16 November 2023

Laurie Giannini
Calaveras County Fairgrounds
39th District Agricultural Association
P.O. Box 489
Angels Camp, CA 95222

CERTIFIED MAIL
9589-0710-5270-0591-2565-86

NOTICE OF APPLICABILITY

GENERAL WASTE DISCHARGE REQUIREMENTS FOR
SMALL DOMESTIC WASTEWATER TREATMENT SYSTEMS
ORDER WQ 2014-0153-DWQ
FOR
39TH DISTRICT AGRICULTURAL ASSOCIATION
CALAVERAS COUNTY FAIRGROUNDS
CALAVERAS COUNTY

On 13 September 2023, Weber, Ghio & Associates Inc., on behalf of the 39th District Agricultural Association, Division of Fairs and Exposition, California Department of Food and Agriculture (Discharger), submitted a Report of Waste Discharge (RWD) describing the Calaveras County Fairgrounds wastewater treatment facility (WWTF) in Calaveras County. On 19 October 2023, the Discharger submitted a revised RWD. The facility is currently regulated under State Water Resources Control Board (State Water Board) Water Quality *Order 97-10 DWQ General Waste Discharge Requirements for Discharges to Land by Small Domestic Wastewater Treatment Systems.* Notice of Applicability (NOA) 97-10-DWQ-R5093 was issued by the Executive Officer on 6 March 2012. Order 97-10 was superseded by State Water Board *General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems*, Order WQ 2014-0153-DWQ (General Order), which was adopted on 23 September 2014. Based on information provided in the RWD, the wastewater treatment system and discharge are consistent with the requirements of the General Order. This NOA serves as formal notice that NOA 97-10-DWQ-R5093 is rescinded, and the discharge shall be regulated pursuant to the General Order and this NOA. You are hereby assigned Order WQ 2014-0153-DWQ-R5404 for the discharge. A copy of the Waiver is enclosed and also available at the State Water Boards Adopted Orders webpage, General Order 2014-0153-DWQ *(https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/2014-0153-dwq_noas/).*

You should familiarize yourself with the entire General Order and its attachments, which describe mandatory discharge and monitoring requirements. The General Order contains operational and reporting requirements by wastewater system type. Sampling, monitoring, and reporting requirements applicable to your treatment and disposal methods must be completed in accordance with the appropriate treatment system sections of the General Order and the attached Monitoring and Reporting Program (MRP) 2014-0153-DWQ-R5404. The Discharger is responsible for all the applicable requirements that exist in the General Order and this NOA.

EXISTING FACILITY AND DISCHARGE DESCRIPTION

Calaveras County Fairgrounds is located at 2465 Gun Club Road, Angels Camp in Sections 2, 3, and 11, T2N, R13E, MDB&M in Calaveras County, as shown on Attachment A, which is incorporated herein. The Assessors' Parcel Numbers is 064-006-009. The facility is owned and operated by the Discharger. The overall developed site occupies approximately 52 acres and provides 64 recreational vehicle (RV) spaces.

Various events have been held at the Fairgrounds, including concerts, the County Fair & Jumping Frog Jubilee, and other special events. Based on the RWD, the yearly average flows range from 3,000 to 7,000 gallons per day (gpd) with elevated flows during major rain events and fair events. The largest fair event is the yearly four-days Calaveras County Fair in May, which admits about 8,000 people per day and produces about 20,000 gpd of influent.

Based on NOA 97-10-DWQ-R5093, wastewater generated from the fairground main facility and RV parking area was collected into a 20,000-gallon septic tank and a 3,000-gallon septic tank, respectively; following the anaerobic treatment in the septic tanks, the wastewater flowed into an unlined pond for disposal. In June 2023, the Discharger removed the old 3,000-gallon septic tank and completed installation of a new septic tank system and a leachfield. The current WWTF consists of a 20,000-gallon septic tank, a 20,000-gallon septic tank with four Biotube filters, two 20,000-gallon wet well tanks in series, a duplex pump system, a leachfield, and an unlined emergency overflow pond with 0.37 ac-ft based on two-feet of free board. The leachfield has 3,200 liner feet of subsurface leach lines, which were sized to dispose of the expected average daily flow of 8,000 gpd. The RWD states that the new septic tanks and wet well tanks have been sized to temporarily store the effluent surge produced during fair events, and the design assumes that wastewater in the tanks will be pumped to draw the water level down prior to each major event. A site plan and a process schematic are included in Attachment B and C, respectively, which are incorporated herein.

The Discharger's water balance, based on a 100-year return period 365-day precipitation event, demonstrates that the WWTF has adequate storage and disposal capacities for an influent flow rate of 1,187 gpd as an average dry weather flow (ADWF), and an influent flow rate of 3.84 million gallons (MG) as an annual total flow. Due to significant inflow and infiltration (I/I) during the wet months and the limited disposal capacity of 8,000 gpd for the leachfield, the water balance shows that disposal capacity still relies on pond percolation/evaporation during the wet season.

SITE-SPECIFIC REQUIREMENTS

The Discharger shall comply with all applicable sections in the General Order, including:

1. Requirements A. Prohibitions

2. Requirements B.1.a.

   The Discharger shall comply with the following flow limits: Influent flow entering the WWTF shall not exceed 1,187 gpd as an average dry weather flow, and 3.84 MG as an annual total. The ADWF is determined by the total flow for the months of July through September, inclusive, divided by 92 days. The maximum average daily flow to the leachfield shall not exceed 8,000 gpd.

3. Requirements B.1.b. through B.1.l

   For Section B.1.l, the Discharger shall comply with the following setback requirements listed in in Table 3 of the General Order:

Equipment or Activity	Domestic Well	Flowing Stream	Ephemeral Stream Drainage	Property Line	Lake or Reservoir
Septic Tank, Aerobic Treatment Unit, Treatment System, or Collection System	150 ft.	50 ft.	50 ft.	5 ft.	200 ft.
Leach Field	100 ft	100 ft	50 ft	5 ft.	200 ft.
Impoundment	150 ft.	150 ft.	150 ft.	50 ft.	200 ft.

4. Requirements B.2 Septic Systems

   The WWTF utilizes a septic system; therefore Section B.2 of the General Order applies in its entirety.

5. Requirements B.5 Pond Systems

   The WWTF utilizes a pond system; therefore Section B.5 of the General Order applies in its entirety.

6. Requirements B.6. Subsurface Disposal Systems

   The WWTF utilizes leach fields, therefore Section B.6 of the General Order applies in its entirety.

7. Requirements B.8 Sludge/Solids/Biosolids Disposal

   The WWTF generates sludge/solids/biosolids that must be disposed of; therefore Section B.8 of the General Order applies in its entirety.

8. Requirements C. Groundwater and Surface Water Limitations

   Section C of the General Order applies in its entirety.

9. Requirements D. Effluent Limitations

   D.1.a. Effluent discharged to the leachfield shall not exceed BOD5 of 90 mg/L as a daily maximum.

10. Provision E.2 and E.3

11. On 27 September 2019, Senate Bill 317 was signed by the Governor adding Section 25210.2 to the California Health and Safety Code, which contains chemical sale, use, and discharge prohibitions for RV chemical wastes to land, as of 1 January 2022. The Discharger shall post, in a conspicuous location, a notice stating the following:

   "The State of California prohibits the use of products in RV holding tanks, including deodorizers, that contain bronopol, dowicil, formalin, formaldehyde, glutaraldehyde, paraformaldehyde, para-dichlorobenzene, benzene, toluene, xylene, ethylene glycol, 1, 1, 1-trichloroethane, trichloroethylene, or perchloroethylene. These chemicals can inhibit biological activity in onsite wastewater treatment systems and threaten groundwater and drinking water wells, and are strictly forbidden. Please use bacteria- or enzyme-based products."

   The Discharger shall certify compliance with the above notification posting in the first annual report.

SALT AND NITRATE CONTROL PROGRAMS

The Central Valley Water Board adopted Basin Plan amendments 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 Resources Control Board on 16 October 2019 (Resolution 2019-0057) and by the Office of Administrative Law on 15 January 2020 (OAL Matter No. 2019-1203-03).

a. 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. The Discharger, with CV-SALTS ID 3638, has elected to participate in the Prioritization and Optimization Study.

b. For the Nitrate Control Program, the Facility falls outside of any prioritized Groundwater Basin, so no action is required at this time.

As these strategies are implemented, the Central Valley Water Board 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 regarding this regulatory planning process can be found on the Central Valley Water Board CV-SALTS website (https://www.waterboards.ca.gov/centralvalley/water_issues/salinity).

MONITORING AND REPORTING PROGRAM

The Discharger shall comply with MRP WQ 2014-0153-DWQ-R5404, which is incorporated herein.

ENFORCEMENT

Please review this NOA carefully to ensure that it completely and accurately reflects the discharge. Discharge of waste other than those described in this NOA is prohibited. Prior to allowing changes to the wastewater strength, generation rate, or to the method of waste disposal, you must contact the Central Valley Water Board to determine if submittal of a Report Waste Discharge is required.

The Discharger generates the waste subject to the terms and conditions of Water Quality Order WQ 2014-0153-DWQ-R5404 and maintains exclusive control over the discharge. As such, the Discharger is primarily responsible for compliance with this NOA, MRP, and General Order, with all attachments. Failure to comply with the requirements in the General Order or this NOA could result in an enforcement action as authorized by provisions of the California Water Code.

DOCUMENT SUBMITTAL

All monitoring reports and other correspondence should be converted to searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50 MB should be emailed to:

centralvalleysacramento@waterboards.ca.gov.

To ensure that your submittal is routed to the appropriate staff person, the following information should be included in the body of the email or any documentation submitted to the mailing address for this office:

Facility Name: Calaveras County Fairgrounds
Program: Non-15 Compliance
Order: WQ 2014-0153-DWQ-R5404
CIWQS Place ID: CW- 224085

Documents that are 50 MB or larger should be transferred to a CD, DVD, or flash drive and mailed to:

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

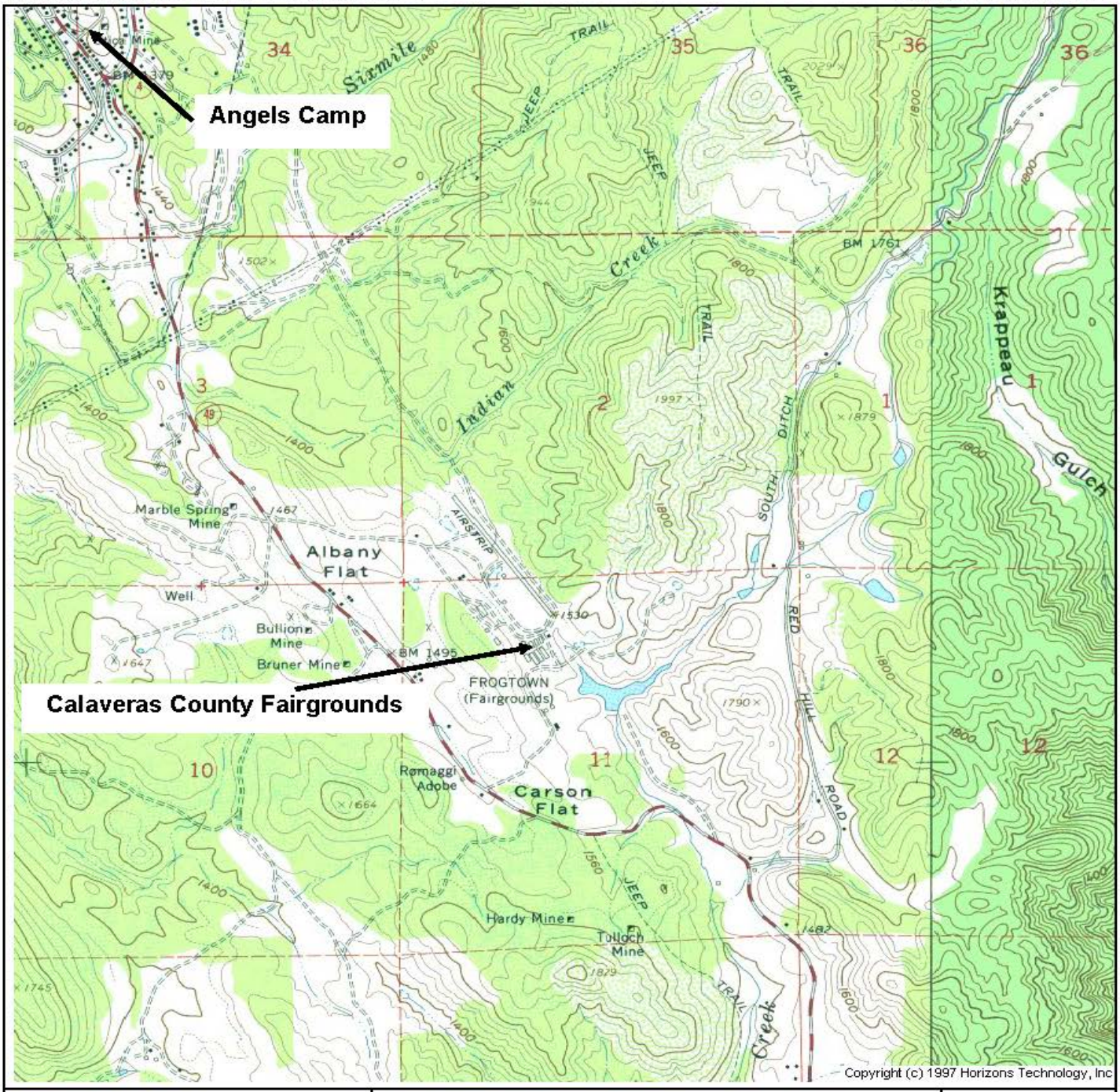
Now that the NOA has been issued, the Board's Compliance and Enforcement section will take over management of your case. Kenny Croyle is your new point of contact for any questions about the General Order. If you find it necessary to make a change to your permitted operations, Kenny will direct you to the appropriate Permitting staff. You may contact Kenny at (916) 464-4676 or at kenny.croyle@waterboards.ca.gov.

Original Digitally Signed by John J. Baum
on Date: 2023.11.16 17:31:03-08'00'

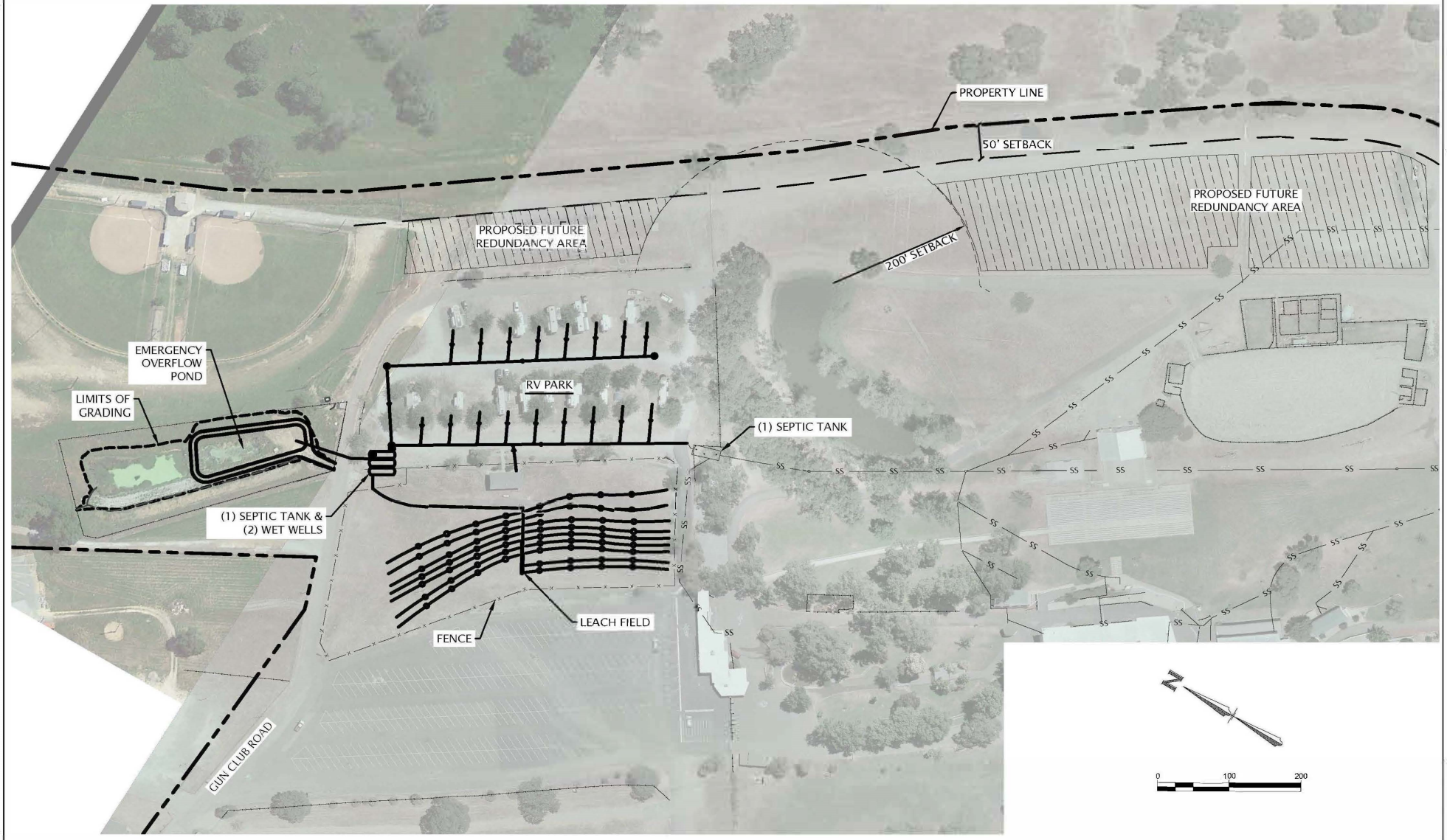
for Patrick Pulupa
Executive Officer

Enclosure: Water Quality Order WQ 2014-0153-DWQ
Monitoring and Reporting Program WQ 2014-0153-DWQ-R5404
Attachment A, Location Map
Attachment B, Site Plan
Attachment C, Process Schematic
Staff Review Memorandum for Calaveras County Fairgrounds

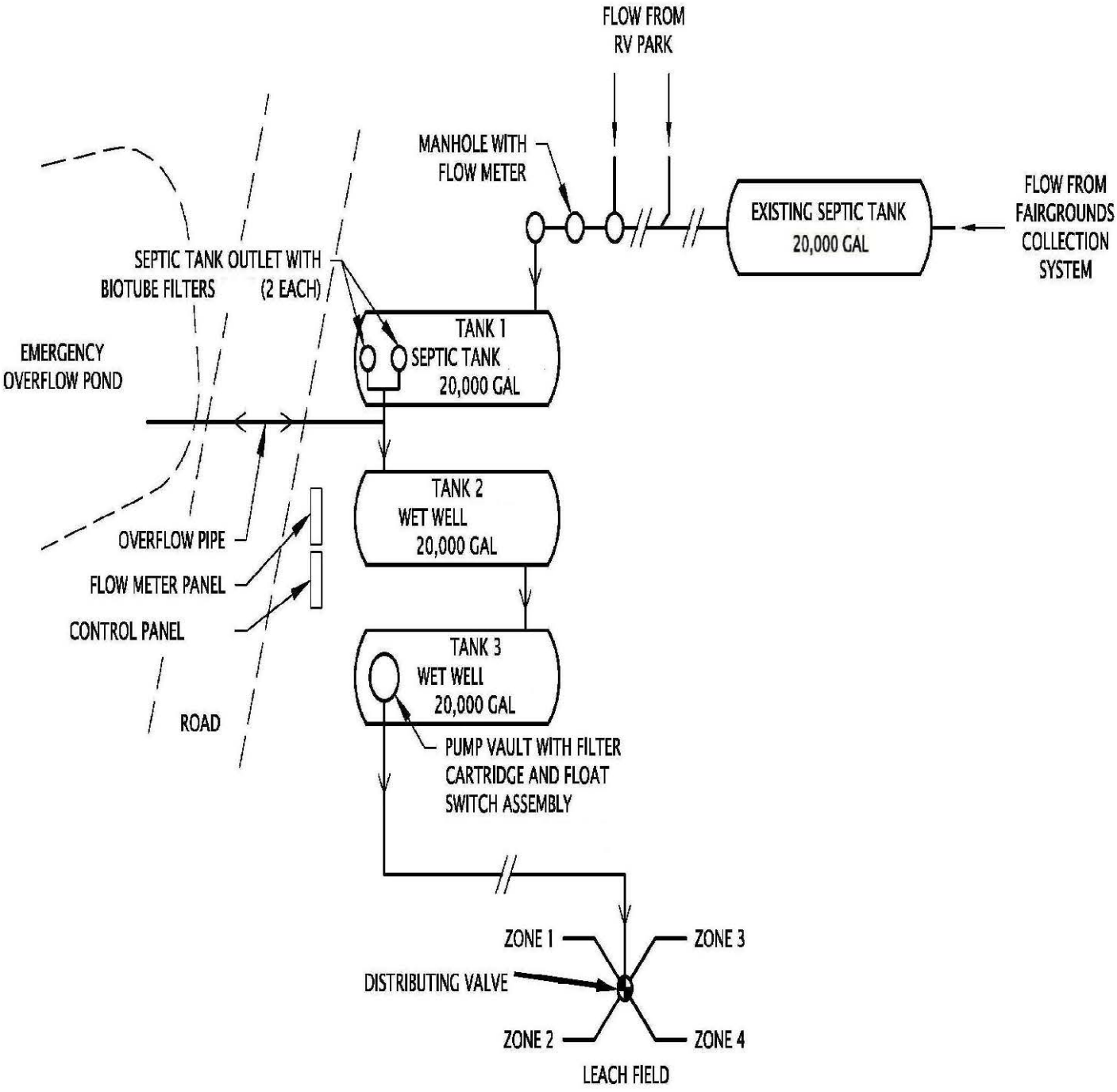
cc w/out enc: Lisa Medina, Calaveras County Environmental Health Department
Howard Hold, Central Valley Water Board, Rancho Cordova



Drawing Reference:	**SITE LOCATION MAP**	N W E S
U.S.G.S TOPOGRAPHIC MAP 7.5 MINUTE QUADRANGLE	39TH DISTRICT AGRICULTURAL ASSOCIATION CALAVERAS COUNTY FAIRGROUNDS	No Scale



Drawing Reference: RWD, Calaveras County Fairgrounds, September 2023	**SITE PLAN** 39TH DISTRICT AGRICULTURAL ASSOCIATION CALAVERAS COUNTY FAIRGROUNDS	



Drawing Reference:	**PROCESS SCHEMATIC**
RWD, Calaveras County Fairgrounds, September 2023	39TH DISTRICT AGRICULTURAL ASSOCIATION CALAVERAS COUNTY FAIRGROUNDS

FROM: Scott Armstrong
Senior Engineering Geologist

DATE: 6 November 2023

APPLICABILITY OF COVERAGE UNDER STATE WATER RESOURCES CONTROL BOARD ORDER WQ 2014-0153-DWQ; GENERAL WASTE DISCHARGE REQUIREMENTS FOR SMALL DOMESTIC WASTEWATER TREATMENT SYSTEMS; 39TH DISTRICT AGRICULTURAL ASSOCIATION, CALAVERAS COUNTY FAIRGROUNDS, CALAVERAS COUNTY

On 13 September 2023, Weber, Ghio & Associates Inc., on behalf of the 39th District Agricultural Association, Division of Fairs and Exposition, California Department of Food and Agriculture (Discharger), submitted a RWD for Calaveras County Fairgrounds WWTF requesting to obtain coverage under the State Water Resources Control Board (State Water Board) General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems, Order WQ 2014-0153-DWQ (General Order). This memorandum provides a summary of the applicability of this discharge for coverage under the General Order.

EXISTING FACILITY AND DISCHARGE DESCRIPTION

NOA 97-10-DWQ-R5093, which was issued by the Executive Officer on 6 March 2012, contains a flow limit of 1,000 gpd as a monthly average discharge flow.

The Discharger completed installation of a new septic system and leach fields in June 2023. The current WWTF consists of a 20,000-gallon septic tank, a 20,000-gallon septic tank with four Biotube filters, two 20,000-gallon wet well tanks in series, a duplex pump system, a leachfield, and an unlined emergency overflow pond. The Biotube effluent filters included in the septic tank are capable of filtering up to 20,000 gpd of wastewater. The RWD states that these filters are expected to reduce the total suspended solids in the wastewater by approximately 66%. Effluent is pumped to a distributing valve that directs the discharge into one of the four leach field zones.

The existing pond located to the north of the septic tanks provides temporary emergency storage to contain effluent if the flow rate exceeds the tank storage capacity. The RWD states that the effluent in the pond will be pumped back to the tanks for treatment and disposal after tank water levels return to normal.

The following table lists the flow rates from May 2022 through May 2023.

Date	Monthly Daily Average (gpd)
May-22	3,944
Jun-22	275
Jul-22	1,848
Aug-22	508
Sep-22	699
Oct-22	779
Nov-22	1,260
Dec-22	10,697

Date	Monthly Daily Average (gpd)
Jan-23	26,276
Feb-23	6,680
Mar-23	20,682
Apr-23	2,270
May-23	2,007
ADWF (note 1)	1,021
Monthly Average	5,994

[1] As determined by the total flow for the months of July through September, inclusive, divided by 92 days.

Based on the above table, the average influent flow rate was 5,994 gpd and the ADWF was 1,021 gpd indicating that sewer infiltration and inflow (I/I) contributed to the peak flows. The RWD indicates that a comparison of historical local rainfall data and measured inflow data showed a strong correlation between heavy rainfall and increased inflow, indicating there is a significant I/I issue with the wastewater collection system. In August 2020, the Discharger replaced older sections of the wastewater collection system discovered by previous smoke testing and closed-circuit television inspection. The RWD indicates that the I/I has been reduced after collection system repairs in 2020, but still not enough to safely eliminate potential overflow to the pond. The RWD indicates that it is expected that I/I improvements will continue be made to reduce I/I issues. Any I/I improvements shall be reported in the Annual Report.

Effluent quality data from the new septic system are not available. The RWD provides the quality of effluent in pond for five sampling events as listed below:

Date	BOD (mg/L)	TDS (mg/L)	Nitrate as Nitrogen (mg/L)	Total Kjeldahl Nitrogen (mg/L)
Nov 2020	18	380	Non-detected	66
May 2021	75	460	Non-detected	140
August 2021	70	520	Non-detected	100
March 2022	51	260	Non-detected	62
May 2023	Non-detected	230	Non-detected	2.9
Average	54	370	Non-detected	74

Based on the above table, an average total kjeldah nitrogen concentration of 74 mg/L is relatively high and nitrate concentrations are not detected, indicating the previous septic system did not provide adequate nitrification/denitrification treatment for the wastewater. The RWD states that the expected effluent quality is expected to be improved with the new system due to increased septic tank capacity and the Biotube filters. RV waste chemical data, such as zinc, phenol and formaldehyde are not available. The MRP contains monitoring requirement for these constituents.