



Central Valley Regional Water Quality Control Board

30 January 2023

Glenn Bielefelt
Sac Reg Wastewater Treatment Plant
8521 Laguna Station Rd
Elk Grove, CA 95758

Christoph Dobson
Sac Reg County Sanitation District
10060 Goethe Rd
Sacramento, CA 95827

CERTIFIED MAIL
7022 2410 0001 5093 5311

CERTIFIED MAIL
7022 2410 0001 5093 5328

NOTICE OF APPLICABILITY

**WATER QUALITY ORDER 2016-0068-DDW
WATER RECLAMATION REQUIREMENTS FOR RECYCLED WATER USE
SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT
URBAN RECYCLED WATER PROGRAM
SACRAMENTO COUNTY**

Sacramento Regional County Sanitation District (Regional San) submitted the October 2022 Final Report of Waste Discharge (ROWD) for the Urban Recycled Water Systems, for regulatory coverage under Water Quality Order 2016-0068-DDW, Water Reclamation Requirements for Recycled Water Use (General Order). The ROWD included a previously approved *Title 22 Engineering Report for the Production, Distribution, and Use of the Recycled Water*, dated July 2018, and its subsequent *First Amendment* (Amendment), dated September 2022.

On 7 June 2016, the State Water Resources Control Board (State Water Board) adopted the General Order to regulate the use of recycled water for all Title 22 uses except groundwater recharge. The General Order delegates responsibility for administering water recycling programs to a designated Administrator. Based on the information provided in the ROWD, July 2018 Title 22 Engineering Report, and September 2022 Title 22 Engineering Report Amendment, Regional San's Urban Recycled Water Program satisfies the general and specific conditions of the General Order. Therefore, this serves as formal notice that General Order WQ 2016-0068-DDW is applicable and Regional San will act as the Administrator of the Recycled Water Program. You are hereby assigned enrollee number **WQ-2016-0068-DDW-R5023**. Please include this number on all future correspondence related to this discharge.

MARK BRADFORD, CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

WASTEWATER TREATMENT FACILITY

Regional San (Discharger) owns and operates the Sacramento Regional Wastewater Treatment Plant (SRWTP), which produces disinfected tertiary treated effluent for discharge to the Sacramento River in compliance with the National Pollutant Discharge Elimination System (NPDES) CA0077682 Order R5-2021-0019-01. The SRWTP is located at 8521 Laguna Station Road in the City of Elk Grove, Sacramento County. The treatment process includes influent screening, grit and scum removal, primary sedimentation, biological nutrient removal, secondary sedimentation, secondary effluent screening, coagulation and polymer addition, granular media filtration, and disinfection with sodium hypochlorite. Recent treatment upgrades, as part of the SRWTP's EchoWater Project, included the new biological nutrient removal (BNR) facility and the new tertiary treatment facility (TTF). The new TTF will supply Title 22 equivalent recycled water. A recycled water storage tank with a capacity of 2.18 million gallons (MG) is located at the SRWTP. Additional storage tanks may be constructed to accommodate the demand of recycled water.

The SRWTP serves the Cities of Sacramento, Folsom, and West Sacramento, the communities of Courtland and Walnut Grove, and the Sacramento Area Sewer District (SacSewer). The SacSewer service area includes the Cities of Elk Grove, Rancho Cordova, Citrus Height, as well as portions of the unincorporated areas of Sacramento County.

Historically, the Discharger has operated a small-scale tertiary treatment water reclamation facility (WRF) that consisted of chemical conditioning, coagulation, flocculation, filtration, and chlorination to produce recycled water for non-potable uses in accordance with Master Water Reclamation Permit Order No. 97-146. The WRF is being replaced with the newly completed TTF, which provides treatment and disinfection of the secondary effluent from the new BNR facility.

This NOA is for the reuse of disinfected tertiary treated recycled water produced at the new SRWTP's TTF for non-potable reuse by existing and future users as described in the July 2018 Title 22 Engineering Report and September 2022 Title 22 Engineering Report Amendment. The existing Master Reclamation Permit Order No. 97-146 will remain active until the SRWTP's TTF is fully functional and reliably producing Title 22 equivalent recycled water. Once Regional San has completely transitioned from the WRF to the TTF, Order No. 97-146 will be rescinded at a future Water Board meeting.

RECYCLED WATER APPLICATION

Regional San administers a Recycled Water Program for the distribution of disinfected tertiary recycled water for non-potable reuse. Regional San serves as the Producer of the recycled water and the Administrator. As the Administrator, Regional San is responsible for the administration of the Recycled Water Program authorized pursuant to this General Order, including the requirements of Title 22.

Recycled water users must obtain a use permit from the Administrator for recycled water use. As appropriate, obtaining a permit requires completing an application (use application or application for recycled water service), submitting plans if applicable for review and approval, and receiving training. Training covers the approved Title 22 uses, use requirements, prohibited uses and any additional training specific to the distribution and use of recycled water. Users are required to comply with the County of Sacramento Rules and Regulations for Recycled Water Use and Distribution; a User Reclamation Plan, which identifies the parties, the responsibility of each party, and site information related to the use of recycled water; and Title 22 requirements. Regional San maintains records of outside entities who receive training and recycled water for their own use.

As part of the Recycled Water Program, Regional San also administers a Recycled Water Fill Station Program that allows residential and commercial users to pick up and haul disinfected tertiary treated wastewater from the designated fill station located at SRWTP. This program is made available to recycled water users within the Regional San's service areas. Users are required to obtain a Recycled Water Use Permit from Regional San. Obtaining a use permit requires completing a Use Application and receiving training coordinated by Regional San.

Portions of the Recycled Water Program administration may be delegated by the Discharger to others including, but not limiting to, the Sacramento County Water Agency (SCWA) or Sacramento County Environmental Management Department (EMD) through interagency agreements with the roles and responsibilities varying in each use area. A recycled water service map is included as Attachment A.

Current recycled water use applications include the following:

1. SRWTP - process needs, landscaping, dust control, and construction (soil conditioning, compaction, etc.);
2. Via a Recycled Water Fill Station located at SRWTP for residential and commercial customers;
3. Campbell Power Plant (formerly known as SPA Cogen Facility) - industrial use at the cooling towers; and
4. City of Elk Grove Phase I (Laguna West, Lakeside, and Stonelake communities) - landscape irrigation at parks, schools, streetscapes, and commercial and multifamily facilities within Elk Grove.

Future planned recycled water use applications include but are not limited to the following:

1. SRWTP (Nicolaus Dairy) - landscape, garden, and agricultural use and future constructed wetland;
2. SRWTP - agricultural irrigation of Bufferlands north of Morrison Creek;

3. City of Elk Grove Phase II (East Franklin and Laguna Ridge communities) - landscape irrigation to parks, schools, streetscapes, golf courses, and commercial and multifamily facilities;
4. City of Elk Grove Southeast Policy Area (SEPA) – landscape irrigation to parks, schools, golf courses, and streetscapes, and commercial and multifamily facilities; and
5. City of Sacramento – landscape irrigation to parks, schools, golf courses, and streetscapes, and commercial and multifamily facilities; and
6. Satellite Recycled Water Fill Station (Intersection of 25th and 24th Street in Sacramento) – City of Sacramento Department of Utilities, municipal, and commercial users

Any changes to the Recycled Water Program, including use areas outside of the Discharger's recycled water service area or recycled water uses not previously specified in the ROWD, July 2018 Title 22 Engineering Report, or September 2022 Title 22 Engineering Amendment may require submittal of a new ROWD and revised Title 22 report for review. Recycled water use for constructed wetlands at the Nicolaus Dairy requires Central Valley Water Board notification and submittal of a ROWD.

DIVISION OF DRINKING WATER CONSIDERATION AND REQUIREMENTS

The Title 22 Engineering Report for the Production, Distribution, and Use of Recycled Water dated July 2018 was conditional approved by State Water Board Division of Drinking Water (DDW) as transmitted in a letter dated 5 October 2018 with the condition that all future changes shall be incorporated in a revised Title 22 report for review and comment by DDW.

Additionally, DDW's acceptance of the July 2018 Title 22 Report does not include acceptance of the following:

1. Future regional plans for the Harvest Water Program (formerly known as the South Sacramento County Agriculture and Habitat Lands Recycled Water Program or "South County Ag"); and
2. Dual plumbed uses (e.g. recycled water for toilet flushing or outdoor landscape irrigation at individual residences).

The September 2022 Title 22 Engineering Report Amendment has been conditionally accepted by DDW as provided in a letter dated 19 October 2022. The Amendment addresses changes to the use areas included in the July 2018 Title 22 Engineering Report to add a new use area known as the Elk Grove Southeast Policy Area (SEPA). The Amendment does not propose changes to the production, distribution, and use types for the recycled water. DDW maintains all the recommendations previously transmitted via letters dated 19 June 2018 and 5 October 2018.

WATER RECYCLING USE REQUIREMENTS

1. The production, distribution, and use of recycled water shall be managed in accordance with the applicable NPDES permit (CA0077682), Title 22 Engineering Report approved by DDW, ROWD, and this NOA.
2. Application of recycled water shall be limited to the uses described in the Title 22 Engineering Report approved by DDW, ROWD, and this NOA.
3. The use of recycled water shall not cause pollution or nuisance, as defined by Water Code section 13050.
4. The recycled water shall be disinfected tertiary recycled water as defined by Title 22, section 60301.230.
5. The Administrator shall promptly notify the Central Valley Water Board of any recycled water spills or unauthorized uses in accordance with Water Code Section 13529.2.

GENERAL INFORMATION AND REQUIREMENTS

The Administrator shall comply with the Specifications, Water Recycling Administration Requirements, and General Provisions of the General Order. Please review this NOA carefully to ensure that it completely and accurately reflects the proposed Recycled Water Program. If the Administrator violates the terms or conditions, the Central Valley Water Board may take enforcement action, including the assessment of an administrative civil liability. Failure to abide by the conditions of the General Order, including MRP WQ-2016-0068-DDW-R5023, and this letter authorizing applicability could result in enforcement actions, as authorized by provision of the California Water Code.

The required annual fee specified in the annual billing from the State Water Resources Control Board shall be paid until this NOA is officially terminated. The Administrator must submit in writing a Notice of Termination once the Recycled Water Program has ended.

SALT AND NITRATE CONTROL PROGRAMS

In May 2018, the Central Valley Water Board approved new Salt and Nitrate Control Programs. The Salt Control Program was developed to address salt accumulation issues in surface water and groundwater throughout the Central Valley. Regional San was issued CV-SALTS ID: 2428 for their recycled water use activities in accordance with Master Reclamation Order 97-146. Regional San selected Pathway Option 2, the Alternative Salinity Permitting Approach for participation in the Prioritization and Optimization Study (P&O Study). For the Nitrate Control Program, the recycled water use areas fall within the South American Subbasin, which is a Non-Prioritized Basin.

DOCUMENT SUBMITTALS

All regulatory documents, submissions, materials, data, monitoring reports, and correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to: centralvalleysacramento@waterboards.ca.gov. Documents that are 50MB or larger should be transferred to a disk and mailed to:

Central Valley Regional Water Quality Control Board
ECM Mailroom
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670

To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any email used to transmit documents to this office:

Program: Non-15 Compliance
Facility Name: Sacramento Regional WWTP
Order: WQ-2016-0068-DDW-R5023
Place ID: 254981

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Resources Control Board to review the action in accordance with California Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Resources Control Board must receive the petition by 5:00 p.m., 30 days after the date of this NOA, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Resources Control Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions are available to the public on the internet at the [Water Boards Water Quality Petitions webpage](https://www.waterboards.ca.gov/public_notices/petitions/water_quality) (https://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided upon request.

Now that the Notice of Applicability has been issued, the Water Board's Compliance and Enforcement section will take over management of your case. Guy Childs is your new point of contact for any questions regarding compliance with the General Order. If you find it necessary to make a change to your permitted operations, Guy will direct you to the appropriate Permitting staff. You may contact Guy at (916) 464-4648 or at guy.childs@waterboards.ca.gov.

for Patrick Pulupa
Executive Officer

Attachment:

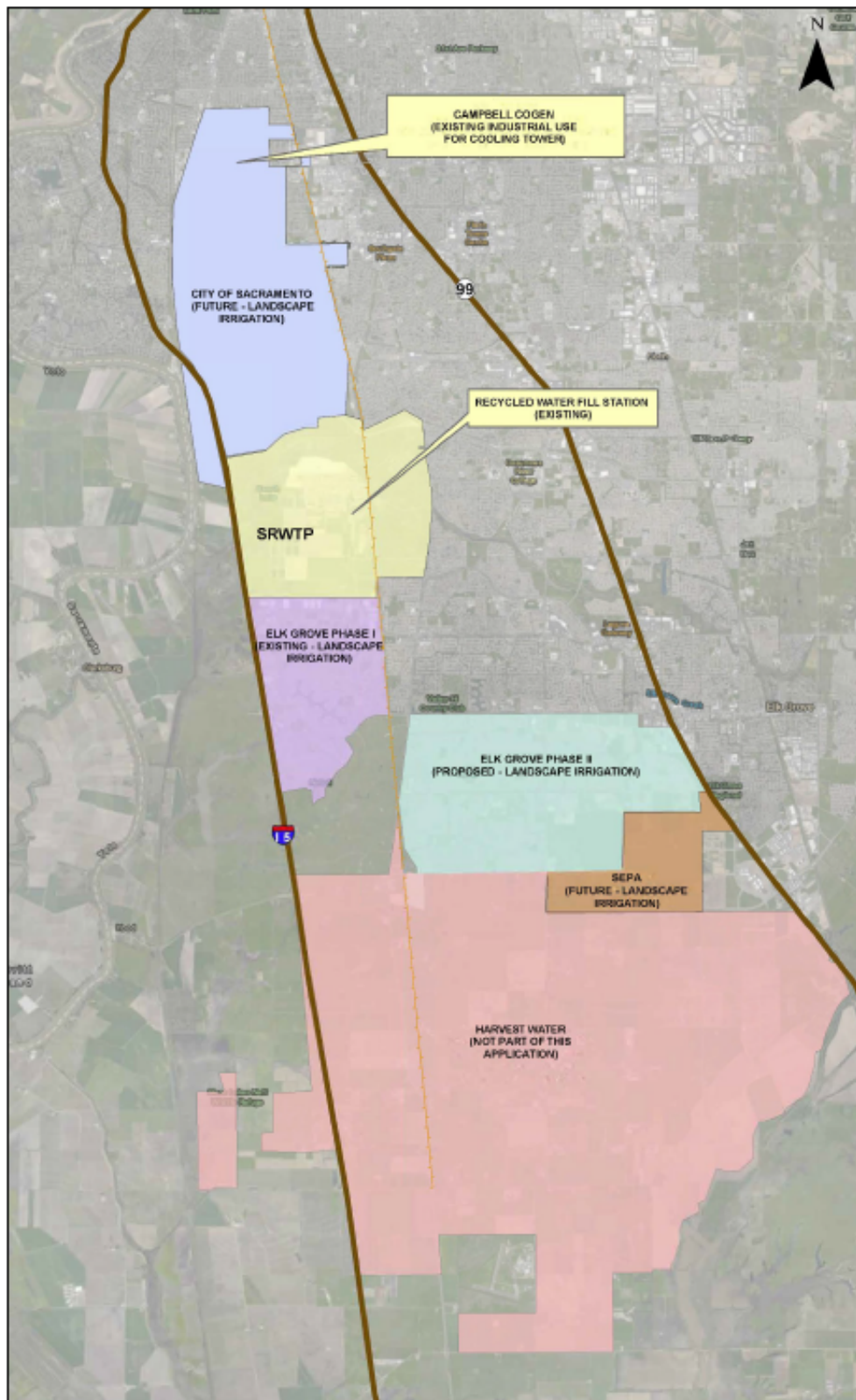
Attachment A: Recycled Water Service Map

Enclosures:

Monitoring and Reporting Program WQ 2016-0068-DDW-R5023
Staff Memorandum

Cc via email:

Rachel Gillis, Sacramento County Environmental Management Department
Gayleen Darting, Regional San
Lakshmi Jayaprakash, Regional San
David Ocenosak, Regional San
Jose Ramirez, Regional San
Mike Huot, Regional San
Ginachi Amah, State Water Resources Control Board, Division of Drinking Water
Aide Ortiz, State Water Resources Control Board, Division of Drinking Water
Guy Childs, Central Valley Water Quality Control Board
Howard Hold, Central Valley Water Quality Control Board



Source:
ROWD, JULY 2022

RECYCLED WATER SERVICE MAP
SACRAMENTO REGIONAL SANITATION DISTRICT
URBAN RECYCLED WATER PROGRAM

Approximate
Scale:
Not to Scale

TO: Rob Busby
Supervising Geologist

FROM: Scott Armstrong
Senior Engineering Geologist
P.G. #6787, C.H.G. #620

Lani Andam
Water Resource Control Engineer

DATE: 19 December 2022

APPLICABILITY OF COVERAGE UNDER STATE WATER RESOURCES CONTROL BOARD ORDER WQ 2016-0068-DDW, SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT, URBAN RECYCLED WATER PROGRAM; SACRAMENTO COUNTY

Central Valley Water Board staff reviewed the Report of Waste Discharge (ROWD) dated October 2022, for regulatory coverage under Water Quality Order WQ 2016-0068-DDW, Water Reclamation Requirements for Recycled Water Use (hereafter, General Order). The ROWD included a previously approved *Title 22 Engineering Report of the Production, Distribution, and Use of the Recycled Water* dated July 2018 and the *Title 22 Engineering Report (July 2018) for the Production, Distribution and Use of Recycled Water First Amendment* (Amendment) dated September 2022. This memorandum provides a summary of Central Valley Water Board staff's review of the ROWD and the applicability that the proposed recycled water program is eligible for enrollment under the General Order.

BACKGROUND INFORMATION

Regional San (Discharger) owns and operates the Sacramento Regional Wastewater Treatment Plant (SRWTP), which provides tertiary treatment and disinfection. Treated effluent is discharged to the Sacramento River in compliance with National Pollutant Discharge Elimination System (NPDES) CA0077682, Order R5-2021-0019-01. Recent treatment upgrades as part of the EchoWater Project include the new biological nutrient removal (BNR) facility and the new tertiary treatment facility (TTF). The TTF has the capacity to produce up to 217 million gallons per day (mgd) of recycled water. However, the Discharger will supply up to 10 mgd of recycled water in accordance with their change petition to reduce the discharge of treated wastewater from the SRWTP into the Sacramento River and direct that water for Regional San's recycled water program.

Historically, the Discharger has operated a 5 mgd tertiary treatment water reclamation facility (WRF) that consisted of chemical conditioning, coagulation, flocculation, filtration, and chlorination to produce recycled water for non-potable uses in accordance with Master Water Reclamation Permit Order No. 97-146. The Master Reclamation Permit, allowed for the distribution and use of recycled water for the following use applications:

1. SRWTP - process needs, landscaping, dust control, and construction (soil conditioning, compaction, etc).

2. Via a Recycled Water Fill Station located at SRWTP for residential and commercial customers during the dry season.
3. Campbell Power Plant (formerly SPA Cogen Facility) – industrial use at the cooling towers.
4. City of Elk Grove Phase I (Laguna West, Lakeside, and Stonelake communities) - landscape irrigation at parks, schools, streetscapes, and commercial and multifamily facilities within Elk Grove.

The new TTF, which provides treatment and disinfection of the secondary effluent from the new BNR facility, will replace the existing WRF, and supply all non-potable reuse water to existing and future users as described in the Notice of Applicability, the July 2018 Title 22 Engineering Report, and September 2022 Title 22 Engineering Report Amendment. Once the TTF is fully functional and reliably producing Title 22 equivalent recycled water, and Regional San has completely transitioned from the WRF to the TTF, Master Reclamation Permit Order No. 97-146 will be rescinded at a future Water Board meeting and the WRF will be decommissioned. Decommissioning of the WRF is anticipated between early Spring to early Summer of 2023.

Future planned recycled water use includes the following:

1. SRWTP (Nicolaus Dairy) - landscape, garden, and agricultural use and future constructed wetland;
2. SRWTP - agricultural irrigation of Bufferlands north of Morrison Creek;
3. City of Elk Grove Phase II (East Franklin and Laguna Ridge communities) - landscape irrigation to parks, schools, streetscapes, golf courses, and commercial and multifamily facilities;
4. City of Elk Grove Southeast Policy Area (SEPA) – landscape irrigation to parks, schools, golf courses, and streetscapes, and commercial and multifamily facilities;
5. City of Sacramento – landscape irrigation to parks, schools, golf courses, and streetscapes, and commercial and multifamily facilities; and
6. Satellite Recycled Water Fill Station (Intersection of 25th and 24th Street in Sacramento) – City of Sacramento Department of Utilities, municipal, and commercial users.

RECYCLED WATER PROGRAM DESCRIPTION

The Discharger will assume the role and responsibility of the “Administrator” under the General Order and will issue permits to recycled water users; train users on proper recycled water handling; maintain records; conduct periodic oversight and inspections; monitor recycled water quality; and submit reports to the Central Valley Water Board. Portions of the Recycled Water Program administration may be delegated by the Discharger to others including, but not limiting to the Sacramento County Water Agency (SCWA) or Sacramento County Environmental Management Department (EMD) through interagency agreements with the roles and responsibilities varying in each use area as shown in the table below. Roles and responsibilities may change as the

demand for recycled water increases. The Discharger is the sole Producer and also serves as one of the Distributors of recycled water under the General Order.

Table 1 - Roles and Responsibilities of Recycled Water Program

Use Area	Production	Transmission	Distribution	Onsite Connection	Inspections	Compliance/ Enforcement	Permit Issuance	Program Administration
SRWTP	Regional San	Regional San	Regional San	Regional San	Regional San	Regional San & EMD	Regional San	Regional San
City of Elk Grove Phase I	Regional San	SCWA	SCWA	SCWA	SCWA	SCWA & EMD	SCWA	Regional San
City of Elk Grove Phase II	Regional San	Regional San & SCWA	SCWA	SCWA	SCWA	SCWA & EMD	SCWA	Regional San
SEPA	Regional San	SCWA	SCWA	SCWA	SCWA	SCWA & EMD	SCWA	Regional San
City of Sacramento (including Satellite Fill Station Users)	Regional San	Regional San	Regional San	Regional San	Regional San	Regional San & EMD	Regional San	Regional San
On-site Fill Station Users	Regional San	Regional San	Regional San	Regional San	Regional San	Regional San & EMD	Regional San	Regional San

The ROWD provided a description of the Discharger’s Recycled Water Program, including:

- Cross-Connection Control Program,
- Monitoring and Reporting Program,
- User Inspection Program,
- Operations and Maintenance Program,
- Compliance Program,
- Staff and User Training, and
- Emergency Procedures and Notification

Information regarding transporting and hauling of recycled water was provided in the Recycled Water Fill Station Program included as Appendix 12 of the ROWD.

MONITORING REQUIREMENTS

The monitoring requirements from Attachment B of the General Order that are appropriate for this Discharger are:

- Recycled Water Monitoring,
- Disinfection System Monitoring,
- Pond System Monitoring, and
- Use Area Monitoring.

Regional Water Boards have discretion regarding permitting storage of recycled water in ponds. Therefore, any ponds used for storage of recycled water is required to be monitored. The ROWD states that storage tanks will be encouraged when recycled water storage is needed near use areas. However, as part of a future planned project to provide recycled water to the Bartley Cavanaugh Golf Course in the City of Sacramento, recycled water may be stored at the four ponds located at the golf course. The Bartley Cavanaugh Ponds are summarized below. Use of these ponds for recycled water storage shall be monitored.

Table 2 – Storage Capacity of Bartley Cavanaugh Ponds

Pond Number	Location	Storage Capacity
Pond 1	9 th and 18 th Fairways	14.2 acre-feet
Pond 2	17 th Fairway	4.6 acre-feet
Pond 3	12 th and 13 th Fairways	5.0 acre-feet
Pond 4	6 th Fairways	3.7 acre-feet

SALT AND NITRATE CONTROL PROGRAMS

The Central Valley Water Board adopted Basin Plan amendments (Resolution R5-2018-0034) incorporating new programs for addressing ongoing salt and nitrate accumulation in the Central Valley at its 31 May 2018 Board Meeting. The Basin Plan amendments were conditionally approved by the State Water Board on 16 October 2019 (Resolution No. 2019-0057) and by the Office of Administrative Law on 15 January 2020 (OAL Matter No. 2019-1203-03).

For salinity, dischargers that are unable to comply with stringent salinity requirements will instead need to meet performance-based requirements and participate in a basin-wide effort to develop a long-term salinity strategy for the Central Valley. Dischargers received a Notice to Comply with instructions and obligations for the Salt Control Program within one year of the effective date of the amendments. The Discharger has submitted a Notice of Intent to comply with the Salt Control Program Option 2 - Alternative Option and participate in the Prioritization and Optimization Study.

For nitrate, dischargers that are unable to comply with stringent nitrate requirements will be required to take an alternate compliance approach that involve providing replacement drinking water to persons whose drinking water is affected by nitrates. Dischargers may comply with the new nitrate program either individually or collectively with other dischargers. For the Nitrate Control Program, the recycled water use areas fall within the South American Subbasin, which is a Non-Prioritized Basin. At this time, a Management Zone does not currently exist. The Discharger may be subject to comply with the Nitrate Control Program through a later formed Management Zone.

As these programs are implemented, the Central Valley Water Boards may find it necessary to modify the requirements of this NOA to ensure the goals of the Salt and Nitrate Control Programs are met. More information on the [Salt and Nitrate Control Programs](https://www.cvsalinity.org/) may be found on the internet (<https://www.cvsalinity.org/>).