
Central Valley Regional Water Quality Control Board

16 June 2021

CERTIFIED MAIL
7019 2970 0001 5206 4234

Jim Flowers, Owner
J.F. Enterprises Worm Farm
21269 E Rose Clover Ln
Linden, CA 95236

CERTIFIED MAIL
7019 2970 0001 5206 4227

Bruce Harms
Burchell Nursery
1200 State Route 120
Oakdale, CA 95361

NOTICE OF APPLICABILITY; GENERAL WASTE DISCHARGE REQUIREMENTS FOR COLD WATER CONCENTRATED AQUATIC ANIMAL PRODUCTION (CAAP) FACILITY DISCHARGES TO SURFACE WATERS; ORDER R5-2019-0079 (CAAP GENERAL ORDER, NPDES NO. CAG135001); J.F. ENTERPRISES AND BURCHELL NURSERY, J.F. ENTERPRISES WORM FARM, STANISLAUS COUNTY

The California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) issued a Notice of Applicability (NOA) to J.F. Enterprises and Burchell Nursery (Discharger) on 14 January 2015, for coverage under the CAAP General Order for the J.F. Enterprises Worm Farm (Facility).

On 5 December 2019, the Central Valley Water Board adopted Order R5-2019-0079 renewing the CAAP General Order. The Discharger submitted a Notice of Intent on 28 November 2019, to continue coverage for the Facility under the CAAP General Order. Effective **1 July 2021**, this NOA provides continued coverage for the Facility under the CAAP General Order to discharge to the Stanislaus River, superseding the previous NOA issued 14 January 2015 (R5-2014-0161-018). This discharge is hereby enrolled under the CAAP General Order (National Pollutant Discharge Elimination System (NPDES) Permit CAG135001) with the enrollee number **R5-2019-0079-002**. The following enclosures are included as part of this NOA:

- 1) Enclosure A - Administrative Information
- 2) Enclosure B - Location Map
- 3) Enclosure C - Flow Schematic
- 4) Enclosure D - Monitoring and Reporting Program
- 5) Enclosure E - Approved Chemical and Aquaculture Drug Use

The enclosed [CAAP General Order](#) (http://www.waterboards.ca.gov/centralvalley/board6_decisions/adopted_orders) is also available online. You are urged to familiarize yourself with the entire contents of the enclosed document. The Facility operations and discharges shall be managed in accordance with the

Jim Flowers
J.F. Enterprises Worm Farm

requirements contained in the CAAP General Order, this NOA, and with the information submitted by the Discharger.

I. FACILITY INFORMATION/DISCHARGE DESCRIPTION

The Facility is located on the south bank of the Stanislaus River, at 10412 North Wamble Road in Oakdale in Stanislaus County (T2S, R11E, MDB&M, latitude N 37° 47' 12.60"/longitude W 120° 47' 00.71"), as shown in Enclosure B. The Facility is located on property owned by the Burchell Nursery. The Facility is owned and operated by J.F. Enterprises.

The Facility produces blackworms (*Lumbriculus variegatus*) for use as live food for tropical fish. The Facility diverts up to 4.0 million gallons per day (mgd) of water from the Stanislaus River to 30 shallow ponds for rearing the worms on the south bank of the River. The rearing ponds have dimensions of about 90 ft. long by 50 ft. wide and 4 ft. deep. The ponds are arranged in groups of two to four ponds operating in series. Each pond contains several sprayer aerators. After passing through the ponds, the wastewater is delivered to a 112,500 cubic foot settling basin. From the settling basin, process water is discharged at a flow rate of up to 4.0 mgd to the Stanislaus River. The Facility also includes 28 fiberglass circular tanks (6.5 feet in diameter by 2 feet deep) for the process of harvesting, cleaning, and preparing the worms for shipping. Prepared food, consisting primarily of grains, is added to the ponds at a ratio of approximately 3 pounds of food per pound of worms harvested. Approximately 50,000 to 60,000 pounds of worms are harvested annually. The Discharger uses approximately one-half pint of chlorine bleach per week to clean storage tanks and buckets. The cleaning water is not discharged to surface waters, so no chlorine enters the receiving water. No aquaculture drugs are used at the Facility.

The Facility maintains the ability to add up to 1.44 mgd of groundwater to the ponds to control turbidity in the event that the Stanislaus River is excessively turbid (e.g., during periods of high run-off). However, under normal operating conditions the Facility does not use groundwater.

When a rearing pond is ready to be harvested, the influent water and aerators are shut off. As oxygen levels in the rearing ponds decrease, the worms move to the surface of the pond sediments in search of oxygen, which allows them to be collected manually with nets. The harvested worms are placed in a series of aerated cleaning baths (fiberglass circular tanks) to separate the worms from residual sediments. The cleaning process consists of reducing the oxygen levels in a bath by minimizing aeration. This causes the worms to crawl out of the residual rearing pond sediments to the edge of the bath where they are collected. The worms are passed through two cleaning baths before they are ready for shipping.

The Facility removes solids from the ponds approximately every 1 to 2 years, on a rotating basis. Organisms in the pond solids slowly build up and begin competing with the worms for food. Eventually, the ponds begin to experience reduced worm production as a result of the competition. When a noticeable reduction in worm production occurs in

a group of ponds, the Discharger empties the group of ponds, allows the ponds to dry, then removes the upper solids layer. The dried solids are placed on the Facility property.

In the Notice of Intent, the Discharger reported the 5-year maximum annual harvestable blackworm production and the maximum monthly feed use for the Facility (Table 1):

TABLE 1. Aquatic animal production and feed use

Species	Maximum Annual Harvestable Aquatic Animal Production (lbs)	Maximum Monthly Feed Use (lbs)
Lumbriculus variegatus (black worm)	50,000	25,000

Wastewater is discharged from the Facility to the Stanislaus River through Outfall 001 as shown in Enclosure C. All domestic wastewater from a portable restroom trailer is pumped and hauled off site once per week.

II. DISCHARGE PROHIBITIONS (CAAP GENERAL ORDER SECTION IV)

The Discharge Prohibitions contained in CAAP General Order Section IV are applicable to this Facility. Per Discharge Prohibition IV.D, the discharge of hazardous or toxic substances including cleaning chemicals, solvents, oil, grease or other petroleum products, is prohibited.

III. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

A. Effluent Limitations (CAAP General Order Section V)

Effluent Limitations are specified in Section V of the CAAP General Order. The discharge exhibits reasonable potential for total suspended solids. The following effluent limitations are applicable to this discharge and are contained in Section V.A of the CAAP General Order:

1. The Discharger shall minimize the discharge of Total Suspended Solids through the implementation of the best management practices established in Special Provision VII.C.3 of the CAAP General Order.

B. Land Discharge Specifications (CAAP General Order Section V.C)

The Land Discharge Specifications contained in CAAP General Order Section V.C are applicable to this Facility.

IV. RECEIVING WATER LIMITATIONS

A. Surface Water Limitations (CAAP General Order Section VI.A)

The discharge to the Stanislaus River is subject to the Water Quality Control Plan for the Sacramento and San Joaquin River Basins (Basin Plan), therefore, the receiving

water limitations contained in the CAAP General Order based on the Basin Plan, as indicated below, are applicable to this discharge.

- Un-ionized Ammonia (VI.A.1) – Not Applicable
- Bacteria (VI.A.2);
- Biostimulatory Substances (VI.A.3);
- Chemical Constituents (VI.A.4);
- Color (VI.A.5);
- Dissolved Oxygen (VI.A.6.a.i, ii and VI.A.6.b) – Per CAAP General Order Section VI.A.6.b., the dissolved oxygen concentration in the Stanislaus River shall not be reduced below 7.0 mg/l;
- Electrical Conductivity (VI.A.7) – Not Applicable;
- Floating Material (VI.A.8);
- Oil and Grease (VI.A.9);
- pH (VI.A.10);
- Pesticides ((VI.A.11.a, b, c, d, e, g);
- Radioactivity (VI.A.12);
- Suspended Sediments (VI.A.13);
- Settleable Substances (VI.A.14);
- Suspended Material (VI.A.15);
- Taste and Odors (VI.A.16);
- Temperature (VI.A.17);
- Toxicity (VI.A.19); and
- Turbidity (VI.A.20.a).

B. Ground Water Limitations (CAAP General Order Section VI.B)

The Groundwater Limitations contained in CAAP General Order Section VI.B are applicable to this Facility.

V. PROVISIONS

Provisions are contained in Section VII of the CAAP General Order, and the applicable provisions are referenced below.

A. Standard Provisions. (CAAP General Order Section VII.A)

The Standard Provisions contained in CAAP General Order Section VII.A are applicable to this Facility.

B. Monitoring and Reporting Program Requirements. (CAAP General Order Section VII.B)

Each Discharger shall comply with the Monitoring and Reporting Program, and future revisions thereto, in Attachment C, of the CAAP General Order and as specified in Enclosure D of this NOA.

C. Special Provisions. (CAAP General Order Section VII.C)

Special Provisions are contained in Section VII.C of the CAAP General Order. Only the following Special Provision sections from the CAAP General Order specified in Table 2 below apply to this Facility:

Table 2: Summary of Applicable Special Provisions

Special Provision	CAAP General Order Section Reference
Reopener Provisions	Section VII.C.1
Drug and Other Chemical Use Reporting	Section VII.C.2
Best Management Practices and Pollution Prevention	Section VII.C.3
Waste Disposal	Section VII.C.4
Special Provisions for Municipal Facilities (POTWs Only).	Section VII.C.5 - Not Applicable
Other Special Provisions.	Section VII.C.6 - Not Applicable
Compliance Schedules.	Section VII.C.7 – Not Applicable

VI. COMPLIANCE DETERMINATION (CAAP GENERAL ORDER SECTION VIII.A) – NOT APPLICABLE

VII. OTHER REQUIREMENTS

- A.** The discharge from the Facility (Discharge Point 001) shall not exceed a daily average flow of 4 million gallons per day (mgd).
- B.** The CAAP General Order expires on **31 January 2025**. Only those CAAP facilities authorized to discharge under the expiring Order and who submit a Notice of Intent at least **one year** prior to the expiration date of the CAAP General Order (unless the Executive Officer grants permission for a later date) will remain authorized to discharge under administratively continued permit conditions.
- C.** In accordance with section VII.C.3.a of the CAAP General Order, the Discharger shall certify within 90 days from the issuance of this NOA that a Best Management Practices (BMP) Plan has been developed and is being implemented. To satisfy this requirement the Discharger shall submit a letter to the Central Valley Water Board certifying compliance with the BMP Plan requirements by **16 September 2021**. The Discharger can develop a new BMP Plan, or an existing BMP Plan may be modified for use under this requirement. The Discharger shall develop and implement the BMP Plan to prevent or minimize the generation and discharge of wastes and pollutants to waters of the United States and waters of the State and ensure disposal or land application of wastes is in compliance with applicable solid waste disposal regulations. The BMP Plan shall include a salinity evaluation and minimization plan to address salt treatments at the Facility. The Discharger shall review the BMP Plan annually and must amend the BMP Plan whenever there is a change in the Facility or in the

Jim Flowers
J.F. Enterprises Worm Farm

operation of the Facility which materially increases the generation of pollutants or their release or potential release to surface waters.

VIII. ENFORCEMENT

Failure to comply with the CAAP General Order may result in enforcement actions, which could include civil liability. Effluent limitation violations are subject to a Mandatory Minimum Penalty (MMP) of \$3,000 per violation, as well as discretionary penalties. In addition, late monitoring reports are subject to discretionary penalties and MMPs. When discharges do not occur during a quarterly monitoring report period, the Discharger must still submit a quarterly monitoring report indicating that no discharge occurred to avoid being subject to enforcement actions.

IX. COMMUNICATION

All notification of non-compliance and questions regarding compliance and enforcement shall be directed to Mohammad Farhad of the Central Valley Water Board's NPDES Compliance and Enforcement Unit. Mr. Farhad can be reached at (916) 464-1181 or mohammad.farhad@waterboards.ca.gov.

Questions regarding the permitting aspects of this Order, and written notification for termination of coverage under the CAAP General Order, shall be directed to Danielle Goode of the Central Valley Water Board's NPDES Permitting Unit. Ms. Goode can be reached at (916) 464-4843 or by email at danielle.goode@waterboards.ca.gov.

The Central Valley Water Board is implementing a Paperless Office system to reduce our paper use, increase efficiency, and provide a more effective way for our staff, the public, and interested parties to view documents in electronic form. Therefore, the Discharger is required to submit all self-monitoring, technical, and progress reports required by this NOA via CIWQS submittal. In general, if any monitoring data for a monitoring location can be submitted using a computable document format (CDF) file upload, then it should be submitted as a CDF file upload. However, certain parameters that cannot be uploaded to the CIWQS data tables, such as the BMP Plan, should be uploaded as a Portable Document Format (PDF), Microsoft Word, or Microsoft Excel file attachment. Also, please upload or enter a cover letter summarizing the content of the report to the submittal tab of the CIWQS module for each submittal.

All other documents not required to be submitted via CIWQS shall be converted to a searchable PDF and submitted by email to the [Central Valley Water Board email \(centralvalleysacramento@waterboards.ca.gov\)](mailto:centralvalleysacramento@waterboards.ca.gov) with the following information:

- Attention: NPDES Compliance and Enforcement Section
- Discharger: J.F. Enterprises and Burchell Nursery
- Facility: J.F. Enterprises Worm Farm
- County: Stanislaus County
- CIWQS Place ID: 233276

Jim Flowers
J.F. Enterprises Worm Farm

Documents that are 50 megabytes or larger must be transferred to a DVD or flash drive, and mailed to our office, attention "ECM Mailroom-NPDES".

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Resources Control Board (State Water 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 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 NOA falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. [Links to the laws and regulations applicable to filling petitions](http://www.waterboards.ca.gov/public_notices/petitions/water_quality) (http://www.waterboards.ca.gov/public_notices/petitions/water_quality) may be found on the internet or will be provided upon request.

Original Signed by Adam Laputz
Date Digitally Signed: 2021.06.16 13:39:18 -07'00'
For Patrick Pulupa
Executive Officer

Enclosures: Enclosure A – Administrative Information
 Enclosure B – Location Map
 Enclosure C – Flow Schematic
 Enclosure D – Monitoring and Reporting Program
 Enclosure E – Approved Agricultural Drug and Chemical Use
 CAAP General Order R5-2019-0079 (Discharger only)

cc's: Elizabeth Sablad, U.S.EPA, Region IX, San Francisco (via email only)
 Peter Kozelka U.S.EPA, Region IX, San Francisco (via email only)
 Division of Water Quality, State Water Board, Sacramento (via email only)
 Sarah Torres, PG Environmental (via email at icis-npdes@pgenv.com)

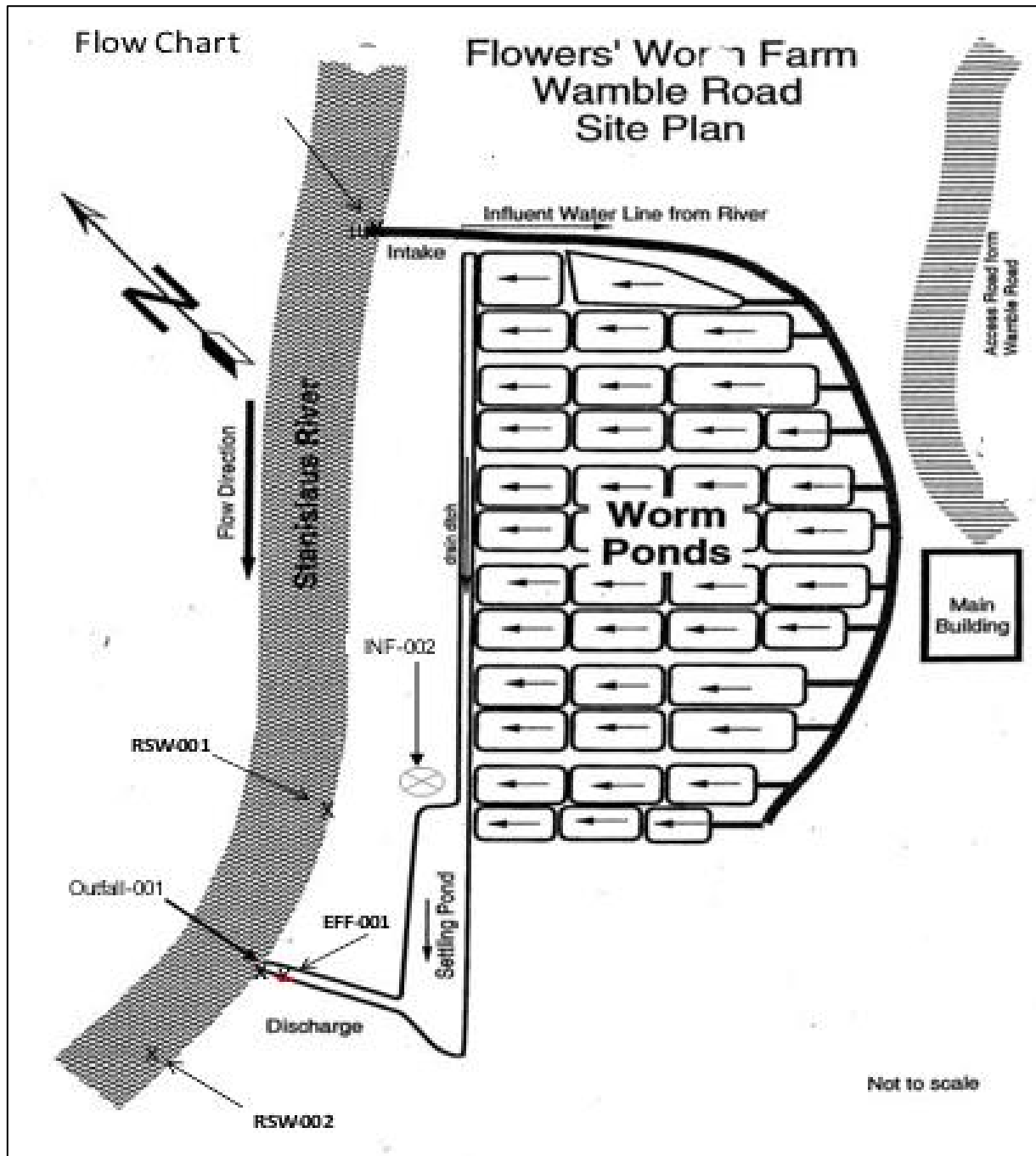
ENCLOSURE A - ADMINISTRATIVE INFORMATION

Waste Discharge ID:	5B50NP00029
CIWQS Facility Place ID:	233276
General Order NOA Enrollee Number:	R5-2019-0079-002
Discharger:	J.F. Enterprises
Name of Facility:	J.F. Enterprises Worm Farm
Facility Address:	10412 N. Wamble Road, Oakdale, CA 95361
Facility County:	Stanislaus
Facility Contact, Title and Phone Number:	Jim Flowers, Owner, 209-469-0590
Landowner:	Burchell Nursery
Landowner City, State Zip:	21269 E. Rose Clover Lane, Linden, CA 95236
Landowner Contact and Phone Number:	Tom Burchell, 209-609-7110
Authorized Person to Sign and Submit Reports:	Jim Flowers
Mailing Address:	21269 E. Rose Clover Lane, Linden, CA 95236
Billing Address:	Same
Total Weight Produced (Year one through five):	250,000 lbs
Type of Facility:	Cold Water Concentrated Aquatic Animal Production Facility, SIC Code 0921
Major or Minor Facility:	Minor
Threat to Water Quality:	2
Complexity:	B
Pretreatment Program:	No
Recycling Requirements:	No
Facility Permitted Flow:	4.0 million gallons per day (mgd)
Watershed:	San Joaquin River Basin
Receiving Water:	Stanislaus River
Receiving Water Type:	Inland surface water

ENCLOSURE B – LOCATION MAP



ENCLOSURE C – FLOW SCHEMATIC



ENCLOSURE D – MONITORING AND REPORTING PROGRAM

The Discharger is required to comply with all the Monitoring and Reporting Requirements contained in Attachment C of the CAAP General Order, as specified in this NOA Enclosure D.

This Facility is in the category of production of less than 100,000 pounds of aquatic animals produced per year. The Discharger is required to comply with all the Monitoring and Reporting Requirements contained in Attachment C of the CAAP General Order for facilities with production less than 100,000 pounds of aquatic animals per year, and as required in Enclosure D in this NOA. A summary of the monitoring requirements is provided below:

I. GENERAL MONITORING PROVISIONS

The Discharger shall comply with the General Monitoring Provisions specified in the CAAP General Order, Attachment C, Section I, as outlined below:

- A. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring locations specified below and, unless otherwise specified, before the monitored flow joins or is diluted by any other waste stream, body of water, or substance. Monitoring locations shall not be changed without notification to and the approval of the Central Valley Water Board.
- B. Final effluent samples shall be taken downstream of the last addition of wastes to the treatment or discharge works where a representative sample may be obtained prior to mixing with the receiving waters. Samples shall be collected at such a point and in such a manner to ensure a representative sample of the discharge.
- C. Chemical, bacteriological, and bioassay analyses of any material required by this Order shall be conducted by a laboratory accredited for such analyses by the State Water Resources Control Board (State Water Board), Division of Drinking Water (DDW), in accordance with the provision of Water Code section 13176. Laboratories that perform sample analyses must be identified in all monitoring reports submitted to the Central Valley Water Board. In the event an accredited laboratory is not available to the Discharger for any on-site field measurements such as pH, dissolved oxygen, turbidity, temperature, or residual chlorine, such analyses performed by a non-accredited laboratory will be accepted provided a Quality Assurance-Quality Control Program is instituted by the laboratory. A manual containing the steps followed in this program for any on-site field measurements such as pH, dissolved oxygen, turbidity, temperature, or residual chlorine must be kept on-site in the Facility laboratory and shall be available for inspection by Central Valley Water Board staff. The Discharger must demonstrate sufficient capability (qualified and trained employees, properly calibrated and maintained field instruments, etc.) to adequately perform these field measurements. The Quality Assurance-Quality

Enclosure D – Monitoring and Reporting Program
J.F. Enterprises Worm Farm

Control Program must conform to U.S. EPA guidelines or to procedures approved by the Central Valley Water Board.

- D. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. All monitoring instruments and devices used by the Discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. All flow measurement devices shall be calibrated at least once per year to ensure continued accuracy of the devices. Calculated flows shall be calculated consistent with accepted engineering practices.
- E. Monitoring results, including noncompliance, shall be reported at intervals and in a manner specified in this MRP and the NOA.
- F. U.S. EPA published regulations for the Sufficiently Sensitive Methods Rule (SSM Rule) which became effective 18 September 2015. When more than one test procedure is approved under 40 C.F.R. part 136 for the analysis of a pollutant or pollutant parameter, the test procedure must be sufficiently sensitive as defined at 40 CFR 122.21(e)(3) and 122.44(i)(1)(iv). Both 40 C.F.R. sections 122.21(e)(3) and 122.44(i)(1)(iv) apply to the selection of a sufficiently sensitive analytical method for the purposes of monitoring and reporting under NPDES permits. A U.S. EPA-approved analytical method is sufficiently sensitive where:
 - 1. The ML is at or below both the level of the applicable water quality criterion/objective and the permit limitation for the measured pollutant or pollutant parameter; or
 - 2. In permit applications, the ML is above the applicable water quality criterion/objective, but the amount of the pollutant or pollutant parameter in a facility's discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge; or
 - 3. The method has the lowest ML of the U.S. EPA-approved analytical methods where none of the U.S. EPA-approved analytical methods for a pollutant can achieve the MLs necessary to assess the need for effluent limitations or to monitor compliance with a permit limitation.
- G. The Discharger shall file with the Central Valley Water Board technical reports on self-monitoring performed according to the detailed specifications contained in this Monitoring and Reporting Program and Enclosure D of the Notice of Applicability.

- H. The results of all monitoring required by this Order shall be reported to the Central Valley Water Board and shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this Order. Unless otherwise specified, discharge flows shall be reported in terms of the monthly average and the daily maximum discharge flows.

II. MONITORING LOCATIONS

The monitoring locations are defined as follows in Table D-1 below, and a flow schematic showing the site-specific monitoring locations is provided in Attachment C to this NOA.

Table D-1. Monitoring Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
	INF-001	Stanislaus River Intake. Location where influent sample can be collected prior to entering the Facility. [Latitude: 37° 47' 18.90" N; Longitude: 120° 46' 55.54" W]
	INF-002	Groundwater Supply Well. Location where influent sample can be collected prior to entering the Facility. [Latitude: 37° 47' 12.60" N; Longitude: 120° 47' 0071" W]
001	EFF-001	Effluent wastewater flow from the Settling Pond prior to discharge to the Stanislaus River. [Latitude: 37° 47' 11.99" N; Longitude: 120° 47' 03.87" W]
	RSW-001	100 feet upstream of Outfall 001 discharge to the Stanislaus River. [Latitude: 37° 47' 13.60" N; Longitude: 120° 47' 02.37" W]
	RSW-002	100 feet downstream of Outfall 001 discharge to the Stanislaus River. [Latitude: 37° 47' 11.90" N; Longitude: 120° 47' 04.51" W]

III. INFLUENT MONITORING REQUIREMENTS (INF-001)

- A. The Discharger shall monitor the source water supply to the Facility at Monitoring Location INF-001 as specified in Table D-2 below. Samples shall be collected at approximately the same time as effluent and receiving water samples.

Table D-2. Influent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency
pH	Standard units	Grab	1/quarter
Electrical Conductivity @ 25 degrees Celsius	µmhos/cm	Grab	1/quarter
Total Suspended Solids	mg/L	Grab	1/year

Table D-2 Testing Requirements. The Discharger shall comply with the following testing requirements when monitoring for the parameters described in Table D-2.

1. Parameters shall be analyzed using the analytical methods described in 40 C.F.R. Part 136 or by methods approved by the Central Valley Water Board or the State Water Board.
2. Samples shall be collected approximately at the same time as effluent samples.
3. Constituents shall be monitored using analytical methods with sufficiently sensitive reporting levels consistent with the SSM Rule specified in 40 C.F.R. 122.21(e)(3) and 122.44(i)(1)(iv).

B. Influent Monitoring for Facilities with Intake Water Credits. Not applicable.

IV. EFFLUENT MONITORING REQUIREMENTS (EFF-001).

- A.** The Discharger shall monitor the effluent at Monitoring Location EFF-001 as specified in Table D-3 below. Effluent samples shall be representative of the volume and quality of the discharge. Effluent samples shall be collected during or immediately following pond cleaning or administration of drug or chemical treatments and must be representative of the volume and quality of the discharge at the time when representative levels of solids, drugs, chemicals, or other pollutants are present in the discharge. Time of collection of samples shall be recorded.

Table D-3. Effluent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency
Flow	cfs	Meter	1/month
Total Suspended Solids (TSS)	mg/L	Grab	1/year
Net TSS (effluent minus influent)	mg/L	Net Calculation	1/year
Turbidity	NTU	Grab	1/quarter
pH	S.U.	Grab	1/quarter
Electrical Conductivity @ 25 degrees Celsius	µmhos/cm	Grab	1/quarter

Table D-3 Testing Requirements. The Discharger shall comply with the following testing requirements when monitoring for the parameters described in Table D-3.

1. Parameters shall be analyzed using the analytical methods described in 40 C.F.R. Part 136 or by methods approved by the Central Valley Water Board or the State Water Board.
2. Electrical conductivity and TSS samples shall be collected during the expected months of highest feeding.
3. Constituents shall be monitored using analytical methods with sufficiently sensitive reporting levels consistent with the SSM Rule specified in 40 C.F.R. 122.21(e)(3) and 122.44(i)(1)(iv).

B. Effluent Monitoring for Facilities with Intake Water Credits. Not applicable.

V. LAND DISCHARGE MONITORING REQUIREMENTS.

A. Septic Tank/Leachfields. Not applicable.

B. Sewage Lagoons. Not applicable.

VI. RECEIVING WATER MONITORING REQUIREMENTS.

A. Sampling Locations. Receiving water samples shall be collected from Monitoring Locations RSW-001 and RSW-002 as specified below.

B. Receiving Water Observations. In conducting the receiving water sampling, a log shall be kept of the receiving water conditions. Attention shall be given to the presence or absence of:

- a. Floating or suspended matter
- b. Discoloration
- c. Bottom deposits
- d. Aquatic life
- e. Visible films, sheens, or coatings
- f. Fungi, slimes, or objectionable growths
- g. Potential nuisance conditions

Notes on receiving water conditions shall be summarized in the monitoring report.

C. Receiving Water Monitoring. The Discharger shall monitor the receiving water at Monitoring Locations RSW-001 and RSW-002 as follows:

Table D-4. Receiving Water Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency
Dissolved Oxygen	mg/L	Grab	1/quarter
Temperature	Degrees C	Grab	1/quarter
Turbidity	NTU	Grab	1/quarter
pH	S.U.	Grab	1/quarter
Electrical Conductivity @ 25 degrees Celsius	µmhos/cm	Grab	1/quarter

Table D-4 Testing Requirements. Parameters shall be analyzed using the analytical methods described in 40 C.F.R. Part 136 or by methods approved by the Central Valley Water Board or the State Water Board.

VII. OTHER MONITORING REQUIREMENTS.

A. Monthly Drug and Chemical Use Report. The Discharger shall develop a monthly drug and chemical use report in accordance with CAAP General Order, Attachment C, Section IX.A describing all aquaculture drugs or chemicals used at the Facility. The report shall be submitted with the quarterly self-monitoring reports.

- B. Priority Pollutant Metals Monitoring.** In accordance with CAAP General Order, Attachment C, Section IX.B., the Discharger shall monitor the effluent (Monitoring Location EFF-001) and the upstream receiving water (Monitoring Location RSW-001) for the metals listed in Table G-1 of the CAAP General Order once during the term of the CAAP General Order. **The monitoring shall occur no later than 1 January 2023.** The Discharger shall electronically submit the priority pollutants metals monitoring results using the State Water Board's [California Integrated Water Quality System](http://www.waterboards.ca.gov/water_issues/programs/ciwqs) (CIWQS) Program Web site (http://www.waterboards.ca.gov/water_issues/programs/ciwqs) **within 60 days of the final sampling event.** Refer to CAAP General Order, Attachment G for the specific monitoring requirements. Constituents shall be monitored consistent with an approved Analytical Methods Report using analytical methods with sufficiently sensitive reporting levels consistent with the SSM Rule specified in 40 C.F.R. 122.21(e)(3) and 122.44(i)(1)(iv).
- C. Annual Feeding and Production Report.** The Discharger shall develop an annual feeding and production report in accordance with CAAP General Order, Attachment C, Section IX.C. The annual report shall be submitted on **1 February, annually**, and included the following information:
1. Monthly food usage in pounds for each calendar month.
 2. Annual production of aquatic animals in pounds per year.

VIII. REPORTING REQUIREMENTS

- A. General Monitoring and Reporting Requirements.** The Discharger shall comply with the General Monitoring and Reporting Requirements specified in the CAAP General Order, Attachment C, Section X.A.
- B. Self-Monitoring Reports (SMRs).** The Discharger shall comply with the Self-Monitoring Report requirements specified in the CAAP General Order, Attachment C, Section X.B. Monitoring in accordance with the renewed CAAP General Order is required to begin on the effective date of **1 July 2021**. SMRs are required to be submitted quarterly and annually. The Discharger shall comply with the reporting requirements specified in CAAP General Order, Attachment C, Section X. The first SMR required under the renewed CAAP General Order is due **1 November 2021** and shall include monitoring conducted from 1 July through 30 September 2021. Table D-5, below, summarizes the SMR due dates required under the CAAP General Order. Quarterly monitoring reports must be submitted until your coverage is formally terminated in accordance with the CAAP General Order, even if there is no discharge during the reporting quarter.

Table D-5. SMRs required in the MRP (Attachment C, CAAP General Order)

Sampling Frequency	Monitoring Period Begins On	Monitoring Period	SMR Due Date
1/month	1 July 2021	First day of calendar month through last day of calendar month	1 May (1 Jan – 31 Mar) 1 Aug (1 Apr – 30 Jun) 1 Nov (1 Jul – 30 Sep) 1 Feb of following year (1 Oct – 31 Dec)
1/quarter	1 July 2021	1 January through 31 March 1 April through 30 June 1 July through 30 September 1 October through 31 December	1 May 1 Aug 1 Nov 1 Feb of following year
1/year	1 July 2021	January 1 through December 31	1 Feb of following year

C. Other Reports

1. Analytical Methods Report. The Discharger shall complete and submit an Analytical Methods Report for the priority pollutant metals monitoring by **16 August 2021**. The Analytical Methods Report shall include the following for each constituent to be monitored in accordance with this Order: 1) applicable water quality objective, 2) reporting level (RL), 3) method detection limit (MDL), and 4) analytical method. The analytical methods shall be sufficiently sensitive with RLs consistent with the SSM Rule per 40 C.F.R. 122.21(e)(3) and 122.44(i)(1)(iv), and with the Minimum Levels (MLs) in the SIP, Appendix 4. The “Reporting Level or RL” is synonymous with the “Method Minimum Level” described in the SSM Rule. If an RL is not less than or equal to the applicable objective for a constituent, the Discharger shall explain how the proposed analytical method complies with the SSM Rule. Central Valley Water Board staff will provide a tool with the NOA to assist the Discharger in completing this requirement. The tool will include the constituents and associated applicable water quality objectives to be included in the Analytical Methods Report.

ENCLOSURE E – APPROVED AQUACULTURE DRUGS AND CHEMICALS USE

The following chemicals are used at the Facility for cleaning. Per Discharge Prohibition IV.D of the CAAP General Order, the discharge of hazardous or toxic substances including cleaning chemicals, solvents, oil, grease or other petroleum products, is prohibited.

Table E-1. Approved Aquaculture Drugs and Chemical Use

Drug or Chemical	Maximum Amount Used	Method of Application	Maximum Amount in Effluent
Chlorine	0.5 pints/week	Used for cleaning storage tanks and buckets	Not discharged to surface water