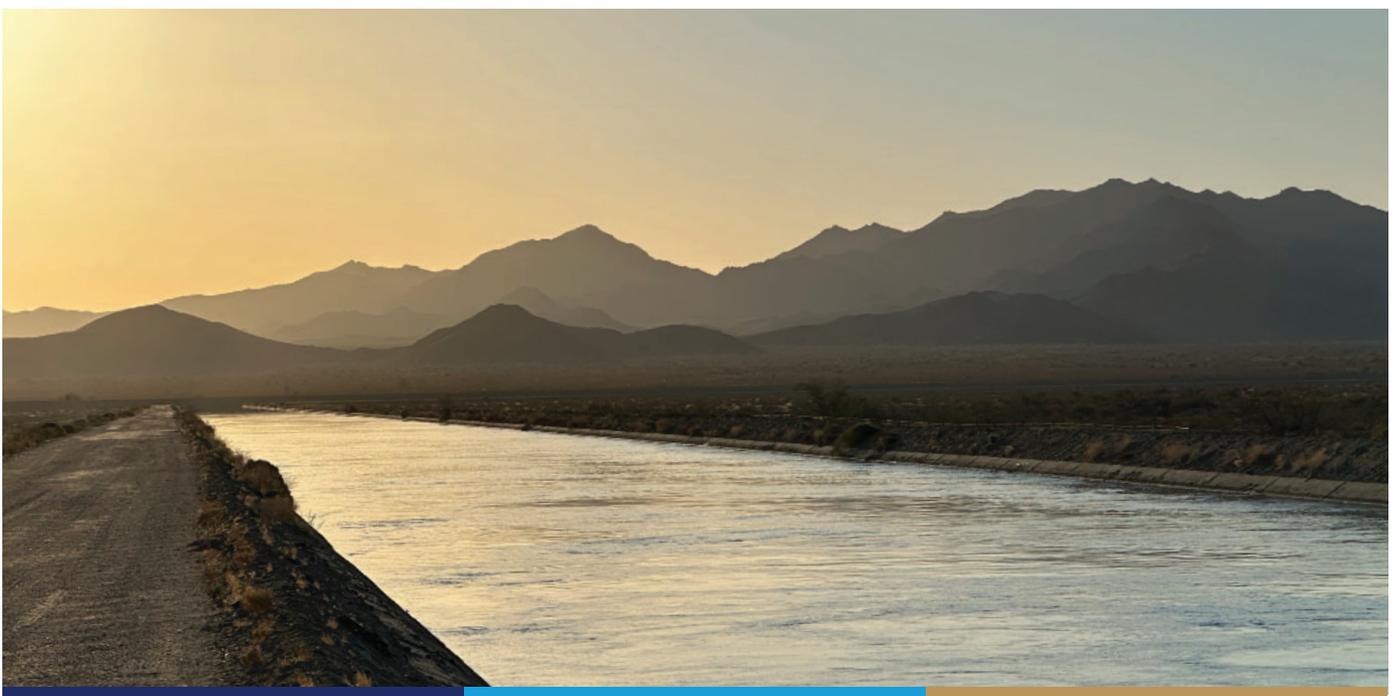
In 2025, only three constituents - Barium, Molybdenum, and Nitrate - had an annual average value more than 5% higher than the prior 5-year average (as measured at MWP; see table on Page 8). All other constituents, including other metals, remained within 5% of their recent historical averages, indicating that the increases were parameter-specific rather than a general

trend across metals or overall water quality. The simultaneous rise in Nitrate appears coincidental, while the increase in Barium and Molybdenum might suggest a specific source or localized process affecting these elements.

A complete table of priority constituent values measured monthly at each sample site is included in Appendix A.

Of the 178 constituents listed in Table A-2 of the Guidance Document, just four were detected in the CAP system in 2025. Those contaminants are listed in the table on Page 10, followed by a short description of the contaminant and its potential source.

The contracted laboratories also include nearly 85 additional contaminants and naturally occurring substances in semi-annual analyses. These substances are not included in the Guidance Document, but can be detected with the applied testing methods. In 2025, none of these additional contaminants/substances were detected in quarterly samples.



# SYSTEM-WIDE RANGES AND MWP AVERAGES

## SUMMARY OF PRIORITY CONSTITUENTS

| Constituent                       | Units | MRL <sup>1</sup> | 2025 System-Wide Range | 2025 MWP Average <sup>2</sup> | MWP 5-Yr Average (2020-2024) |
|-----------------------------------|-------|------------------|------------------------|-------------------------------|------------------------------|
| <b>Field Measurements</b>         |       |                  |                        |                               |                              |
| Dissolved Oxygen                  | mg/L  |                  | 1.74 - 12.5            | 9.08                          | 8.95                         |
| pH                                | Units |                  | 6.76 - 8.79            | 8.29                          | 8.11                         |
| Specific Conductance <sup>3</sup> | µS/cm |                  | 797 - 1133             | 983.75                        | 975.88                       |
| Temperature                       | °F    |                  | 48.3 - 89.7            | 70.13                         | 68.60                        |
| <b>Laboratory Results</b>         |       |                  |                        |                               |                              |
| Alkalinity                        | mg/L  | 2                | 95 - 140               | 130.00                        | 130.33                       |
| Aluminum (Dissolved)              | mg/L  | 20               | Non-Detect             | Non-Detect                    | Non-Detect                   |
| Aluminum (Total)                  | µg/L  | 20               | ND - 550               | 109.75                        | 107.67                       |
| Ammonia Nitrogen                  | mg/L  | 0.05             | ND - 0.57              | Non-Detect                    | Non-Detect                   |
| Antimony (Total)                  | µg/L  | 1                | Non-Detect             | Non-Detect                    | Non-Detect                   |
| Arsenic (Total)                   | µg/L  | 1                | 1.6 - 5.8              | 2.40                          | 2.52                         |
| Barium (Total)                    | µg/L  | 2                | 120 - 150              | 135.83                        | 129.31                       |
| Beryllium (Total)                 | µg/L  | 1                | ND - 1.4               | Non-Detect                    | Non-Detect                   |
| Boron (Total)                     | mg/L  | 0.2              | Non-Detect             | Non-Detect                    | Non-Detect                   |
| Bromide                           | µg/L  | 5                | 73 - 120               | 90.25                         | 90.80                        |
| Cadmium (Total)                   | µg/L  | 0.5              | Non-Detect             | Non-Detect                    | Non-Detect                   |
| Calcium (Total)                   | mg/L  | 1                | 58 - 85                | 73.17                         | 72.73                        |
| Chloride                          | mg/L  | 2.5              | 97 - 120               | 103.08                        | 98.73                        |
| Chromium (Total)                  | µg/L  | 1                | ND - 6.1               | Non-Detect                    | Non-Detect                   |
| Cobalt (Total)                    | µg/L  | 2                | Non-Detect             | Non-Detect                    | Non-Detect                   |
| Copper (Dissolved)                | µg/L  | 2                | ND - 230               | Non-Detect                    | Non-Detect                   |
| Fluoride                          | mg/L  | 0.05             | 0.31 - 0.44            | 0.34                          | 0.34                         |
| Gross Alpha                       | pCi/L | Varies           | 1.5 - 7.98             | 3.67                          | 3.47                         |
| Gross Beta                        | pCi/L | Varies           | 1.5 - 12.1             | 3.03                          | 3.40                         |
| Hexavalent Chromium               | µg/L  | 0.02             | ND - 0.05              | 0.02                          | 0.04                         |
| Iron (Dissolved)                  | mg/L  | 0.02             | ND - 0.08              | Non-Detect                    | Non-Detect                   |
| Lead (Total)                      | µg/L  | 0.5              | ND - 0.95              | Non-Detect                    | Non-Detect                   |
| Manganese (Total)                 | µg/L  | 2                | ND - 430               | 6.86                          | 6.87                         |

<sup>1</sup> Represents the highest MRL from the 3rd party laboratory (Eurofins) during the 5-year period

<sup>2</sup> Non-Detect values are calculated as half of the MRL; average values include the non-detect value

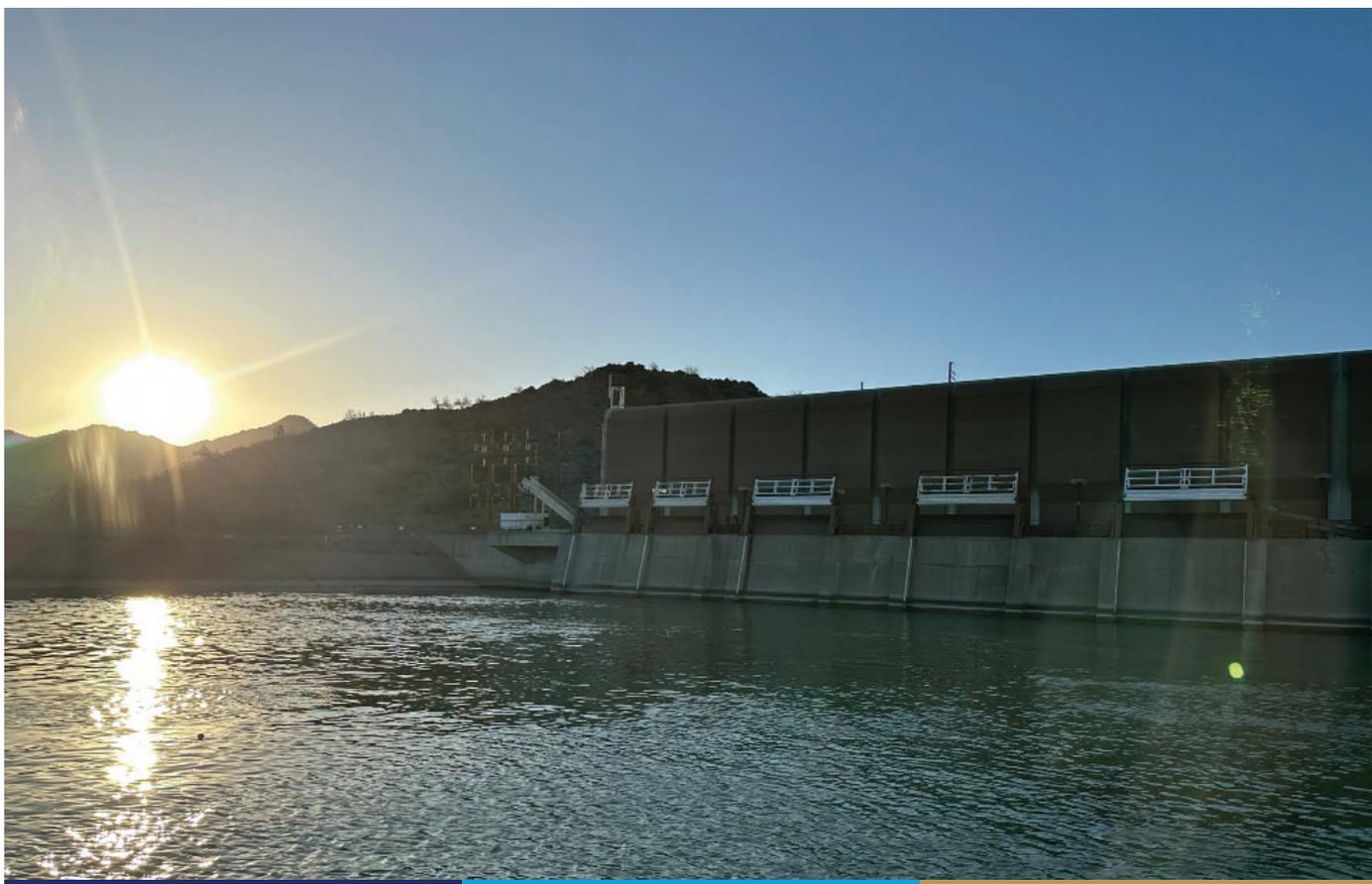
<sup>3</sup> Not included as part of the 08/21/2025 Water Quality Guidance Document

# RANGES AND AVERAGES (CONTINUED)

| Constituent                       | Units | MRL    | 2025 System-wide Range | 2025 MWP Average | MWP 5-Yr Average (2020-2024) |
|-----------------------------------|-------|--------|------------------------|------------------|------------------------------|
| <b>Laboratory Results (cont.)</b> |       |        |                        |                  |                              |
| Mercury                           | µg/L  | 0.2    | Non-Detect             | Non-Detect       | Non-Detect                   |
| Molybdenum (Total)                | µg/L  | 2      | 4.5 - 6.8              | 4.98             | 4.65                         |
| Nickel (Total)                    | µg/L  | 5      | Non-Detect             | Non-Detect       | Non-Detect                   |
| Nitrate                           | mg/L  | 0.25   | ND - 0.5               | 0.29             | 0.24                         |
| Nitrite                           | mg/L  | 0.25   | Non-Detect             | Non-Detect       | Non-Detect                   |
| Perchlorate                       | µg/L  | 4      | Non-Detect             | Non-Detect       | Non-Detect                   |
| Potassium (Total)                 | mg/L  | 1      | 4.7 - 6                | 4.97             | 5.08                         |
| Radium 226/228                    | pCi/L | Varies | ND - 1.0               | 1.00             | 1.00                         |
| Selenium (Total)                  | µg/L  | 5      | Non-Detect             | Non-Detect       | Non-Detect                   |
| Silver (Total)                    | µg/L  | 0.5    | Non-Detect             | Non-Detect       | Non-Detect                   |
| Sodium (Total)                    | mg/L  | 1      | 89 - 110               | 94.08            | 91.00                        |
| Strontium (Total)                 | mg/L  | 0.01   | ND - 1.2               | 1.08             | 1.07                         |
| Sulfate                           | mg/L  | 1.3    | 200 - 260              | 225.00           | 224.33                       |
| Thallium (Total)                  | µg/L  | 1      | Non-Detect             | Non-Detect       | Non-Detect                   |
| Total Dissolved Solids            | mg/L  | 20     | 580 - 710              | 629.17           | 620.67                       |
| Total Organic Carbon              | mg/L  | 0.3    | 2.9 - 5.2              | 3.08             | 3.07                         |
| Total Phosphorus as P             | mg/L  | 0.02   | ND - 0.04              | Non-Detect       | Non-Detect                   |
| Turbidity                         | NTU   | 0.1    | 0.2 - 17               | 2.54             | 2.54                         |
| Uranium                           | µg/L  | 1      | 3.9 - 5.2              | 4.25             | 4.11                         |
| Vanadium (Total)                  | µg/L  | 3      | ND - 4.8               | Non-Detect       | Non-Detect                   |
| Zinc (Total)                      | µg/L  | 20     | ND - 91                | Non-Detect       | Non-Detect                   |

# DETECTED CONTAMINANTS

| Constituent                     | Location      | Month         | Value | Units | MRL  | Source of Contamination                 |
|---------------------------------|---------------|---------------|-------|-------|------|-----------------------------------------|
| <b>2,4-D</b>                    |               |               |       |       |      | <b>Agricultural/Residential runoff</b>  |
|                                 | San Xavier    | May           | 0.12  | µg/L  | 0.1  |                                         |
|                                 | Santa Rosa    | Nov           | 0.14  | µg/L  | 0.1  |                                         |
|                                 | San Xavier    | Nov           | 4.5   | µg/L  | 0.1  |                                         |
| <b>Di(2-ethylhexyl) adipate</b> |               |               |       |       |      | <b>Food packaging/tubing</b>            |
|                                 | Lake Pleasant | Nov           | 0.67  | µg/L  | 0.59 |                                         |
| <b>E. coli (Present)</b>        |               |               |       |       |      | <b>Fecal transfer</b>                   |
|                                 | All Sites     | May, November |       |       |      |                                         |
| <b>Total Coliform</b>           |               |               |       |       |      | <b>Occurs naturally, Fecal transfer</b> |
|                                 | All Sites     | May, November |       |       |      |                                         |



# DESCRIPTION OF DETECTED CONTAMINANTS

## REGULATED CONTAMINANTS

**2,4-D** is one of the most common weed killers in the U.S. It was developed in the 1940's and is widely used in agriculture, as well as a backyard lawn treatment. It attacks the roots and leaves of weeds by making plant cells grow out of control. Although it was once thought to be safe, it is now considered a possible human carcinogen. It was detected at one location in May (SXV) and two locations in November (SXV and SRO). The detection in November at SXV was higher than most historical detections and was verified by Eurofins. The 2,4-D detections in the CAP are likely the result of agricultural runoff, as both locations are near agricultural lands.

**Di (2-Ethylhexyl) adipate** is a synthetic organic compound commonly used as a plasticizer in food packaging films, tubing, and flexible plastics. It can also be found in cosmetics and personal care products. It was found in very low levels in the November 2025 Lake Pleasant sample, and could be a trace contaminant, or it may be contamination from the tubing used to pump water samples. The laboratory was unable

to verify the detection because the re-sample was past the allowable holding time.

## MICROBIOLOGY

**E.coli** is a bacterium commonly found in the intestines of humans and animals. It typically does not cause harm to humans, although some strains can cause illness. It is most easily transferred through fecal matter. Detections at Lake Havasu, Lake Pleasant, and Lake Pleasant Parkway suggest that the reservoirs are a source of contamination, while detection at San Xavier may be related to runoff from areas holding livestock.

**Total Coliform** is a measurement of the coliform bacteria in a water source. Coliform bacteria occur naturally in soils, water, vegetation, and in the intestines of warm-blooded organisms. Most are harmless to humans, although some micro-organisms can cause illnesses. Due to the widespread distribution of coliform bacteria, detections in surface water samples are expected.



# LAKE PLEASANT OPERATIONS

The CAP System utilizes Lake Pleasant as a seasonal pump-storage reservoir. During a typical year, Colorado River water is pumped into the reservoir from October to May when water demands and electricity costs are lower. During the summer, when water demands and electricity costs are higher, water is released from the reservoir for customer deliveries. These annual water level fluctuations may be modified based on required maintenance of the system, as well as stakeholder demand, which can vary based on rainfall and air temperature.

In 2025, typical pumping and releasing (generating) occurred during spring, as river water was used to meet stakeholder demand and to fill Lake Pleasant. However, during mid-January through mid-February there was an outage in the western aqueduct for maintenance activity, so Lake Pleasant was utilized. From mid-June through September, Lake Pleasant was utilized as the primary source to meet demand. From mid-September through December, river water used almost exclusively to meet demand,

with occasional diversions from the lake for maintenance activity and water balancing.

In recent years, a more gradual transition from Lake Pleasant to Colorado River water was employed in early September to minimize impacts caused by the re-suspension of sediments. This approach continued in 2025, although abbreviated, and continues to be effective in reducing downstream turbidity and total organic carbon levels during the fall.

The average, minimum, and maximum lake elevations in 2025 were its lowest in the past 6 years. The high water level of 1,688.02 occurred on June 9, while the low water level of 1,654.95 occurred on December 31st. Additionally, the 2025 average water elevation of 1666.39 was nearly 12 feet lower than the 2020-2024 annual average.

| 2025 Lake Pleasant Operations      |               |
|------------------------------------|---------------|
| Average Daily Water Elevation      | 1,666.39 (ft) |
| Highest Water Elevation (06/09/24) | 1,688.02 (ft) |
| Lowest Water Elevation (12/31/25)  | 1,654.95(ft)  |
| Change in Elevation:               | 33.07 (ft)    |



Lake Pleasant lake elevation (feet) and average daily inflow (flow+) and outflow (flow-) in cubic feet per second (cfs). Positive levels represent when water is pumped into Lake Pleasant from the CAP (pumping), while negative values represent when water is discharged from Lake Pleasant into the CAP canal (generating).

# LAKE PLEASANT WATER QUALITY

From 1996–2022, CAP sampled water quality every quarter at a single site near the intake towers at Waddell Dam. This sampling included most of the constituents listed in tables A-1 and A-2 in the Water Quality Guidance Document. Beginning in 2023, sampling at the Towers was reduced to a semi-annual frequency due to the high number of non-detect results.

In 2024 (and continuing into 2025), CAP began sampling three sites each month in Lake Pleasant for 16 nutrient-related constituents (see Appendix A). During winter, samples were collected at the metalimnion (~45 feet), while during thermal stratification (May – October), additional samples were taken at the surface (epilimnion) and at ~90 feet (hypolimnion). These samples allow for CAP to use water quality modeling to gain a better understanding of the nutrient dynamics in the lake and how they affect the canal. Vertical profiles were also measured at each of these three sites, as well as two additional sites in the Agua Fria River and Castle Creek.



Lake Pleasant water quality sampling sites in 2025.

Water quality among the three sites and at the various depths was very similar with few exceptions:

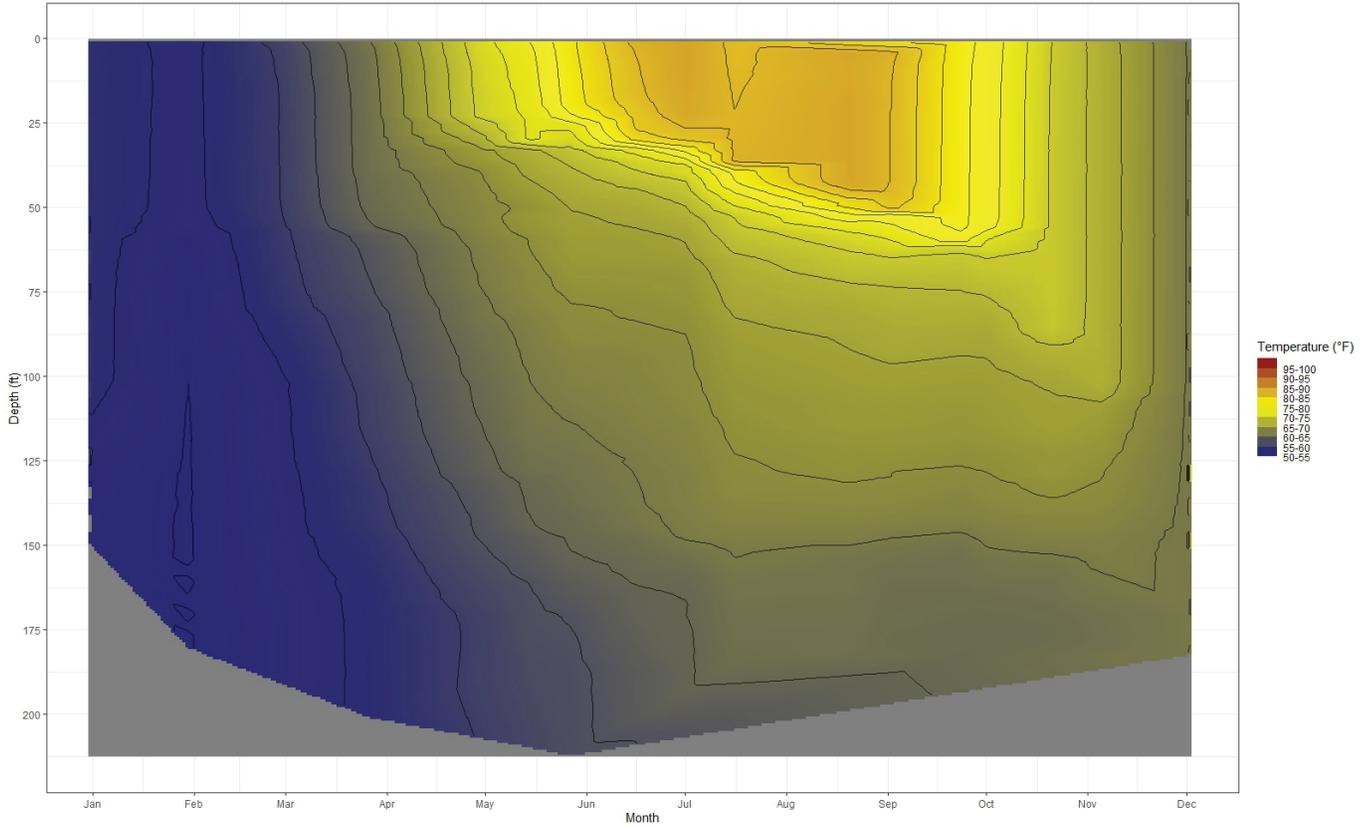
- Nitrates were highest at the deepest sampling points in summer, while TDS, TOC, and DOC were highest at points nearest the surface.
- TDS, TOC, and DOC varied slightly at each site, but was not consistently higher at any one site.
- Ammonia nitrogen, nitrites, phosphorus, and TSS were rarely detected in samples.
- Secchi depths (visibility into the water column) followed a similar pattern at all sites, but were typically highest at the Middle and Towers sites, and lowest at Castle Creek. In March, secchi depth was very low at the Towers site (13 feet) due to high turbidity in the canal that was pumped into the lake. This turbidity only affected the Towers site, as the Middle, Upper, and Agua Fria sites each had secchi depths greater than 30 feet.

Vertical profiles show that a thermocline begins to develop in April at both the Towers and Agua Fria sites, despite the differences in water depths (Pages 14 and 15). The thermocline becomes more pronounced in June, and is strongest in August and September. Mixing did not occur again until late November.

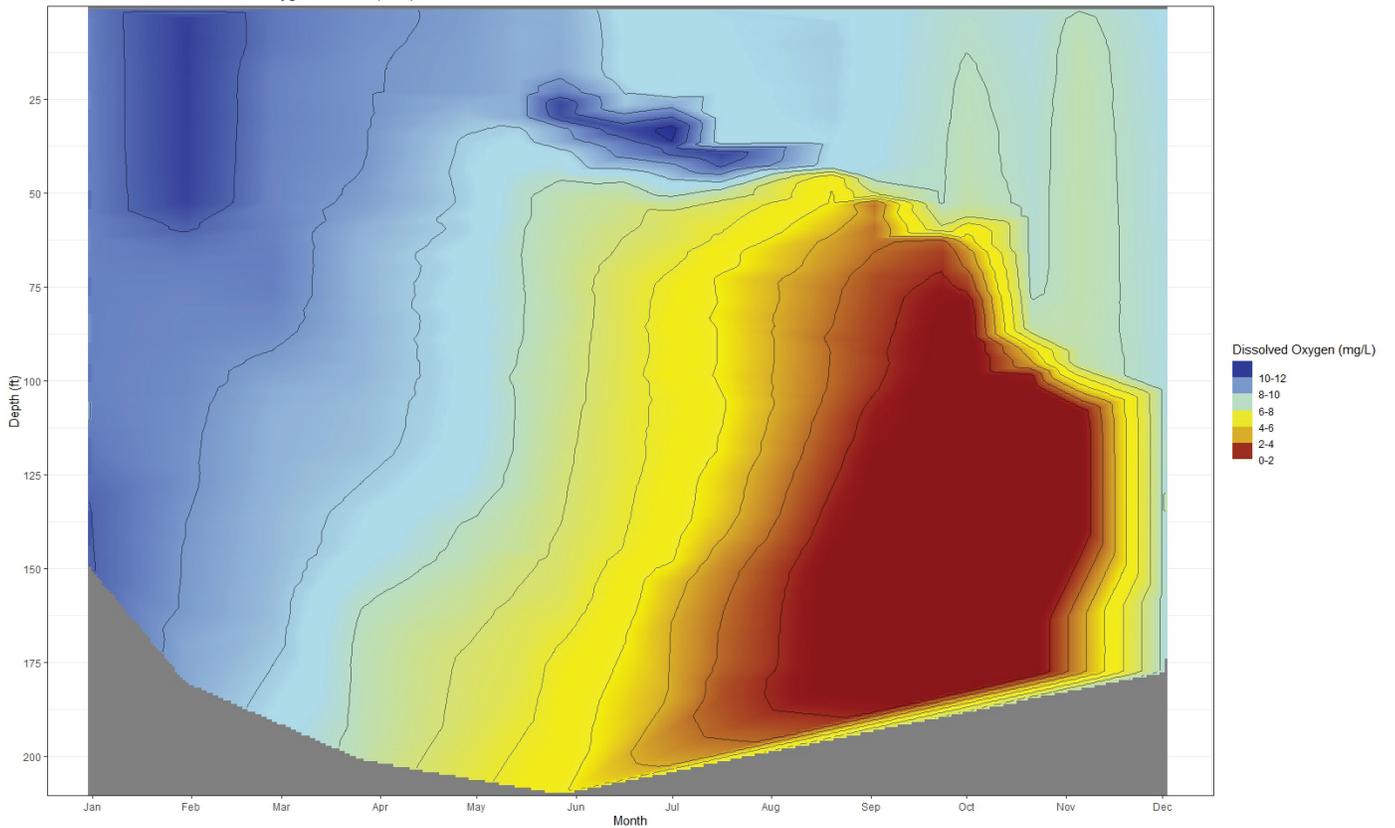
An oxygen deficit (0 mg/L) began in July and lasted until November at both the north and south ends of the lake. As expected, the area of deficit was slightly larger at the Towers location. When there is an oxygen deficit at the Towers location and water is being released from the lake (typically after September 1), nutrients are released and create algal blooms in the canal, which can further lead to the formation of taste and odor issues. Because of this, CAP attempts to avoid releases from Lake Pleasant from July through November.

# LP TOWERS MONTHLY PROFILES

2025 Lake Pleasant Temperature Profiles

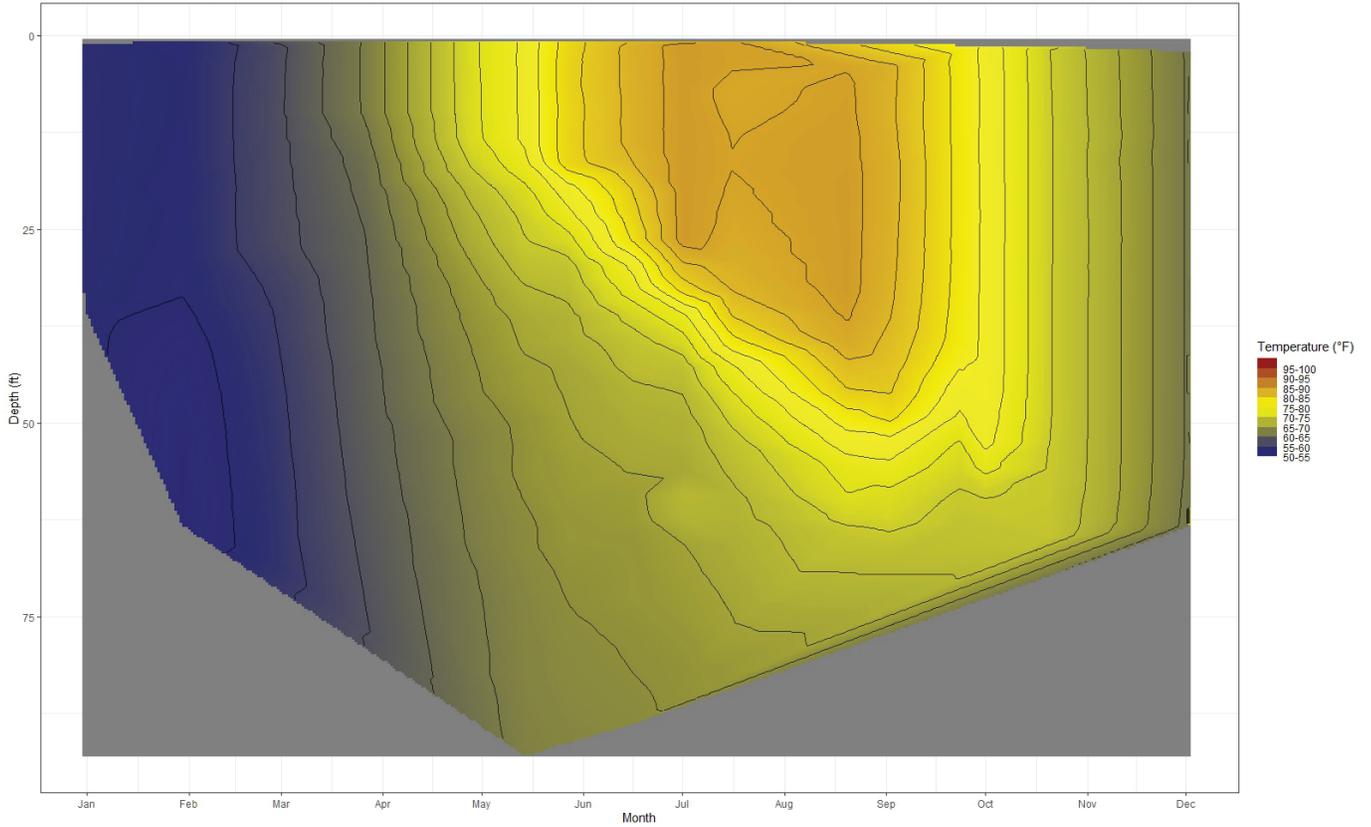


2025 Lake Pleasant Dissolved Oxygen Profiles (LPT)

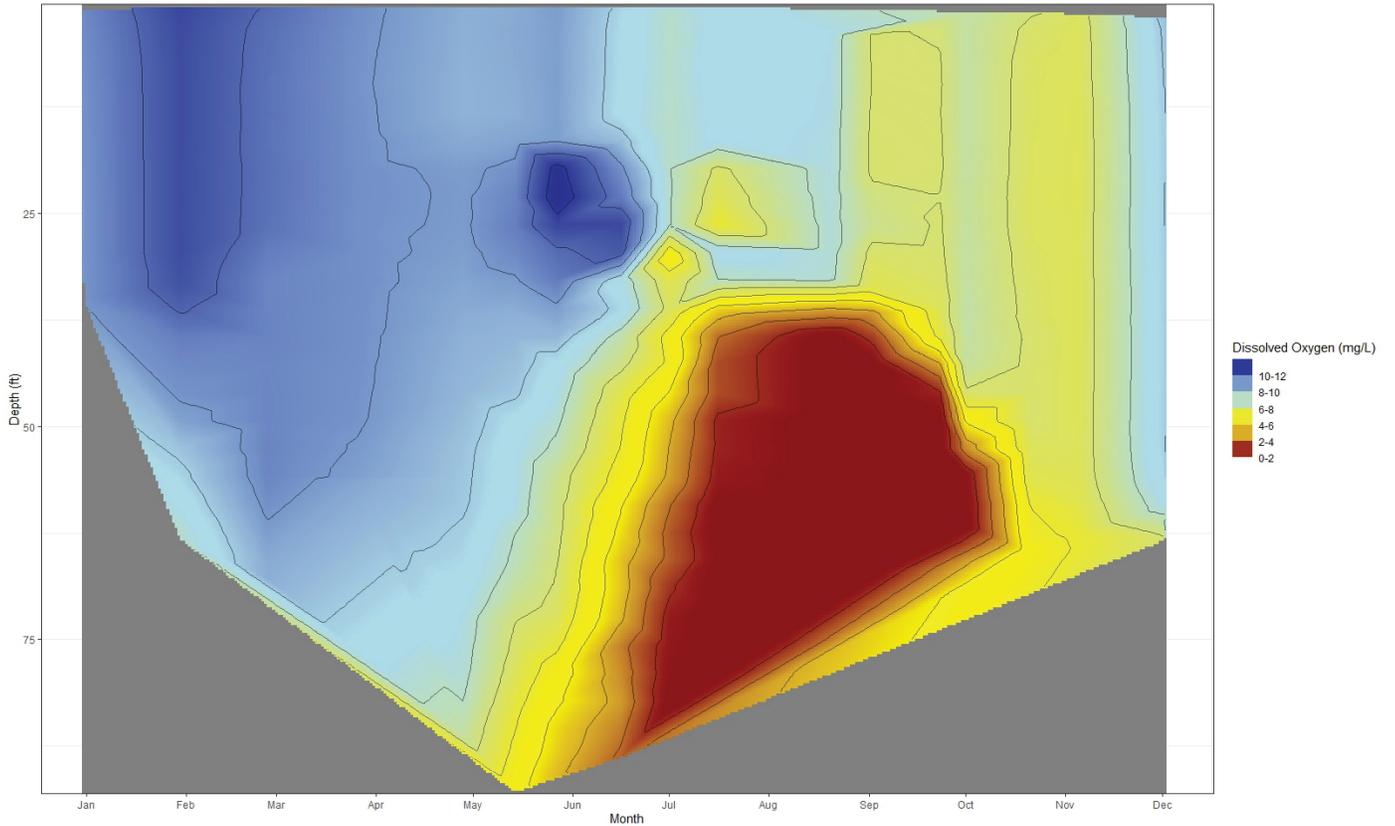


# AGUA FRIA MONTHLY PROFILES

2025 Lake Pleasant Temperature Profiles (LPAF)



2025 Lake Pleasant Dissolved Oxygen Profiles (LPAF)



# ALAMO DAM RELEASES

Releases from Alamo Dam often create a degradation of water quality in both the Bill Williams River and in the southernmost portions of Lake Havasu. Due to the proximity of the CAP intakes to the Bill Williams River, this degradation of water quality can have significant impacts to the CAP system and its stakeholders. During past events, the increase in suspended sediments transported into the CAP System has resulted in increased maintenance to critical infrastructure, clogging of recharge basins, and an increase in costs related to operational changes. For CAP stakeholders, past high flow events have led to increased maintenance frequency and costs, as well as increases in treatment costs related to high turbidity, total organic carbon (TOC) and alkalinity.

In 2025, the US Army Corps of Engineers periodically released water from Alamo Lake to facilitate maintenance activities; however, none of the releases were significant enough to reach Lake Havasu or impact CAP Operations.

## WATER CONTROL MANUAL

The Corps, who constructed and operate Alamo Dam, continue to work on an update to their Water Control Manual. The Manual details the operation of Alamo Dam, specifies frequency of dam maintenance, and outlines conditions for releases of water from the dam. Release of the DRAFT manual has been delayed for several years, but is expected to be available for public comment at some point in 2026, with a final release date late in the year.



# GROUNDWATER RECHARGE

CAWCD has developed and currently operates six recharge projects:

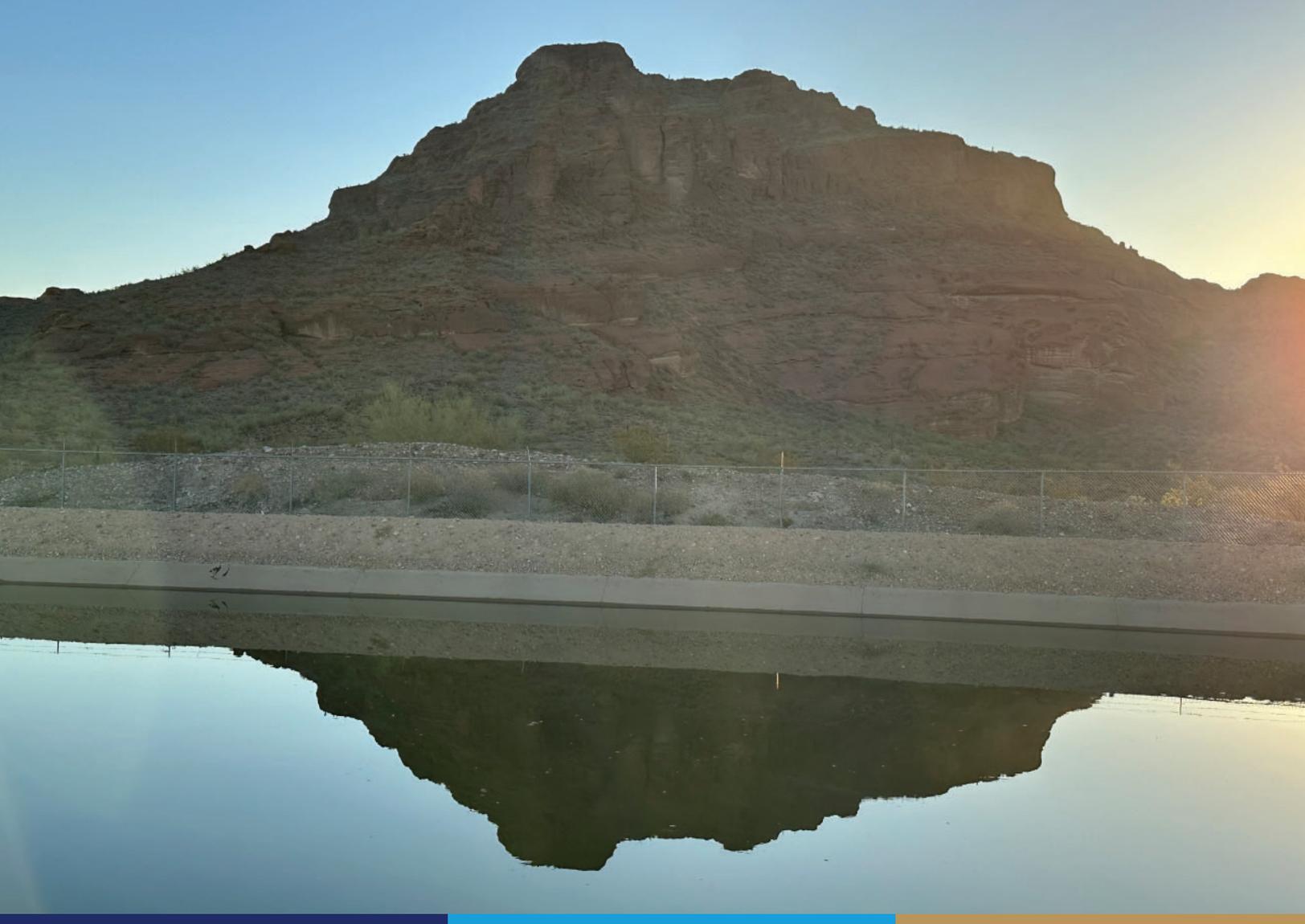
1. Pima Mine Road Recharge Project
2. Lower Santa Cruz Recharge Project
3. Agua Fria Recharge Project
4. Hieroglyphic Mountain Recharge Project
5. Tonopah Desert Recharge Project
6. Superstition Mountains Recharge Project

The Tucson Active Management Area (AMA) recharge facilities have a cumulative operational capacity of 58,500 acre-feet per year and include the Pima Mine Road and Lower Santa Cruz Recharge Projects. In the Phoenix AMA, there are four facilities: the Tonopah Desert, Hieroglyphic Mountains, Agua Fria, and Superstition Mountains Recharge Projects, with a combined annual operational capacity of 233,000 acre-feet.

A portion of the permitting process and regulatory compliance for these projects requires periodic water quality monitoring. The sampling results are compiled into an annual report, which is a matter of public record and is submitted to the Arizona Department of Water Resources. Copies of the reports, or portions of the reports, are available by contacting:

Bryant Dickens  
CAP Water Transmission Department  
(623) 869-2255  
[bdickens@cap-az.com](mailto:bdickens@cap-az.com)





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[ppagels@cap-az.com](mailto:ppagels@cap-az.com)

# **APPENDIX A. WATER QUALITY TABLES**

# LAKE HAVASU 2025 (MARK WILMER PUMPING PLANT)

| Constituent               | Units | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul  | Aug   | Sep  | Oct   | Nov   | Dec   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|
| <b>Field Measurements</b> |       |       |       |       |       |       |       |      |       |      |       |       |       |
| Dissolved Oxygen          | mg/L  | 10.07 | 10.18 | 9.64  | 9.21  | 8.82  | 8.62  | 9.25 | 8.79  | 9.1  | 7.91  | 7.66  | 9.02  |
| pH                        | Units | 7.63  | 8.28  | 9.16  | 8.04  | 8.06  | 8.23  | 8.08 | 8.36  | 8.52 | 8.35  | 8.27  | 8.5   |
| Conductivity              | uS/cm | 930   | 999   | 994   | 998   | 980   | 997   | 981  | 992   | 983  | 996   | 986   | 969   |
| Temperature               | degF  | 53.5  | 57.5  | 59.1  | 67.7  | 69.4  | 81    | 82.1 | 82.9  | 82.3 | 77.1  | 67.9  | 61    |
| <b>Primary Analytes</b>   |       |       |       |       |       |       |       |      |       |      |       |       |       |
| Alkalinity                | mg/L  | 130   | 130   | 130   | 130   | 130   | 130   | 130  | 130   | 130  | 130   | 130   | 130   |
| Aluminum (Dissolved)      | mg/L  | ND    | ND    | ND    | ND    | ND    | ND    | ND   | ND    | ND   | ND    | ND    | ND    |
| Aluminum (Total)          | µg/L  | 69    | 100   | 140   | 160   | 56    | ND    | 46   | 42    | 34   | 160   | 280   | 220   |
| Ammonia Nitrogen          | mg/L  | ND    | ND    | ND    | ND    | ND    | ND    | ND   | ND    | ND   | ND    | 0.041 | ND    |
| Antimony (Total)          | µg/L  | ND    | ND    | ND    | ND    | ND    | ND    | ND   | ND    | ND   | ND    | ND    | ND    |
| Arsenic (Total)           | µg/L  | 2.1   | 2.2   | 2.3   | 2.7   | 2.1   | 2.4   | 2.6  | 2.4   | 2.4  | 2.6   | 2.5   | 2.5   |
| Barium (Total)            | µg/L  | 140   | 140   | 140   | 140   | 130   | 130   | 130  | 130   | 130  | 140   | 140   | 140   |
| Beryllium (Total)         | µg/L  | ND    | ND    | ND    | ND    | ND    | ND    | ND   | ND    | ND   | ND    | ND    | ND    |
| Boron (Total)             | mg/L  | 0.14  | 0.13  | 0.13  | 0.13  | 0.13  | 0.13  | 0.13 | 0.13  | 0.13 | 0.13  | 0.12  | 0.13  |
| Bromide                   | µg/L  | 93    | 90    | 89    | 88    | 80    | 87    | 87   | 88    | 85   | 87    | 120   | 89    |
| Cadmium (Total)           | µg/L  | ND    | ND    | ND    | ND    | ND    | ND    | ND   | ND    | ND   | ND    | ND    | ND    |
| Calcium (Total)           | mg/L  | 75    | 70    | 76    | 74    | 75    | 77    | 71   | 70    | 71   | 72    | 77    | 70    |
| Chloride                  | mg/L  | 110   | 110   | 100   | 100   | 100   | 110   | 100  | 100   | 110  | 100   | 97    | 100   |
| Chromium (Total)          | µg/L  | ND    | ND    | ND    | ND    | ND    | ND    | ND   | ND    | ND   | ND    | ND    | ND    |
| Cobalt (Total)            | µg/L  | ND    | ND    | ND    | ND    | ND    | ND    | ND   | ND    | ND   | ND    | ND    | ND    |
| Copper (Dissolved)        | µg/L  | 1     | ND    | 1     | ND    | ND    | ND    | ND   | 1.3   | ND   | ND    | ND    | ND    |
| Fluoride                  | mg/L  | 0.36  | 0.34  | 0.35  | 0.34  | 0.34  | 0.34  | 0.32 | 0.32  | 0.32 | 0.33  | 0.33  | 0.33  |
| Gross Alpha               | pCi/L | 4.66  | 3.27  | 2.14  | 2.99  | 3.75  | 5.13  | 2.8  | 2.23  | 3.47 | 1.31  | 4.53  | 4.08  |
| Gross Beta                | pCi/L | 4.34  | 4.4   | 4.93  | 4.48  | 3.93  | 5.18  | 3.12 | 4.43  | 4.46 | 5.07  | 5.12  | 5.41  |
| Hexavalent Chromium       | µg/L  | 0.022 | 0.034 | 0.029 | 0.027 | 0.023 | ND    | 0.02 | 0.036 | ND   | ND    | ND    | 0.049 |
| Iron (Dissolved)          | mg/L  | ND    | ND    | ND    | ND    | ND    | ND    | ND   | ND    | ND   | ND    | ND    | ND    |
| Lead (Total)              | µg/L  | ND    | ND    | ND    | ND    | ND    | ND    | ND   | ND    | ND   | ND    | ND    | ND    |
| Manganese (Total)         | µg/L  | 4.4   | 4.9   | 5.7   | 7.7   | 4.2   | 2.9   | 5.1  | 6.4   | 5.3  | 13    | 14    | 8.7   |
| Mercury                   | µg/L  | ND    | ND    | ND    | ND    | ND    | ND    | ND   | ND    | ND   | ND    | ND    | ND    |
| Molybdenum (Total)        | µg/L  | 5.2   | 5.1   | 5.4   | 5.1   | 4.8   | 5.1   | 4.9  | 4.9   | 4.8  | 4.7   | 4.9   | 4.9   |
| Nickel (Total)            | µg/L  | 2     | 1.8   | 1.6   | 1.7   | 3     | 1.6   | 1.5  | 1.6   | 1.6  | 1.8   | ND    | ND    |
| Nitrate                   | mg/L  | 0.38  | 0.44  | 0.48  | 0.49  | 0.44  | 0.35  | 0.27 | ND    | ND   | ND    | ND    | ND    |
| Nitrite                   | mg/L  | ND    | ND    | ND    | ND    | ND    | ND    | ND   | ND    | ND   | ND    | ND    | ND    |
| Perchlorate               | µg/L  | 0.95  | 1     | 1.3   | 1.5   | 1.4   | 1.3   | 1.1  | 0.99  | 0.85 | 0.76  | 0.78  | 0.68  |
| Potassium (Total)         | mg/L  | 5.1   | 4.7   | 5.2   | 4.9   | 4.9   | 5.5   | 4.9  | 4.8   | 4.9  | 4.9   | 5.1   | 4.7   |
| Radium 226/228            | pCi/L | 0.774 | 0.564 | 0.88  | 0.254 | 0.706 | 0.147 | 1.45 | 0.595 | 1.06 | 0.606 | 0.125 | 0.994 |
| Selenium (Total)          | µg/L  | 2.1   | 2     | 2.1   | 2.1   | ND    | ND    | ND   | ND    | ND   | ND    | ND    | ND    |

# LAKE HAVASU 2025 (CONTINUED)

| Constituent            | Units | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Silver (Total)         | µg/L  | ND  |
| Sodium (Total)         | mg/L  | 98  | 89  | 95  | 91  | 92  | 98  | 93  | 93  | 95  | 94  | 99  | 92  |
| Strontium (Total)      | mg/L  | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 | 1.1 | 1.1 |
| Sulfate                | mg/L  | 250 | 240 | 220 | 220 | 220 | 230 | 220 | 220 | 220 | 220 | 220 | 220 |
| Thallium (Total)       | µg/L  | ND  |
| Total Dissolved Solids | mg/L  | 650 | 640 | 640 | 640 | 630 | 620 | 630 | 620 | 620 | 620 | 620 | 620 |
| Total Organic Carbon   | mg/L  | 2.9 | 3   | 3   | 3   | 2.9 | 3.4 | 3.1 | 3.2 | 3.1 | 3.3 | 3   | 3   |
| Total Phosphorus       | mg/L  | ND  |
| Turbidity              | NTU   | 2.4 | 2.3 | 2.8 | 2.5 | 1.2 | 0.6 | 1.8 | 1.3 | 1.3 | 4.8 | 5.2 | 4.3 |
| Uranium                | µg/L  | 4.6 | 4.3 | 4.5 | 4.6 | 4.2 | 4.1 | 4.1 | 4.1 | 4.1 | 4   | 4.2 | 4.2 |
| Vanadium (Total)       | µg/L  | 3.1 | 2.6 | 2.7 | 3   | 3.4 | 3   | 2.5 | 2.5 | 2.7 | 2.9 | 2.9 | 3   |
| Zinc (Total)           | µg/L  | ND  |

# HASSAYAMPA PUMPING PLANT 2025

| Constituent               | Units | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Field Measurements</b> |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Dissolved Oxygen          | mg/L  | 10.89 | 11.35 | 9.6   | 9.48  | 8.97  | 9.05  |       | 8.98  | 8.4   | 8.05  | 8.95  | 10.21 |
| pH                        | Units | 7.8   | 8.52  | 7.96  | 7.95  | 8.16  | 7.98  | 8.01  | 8.43  | 8.04  | 8.21  | 8.31  | 8.44  |
| Conductivity              | uS/cm | 952   | 992   | 999   | 999   | 973   | 989   | 966   | 993   | 979   | 981   | 988   | 970   |
| Temperature               | degF  | 50.1  | 56.2  | 58    | 63.3  | 70    | 76    | 83.2  | 84.9  | 79.8  | 77.6  | 68.4  | 60.6  |
| <b>Primary Analytes</b>   |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Alkalinity                | mg/L  | 130   | 120   | 130   | 130   | 130   | 130   | 110   | 95    | 120   | 120   | 130   | 120   |
| Aluminum (Dissolved)      | mg/L  | ND    |
| Aluminum (Total)          | µg/L  | 37    | ND    | 370   | 130   | 120   | 20    | ND    | ND    | 96    | 30    | ND    | ND    |
| Ammonia Nitrogen          | mg/L  | ND    | 0.072 | ND    | ND    | ND    | ND    |
| Antimony (Total)          | µg/L  | ND    |
| Arsenic (Total)           | µg/L  | 2.1   | 2.1   | 2.3   | 2.5   | 2.2   | 2.3   | 2.5   | 3     | 2.6   | 2.4   | 2.3   | 2.2   |
| Barium (Total)            | µg/L  | 140   | 130   | 150   | 140   | 130   | 130   | 120   | 120   | 130   | 130   | 140   | 130   |
| Beryllium (Total)         | µg/L  | ND    |
| Boron (Total)             | mg/L  | 0.15  | 0.14  | 0.13  | 0.13  | 0.12  | 0.12  | 0.13  | 0.13  | 0.14  | 0.13  | 0.13  | 0.13  |
| Bromide                   | µg/L  | 93    | 93    | 87    | 86    | 85    | 81    | 86    | 89    | 85    | 85    | 85    | 85    |
| Cadmium (Total)           | µg/L  | ND    |
| Calcium (Total)           | mg/L  | 80    | 72    | 78    | 78    | 72    | 72    | 62    | 58    | 75    | 71    | 71    | 71    |
| Chloride                  | mg/L  | 110   | 110   | 100   | 110   | 100   | 100   | 100   | 110   | 100   | 110   | 110   | 99    |
| Chromium (Total)          | µg/L  | ND    |
| Cobalt (Total)            | µg/L  | ND    |
| Copper (Dissolved)        | µg/L  | ND    | 1.7   | 1.3   | 1.1   | 1     | 1     | 1.1   | 1     | 1.2   | 1.1   | ND    | ND    |
| Fluoride                  | mg/L  | 0.38  | 0.37  | 0.35  | 0.34  | 0.33  | 0.34  | 0.33  | 0.33  | 0.32  | 0.32  | 0.34  | 0.33  |
| Gross Alpha               | pCi/L | 4.74  | 2.3   | 4.64  | 1.67  | 3.41  | 5.26  | 3.32  | 3.83  | 2.69  | 2.88  | 4.61  | 3.67  |
| Gross Beta                | pCi/L | 5.27  | 5.91  | 5.26  | 3.03  | 5.32  | 4.12  | 5.29  | 5.14  | 6     | 4.56  | 4.25  | 4.39  |
| Hexavalent Chromium       | µg/L  | 0.037 | 0.022 | 0.028 | 0.029 | 0.021 | 0.03  | ND    | 0.028 | 0.02  | 0.021 | ND    | ND    |
| Iron (Dissolved)          | mg/L  | ND    | 0.011 | ND    | ND    | ND    |
| Lead (Total)              | µg/L  | ND    | ND    | 0.95  | ND    |
| Manganese (Total)         | µg/L  | ND    | ND    | 28    | 6     | 6.3   | 2.2   | ND    | 3.4   | 7.4   | 3.7   | ND    | ND    |
| Mercury                   | µg/L  | ND    |
| Molybdenum (Total)        | µg/L  | 5.2   | 5.4   | 4.9   | 5.1   | 5     | 5.2   | 4.8   | 5.2   | 4.9   | 4.7   | 5.1   | 4.9   |
| Nickel (Total)            | µg/L  | 1.8   | 2.2   | 2.5   | 1.6   | 1.8   | 1.6   | 1.4   | 1.3   | 1.7   | 1.8   | ND    | ND    |
| Nitrate                   | mg/L  | 0.39  | ND    | 0.43  | 0.5   | 0.46  | 0.37  | ND    | ND    | 0.16  | 0.15  | 0.15  | 0.12  |
| Nitrite                   | mg/L  | ND    |
| Perchlorate               | µg/L  | 0.84  | 0.93  | 1     | 1.6   | 1.4   | 1.2   | 1.1   | 0.81  | 0.85  | 0.72  | 0.66  | 0.67  |
| Potassium (Total)         | mg/L  | 5.4   | 5.1   | 5.1   | 5.1   | 4.7   | 4.8   | 4.9   | 5.1   | 5.1   | 4.9   | 5     | 4.9   |
| Radium 226/228            | pCi/L | 1.75  | 0.925 | 0.701 | 0.925 | 0.11  | 0.395 | 0.966 | 0.041 | 0.967 | 1.53  | 0.377 | 0.746 |
| Selenium (Total)          | µg/L  | 2     | 2     | 2.1   | 2.1   | ND    |
| Silver (Total)            | µg/L  | ND    |
| Sodium (Total)            | mg/L  | 100   | 99    | 95    | 95    | 89    | 90    | 93    | 96    | 98    | 94    | 94    | 94    |

# HASSAYAMPA 2025 (CONTINUED)

| Constituent            | Units | Jan | Feb  | Mar   | Apr | May | Jun | Jul | Aug | Sep | Oct  | Nov | Dec  |
|------------------------|-------|-----|------|-------|-----|-----|-----|-----|-----|-----|------|-----|------|
| Strontium (Total)      | mg/L  | 1.1 | 1.1  | 1.1   | 1.1 | 1.1 | 1.0 | 1.1 | 1.1 | 1.0 | 1.0  | 1.1 | 1.0  |
| Sulfate                | mg/L  | 240 | 240  | 230   | 230 | 220 | 220 | 230 | 230 | 220 | 220  | 220 | 210  |
| Thallium (Total)       | µg/L  | ND  | ND   | ND    | ND  | ND  | ND  | ND  | ND  | ND  | ND   | ND  | ND   |
| Total Dissolved Solids | mg/L  | 650 | 630  | 660   | 650 | 610 | 630 | 590 | 620 | 630 | 610  | 610 | 630  |
| Total Organic Carbon   | mg/L  | 3.1 | 3.1  | 3.4   | 3.2 | 3   | 3.1 | 3.7 | 5.2 | 3.5 | 3    | 3.3 | 3    |
| Total Phosphorus       | mg/L  | ND  | ND   | 0.039 | ND   | ND  | ND   |
| Turbidity              | NTU   | 1.5 | 0.25 | 17    | 1.9 | 0.9 | 0.8 | 0.9 | 0.6 | 0.7 | 0.45 | 0.5 | 0.55 |
| Uranium                | µg/L  | 4.8 | 4.6  | 4.5   | 4.4 | 4.2 | 4.2 | 4.1 | 4.3 | 4.1 | 4.1  | 4.5 | 4    |
| Vanadium (Total)       | µg/L  | 2.7 | 2.5  | 4     | 2.8 | 3.2 | 3   | 3.2 | 2.8 | 3.4 | 2.4  | 2.7 | 2.5  |
| Zinc (Total)           | µg/L  | ND  | ND   | ND    | ND  | ND  | ND  | ND  | ND  | ND  | ND   | ND  | ND   |

# WADDELL PUMPING PLANT 2025

| Constituent               | Units | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec  |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| <b>Field Measurements</b> |       |       |       |       |       |       |       |       |       |       |       |       |      |
| Dissolved Oxygen          | mg/L  | 9.68  | 9.37  | 9.84  | 9.75  | 8.92  | 5.45  | 5.91  | 2.84  | 7.54  | 7.54  | 0.57  | 7.35 |
| pH                        | Units | 8.01  | 7.63  | 8.02  | 8.08  | 8.02  | 7.83  | 7.46  | 7.16  | 8.19  | 8.19  | 7.6   | 7.87 |
| Conductivity              | uS/cm | 1005  | 991   | 997   | 999   | 947   | 1043  | 1030  | 1031  | 984   | 984   | 1051  | 1057 |
| Temperature               | degF  | 53.1  | 53    | 58.3  | 67.5  | 73    | 61.3  | 63.1  | 65.7  | 79.5  | 79.5  | 65.2  | 61.5 |
| <b>Primary Analytes</b>   |       |       |       |       |       |       |       |       |       |       |       |       |      |
| Alkalinity                | mg/L  | 140   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 120   | 120   | 140   | 130  |
| Aluminum (Dissolved)      | mg/L  | ND    | ND   |
| Aluminum (Total)          | µg/L  | 34    | 30    | 290   | 98    | 56    | 35    | ND    | ND    | ND    | 25    | 25    | ND   |
| Ammonia Nitrogen          | mg/L  | ND    | 0.046 | 0.11  | 0.14  | 0.14 |
| Antimony (Total)          | µg/L  | ND    | ND   |
| Arsenic (Total)           | µg/L  | 3.9   | 3.4   | 2.3   | 2.6   | 2.2   | 3     | 3     | 3.1   | 2.7   | 2.6   | 5.8   | 4.4  |
| Barium (Total)            | µg/L  | 130   | 120   | 150   | 140   | 130   | 130   | 130   | 130   | 130   | 140   | 130   | 130  |
| Beryllium (Total)         | µg/L  | ND    | ND   |
| Boron (Total)             | mg/L  | 0.15  | 0.15  | 0.13  | 0.13  | 0.12  | 0.15  | 0.17  | 0.14  | 0.13  | 0.13  | 0.15  | 0.16 |
| Bromide                   | µg/L  | 120   | 120   | 87    | 82    | 87    | 110   | 110   | 110   | 85    | 87    | 110   | 110  |
| Cadmium (Total)           | µg/L  | ND    | ND   |
| Calcium (Total)           | mg/L  | 68    | 69    | 83    | 77    | 74    | 71    | 70    | 70    | 71    | 71    | 71    | 69   |
| Chloride                  | mg/L  | 120   | 110   | 99    | 99    | 100   | 110   | 110   | 110   | 100   | 100   | 110   | 120  |
| Chromium (Total)          | µg/L  | ND    | ND    | 1.5   | ND    | ND   |
| Cobalt (Total)            | µg/L  | ND    | ND   |
| Copper (Dissolved)        | µg/L  | ND    | 1.6   | 1.1   | 1.1   | 1     | ND    | ND    | 9.6   | 1.2   | ND    | ND    | 1.3  |
| Fluoride                  | mg/L  | 0.42  | 0.44  | 0.34  | 0.34  | 0.34  | 0.41  | 0.38  | 0.4   | 0.33  | 0.32  | 0.39  | 0.4  |
| Gross Alpha               | pCi/L | 2.73  | 5.23  | 3.46  | 2.89  | 4.81  | 4.44  | 5.13  | 4.56  | 4.49  | 4.62  | 4.54  | 2.5  |
| Gross Beta                | pCi/L | 4.51  | 5.95  | 4.96  | 2.81  | 3.27  | 5.4   | 2.93  | 5.32  | 4.61  | 5.64  | 4.72  | 6.44 |
| Hexavalent Chromium       | µg/L  | ND    | ND    | 0.037 | 0.028 | 0.023 | ND    | ND    | ND    | ND    | 0.021 | ND    | ND   |
| Iron (Dissolved)          | mg/L  | ND    | 0.077 | ND    | ND    | ND   |
| Lead (Total)              | µg/L  | ND    | ND    | 0.85  | ND    | ND   |
| Manganese (Total)         | µg/L  | 5.3   | 6.3   | 26    | 4     | 2.5   | 9.1   | 8.8   | 13    | 12    | 37    | 430   | 50   |
| Mercury                   | µg/L  | ND    | ND   |
| Molybdenum (Total)        | µg/L  | 5.7   | 5.1   | 4.7   | 5.4   | 5.1   | 5.3   | 5.6   | 6.8   | 4.9   | 4.8   | 5.6   | 5.9  |
| Nickel (Total)            | µg/L  | 1.9   | 1.8   | 2.6   | 1.6   | 1.8   | 1.7   | 1.4   | 1.4   | 1.5   | 1.8   | ND    | ND   |
| Nitrate                   | mg/L  | ND    | ND    | 0.43  | 0.48  | 0.46  | 0.22  | 0.25  | 0.28  | 0.14  | 0.17  | ND    | ND   |
| Nitrite                   | mg/L  | ND    | ND   |
| Perchlorate               | µg/L  | ND    | ND    | 1.1   | 1.5   | 1.4   | 0.53  | 0.55  | 0.54  | 0.83  | 0.69  | ND    | ND   |
| Potassium (Total)         | mg/L  | 5.9   | 5.8   | 5     | 5.1   | 4.9   | 5.6   | 5.6   | 5.5   | 5     | 5     | 5.6   | 5.9  |
| Radium 226/228            | pCi/L | 0.127 | 0.017 | 0.31  | 0.575 | 0.63  | 0.481 | 0.398 | 0.621 | 0.971 | 1.45  | 0.185 | 0.09 |
| Selenium (Total)          | µg/L  | ND    | ND    | 2     | 2.1   | ND    | ND   |
| Silver (Total)            | µg/L  | ND    | ND   |
| Sodium (Total)            | mg/L  | 110   | 110   | 92    | 95    | 93    | 100   | 100   | 99    | 96    | 95    | 100   | 110  |

# WADDELL 2025 (CONTINUED)

| Constituent            | Units | Jan | Feb | Mar   | Apr | May | Jun | Jul | Aug | Sep | Oct  | Nov   | Dec   |
|------------------------|-------|-----|-----|-------|-----|-----|-----|-----|-----|-----|------|-------|-------|
| Strontium (Total)      | mg/L  | 1.1 | 1.1 | 1.1   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | 1.1  | 1.1   | 1.2   |
| Sulfate                | mg/L  | 260 | 240 | 230   | 230 | 220 | 250 | 250 | 240 | 220 | 230  | 240   | 250   |
| Thallium (Total)       | µg/L  | ND  | ND  | ND    | ND  | ND  | ND  | ND  | ND  | ND  | ND   | ND    | ND    |
| Total Dissolved Solids | mg/L  | 660 | 660 | 620   | 620 | 630 | 670 | 670 | 670 | 590 | 610  | 680   | 680   |
| Total Organic Carbon   | mg/L  | 3.3 | 3.3 | 3.1   | 3.1 | 2.9 | 3.2 | 2.9 | 2.9 | 3.5 | 3.3  | 3.2   | 3.4   |
| Total Phosphorus       | mg/L  | ND  | ND  | 0.025 | ND   | 0.035 | 0.021 |
| Turbidity              | NTU   | 0.9 | 1   | 4.6   | 1.4 | 3.2 | 0.7 | 0.9 | 0.9 | 1.1 | 0.55 | 1.5   | 0.2   |
| Uranium                | µg/L  | 5.1 | 4.6 | 4.4   | 4.4 | 4.3 | 4.7 | 4.8 | 4.8 | 4.1 | 4.1  | 4.6   | 4.6   |
| Vanadium (Total)       | µg/L  | 2.7 | 2.8 | 3.8   | 2.9 | 3.4 | 3.5 | 2.4 | 2.7 | 2.9 | 2.8  | ND    | 2.5   |
| Zinc (Total)           | µg/L  | ND  | ND  | ND    | ND  | ND  | ND  | ND  | 17  | ND  | ND   | ND    | ND    |

# LAKE PLEASANT PARKWAY 2025

| Constituent               | Units | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Field Measurements</b> |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Dissolved Oxygen          | mg/L  | 9.94  | 10.83 | 10.08 | 9.85  | 8.91  | 9.38  | 7.85  | 3.97  | 8.67  | 8.78  | 9.15  | 10.26 |
| pH                        | Units | 7.92  | 8.31  | 7.97  | 8.06  | 8.05  | 7.88  | 7.27  | 7.58  | 8.4   | 8.17  | 8.32  | 8.21  |
| Conductivity              | uS/cm | 1005  | 996   | 992   | 998   | 991   | 1007  | 1020  | 1039  | 984   | 989   | 986   | 978   |
| Temperature               | degF  | 52.4  | 56.9  | 60.2  | 65.5  | 67.6  | 74.3  | 67    | 67.7  | 80.9  | 75.3  | 68.4  | 59    |
| <b>Primary Analytes</b>   |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Alkalinity                | mg/L  | 130   | 120   | 130   | 130   | 130   | 130   | 120   | 130   | 120   | 120   | 130   | 120   |
| Aluminum (Dissolved)      | mg/L  | ND    |
| Aluminum (Total)          | µg/L  | 50    | ND    | 230   | 120   | 140   | ND    | 24    | ND    | 35    | 64    | 21    | ND    |
| Ammonia Nitrogen          | mg/L  | ND    | 0.045 | ND    | ND    | ND    | ND    | 0.14  | ND    | ND    | ND    | ND    | ND    |
| Antimony (Total)          | µg/L  | ND    |
| Arsenic (Total)           | µg/L  | 3.9   | 2     | 2.3   | 2.4   | 2.3   | 2.8   | 3     | 3     | 2.4   | 2.5   | 2.2   | 2.2   |
| Barium (Total)            | µg/L  | 130   | 130   | 140   | 140   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   |
| Beryllium (Total)         | µg/L  | ND    |
| Boron (Total)             | mg/L  | 0.16  | 0.14  | 0.13  | 0.13  | 0.13  | 0.13  | 0.15  | 0.15  | 0.13  | 0.12  | 0.13  | 0.13  |
| Bromide                   | µg/L  | 120   | 93    | 87    | 87    | 86    | 92    | 110   | 110   | 84    | 84    | 86    | 84    |
| Cadmium (Total)           | µg/L  | ND    |
| Calcium (Total)           | mg/L  | 73    | 69    | 76    | 75    | 78    | 71    | 71    | 71    | 72    | 68    | 71    | 70    |
| Chloride                  | mg/L  | 110   | 110   | 100   | 100   | 100   | 100   | 110   | 110   | 100   | 100   | 100   | 100   |
| Chromium (Total)          | µg/L  | ND    |
| Cobalt (Total)            | µg/L  | ND    |
| Copper (Dissolved)        | µg/L  | ND    | 1.2   | 1     | ND    | 1     | ND    | ND    | 230   | ND    | ND    | 1     | ND    |
| Fluoride                  | mg/L  | 0.42  | 0.36  | 0.34  | 0.34  | 0.34  | 0.34  | 0.38  | 0.38  | 0.32  | 0.32  | 0.33  | 0.33  |
| Gross Alpha               | pCi/L | 6.5   | 3.62  | 3.02  | 5.02  | 5.67  | 2.92  | 2.58  | 4.32  | 7.98  | 2.22  | 0.389 | 3.96  |
| Gross Beta                | pCi/L | 4.3   | 4.71  | 4.36  | 5.28  | 4.87  | 4.65  | 4.69  | 3.44  | 7.47  | 5.19  | 2.54  | 6.08  |
| Hexavalent Chromium       | µg/L  | ND    | ND    | 0.026 | 0.027 | ND    | 0.034 | ND    | ND    | ND    | ND    | ND    | ND    |
| Iron (Dissolved)          | mg/L  | ND    |
| Lead (Total)              | µg/L  | ND    |
| Manganese (Total)         | µg/L  | 6     | ND    | 8.6   | 4.5   | 6.8   | 3.2   | 7.3   | 12    | 4.7   | 5.9   | 2.7   | ND    |
| Mercury                   | µg/L  | ND    |
| Molybdenum (Total)        | µg/L  | 5.9   | 5.4   | 5.2   | 5.2   | 4.9   | 5.1   | 5.6   | 6     | 5     | 4.7   | 4.7   | 5.1   |
| Nickel (Total)            | µg/L  | 1.9   | 1.9   | 2.4   | 1.7   | 1.8   | 1.8   | 1.7   | 1.8   | 1.5   | 1.5   | ND    | ND    |
| Nitrate                   | mg/L  | ND    | ND    | 0.42  | 0.48  | 0.45  | 0.26  | 0.18  | 0.21  | 0.13  | ND    | 0.14  | 0.19  |
| Nitrite                   | mg/L  | ND    |
| Perchlorate               | µg/L  | ND    | 0.78  | 1.1   | 1.3   | 1     | 0.91  | 0.6   | 0.75  | 0.78  | 0.72  | 0.62  | 0.66  |
| Potassium (Total)         | mg/L  | 5.9   | 5.2   | 5.1   | 5.1   | 5.1   | 5.1   | 5.5   | 5.5   | 5     | 4.8   | 5     | 4.9   |
| Radium 226/228            | pCi/L | 0.073 | 0.263 | 1.09  | 0.27  | 0.362 | 0.234 | 0.297 | 0.715 | 0.781 | 0.164 | 0.566 | 0.147 |
| Selenium (Total)          | µg/L  | ND    | ND    | ND    | 2.1   | ND    |
| Silver (Total)            | µg/L  | ND    |
| Sodium (Total)            | mg/L  | 110   | 99    | 95    | 94    | 95    | 96    | 100   | 100   | 96    | 91    | 95    | 95    |

# LAKE PLEASANT PARKWAY 2025 (CONT)

| Constituent            | Units | Jan  | Feb | Mar | Apr | May | Jun  | Jul | Aug  | Sep | Oct | Nov | Dec |
|------------------------|-------|------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|
| Strontium (Total)      | mg/L  | 1.2  | 1.1 | 1.1 | 1.1 | 1.1 | 1.1  | 1.2 | 1.1  | 1.1 | 1.1 | 1.1 | 1.1 |
| Sulfate                | mg/L  | 240  | 250 | 230 | 220 | 230 | 220  | 240 | 240  | 220 | 220 | 220 | 230 |
| Thallium (Total)       | µg/L  | ND   | ND  | ND  | ND  | ND  | ND   | ND  | ND   | ND  | ND  | ND  | ND  |
| Total Dissolved Solids | mg/L  | 670  | 620 | 660 | 650 | 630 | 630  | 660 | 660  | 620 | 600 | 630 | 610 |
| Total Organic Carbon   | mg/L  | 3.2  | 3.4 | 3   | 3.2 | 3.1 | 3.1  | 3.2 | 3.2  | 3.4 | 3.4 | 3.2 | 3.1 |
| Total Phosphorus       | mg/L  | ND   | ND  | ND  | ND  | ND  | ND   | ND  | ND   | ND  | ND  | ND  | ND  |
| Turbidity              | NTU   | 0.65 | 0.5 | 6.8 | 1.2 | 2.1 | 0.55 | 1   | 0.65 | 2.5 | 0.7 | 0.9 | 0.6 |
| Uranium                | µg/L  | 5.1  | 4.7 | 4.5 | 4.5 | 4.2 | 4.3  | 4.8 | 4.7  | 4.2 | 4   | 4.1 | 4.3 |
| Vanadium (Total)       | µg/L  | 3    | ND  | 3.6 | 3.1 | 3.1 | 3.1  | 3.3 | 2.6  | 3   | 2.9 | 2.7 | 2.4 |
| Zinc (Total)           | µg/L  | ND   | ND  | ND  | ND  | ND  | ND   | ND  | 11   | ND  | ND  | ND  | ND  |

# ROOSEVELT WCD 2025

| Constituent               | Units | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Field Measurements</b> |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Dissolved Oxygen          | mg/L  | 10.77 | 10.99 | 9.14  | 8.89  | 9.14  | 9.14  | 8.53  | 7.14  | 7.44  | 8.18  | 8.98  | 10.18 |
| pH                        | Units | 7.8   | 8.6   | 8.05  | 7.91  | 8.2   | 8.07  | 7.49  | 7.81  | 8.18  | 8.23  | 8.29  | 8.39  |
| Conductivity              | uS/cm | 955   | 1052  | 999   | 998   | 983   | 1032  | 1024  | 1045  | 1013  | 978   | 962   | 977   |
| Temperature               | degF  | 50.5  | 55.7  | 60.9  | 62.8  | 72.1  | 69.6  | 68.9  | 72.3  | 78.3  | 74.8  | 64.1  | 60.3  |
| <b>Primary Analytes</b>   |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Alkalinity                | mg/L  | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 120   | 110   | 120   | 120   | 120   |
| Aluminum (Dissolved)      | mg/L  | ND    |
| Aluminum (Total)          | µg/L  | ND    | ND    | 240   | 550   | 93    | 27    | 20    | 76    | ND    | ND    | ND    | ND    |
| Ammonia Nitrogen          | mg/L  | 0.069 | ND    | 0.033 | ND    | ND    | ND    | 0.056 | 0.033 | ND    | 0.049 | 0.031 | ND    |
| Antimony (Total)          | µg/L  | ND    |
| Arsenic (Total)           | µg/L  | 2.4   | 3.5   | 2.5   | 2.8   | 2.5   | 2.8   | 2.9   | 2.9   | 4     | 2.5   | 2.1   | 2.2   |
| Barium (Total)            | µg/L  | 140   | 130   | 140   | 150   | 140   | 130   | 130   | 120   | 120   | 130   | 120   | 130   |
| Beryllium (Total)         | µg/L  | ND    | 0.66  | ND    | ND    | ND    | ND    |
| Boron (Total)             | mg/L  | 0.14  | 0.15  | 0.13  | 0.14  | 0.13  | 0.15  | 0.15  | 0.15  | 0.15  | 0.12  | 0.12  | 0.13  |
| Bromide                   | µg/L  | 91    | 120   | 87    | 84    | 80    | 100   | 110   | 110   | 98    | 82    | 75    | 86    |
| Cadmium (Total)           | µg/L  | ND    |
| Calcium (Total)           | mg/L  | 79    | 67    | 76    | 85    | 73    | 70    | 69    | 69    | 64    | 67    | 65    | 68    |
| Chloride                  | mg/L  | 110   | 120   | 100   | 110   | 110   | 110   | 100   | 110   | 110   | 100   | 98    | 100   |
| Chromium (Total)          | µg/L  | ND    | ND    | ND    | 6.1   | ND    |
| Cobalt (Total)            | µg/L  | ND    |
| Copper (Dissolved)        | µg/L  | 1.1   | ND    | 1     | ND    | 1     | ND    | ND    | 130   | 1.1   | ND    | ND    | ND    |
| Fluoride                  | mg/L  | 0.35  | 0.43  | 0.34  | 0.34  | 0.33  | 0.39  | 0.38  | 0.38  | 0.35  | 0.31  | 0.32  | 0.33  |
| Gross Alpha               | pCi/L | 4.54  | 4.42  | 3.27  | 4.41  | 3.24  | 3.9   | 4.99  | 2.67  | 3.14  | 4.07  | 3.49  | 5.76  |
| Gross Beta                | pCi/L | 3.95  | 5.16  | 4.48  | 2.08  | 3.83  | 6.44  | 5.45  | 3.56  | 3.05  | 4.55  | 4.65  | 5.65  |
| Hexavalent Chromium       | µg/L  | ND    | ND    | 0.03  | 0.023 | 0.034 | 0.023 | ND    | ND    | 0.024 | ND    | ND    | ND    |
| Iron (Dissolved)          | mg/L  | ND    |
| Lead (Total)              | µg/L  | ND    | ND    | ND    | 0.71  | ND    |
| Manganese (Total)         | µg/L  | ND    | 2.8   | 9.9   | 23    | 8.8   | 4.2   | 5     | 9     | 7     | 4.9   | 5.5   | 4.2   |
| Mercury                   | µg/L  | ND    |
| Molybdenum (Total)        | µg/L  | 5.1   | 6     | 5.1   | 5.1   | 5     | 5.4   | 5.5   | 5.7   | 5     | 4.9   | 4.7   | 4.7   |
| Nickel (Total)            | µg/L  | 2     | 1.6   | 2.2   | 3.6   | 2.3   | 1.8   | 1.8   | 2     | 1.4   | 1.4   | ND    | ND    |
| Nitrate                   | mg/L  | 0.36  | ND    | 0.42  | 0.46  | 0.43  | 0.15  | 0.15  | ND    | ND    | ND    | ND    | ND    |
| Nitrite                   | mg/L  | ND    |
| Perchlorate               | µg/L  | 0.96  | ND    | 0.96  | 1.3   | 1.4   | 0.66  | 0.63  | 0.56  | 0.56  | 0.63  | 0.68  | 0.66  |
| Potassium (Total)         | mg/L  | 5.4   | 5.6   | 5.1   | 5.3   | 4.8   | 5.4   | 5.4   | 5.6   | 5.4   | 4.8   | 4.7   | 4.7   |
| Radium 226/228            | pCi/L | 1.31  | 0.739 | 0     | 0.931 | 0.295 | 0.286 | 0.026 | 0.559 | 1.01  | 1.98  | 0.638 | 1.39  |
| Selenium (Total)          | µg/L  | 2.4   | ND    | 2.1   | 2.7   | ND    |
| Silver (Total)            | µg/L  | ND    |
| Sodium (Total)            | mg/L  | 100   | 100   | 95    | 96    | 89    | 100   | 100   | 100   | 100   | 91    | 91    | 92    |

# ROOSEVELT WCD 2025 (CONTINUED)

| Constituent            | Units | Jan | Feb  | Mar   | Apr   | May | Jun | Jul  | Aug | Sep  | Oct  | Nov | Dec  |
|------------------------|-------|-----|------|-------|-------|-----|-----|------|-----|------|------|-----|------|
| Strontium (Total)      | mg/L  |     | 1.2  | 1.1   | 1.2   | 1.0 | 1.1 | 1.2  | 1.1 | 1.1  | 1.0  | 1.0 | 1    |
| Sulfate                | mg/L  | 240 | 260  | 230   | 230   | 230 | 240 | 230  | 240 | 230  | 220  | 220 | 230  |
| Thallium (Total)       | µg/L  | ND  | ND   | ND    | ND    | ND  | ND  | ND   | ND  | ND   | ND   | ND  | ND   |
| Total Dissolved Solids | mg/L  | 650 | 640  | 640   | 630   | 640 | 650 | 670  | 660 | 640  | 610  | 590 | 610  |
| Total Organic Carbon   | mg/L  | 2.9 | 3.4  | 3.1   | 3.3   | 3.1 | 3.4 | 3    | 3.4 | 4.2  | 3.2  | 3.2 | 3.1  |
| Total Phosphorus       | mg/L  | ND  | ND   | 0.025 | 0.037 | ND  | ND  | ND   | ND  | ND   | ND   | ND  | ND   |
| Turbidity              | NTU   | 0.5 | 0.25 | 3.7   | 16    | 2.5 | 0.8 | 0.45 | 1.1 | 0.95 | 0.85 | 0.4 | 0.25 |
| Uranium                | µg/L  | 4.6 | 4.5  | 4.5   | 4.7   | 4.1 | 4.7 | 4.6  | 4.4 | 4.1  | 4.1  | 4.1 | 4.1  |
| Vanadium (Total)       | µg/L  | 3   | 2.8  | 2.6   | 4.8   | 2.6 | 3.6 | 2.4  | 2.8 | 2.3  | 2.3  | 2.4 | 2.3  |
| Zinc (Total)           | µg/L  | ND  | ND   | ND    | ND    | ND  | ND  | ND   | 32  | ND   | ND   | ND  | ND   |

# SANTA ROSA TURNOUT 2025

| Constituent               | Units | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep  | Oct  | Nov   | Dec   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|
| <b>Field Measurements</b> |       |       |       |       |       |       |       |       |       |      |      |       |       |
| Dissolved Oxygen          | mg/L  | 10.8  | 10.78 | 10.01 | 8.8   | 8.82  | 9.58  | 9.61  | 7.61  | 8.01 | 8.97 | 9.04  | 8.15  |
| pH                        | Units | 7.6   | 8.24  | 8.22  | 7.75  | 9.91  | 7.95  | 7.51  | 8     | 8.14 | 8.31 | 8.36  | 8.34  |
| Conductivity              | uS/cm | 999   | 988   | 996   | 1002  | 1002  | 1013  | 1036  | 1027  | 1005 | 650  | 988   | 966   |
| Temperature               | degF  | 50.4  | 59.5  | 61    | 69.6  | 70.2  | 79.7  | 76    | 78.2  | 82.9 | 71.5 | 64.3  | 56.7  |
| <b>Primary Analytes</b>   |       |       |       |       |       |       |       |       |       |      |      |       |       |
| Alkalinity                | mg/L  | 130   | 110   | 130   | 130   | 130   | 120   | 130   | 120   | 110  | 110  | 110   | 120   |
| Aluminum (Dissolved)      | µg/L  | ND    | ND   | ND   | ND    | ND    |
| Aluminum (Total)          | µg/L  | ND    | ND    | ND    | 83    | 43    | 46    | 28    | ND    | ND   | ND   | ND    | 40    |
| Ammonia Nitrogen          | mg/L  | 0.033 | ND    | ND    | ND    | ND    | ND    | ND    | 0.044 | ND   | 0.16 | 0.31  | 0.32  |
| Antimony (Total)          | µg/L  | ND    | ND   | ND   | ND    | ND    |
| Arsenic (Total)           | µg/L  | 3.6   | 2.2   | 2.1   | 2.7   | 2.6   | 2.3   | 2.8   | 2.5   | 3    | 2.5  | 2.5   | 2     |
| Barium (Total)            | µg/L  | 130   | 130   | 140   | 140   | 140   | 130   | 130   | 130   | 120  | 130  | 130   | 130   |
| Beryllium (Total)         | µg/L  | ND    | 1.4   | ND   | ND   | ND    | ND    |
| Boron (Total)             | mg/L  | 0.16  | 0.13  | 0.13  | 0.13  | 0.13  | 0.14  | 0.15  | 0.15  | 0.14 | 0.12 | 0.14  | 0.13  |
| Bromide                   | µg/L  | 120   | 93    | 85    | 89    | 88    | 93    | 110   | 110   | 90   | 80   | 87    | 73    |
| Cadmium (Total)           | µg/L  | ND    | ND   | ND   | ND    | ND    |
| Calcium (Total)           | mg/L  | 70    | 66    | 76    | 78    | 73    | 69    | 70    | 67    | 65   | 64   | 64    | 65    |
| Chloride                  | mg/L  | 120   | 110   | 100   | 110   | 100   | 100   | 110   | 110   | 100  | 100  | 110   | 100   |
| Chromium (Total)          | µg/L  | ND    | ND   | ND   | ND    | ND    |
| Cobalt (Total)            | µg/L  | ND    | ND   | ND   | ND    | ND    |
| Copper (Dissolved)        | µg/L  | ND    | ND    | ND    | 1     | ND    | ND    | ND    | 180   | ND   | ND   | ND    | ND    |
| Fluoride                  | mg/L  | 0.43  | 0.36  | 0.35  | 0.34  | 0.34  | 0.35  | 0.4   | 0.37  | 0.35 | 0.31 | 0.33  | 0.32  |
| Gross Alpha               | pCi/L | 4.08  | 5.26  | 3.96  | 3     | 2.36  | 5.34  | 4.02  | 0.928 | 6.42 | 6.85 | 4.31  | 7.88  |
| Gross Beta                | pCi/L | 6.78  | 6.07  | 5.02  | 5.64  | 5.39  | 4.96  | 4.22  | 3.41  | 5.17 | 4.7  | 6.32  | 6.47  |
| Hexavalent Chromium       | µg/L  | ND    | 0.022 | 0.021 | ND    | 0.023 | 0.027 | ND    | ND    | ND   | ND   | ND    | ND    |
| Iron (Dissolved)          | mg/L  | ND    | ND   | ND   | ND    | ND    |
| Lead (Total)              | µg/L  | ND    | ND   | ND   | ND    | ND    |
| Manganese (Total)         | µg/L  | ND    | 2     | 2.2   | 9.1   | 3.6   | 4.1   | 3.9   | 5.8   | 10   | 7.1  | 11    | 9.8   |
| Mercury                   | µg/L  | ND    | ND   | ND   | ND    | ND    |
| Molybdenum (Total)        | µg/L  | 5.8   | 5.4   | 5.2   | 5.2   | 5.1   | 5     | 5.6   | 6.4   | 4.6  | 4.8  | 4.8   | 4.9   |
| Nickel (Total)            | µg/L  | 2     | 1.9   | 1.8   | 1.6   | 1.5   | 1.6   | 1.9   | 1.6   | 1.3  | 1.3  | ND    | ND    |
| Nitrate                   | mg/L  | ND    | ND    | 0.38  | 0.43  | 0.39  | ND    | ND    | ND    | ND   | ND   | ND    | ND    |
| Nitrite                   | mg/L  | ND    | ND   | ND   | ND    | ND    |
| Perchlorate               | µg/L  | ND    | 0.8   | 1.1   | 1.3   | 1.2   | 0.91  | 0.62  | 0.69  | 0.56 | 0.54 | ND    | ND    |
| Potassium (Total)         | mg/L  | 5.9   | 5.2   | 5.1   | 5.2   | 5.1   | 5.2   | 5.6   | 5.5   | 5.2  | 4.8  | 5.1   | 4.8   |
| Radium 226/228            | pCi/L | 0.593 | 0.203 | 0.404 | 0.449 | 0.569 | 0.391 | 0.264 | 0.086 | 1.54 | 1.58 | 0.718 | 0.579 |
| Selenium (Total)          | µg/L  | ND    | ND    | 2     | 2.2   | ND    | ND    | ND    | ND    | ND   | ND   | ND    | ND    |
| Silver (Total)            | µg/L  | ND    | ND   | ND   | ND    | ND    |
| Sodium (Total)            | mg/L  | 110   | 98    | 96    | 95    | 95    | 98    | 100   | 98    | 98   | 91   | 96    | 92    |

# SANTA ROSA TURNOUT 2025 (CONTINUED)

| Constituent            | Units | Jan | Feb | Mar | Apr | May | Jun | Jul  | Aug | Sep | Oct | Nov | Dec  |
|------------------------|-------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|
| Strontium (Total)      | µg/L  | 1.2 | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1  | 1.0 | 1.1 | 1.0 | 1.1 | 1.0  |
| Sulfate                | mg/L  | 250 | 250 | 230 | 230 | 230 | 230 | 230  | 230 | 230 | 200 | 220 | 220  |
| Thallium (Total)       | µg/L  | ND   | ND  | ND  | ND  | ND  | ND   |
| Total Dissolved Solids | mg/L  | 660 | 660 | 640 | 640 | 620 | 640 | 650  | 640 | 620 | 590 | 610 | 620  |
| Total Organic Carbon   | mg/L  | 3.4 | 3.5 | 3.2 | 3.3 | 3.1 | 3.5 | 3.3  | 3.2 | 4.2 | 3.4 | 3.7 | 3.2  |
| Total Phosphorus       | mg/L  | ND   | ND  | ND  | ND  | ND  | ND   |
| Turbidity              | NTU   | 0.3 | 0.3 | 0.6 | 6.6 | 0.7 | 1.9 | 0.55 | 1.9 | 1.1 | 0.5 | 0.7 | 0.65 |
| Uranium                | µg/L  | 5.1 | 4.7 | 4.5 | 4.6 | 4.5 | 4.3 | 4.6  | 4.2 | 4.1 | 4   | 4.1 | 4    |
| Vanadium (Total)       | µg/L  | 2.6 | ND  | 2.7 | 3.2 | 2.5 | 2.5 | 3.1  | 2.8 | 2.3 | 2.5 | 2.5 | 2.4  |
| Zinc (Total)           | µg/L  | ND   | 91  | ND  | ND  | ND  | ND   |

# BRADY PUMPING PLANT 2025

| Constituent               | Units | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov  | Dec   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| <b>Field Measurements</b> |       |       |       |       |       |       |       |       |       |       |       |      |       |
| Dissolved Oxygen          | mg/L  | 10.2  | 11.3  | 9     | 8.66  | 8.85  | 9.46  | 9.21  | 7.7   | 7.57  | 7.43  | 7.73 | 9.08  |
| pH                        | Units | 7.9   | 8     | 7.82  | 7.69  | 8.13  | 7.83  | 7.38  | 7.8   | 7.98  | 7.98  | 8.15 | 8.39  |
| Conductivity              | uS/cm | 960   | 989   | 970   | 991   | 990   | 1015  | 1002  | 1016  | 982   | 961   | 985  | 974   |
| Temperature               | degF  | 52.9  | 59    | 62    | 65.1  | 73.1  | 79.1  | 80.2  | 79    | 85.3  | 72.7  | 64.6 | 56.3  |
| <b>Primary Analytes</b>   |       |       |       |       |       |       |       |       |       |       |       |      |       |
| Alkalinity                | mg/L  | 130   | 130   | 130   | 130   | 130   | 120   | 130   | 120   | 110   | 120   | 120  | 120   |
| Aluminum (Dissolved)      | mg/L  | ND    | ND   | ND    |
| Aluminum (Total)          | µg/L  | ND    | ND    | ND    | 89    | 22    | ND    | ND    | 23    | ND    | ND    | 27   | ND    |
| Ammonia Nitrogen          | mg/L  | ND    | 0.04  | 0.036 | 0.035 | ND    | ND    | ND    | 0.065 | 0.045 | 0.28  | 0.57 | 0.27  |
| Antimony (Total)          | µg/L  | ND    | ND   | ND    |
| Arsenic (Total)           | µg/L  | 3.6   | 3.4   | 2     | 2.3   | 2.4   | 2.6   | 2.8   | 2.6   | 3     | 2.6   | 2.9  | 2     |
| Barium (Total)            | µg/L  | 130   | 120   | 130   | 140   | 130   | 130   | 130   | 130   | 120   | 130   | 130  | 120   |
| Beryllium (Total)         | µg/L  | ND    | 0.68  | ND    | ND    | ND   | ND    |
| Boron (Total)             | mg/L  | 0.16  | 0.16  | 0.13  | 0.14  | 0.13  | 0.14  | 0.15  | 0.14  | 0.14  | 0.12  | 0.13 | 0.13  |
| Bromide                   | µg/L  | 120   | 120   | 88    | 89    | 81    | 93    | 110   | 100   | 91    | 80    | 91   | 82    |
| Cadmium (Total)           | µg/L  | ND    | ND   | ND    |
| Calcium (Total)           | mg/L  | 70    | 67    | 73    | 77    | 75    | 69    | 70    | 65    | 66    | 64    | 62   | 65    |
| Chloride                  | mg/L  | 120   | 120   | 100   | 110   | 110   | 100   | 110   | 100   | 100   | 100   | 110  | 99    |
| Chromium (Total)          | µg/L  | ND    | ND   | ND    |
| Cobalt (Total)            | µg/L  | ND    | ND   | ND    |
| Copper (Dissolved)        | µg/L  | ND    | 180   | ND    | 1     | ND   | ND    |
| Fluoride                  | mg/L  | 0.43  | 0.43  | 0.34  | 0.34  | 0.33  | 0.36  | 0.39  | 0.37  | 0.35  | 0.31  | 0.33 | 0.32  |
| Gross Alpha               | pCi/L | 4.05  | 1.81  | 3.88  | 2.91  | 6.06  | 4.22  | 4.68  | 2.33  | 4.8   | 2.13  | 4.76 | 1.75  |
| Gross Beta                | pCi/L | 6.72  | 4.96  | 4.12  | 5.41  | 5.41  | 3.94  | 4.65  | 1.5   | 4.26  | 4.68  | 6.03 | 5.5   |
| Hexavalent Chromium       | µg/L  | ND    | ND    | ND    | ND    | ND    | 0.021 | ND    | ND    | ND    | ND    | ND   | ND    |
| Iron (Dissolved)          | mg/L  | ND    | ND   | ND    |
| Lead (Total)              | µg/L  | ND    | ND   | ND    |
| Manganese (Total)         | µg/L  | ND    | 2.2   | 2.2   | 5.2   | 2.1   | 2.3   | 3.1   | 6.1   | 12    | 6.7   | 10   | 7     |
| Mercury                   | µg/L  | ND    | ND   | ND    |
| Molybdenum (Total)        | µg/L  | 5.8   | 5.5   | 5.3   | 5.2   | 5.3   | 5.3   | 5.6   | 5.4   | 4.8   | 4.8   | 4.5  | 4.8   |
| Nickel (Total)            | µg/L  | 2     | 1.8   | 2     | 1.7   | 2     | 1.8   | 1.8   | 1.6   | 1.4   | 1.3   | ND   | ND    |
| Nitrate                   | mg/L  | ND    | ND    | 0.35  | ND    | 0.38  | ND    | ND    | ND    | ND    | ND    | ND   | ND    |
| Nitrite                   | mg/L  | ND    | ND   | ND    |
| Perchlorate               | µg/L  | ND    | ND    | 0.97  | 1.3   | 1.3   | 0.87  | 0.52  | 0.99  | 0.57  | 0.54  | ND   | ND    |
| Potassium (Total)         | mg/L  | 5.9   | 5.9   | 5     | 5.2   | 5.1   | 5.3   | 5.6   | 5.4   | 5.3   | 4.8   | 4.9  | 4.8   |
| Radium 226/228            | pCi/L | 0.628 | 0.249 | 0.037 | 0.971 | 0.763 | 0.506 | 0.158 | 0.645 | 1.25  | 0.554 | 1.05 | 0.006 |
| Selenium (Total)          | µg/L  | ND    | ND    | ND    | 2.1   | 2     | ND    | ND    | ND    | ND    | ND    | ND   | ND    |
| Silver (Total)            | µg/L  | ND    | ND   | ND    |
| Sodium (Total)            | mg/L  | 110   | 110   | 95    | 96    | 96    | 98    | 100   | 95    | 100   | 91    | 92   | 92    |

# BRADY 2025 (CONTINUED)

| Constituent            | Units | Jan  | Feb | Mar  | Apr | May | Jun  | Jul | Aug | Sep | Oct | Nov | Dec  |
|------------------------|-------|------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|------|
| Strontium (Total)      | mg/L  | 1.2  | 1.1 | 1.1  | 1.1 | 1.1 | 1.1  | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 0.98 |
| Sulfate                | mg/L  | 250  | 250 | 240  | 240 | 230 | 230  | 230 | 230 | 220 | 210 | 210 | 220  |
| Thallium (Total)       | µg/L  | ND   | ND  | ND   | ND  | ND  | ND   | ND  | ND  | ND  | ND  | ND  | ND   |
| Total Dissolved Solids | mg/L  | 670  | 670 | 630  | 640 | 650 | 650  | 640 | 640 | 600 | 580 | 590 | 600  |
| Total Organic Carbon   | mg/L  | 3.4  | 3.6 | 3.1  | 3.2 | 3   | 3.4  | 3.3 | 3.2 | 4.1 | 3.3 | 3.8 | 3.2  |
| Total Phosphorus       | mg/L  | ND   | ND  | ND   | ND  | ND  | ND   | ND  | ND  | ND  | ND  | ND  | ND   |
| Turbidity              | NTU   | 0.25 | 0.5 | 0.45 | 3.1 | 0.7 | 0.55 | 0.5 | 2.5 | 1.1 | 0.5 | 0.7 | 0.5  |
| Uranium                | µg/L  | 5.2  | 4.5 | 4.5  | 4.6 | 4.2 | 4.4  | 4.6 | 4.2 | 4.2 | 4   | 3.9 | 4    |
| Vanadium (Total)       | µg/L  | 2.5  | 2.1 | 2.2  | 2.9 | 2.5 | 2.2  | 2.9 | 2.8 | 2.5 | 2.4 | 2.6 | 2.2  |
| Zinc (Total)           | µg/L  | ND   | ND  | ND   | ND  | ND  | ND   | ND  | 31  | ND  | ND  | ND  | ND   |

# SAN XAVIER PUMPING PLANT 2025

| Constituent               | Units | Jan   | Feb  | Mar  | Apr   | May   | Jun   | Jul  | Aug   | Sep   | Oct   | Nov   | Dec   |
|---------------------------|-------|-------|------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| <b>Field Measurements</b> |       |       |      |      |       |       |       |      |       |       |       |       |       |
| Dissolved Oxygen          | mg/L  | 10.38 | 9.45 | 9.39 | 8.74  | 8.61  | 9.3   | 8.4  | 8.23  | 8.48  | 8.77  | 8.81  | 9.35  |
| pH                        | Units | 7.89  | 8.17 | 8.03 | 8.1   | 8.19  | 8.1   | 7.87 | 8.28  | 8.35  | 8.19  | 8.32  | 8.34  |
| Conductivity              | uS/cm | 944   | 1041 | 991  | 1005  | 995   | 1043  | 1046 | 1067  | 1002  | 974   | 953   | 926   |
| Temperature               | degF  | 48.9  | 57.9 | 66.2 | 68.5  | 67.9  | 79.9  | 82   | 82.5  | 80.2  | 72.4  | 60.3  | 50    |
| <b>Primary Analytes</b>   |       |       |      |      |       |       |       |      |       |       |       |       |       |
| Alkalinity                | mg/L  | 130   | 120  | 120  | 130   | 120   | 120   | 120  | 120   | 110   | 120   | 100   | 110   |
| Aluminum (Dissolved)      | mg/L  | ND    | ND   | ND   | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Aluminum (Total)          | µg/L  | ND    | 44   | ND   | 52    | 24    | ND    | ND   | 22    | 65    | 29    | 270   | 25    |
| Ammonia Nitrogen          | mg/L  | 0.042 | ND   | ND   | ND    | ND    | ND    | 0.3  | 0.041 | 0.038 | 0.097 | 0.13  | 0.23  |
| Antimony (Total)          | µg/L  | ND    | ND   | ND   | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Arsenic (Total)           | µg/L  | 1.9   | 2.8  | 2.1  | 2.3   | 2.1   | 2.7   | 2.7  | 3.1   | 2.9   | 2.4   | 2     | 1.6   |
| Barium (Total)            | µg/L  | 130   | 120  | 130  | 140   | 130   | 130   | 130  | 130   | 130   | 130   | 140   | 130   |
| Beryllium (Total)         | µg/L  | ND    | ND   | ND   | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Boron (Total)             | mg/L  | 0.14  | 0.16 | 0.14 | 0.14  | 0.13  | 0.15  | 0.16 | 0.15  | 0.13  | 0.13  | 0.13  | 0.13  |
| Bromide                   | µg/L  | 90    | 120  | 85   | 89    | 87    | 110   | 110  | 110   | 88    | 85    | 86    | 84    |
| Cadmium (Total)           | µg/L  | ND    | ND   | ND   | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Calcium (Total)           | mg/L  | 75    | 67   | 72   | 72    | 71    | 67    | 67   | 65    | 65    | 67    | 59    | 67    |
| Chloride                  | mg/L  | 110   | 110  | 110  | 99    | 99    | 120   | 120  | 110   | 110   | 98    | 100   | 100   |
| Chromium (Total)          | µg/L  | ND    | ND   | ND   | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Cobalt (Total)            | µg/L  | ND    | ND   | ND   | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Copper (Dissolved)        | µg/L  | ND    | 1    | 1.1  | ND    | ND    | ND    | ND   | 1.8   | ND    | ND    | 1.1   | ND    |
| Fluoride                  | mg/L  | 0.36  | 0.42 | 0.34 | 0.35  | 0.34  | 0.39  | 0.39 | 0.37  | 0.33  | 0.32  | 0.32  | 0.33  |
| Gross Alpha               | pCi/L | 3.03  | 5.87 | 2.88 | 3.16  | 2.07  | 5.32  | 3.41 | 3.99  | 2.69  | 3.52  | 5.15  | 2.17  |
| Gross Beta                | pCi/L | 4.19  | 5.05 | 5.73 | 3.08  | 3.87  | 12.1  | 3.23 | 4.05  | 6.1   | 4.31  | 5.97  | 4.74  |
| Hexavalent Chromium       | µg/L  | ND    | ND   | 0.02 | ND    | ND    | 0.023 | ND   | ND    | ND    | ND    | ND    | ND    |
| Iron (Dissolved)          | mg/L  | ND    | ND   | ND   | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Lead (Total)              | µg/L  | ND    | ND   | ND   | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Manganese (Total)         | µg/L  | ND    | 3.1  | 3.2  | 3.6   | 2.8   | 3.3   | 4.1  | 5.7   | 18    | 10    | 14    | 3.3   |
| Mercury                   | µg/L  | ND    | ND   | ND   | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Molybdenum (Total)        | µg/L  | 5.4   | 5.6  | 5.2  | 5.8   | 5     | 6.1   | 5.5  | 5.2   | 4.9   | 5     | 5.2   | 5     |
| Nickel (Total)            | µg/L  | 1.8   | 1.9  | 2.8  | 1.4   | 1.8   | 1.5   | 1.8  | 1.4   | 1.5   | 1.4   | ND    | ND    |
| Nitrate                   | mg/L  | 0.29  | ND   | 0.25 | 0.35  | 0.31  | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Nitrite                   | mg/L  | ND    | ND   | ND   | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Perchlorate               | µg/L  | 0.85  | ND   | 1.2  | 1.4   | 1.3   | 0.56  | 0.52 | ND    | 0.72  | 0.51  | ND    | ND    |
| Potassium (Total)         | mg/L  | 5.3   | 6    | 5.2  | 5.1   | 5.1   | 5.6   | 5.6  | 5.5   | 5     | 5     | 4.9   | 5.1   |
| Radium 226/228            | pCi/L | 0.406 | 1.28 | 1.16 | 0.475 | 0.617 | 0.427 | 0.32 | 0.466 | 0.91  | 1.64  | 0.341 | 0.826 |
| Selenium (Total)          | µg/L  | 2.1   | ND   | 2    | 2     | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Silver (Total)            | µg/L  | ND    | ND   | ND   | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    |
| Sodium (Total)            | mg/L  | 100   | 110  | 97   | 94    | 94    | 100   | 100  | 100   | 96    | 95    | 93    | 98    |

# SAN XAVIER 2025 (CONTINUED)

| Constituent            | Units | Jan  | Feb | Mar | Apr | May | Jun  | Jul  | Aug | Sep | Oct | Nov | Dec |
|------------------------|-------|------|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|
| Strontium (Total)      | mg/L  | 1.1  | 1.1 | 1.1 | 1.1 | 1.1 | 1    | 1.2  | 1.2 | 1.1 | 1.0 | 1.1 | 1.1 |
| Sulfate                | mg/L  | 240  | 250 | 230 | 220 | 230 | 250  | 250  | 230 | 230 | 220 | 230 | 230 |
| Thallium (Total)       | µg/L  | ND   | ND  | ND  | ND  | ND  | ND   | ND   | ND  | ND  | ND  | ND  | ND  |
| Total Dissolved Solids | mg/L  | 650  | 650 | 630 | 650 | 650 | 660  | 670  | 660 | 610 | 590 | 600 | 600 |
| Total Organic Carbon   | mg/L  | 3    | 3.6 | 3.4 | 3.3 | 3.3 | 3.6  | 3.1  | 3.8 | 3.9 | 3.4 | 3.5 | 3.3 |
| Total Phosphorus       | mg/L  | ND   | ND  | ND  | ND  | ND  | ND   | ND   | ND  | ND  | ND  | ND  | ND  |
| Turbidity              | NTU   | 0.35 | 0.4 | 0.7 | 0.9 | 0.6 | 0.75 | 0.65 | 0.5 | 1.1 | 0.9 | 5.3 | 0.8 |
| Uranium                | µg/L  | 4.9  | 4.8 | 4.6 | 4.5 | 4.3 | 4.7  | 4.7  | 4.6 | 4.3 | 4.1 | 4.5 | 4.3 |
| Vanadium (Total)       | µg/L  | ND   | ND  | 3.1 | 2.9 | 3.3 | 2.9  | 2.8  | 2.6 | 3.5 | 2.5 | 2.7 | 2.2 |
| Zinc (Total)           | µg/L  | ND   | ND  | ND  | ND  | ND  | ND   | ND   | ND  | ND  | ND  | ND  | ND  |

# LAKE PLEASANT TOWERS 2025

| Constituent             | Units | May  | Nov  |
|-------------------------|-------|------|------|
| <b>Primary Analytes</b> |       |      |      |
| Alkalinity              | mg/L  | 130  | 120  |
| Aluminum (Dissolved)    | mg/L  | ND   | ND   |
| Aluminum (Total)        | µg/L  | ND   | ND   |
| Ammonia Nitrogen        | mg/L  | ND   | ND   |
| Antimony (Total)        | µg/L  | ND   | ND   |
| Arsenic (Total)         | µg/L  | 2.8  | 3.6  |
| Barium (Total)          | µg/L  | 130  | 120  |
| Beryllium (Total)       | µg/L  | ND   | ND   |
| Boron (Total)           | mg/L  | 0.14 | 0.15 |
| Bromide                 | µg/L  |      | 120  |
| Cadmium (Total)         | µg/L  | ND   | ND   |
| Calcium (Total)         | mg/L  | 71   | 67   |
| Chloride                | mg/L  | 110  | 120  |
| Chromium (Total)        | µg/L  | ND   | ND   |
| Cobalt (Total)          | µg/L  | ND   | ND   |
| Copper (Dissolved)      | µg/L  | ND   | ND   |
| Fluoride                | mg/L  | 0.4  | 0.41 |
| Gross Alpha             | pCi/L | 5.28 | 6.05 |
| Gross Beta              | pCi/L | 5.61 | 6.04 |
| Hexavalent Chromium     | µg/L  | ND   | ND   |
| Iron (Dissolved)        | mg/L  | ND   | ND   |
| Lead (Total)            | µg/L  | ND   | ND   |

| Constituent                     | Units | May   | Nov   |
|---------------------------------|-------|-------|-------|
| <b>Primary Analytes (cont.)</b> |       |       |       |
| Manganese (Total)               | µg/L  | 3.6   | 15    |
| Mercury                         | µg/L  | ND    | ND    |
| Molybdenum (Total)              | µg/L  | 5.4   | 5.9   |
| Nickel (Total)                  | µg/L  | 1.3   | ND    |
| Nitrate                         | mg/L  | ND    | ND    |
| Nitrite                         | mg/L  | ND    | ND    |
| Perchlorate                     | µg/L  | 0.64  | ND    |
| Potassium (Total)               | mg/L  | 5.5   | 5.8   |
| Radium 226/228                  | pCi/L | 0.738 | 0.385 |
| Selenium (Total)                | µg/L  | ND    | ND    |
| Silver (Total)                  | µg/L  | ND    | ND    |
| Sodium (Total)                  | mg/L  | 100   | 110   |
| Strontium (Total)               | mg/L  | 1.1   | 1.2   |
| Sulfate                         | mg/L  | 230   | 250   |
| Thallium (Total)                | µg/L  | ND    | ND    |
| Total Dissolved Solids          | mg/L  | 670   | 690   |
| Total Organic Carbon            | mg/L  | 3.3   | 3.3   |
| Total Phosphorus                | mg/L  | ND    | ND    |
| Turbidity                       | NTU   | 0.45  | 0.95  |
| Uranium                         | µg/L  | 4.6   | 4.9   |
| Vanadium (Total)                | µg/L  | 3.4   | 3.2   |
| Zinc (Total)                    | µg/L  | ND    | ND    |

# LAKE PLEASANT (TOWERS) NUTRIENTS 2025

| Constituent                  | Units | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Epilimnion</b>            |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Alkalinity                   | mg/L  |       |       |       |       | 130   | 130   | 120   | 120   | 120   | 120   |       |       |
| Ammonia Nitrogen             | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Dissolved Organic Carbon     | mg/L  |       |       |       |       | 3.5   | 3.7   | 3.6   | 3.6   | 3.8   | 3.6   |       |       |
| Kjeldahl Nitrogen            | mg/L  |       |       |       |       | 0.24  | 0.23  | 0.27  | 0.15  | 0.23  | 0.24  |       |       |
| Nitrate                      | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Nitrite                      | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Nitrate Nitrite as N         | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Orthophosphate as P          | mg/L  |       |       |       |       | ND    | ND    | 0.013 | ND    | ND    | ND    |       |       |
| Orthophosphate as PO4        | mg/L  |       |       |       |       | ND    | ND    | 0.039 | ND    | ND    | ND    |       |       |
| Secchi disk                  | ft    | 18.75 | 24.65 | 13.05 | 44.65 | 28.95 | 27.35 | 19.85 | 19.25 | 18.35 | 13.55 | 15.75 | 17.95 |
| Total Dissolved Solids (TDS) | mg/L  |       |       |       |       | 670   | 660   | 690   | 690   | 690   | 670   |       |       |
| Total Organic Carbon         | mg/L  |       |       |       |       | 3.7   | 3.6   | 3.7   | 3.6   | 3.8   | 3.6   |       |       |
| Total phosphorus as P        | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Total phosphorus as PO4      | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Total Suspended Solids (TSS) | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| <b>Metalimnion</b>           |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Alkalinity                   | mg/L  | 130   | 130   | 130   | 130   | 130   | 130   | 120   | 130   | 120   | 120   | 120   | 120   |
| Ammonia Nitrogen             | mg/L  | ND    | ND    | ND    | 0.046 | ND    |
| Dissolved Organic Carbon     | mg/L  | 3.4   | 3.5   | 3.4   | 3.4   | 3.2   | 3.5   | 3.6   | 3.2   | 3.8   | 3.6   | 3.5   | 3.4   |
| Kjeldahl Nitrogen            | mg/L  | 0.22  | 0.23  | 0.26  | 0.23  | 0.26  | 0.46  | 0.27  | 0.63  | 0.24  | 0.25  | 0.22  | 0.24  |
| Nitrate                      | mg/L  | ND    | ND    | ND    | 0.13  | ND    |
| Nitrite                      | mg/L  | ND    |
| Nitrate Nitrite as N         | mg/L  | ND    | ND    | ND    | 0.13  | ND    |
| Orthophosphate as P          | mg/L  | ND    | ND    | ND    | ND    | ND    | ND    | 0.011 | ND    | ND    | ND    | ND    | 0.018 |
| Orthophosphate as PO4        | mg/L  | ND    | ND    | ND    | ND    | ND    | ND    | 0.033 | ND    | ND    | ND    | ND    | 0.055 |
| Total Dissolved Solids (TDS) | mg/L  | 680   | 670   | 700   | 670   | 670   | 650   | 660   | 660   | 710   | 660   | 690   | 650   |
| Total Organic Carbon         | mg/L  | 3.3   | 3.4   | 3.4   | 3.4   | 3.3   | 3.6   | 3.6   | 3.3   | 3.9   | 3.6   | 3.3   | 3.4   |
| Total phosphorus as P        | mg/L  | ND    | 0.022 |
| Total Phosphorus as PO4      | mg/L  | ND    | 0.068 |
| Total Suspended Solids (TSS) | mg/L  | ND    |
| <b>Hypolimnion</b>           |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Alkalinity                   | mg/L  |       |       |       |       | 130   | 130   | 130   | 130   | 130   | 130   |       |       |
| Ammonia Nitrogen             | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Dissolved Organic Carbon     | mg/L  |       |       |       |       | 3.2   | 3.1   | 3.1   | 3     | 3.2   | 3.1   |       |       |
| Kjeldahl Nitrogen            | mg/L  |       |       |       |       | 0.29  | 0.23  | 0.28  | 0.16  | 0.21  | 0.2   |       |       |
| Nitrate                      | mg/L  |       |       |       |       | 0.19  | ND    | 0.19  | 0.23  | 0.22  | 0.15  |       |       |
| Nitrite                      | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Nitrate Nitrite as N         | mg/L  |       |       |       |       | 0.19  | ND    | 0.19  | 0.23  | 0.22  | 0.15  |       |       |
| Orthophosphate as P          | mg/L  |       |       |       |       | ND    | ND    | 0.01  | ND    | ND    | ND    |       |       |
| Orthophosphate as PO4        | mg/L  |       |       |       |       | ND    | ND    | 0.031 | ND    | ND    | ND    |       |       |

# LAKE PLEASANT (TOWERS) NUTRIENTS 2025

| Constituent                  | Units | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Total Dissolved Solids (TDS) | mg/L  |     |     |     |     | 630 | 670 | 650 | 670 | 670 | 630 |     |     |
| Total Organic Carbon         | mg/L  |     |     |     |     | 3.3 | 3.1 | 3.1 | 3.1 | 3.2 | 3.1 |     |     |
| Total phosphorus as P        | mg/L  |     |     |     |     | ND  | ND  | ND  | ND  | ND  | ND  |     |     |
| Total Phosphorus as PO4      | mg/L  |     |     |     |     | ND  | ND  | ND  | ND  | ND  | ND  |     |     |
| Total Suspended Solids (TSS) | mg/L  |     |     |     |     | ND  | ND  | ND  | ND  | ND  | ND  |     |     |

# LAKE PLEASANT (MIDDLE) NUTRIENTS 2025

| Constituent                  | Units | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Epilimnion</b>            |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Alkalinity                   | mg/L  |       |       |       |       | 130   | 130   | 120   | 120   | 120   | 120   |       |       |
| Ammonia Nitrogen             | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Dissolved Organic Carbon     | mg/L  |       |       |       |       | 3.5   | 3.6   | 3.6   | 3.6   | 3.8   | 3.5   |       |       |
| Kjeldahl Nitrogen            | mg/L  |       |       |       |       | 0.87  | 0.23  | 0.29  | 0.17  | 0.24  | 0.23  |       |       |
| Nitrate                      | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Nitrite                      | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Nitrate Nitrite as N         | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Orthophosphate as P          | mg/L  |       |       |       |       | ND    | ND    | 0.012 | 0.01  | ND    | ND    |       |       |
| Orthophosphate as PO4        | mg/L  |       |       |       |       | ND    | ND    | 0.037 | 0.031 | ND    | ND    |       |       |
| Secchi disk                  | ft    | 16.75 | 23.35 | 36.45 | 40.75 | 29.95 | 21.75 | 21.05 | 19.05 | 19.05 | 12.45 | 14.35 | 14.25 |
| Total Dissolved Solids (TDS) | mg/L  |       |       |       |       | 660   | 660   | 690   | 700   | 690   | 690   |       |       |
| Total Organic Carbon         | mg/L  |       |       |       |       | 3.6   | 3.7   | 3.6   | 3.5   | 3.9   | 3.5   |       |       |
| Total phosphorus as P        | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Total phosphorus as PO4      | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Total Suspended Solids (TSS) | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| <b>Metalimnion</b>           |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Alkalinity                   | mg/L  | 130   | 110   | 130   | 130   | 130   | 130   | 130   | 120   | 120   | 120   | 130   | 120   |
| Ammonia Nitrogen             | mg/L  | ND    | 0.056 | ND    |
| Dissolved Organic Carbon     | mg/L  | 3.4   | 3.5   | 3.5   | 3.4   | 3.3   | 3.2   | 3.5   | 3.3   | 3.7   | 3.6   | 3.4   | 3.4   |
| Kjeldahl Nitrogen            | mg/L  | 0.2   | 0.22  | 0.25  | 0.22  | 0.38  | 0.24  | 0.31  | 0.13  | 0.54  | 0.22  | 0.24  | 0.2   |
| Nitrate                      | mg/L  | ND    | ND    | ND    | 0.12  | 0.17  | ND    |
| Nitrite                      | mg/L  | ND    |
| Nitrate Nitrite as N         | mg/L  | ND    | ND    | ND    | 0.12  | 0.17  | ND    |
| Orthophosphate as P          | mg/L  | ND    | 0.016 | ND    | ND    | ND    | ND    | 0.015 | 0.012 | ND    | ND    | ND    | 0.016 |
| Orthophosphate as PO4        | mg/L  | ND    | 0.049 | ND    | ND    | ND    | ND    | 0.045 | 0.037 | ND    | ND    | ND    | 0.049 |
| Total Dissolved Solids (TDS) | mg/L  | 670   | 670   | 690   | 680   | 660   | 640   | 650   | 670   | 690   | 670   | 700   | 660   |
| Total Organic Carbon         | mg/L  | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 3.2   | 3.4   | 3.3   | 3.8   | 3.6   | 3.5   | 3.3   |
| Total phosphorus as P        | mg/L  | ND    | 0.021 |
| Total Phosphorus as PO4      | mg/L  | ND    | 0.065 |
| Total Suspended Solids (TSS) | mg/L  | ND    |
| <b>Hypolimnion</b>           |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Alkalinity                   | mg/L  |       |       |       |       | 130   | 130   | 130   | 130   | 130   | 130   |       |       |
| Ammonia Nitrogen             | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Dissolved Organic Carbon     | mg/L  |       |       |       |       | 3.4   | 3.1   | 3     | 3     | 3.3   | 3.1   |       |       |
| Kjeldahl Nitrogen            | mg/L  |       |       |       |       | 0.34  | 0.24  | 0.27  | 0.37  | 0.23  | 0.18  |       |       |
| Nitrate                      | mg/L  |       |       |       |       | 0.18  | ND    | 0.2   | 0.2   | 0.15  | 0.16  |       |       |
| Nitrite                      | mg/L  |       |       |       |       | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Nitrate Nitrite as N         | mg/L  |       |       |       |       | 0.18  | ND    | 0.2   | 0.2   | 0.15  | 0.16  |       |       |
| Orthophosphate as P          | mg/L  |       |       |       |       | ND    | ND    | 0.013 | ND    | ND    | ND    |       |       |
| Orthophosphate as PO4        | mg/L  |       |       |       |       | ND    | ND    | 0.039 | ND    | ND    | ND    |       |       |

# LAKE PLEASANT (MIDDLE) NUTRIENTS 2025

| Constituent                  | Units | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Hypolimnion (cont)</b>    |       |     |     |     |     |     |     |     |     |     |     |     |     |
| Total Dissolved Solids (TDS) | mg/L  |     |     |     |     | 650 | 660 | 680 | 670 | 670 | 640 |     |     |
| Total Organic Carbon         | mg/L  |     |     |     |     | 3.3 | 3.1 | 3.1 | 3   | 3.2 | 3.1 |     |     |
| Total phosphorus as P        | mg/L  |     |     |     |     | ND  | ND  | ND  | ND  | ND  | ND  |     |     |
| Total Phosphorus as PO4      | mg/L  |     |     |     |     | ND  | ND  | ND  | ND  | ND  | ND  |     |     |
| Total Suspended Solids (TSS) | mg/L  |     |     |     |     | ND  | ND  | ND  | ND  | ND  | ND  |     |     |

# LAKE PLEASANT (UPPER) NUTRIENTS 2025

| Constituent                  | Units | Jan   | Feb   | Mar   | Apr  | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
|------------------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Epilimnion</b>            |       |       |       |       |      |       |       |       |       |       |       |       |       |
| Alkalinity                   | mg/L  |       |       |       |      | 130   | 130   | 120   | 120   | 120   | 120   |       |       |
| Ammonia Nitrogen             | mg/L  |       |       |       |      | ND    | ND    | ND    | ND    | ND    | 0.045 |       |       |
| Dissolved Organic Carbon     | mg/L  |       |       |       |      | 3.6   | 3.5   | 3.6   | 3.5   | 3.7   | 3.6   |       |       |
| Kjeldahl Nitrogen            | mg/L  |       |       |       |      | 0.23  | 0.29  | 0.29  | 0.21  | 0.31  | 0.29  |       |       |
| Nitrate                      | mg/L  |       |       |       |      | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Nitrite                      | mg/L  |       |       |       |      | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Nitrate Nitrite as N         | mg/L  |       |       |       |      | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Orthophosphate as P          | mg/L  |       |       |       |      | ND    | ND    | 0.013 | 0.011 | ND    | ND    |       |       |
| Orthophosphate as PO4        | mg/L  |       |       |       |      | ND    | ND    | 0.041 | 0.033 | ND    | ND    |       |       |
| Secchi disk                  | ft    | 13.75 | 23.95 | 32.85 |      | 29.75 | 29.45 | 18.75 | 19.35 | 17.05 | 13.45 | 11.75 | 12.75 |
| Total Dissolved Solids (TDS) | mg/L  |       |       |       |      | 650   | 670   | 700   | 710   | 680   | 680   |       |       |
| Total Organic Carbon         | mg/L  |       |       |       |      | 3.6   | 3.7   | 3.7   | 3.6   | 3.7   | 3.6   |       |       |
| Total phosphorus as P        | mg/L  |       |       |       |      | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Total phosphorus as PO4      | mg/L  |       |       |       |      | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Total Suspended Solids (TSS) | mg/L  |       |       |       |      | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| <b>Metalimnion</b>           |       |       |       |       |      |       |       |       |       |       |       |       |       |
| Alkalinity                   | mg/L  | 130   | 130   | 130   | 130  | 130   | 130   | 130   | 120   | 120   | 120   | 130   | 120   |
| Ammonia Nitrogen             | mg/L  | ND    | ND    | ND    | ND   | ND    | ND    | ND    | 0.04  | ND    | 0.07  | 0.034 | ND    |
| Dissolved Organic Carbon     | mg/L  | 3.4   | 3.4   | 3.4   | 3.4  | 3.3   | 3.3   | 3.3   | 3.4   | 3.7   | 3.6   | 3.4   | 3.4   |
| Kjeldahl Nitrogen            | mg/L  | 0.3   | 0.24  | 0.26  | 0.2  | 0.24  | 0.24  | 0.27  | 0.15  | 0.27  | 0.32  | 0.23  | 0.19  |
| Nitrate                      | mg/L  | ND    | ND    | ND    | 0.14 | 0.17  | ND    | 0.13  | ND    | ND    | ND    | ND    | ND    |
| Nitrite                      | mg/L  | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Nitrate Nitrite as N         | mg/L  | ND    | ND    | ND    | 0.14 | 0.17  | ND    | 0.13  | ND    | ND    | ND    | ND    | ND    |
| Orthophosphate as P          | mg/L  | ND    | 0.036 | ND    | ND   | ND    | ND    | 0.011 | ND    | ND    | ND    | ND    | 0.018 |
| Orthophosphate as PO4        | mg/L  | ND    | 0.11  | ND    | ND   | ND    | ND    | 0.033 | ND    | ND    | ND    | ND    | 0.055 |
| Total Dissolved Solids (TDS) | mg/L  | 690   | 660   | 670   | 670  | 660   | 670   | 670   | 680   | 680   | 680   | 690   | 650   |
| Total Organic Carbon         | mg/L  | 3.3   | 3.4   | 3.5   | 3.4  | 3.4   | 3.2   | 3.2   | 3.4   | 3.6   | 3.5   | 3.5   | 3.3   |
| Total phosphorus as P        | mg/L  | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    | ND    | ND    | 0.02  |
| Total Phosphorus as PO4      | mg/L  | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    | ND    | ND    | 0.062 |
| Total Suspended Solids (TSS) | mg/L  | ND    | ND    | ND    | ND   | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| <b>Hypolimnion</b>           |       |       |       |       |      |       |       |       |       |       |       |       |       |
| Alkalinity                   | mg/L  |       |       |       |      | 130   | 130   | 130   | 130   | 130   | 130   |       |       |
| Ammonia Nitrogen             | mg/L  |       |       |       |      | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Dissolved Organic Carbon     | mg/L  |       |       |       |      | 3.3   | 3.1   | 3.1   | 3.1   | 3.2   | 3.1   |       |       |
| Kjeldahl Nitrogen            | mg/L  |       |       |       |      | 0.22  | 0.24  | 0.28  | 0.35  | 0.26  | 0.18  |       |       |
| Nitrate                      | mg/L  |       |       |       |      | 0.17  | ND    | 0.21  | 0.21  | 0.13  | 0.13  |       |       |
| Nitrite                      | mg/L  |       |       |       |      | ND    | ND    | ND    | ND    | ND    | ND    |       |       |
| Nitrate Nitrite as N         | mg/L  |       |       |       |      | 0.17  | ND    | 0.21  | 0.21  | 0.13  | 0.13  |       |       |
| Orthophosphate as P          | mg/L  |       |       |       |      | ND    | ND    | 0.013 | ND    | ND    | ND    |       |       |
| Orthophosphate as PO4        | mg/L  |       |       |       |      | ND    | ND    | 0.039 | ND    | ND    | ND    |       |       |

# LAKE PLEASANT (UPPER) NUTRIENTS 2025

| Constituent                  | Units | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Hypolimnion (cont)</b>    |       |     |     |     |     |     |     |     |     |     |     |     |     |
| Total Dissolved Solids (TDS) | mg/L  |     |     |     |     | 650 | 660 | 670 | 660 | 640 | 660 |     |     |
| Total Organic Carbon         | mg/L  |     |     |     |     | 3.4 | 3.2 | 3   | 3   | 3.1 | 3.1 |     |     |
| Total phosphorus as P        | mg/L  |     |     |     |     | ND  | ND  | ND  | ND  | ND  | ND  |     |     |
| Total Phosphorus as PO4      | mg/L  |     |     |     |     | ND  | ND  | ND  | ND  | ND  | ND  |     |     |
| Total Suspended Solids (TSS) | mg/L  |     |     |     |     | ND  | ND  | ND  | ND  | ND  | ND  |     |     |

# AGUA FRIA RIVER 2025

| Constituent             | Units | Jan | Feb | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
|-------------------------|-------|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Primary Analytes</b> |       |     |     |     |       |       |       |       |       |       |       |       |       |
| Alkalinity              | mg/L  |     |     |     | 130   | 130   | 130   | 120   | 130   | 120   | 120   | 130   | 120   |
| Aluminum (Dissolved)    | mg/L  |     |     |     | ND    |
| Aluminum (Total)        | µg/L  |     |     |     | ND    | ND    | ND    | ND    | ND    | ND    | 51    | 160   | 37    |
| Ammonia Nitrogen        | mg/L  |     |     |     | ND    | 0.049 | 0.037 |
| Antimony (Total)        | µg/L  |     |     |     | ND    |
| Arsenic (Total)         | µg/L  |     |     |     | 3.4   | 2.8   | 3.4   | 4.1   | 4.1   | 3.8   | 3.9   | 3.5   | 3.6   |
| Barium (Total)          | µg/L  |     |     |     | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 120   |
| Beryllium (Total)       | µg/L  |     |     |     | ND    |
| Boron (Total)           | mg/L  |     |     |     | 0.16  | 0.15  | 0.15  | 0.15  | 0.15  | 0.16  | 0.16  | 0.16  | 0.16  |
| Bromide                 | µg/L  |     |     |     | 110   | 110   | 110   | 110   | 120   | 120   | 120   | 120   | 120   |
| Cadmium (Total)         | µg/L  |     |     |     | ND    |
| Calcium (Total)         | mg/L  |     |     |     | 70    | 72    | 76    | 67    | 70    | 69    | 67    | 72    | 68    |
| Chloride                | mg/L  |     |     |     | 120   | 120   | 110   | 110   | 120   | 120   | 120   | 120   | 110   |
| Chromium (Total)        | µg/L  |     |     |     | ND    |
| Cobalt (Total)          | µg/L  |     |     |     | ND    |
| Copper (Dissolved)      | µg/L  |     |     |     | ND    |
| Fluoride                | mg/L  |     |     |     | 0.42  | 0.41  | 0.4   | 0.4   | 0.39  | 0.4   | 0.41  | 0.41  | 0.41  |
| Gross Alpha             | pCi/L |     |     |     | 1.79  | 3.64  | 1.97  | 5.11  | 4.84  | 5.21  | 5.66  | 3.14  | 1.73  |
| Gross Beta              | pCi/L |     |     |     | 3.2   | 4.81  | 4.78  | 4.69  | 5.1   | 4.42  | 6.37  | 6.15  | 6.32  |
| Hexavalent Chromium     | µg/L  |     |     |     | ND    | ND    | 0.035 | ND    | 0.055 | 0.053 | 0.026 | ND    | ND    |
| Iron (Dissolved)        | mg/L  |     |     |     | ND    |
| Lead (Total)            | µg/L  |     |     |     | ND    |
| Manganese (Total)       | µg/L  |     |     |     | 2     | 2.3   | ND    | 6     | 17    | 29    | 10    | 42    | 6.6   |
| Mercury                 | µg/L  |     |     |     | ND    |
| Molybdenum (Total)      | µg/L  |     |     |     | 5.6   | 5.4   | 5.8   | 5.8   | 5.9   | 5.8   | 6     | 5.8   | 5.7   |
| Nickel (Total)          | µg/L  |     |     |     | 1.5   | 1.2   | 1.7   | 2     | 1.7   | 1.6   | 1.6   | ND    | ND    |
| Nitrate                 | mg/L  |     |     |     | ND    |
| Nitrite                 | mg/L  |     |     |     | ND    |
| Perchlorate             | µg/L  |     |     |     | ND    | 0.58  | 0.61  | 0.55  | ND    | ND    | ND    | ND    | ND    |
| Potassium (Total)       | mg/L  |     |     |     | 5.8   | 5.6   | 5.7   | 5.6   | 6     | 5.9   | 6.1   | 6.3   | 5.9   |
| Radium 226/228          | pCi/L |     |     |     | 0.494 | 0.195 | 0.238 | 0.195 | 0.697 | 0.918 | 0.792 | 0.058 | 0.021 |
| Selenium (Total)        | µg/L  |     |     |     | ND    |
| Silver (Total)          | µg/L  |     |     |     | ND    |
| Sodium (Total)          | mg/L  |     |     |     | 110   | 100   | 110   | 100   | 110   | 110   | 110   | 110   | 110   |
| Strontium (Total)       | mg/L  |     |     |     | 1.1   | 1.1   | 1.2   | 1.3   | 1.2   | 1.1   | 1.2   | 1.2   | 1.2   |
| Sulfate                 | mg/L  |     |     |     | 250   | 250   | 240   | 230   | 250   | 260   | 260   | 250   | 250   |
| Thallium (Total)        | µg/L  |     |     |     | ND    |
| Total Dissolved Solids  | mg/L  |     |     |     | 670   | 660   | 640   | 660   | 720   | 690   | 660   | 670   | 660   |
| Total Organic Carbon    | mg/L  |     |     |     | 3.3   | 3.4   | 3.4   | 3.4   | 3.3   | 3.3   | 3.5   | 3.4   | 3.5   |
| Total Phosphorus        | mg/L  |     |     |     | ND    |

# AGUA FRIA RIVER 2025 (CONTINUED)

| Constituent      | Units | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug  | Sep | Oct | Nov | Dec |
|------------------|-------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|
| Turbidity        | NTU   |     |     |     | 0.3 | 0.4 | 0.7 | 0.7 | 0.75 | 1.2 | 1.9 | 3.6 | 1.6 |
| Uranium          | µg/L  |     |     |     | 4.8 | 4.7 | 4.6 | 4.7 | 4.9  | 4.7 | 4.9 | 4.8 | 4.7 |
| Vanadium (Total) | µg/L  |     |     |     | 2.5 | 3   | 2.5 | 2.7 | 3.5  | 3.6 | 3.6 | 3.7 | 3.4 |
| Zinc (Total)     | µg/L  |     |     |     | ND  | ND  | ND  | ND  | ND   | ND  | ND  | ND  | ND  |