

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

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**DRAFT ORDER NO. R3-2020-0004
NPDES NO. CA3000001**

**DRAFT WASTE DISCHARGE REQUIREMENTS
FOR THE CAYUCOS SANITARY DISTRICT WATER RESOURCE RECOVERY FACILITY
DISCHARGE TO THE PACIFIC OCEAN**

The following Discharger is subject to waste discharge requirements (WDRs) as set forth in this Order:

Table 1. Discharger Information

Discharger	Cayucos Sanitary District
Name of Facility	Cayucos Sanitary District Water Resource Recovery Facility
Facility Address	800 Toro Creek Road
	Morro Bay, CA 93443
	San Luis Obispo County

Table 2. Discharge Location

Discharge Point	Effluent Description	Discharge Point Latitude	Discharge Point Longitude	Receiving Water
001	Secondary Treated Municipal Wastewater	35° 24' 44.10" N	120° 53' 10.02" W	Pacific Ocean
002	Disinfected Tertiary Recycled Municipal Wastewater	--	--	Reclamation Use

Table 3. Administrative Information

This Order was adopted by the Central Coast Water Board on:	May <u>July 16-17</u> , 2020
This Order shall become effective on:	July <u>December 1</u> , 2020
This Order shall expire on:	June 30 <u>November</u> 30, 2025
The Discharger shall file a Report of Waste Discharge as an application for reissuance of waste discharge requirements <u>WDRs</u> in accordance with Title 23, California Code of Regulations (<u>CCR</u>), and an application for reissuance of a National Pollutant Discharge Elimination System (NPDES) permit no later than:	January <u>June 31</u> , 2025
The U.S. Environmental Protection Agency (U.S. EPA) and the Central Coast Water Board have classified this discharge as follows:	Minor

I, Matthew T. Keeling, Executive Officer, do hereby certify that this order with all attachments is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Central Coast Region on the date indicated above.

DRAFT ONLY

Matthew T. Keeling, Executive Officer

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I. FACILITY INFORMATION

Information describing the Cayucos Sanitary District (hereinafter Discharger) Water Resource Recovery Facility (hereinafter Facility) is summarized in Table 1 and in sections I and II of the Fact Sheet (Attachment F). Section I of the Fact Sheet also includes information regarding the Facility's permit application.

II. FINDINGS

The California Regional Water Quality Control Board, Central Coast Region (hereinafter Central Coast Water Board) finds:

A. Legal Authorities. This Order serves as waste discharge requirements (WDRs) pursuant to article 4, chapter 4, division 7 of the California Water Code (commencing with section 13260). This Order includes water reclamation requirements authorizing production of disinfected tertiary recycled water. This Order is also issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the [U.S. Environmental Protection Agency \(-U.S. EPA\)](#) and chapter 5.5, division 7 of the [California](#) Water Code (commencing with section 13370). It shall serve as a National Pollutant Discharge Elimination System (NPDES) permit authorizing the Discharger to discharge into waters of the United States at the discharge location described in Table 2 subject to the WDRs in this Order.

B. Background and Rationale for Requirements. The Central Coast Water Board developed the requirements in this Order based on information submitted as part of the application, through monitoring and reporting programs, and other available information. The Fact Sheet (Attachment F), which contains background information and rationale for the requirements in this Order, is hereby incorporated into and constitutes Findings for this Order. Attachments A through E are also incorporated into this Order.

C. Provisions and Requirements Implementing State Law. ~~The~~Some provisions/requirements in ~~subsections IV.B, IV.C, V.B, and VI.C.6~~this Order that are included to implement state law only. These provisions/requirements are not required or authorized under the federal CWA; consequently, violations of these provisions/requirements are not subject to the enforcement remedies that are available for NPDES violations.

~~C.D.~~ California Water Code Sections 13263 and 13241 Considerations. When requirements in an NPDES permit are more stringent than what is required by the federal CWA, the Regional Water Quality Control Boards must consider the factors in California Water Code section 13263, including the provisions of California Water Code section 13241. The Central Coast Water Board has considered these factors in establishing the WDRs in this Order.

~~D.E.~~ Water Reclamation Requirements for Recycled Water Production and Use. This Order allows the production and onsite use of disinfected tertiary recycled wastewater in compliance with applicable state and local requirements regarding the production and use of reclaimed wastewater, including those requirements established by the California Department of Public Health at title 22, sections 60301 - 60357 of the California Code of Regulations (CCR), Water Recycling Criteria. Additionally, this

Order includes water reclamation requirements for the Facility pursuant to the State Water Resources Control Board's (State Water Board's) Division of Drinking Water recommendations submitted to the Central Coast Water Board. The distribution and offsite reuse of recycled water produced by the Facility is subject to the State Water Resources Control Board's (State Water Board) General Water Reclamation Requirements for Recycled Water Use (State Water Board Order No. WQ 2016-0068-DDW), or other applicable permit, dependent on final use.

E.F. Response to Climate Change. Climate change refers to observed changes in regional weather patterns such as temperature, precipitation, and storm frequency and size. At the local scale, within urbanized areas, climate change may directly impact groundwater and surface water supply; drainage, flooding, and erosion patterns; and ecosystems and habitat. This shift in climate, combined with California's growing population, has increased reliance on pumping, conveying, treating, and heating water, increasing the water sector's greenhouse gas emissions. The State Water Board's Resolution No. 2017-0012, "Comprehensive Response to Climate Change," requires a proactive response to climate change in all California Water Board actions, with the intent to embed climate change consideration into all programs and activities. Aligning with Resolution No. 2017-0012, this Order requires the Discharger to identify and assess the viability of beneficial reuse options for ~~of the Facility's treated effluent to as identified in the State Water Board's Water Quality Control Policy for Recycled Water: provide safe alternatives to fresh water or potable water for approved uses; support sustainable groundwater and surface water uses with the intent of substituting use of treated effluent for use of fresh water or potable water; and diversify community water supplies and mitigate the impacts of climate change augment local water supply, increasing water supply reliability as a climate adaptation strategy, in addition to decreasing ocean discharges.~~ The Discharger's wastewater was previously treated and discharged from a facility in an area subject to coastal hazards and vulnerabilities. Aligning with Resolution No. 2017-0012, the Discharger sited this new Facility away from coastal hazards and vulnerabilities. To proactively plan for the future, this Order requires the Discharger to continue to identify and plan for hazards and vulnerabilities at this new Facility related to flooding, temperature, and influent flow and loading fluctuations exacerbated by climate changes.

F.G. Requirements to Provide Provision of Treated Effluent for Beneficial Reuse. ~~Subsection Section~~ VI.C.6 of this Order requires the Discharger to prepare a the Recycled Water Management Plan – Phase II to describe in detail how the Discharger will maximize the amount of the Facility's treated effluent used for beneficial reuse, with the goal of achieving maximum beneficial reuse for the beneficial reuse of the Facility's treated effluent. This requirement provision implements the State policy and goals for recycled water. To support water supply diversity and sustainability and to encourage the increased use of recycled water in California, the State Water Board's Water Quality Control Policy for Recycled Water adopts goals to increase the use of recycled water and to reuse all dry weather direct discharges of treated wastewater to ocean waters that can be viably put to a beneficial use.

Additionally, ~~the California Constitution, Article 10, Section 2 declares in relevant part~~

~~“that the water resources of the State be put to beneficial use to the fullest extent of which they are capable, and that the waste... of water be prevented.”~~ Recycled water is considered ~~such~~ a valuable resource in California Water Code section 13050(n), which ~~further~~ defines recycled water as a water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur.

Finally, State Water Board Resolution No. 68-16, the antidegradation policy, supports the inclusion of recycled water management planning requirements~~a Recycled Water Management Plan~~. Consistent with ~~the~~ antidegradation policy, this Order results in the requires the use of best practicable treatment or control of the to manage the Facility’s discharge to ensure that pollution or nuisance will not occur and that the highest water quality consistent with maximum benefit to the people of the State will be maintained. For this Order, which takes into consideration ~~With~~ the state of technology today, and environmental conditions ~~which that~~ necessitate the reuse of treated wastewater, recycling treated wastewater where viable is the best practicable treatment or control. ~~means recycling treated wastewater where feasible~~. Recycling treated wastewater, as opposed to disposing of this valuable resource to ocean waters, is critical to provide the maximum benefit to and to promote the health and welfare of the people of the state. Additionally, Attachment F explains how future the Recycled Water Management Plan implementation of proposed beneficial reuses identified in the recycled water management plans ~~may~~ result in production of a waste or increased volume or concentration of waste and discharge to a new location of existing high quality waters, but the implementation of beneficial reuses pursuant to of the plans will be consistent with the maximum benefit for the people of the state.

G. Long Term Planning and Implementation. Federal regulations require NPDES permits to expire five years after their effective dates, after which the permit may be administratively extended prior to renewal. Planning and instituting measures to support long-term beneficial reuse of the Facility’s treated effluent may span multiple permit terms. As a result, this Order includes requirements for the Discharger to propose next steps for making progress towards beneficial reuse of the Facility’s treated effluent that the Central Coast Water Board plans to use to inform carry over into future permit terms.

H.

H.I. Human Right to Water. In Resolution No. R3-2017-0004, the Central Coast Water Board resolved to continue to consider the human right to water in all activities that could affect existing or potential sources of drinking water, including permitting. This Order is consistent with Resolution No. R3-2017-0004 by requiring the Facility to plan for providing treated effluent for beneficial reuse, which may include augmenting the local community’s drinking water supplies supply to prepare for uncertainties in water resources due improve water supply resiliency in response to to the changing climate change.

J.J. Disadvantaged Community Status. Based on 2016 census data, the California Department of Water Resources Disadvantaged Community (DAC) Mapping Tool¹ identifies one block group in the community of Cayucos, including approximately one quarter of the population, as a disadvantaged community. The tool defines a DAC as a census block with a median household income between \$38,270 and \$51,026. The DAC census block in Cayucos has a median household income of \$38,523.

J.K. California Environmental Quality Act. Under [California](#) Water Code section 13389, this action to adopt an NPDES permit for the discharge of waste to surface waters is exempt from the California Environmental Quality Act (CEQA) provisions in Public Resources Code, Division 13, Chapter 3.

This action to adopt new recycling requirements for the Facility to produce disinfected tertiary recycled wastewater is not exempt from the provisions of CEQA. The Discharger certified a final Environmental Impact Report (EIR) for the Cayucos Sustainable Water Project on April 20, 2017, pursuant to the provisions of CEQA. The Central Coast Water Board, as a responsible agency under CEQA, has reviewed and considered the EIR and makes its own conclusions on whether and how to approve the recycling requirements for the Facility. The EIR identified potentially significant environmental effects from construction-stage erosion and sedimentation until the proposed containment basin is functioning and captures site stormwater runoff. To mitigate these impacts, the Discharger is required to enroll in the NPDES General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities, if applicable.

K.L. Notification of Interested Persons. The Central Coast Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe WDRs for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Details of the notification are provided in the Fact Sheet.

L.M. Consideration of Public Comment. The Central Coast Water Board, in a public meeting, heard and considered all comments pertaining to the discharge. Details of the [pPublic H](#)earing are provided in the Fact Sheet.

THEREFORE, IT IS HEREBY ORDERED, that in order to meet the provisions contained in division 7 of the [California](#) Water Code (commencing with section 13000) and regulations adopted thereunder and the provisions of the CWA and regulations and

¹ The DAC Mapping Tool is used to inform statewide Integrated Water Resources Management (IRWM), Sustainable Groundwater Monitoring Act (SGMA), and California Water Plan implementation efforts and can be found at the following website: <https://gis.water.ca.gov/app/dacs/>.

guidelines adopted thereunder, the Discharger shall comply with the requirements in this Order.

III. DISCHARGE PROHIBITIONS

- A. Discharge of treated wastewater to the Pacific Ocean at a location other than as described by this Order at 35° 24' 44.10" N Latitude and 120° 53' 10.02" W Longitude is prohibited.
- B. Discharges of any waste in any manner other than as described by this Order are prohibited.

~~C. The average annual daily effluent flow, at Discharge Point No. 001, shall not exceed 0.34 million gallons per day (MGD). The maximum daily effluent flow, at Discharge Point No. 001, shall not exceed 1.2 MGD. The average annual daily rate of discharge to the Pacific Ocean shall not exceed 0.34 million gallons per day (MGD).~~

~~C.~~

- D. The discharge of any radiological, chemical, or biological warfare agent or high-level radioactive waste to the ocean is prohibited.
- E. Pipeline discharge of sludge to the ocean is prohibited by federal law. The discharge of municipal or industrial waste sludge directly to the ocean, or into a waste stream that discharges to the ocean, is prohibited by the California Ocean Plan (Ocean Plan). The discharge of sludge digester supernatant directly to the ocean or to a waste stream that discharges to the ocean without further treatment is prohibited.
- F. The overflow or bypass of wastewater from the Discharger's collection, treatment, or disposal facilities and the subsequent discharge of untreated or partially treated wastewater, except as provided for in Attachment D, Standard Provision I.G.a (Bypass), is prohibited.
- G. The discharge of materials and substances in the wastewater that results in any of the following is prohibited:
 - 1. Float or become floatable upon discharge.
 - 2. May form sediments which degrade benthic communities or other aquatic life.
 - 3. Accumulate to toxic levels in marine waters, sediments, or biota.
 - 4. Decrease the natural light to benthic communities and other marine life.
 - 5. Result in aesthetically undesirable discoloration of the ocean surface.

IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

A. Effluent Limitations

1. Final Effluent Limitations – Discharge Point No. 001

~~a. Flow Rate of Discharge. Average annual daily effluent flow, at Discharge Point No. 001, shall not exceed 0.34 million gallons per day (MGD). Maximum daily effluent flow, at Discharge Point No. 001, shall not exceed 1.2 MGD.~~

b.a. The Discharger shall maintain compliance with the following effluent limitations at Discharge Point No. 001, with compliance measured at Monitoring Location EFF-001 as described in Attachment E, the Monitoring and Reporting Program (MRP):

Table 4. Effluent Limitations for Conventional Pollutants

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand 5-day @ 20°C (BOD ₅)	mg/L	30	45	90	---	---
	<u>lbs/day</u>	<u>93</u>	<u>139</u>	<u>278</u>		
Total Suspended Solids (TSS)	mg/L	30	45	90	---	---
	<u>lbs/day</u>	<u>93</u>	<u>139</u>	<u>278</u>		
pH	standard units	---	---	---	6.0	9.0
Oil and Grease	mg/L	25	40	75	---	---
	lbs/day	74 <u>77</u>	113 <u>123</u>	231 <u>243</u>	---	---
Settleable Solids	ml/L	1.0	1.5	3.0	---	---
Turbidity	NTU	75	100	225	---	---

e.b. Percent Removal. The average monthly percent removal of BOD₅ and TSS shall not be less than 85 percent.

B. Land Discharge Specifications – Not Applicable

C. Recycling Specifications – Discharge Point No. 002

As specified below, this Order conditionally authorizes the Discharger to act as the producer of recycled (or reclaimed) water and to reuse recycled water onsite at the Facility. The Discharger is responsible for compliance with all applicable requirements associated with the production and onsite use of recycled water as specified within this Order. The distribution and offsite reuse of recycled water produced by the Facility is subject to State Water Board Order No. WQ 2016-0068-DDW, *State Water Board General Water Reclamation Requirements for Recycled Water Use*, or other applicable permit, dependent on final use.

1. Reclamation and use of tertiary treated wastewater shall adhere to applicable requirements of [CWC-California Water Code](#) sections 13500-13577 (Water Reclamation); [California Code of Regulations CCR](#) title 17 sections 7583-7586; title 17 sections 7601-7605; and [Title 22](#) sections 60301-60355 (Uniform Statewide Recycling Criteria).

2. Recycled water production shall comply with the Discharger's December 13, 2019 ~~¶~~title 22 engineering report, conditionally approved by the State Water Board's Division of Drinking Water on December 18, 2019, ~~that which~~ demonstrates ~~or~~ and defines compliance with the Uniform Statewide Recycling Criteria (and amendments). To receive final ~~¶~~title 22 engineering report approval, the State Water Board's Division of Drinking Water requires the Discharger update its ~~¶~~title 22 engineering report to incorporate sufficient detail about the ultraviolet (UV) disinfection system and onsite performance proving the system can provide sufficient disinfection.
3. Recycled water shall be disinfected tertiary recycled water, as defined by ~~¶~~title 22 section 60301.230.
4. Recycled water shall be adequately oxidized, filtered, and disinfected, as defined in ~~¶~~title 22.
5. Filtered recycled water shall be passed through a microfiltration, ultrafiltration, nanofiltration, or reverse osmosis membrane so that turbidity of the filtered wastewater does not exceed any of the following:
 - a. 0.2 Nephelometric Turbidity Unit (NTU) more than 5 percent of the time within a 24-hour period; and
 - b. 0.5 NTU at any time.
6. The concentration of total coliform bacteria measured at Monitoring Location RCY-001 (after disinfection) shall not exceed the following limits:
 - a. A median most probable number (-MPN) of 2.2 per 100 mL utilizing the bacteriological results of the last seven days for which analyses have been completed, ~~and~~
 - b. An MPN of 23 per 100 mL in more than one sample in any 30-day period, and
 - b.c. - An MPN of 240 total coliform bacteria per 100 mL in any one sample.
7. The Discharger shall adhere to the below listed conditions for the Xylem Water Solutions WEBECO LBX 1500E UV disinfection system and any updated disinfection conditions. Wastewater shall be disinfected pursuant to specifications in the updated ~~¶~~title 22 engineering reports approved by the State Water Board's Division of Drinking Water and any conditions of approval specified by the State Water Board's Division of Drinking Water, including but not limited to parameters for maximum plant flow, ultraviolet transmittance (UVT), UV intensity, absorbance, and dosage. Some provisions require State Water Board's Division of Drinking Water and Central Coast Water Board Executive Officer approval prior to operation of the proposed UV disinfection system.-
 - a. The Xylem Water Solutions WEDECO LBX 1500E UV disinfection system must be preceded by filtration meeting the definition of "filtered wastewater" under CCR, title 22, section 60301.320.

- b. Conditional acceptance for the Xylem Water Solutions LBX 1500E UV disinfection system is limited to the following parameter ranges:
- i. Up to the maximum that is tested during full-scale UV commissioning, not to exceed 13.5 MGD per reactor;
 - ii. UVTs at or above the minimum that is tested during full-scale UV commissioning, not to be below 34.7 percent;
 - iii. UV sensor intensities ranging from 17.2 to 310.7 W/m²; and
 - iv. Power range 50 to 100 percent.
- c. The following two empirical equations based on the performance data collected during the validation test must be used for calculation of the RED value in actual installations. These equations are to be used as part of the automatic UV disinfection control system for calculating UV dose.

$$S_{pred} = (A \times B^{UVA} \times UVA^C) \times (D \times E + F \times PL^G) / (E \times PL^G)$$

$$RED_{MS2} = 0.929 \times 10^{A+B \times UVA} \times UVA^{C+D \times UVA} \times [S / S_{pred,100\%} / Q]^{E+F \times UVA^2}$$

Where:

S_{pred} = Predicted UV sensor value (W/m²)

UVA = UV absorbance at 254 nm

S = Measured UV sensor intensity value (W/m²)

S_{pred,100%} = Predicted UV intensity at full lamp power, corresponding to new lamps with clean sleeves (W/m²)

PL = Percent ballast power setting (100% = 100)

RED_{MS2} = UV dose per reactor (mJ/cm²)

Q = Flow rate in MGD²

A - G = Empirical constants, whose values are listed in the validation report for each equation

- d. To verify performance on the site-specific recycled water, upon completion of construction and prior to operation, an on-site check-point bioassay must be performed on the reactor using seeded MS2 coliphage as described in 2012 NWRI UV Guidelines. The on-site bioassay protocol must be approved by the State Water Board's Division of Drinking Water and Central Coast Water Board Executive Officer and must be conducted over a range of flows. Results, documenting virus disinfection performance of the system to the standards found in title 22 of the CCR, must be submitted to the State

² At flow rates below 0.5 MGD, this value (0.5 MGD) should be used as the default value in the RED calculation

Water Board's Division of Drinking Water and Central Coast Water Board Executive Officer for approval.

- e. Conditional acceptance is predicated upon using a calibrated germicidal sensor that meets international standards (ÖNORM) and is integral to the monitoring of the system.
- f. The WEDECO LBX 1500E disinfection system uses UV lamps by WEDECO, Lamp Part No. SO 20101, which have a maximum power of 320-watts. This validation report does not address the determination of lamp aging or lamp fouling factors. Instead, this validation is based upon dose-pacing methodology, relying on detailed and accurate UV sensor readings to confirm adequate UV dose delivery similar to drinking water UV applications, so that the regulated UV dose is delivered and the combined effects of lamp aging and sleeve fouling are incorporated.³ Detailed information related to the UV sensors to be employed under this project is presented in the 2015 report from Carollo Engineers.
- g. The accuracy and repeatability of the on-line UV sensors must be demonstrated to the State Water Board's Division of Drinking Water.
- h. On-line monitoring of flow, UV intensity, UVT, UV lamp operation hours, and power must be provided at all times.
- i. The flow meters, UV intensity sensors, and UVT analyzers must be calibrated in accordance with procedures and frequencies recommended by the manufacturers to ensure proper disinfection.
- j. At least monthly, all duty UV intensity sensors must be checked for calibration against a reference UV intensity sensor.
- k. For all UV intensity sensors in use, the ratio of the duty UV sensor intensity to the reference UV sensor intensity must be less than or equal to 1.2. If the calibration ratio is greater than 1.2, the failed duty UV sensor must be replaced by a properly calibrated sensor and recalibrated by a qualified facility. The reference UV intensity sensors shall be recalibrated at least annually by a qualified facility using a National Institute of Standards and Technology (NIST) traceable standard.

³ Since the UV Intensity sensor monitors more than one lamp, the lamps should be rotated once a quarter to ensure uniform intensity due to aging. Unless another operational procedure can be developed and demonstrated, the rotation of lamps described in the EPA UVDGM should be followed quarterly, "If UV sensors monitor more than one lamp, verify that the lamp with the lowest intensity value is closest to the UV sensor by replacing the lamp closest to the UV sensor with one-fourth of the lamps in each module (minimum of three). Place the lowest intensity lamp next to UV sensor." "If all the lamps monitored by a UV sensor are close in age (i.e., their age varies by less than 20 percent), it is not necessary to check the output of each lamp. In this case, the oldest lamp should be placed in the position nearest the UV sensor."

- [l. The duty online UVT analyzer must be inspected and checked against a reference bench-top unit to document accuracy on a weekly basis.](#)
- [m. The on-line UVT analyzer must be recalibrated if the reading varies from the bench-top spectrophotometer UVT reading by 2 percent or more. The recalibration must be conducted by a procedure recommended by the UVT analyzer manufacturer.](#)
- [n. The flow meters measuring the flow through the UV reactor must be verified to determine accuracy on a monthly basis. The verification must compare the flow meter readings with other flow determination methods.](#)
- [o. The WEDECO LBX 1500E UV disinfection system must be designed with built-in automatic reliability features that must be triggered by critical alarm setpoints.](#)
- [p. Conditions triggering an alarm and startup of the redundant UV reactor include the following:](#)
 - [i. The UV dose goes below 105 percent of the minimum UV dose](#)
 - [ii. Ballast failure](#)
 - [iii. Multiple lamp failure](#)
- [q. Conditions that should divert the UV system effluent to waste include the following:](#)
 - [i. UV dose is below the minimum UV dose](#)
 - [ii. UVT is below the minimum UVT tested during full-scale UV commissioning](#)
 - [iii. UV intensity below the minimum validated of 17.2 W/m²](#)
 - [iv. Complete UV reactor failure](#)
 - [v. Flow above the maximum that is tested during full-scale UV commissioning maximum flow, not to exceed the maximum validated of 13.5 MGD per reactor](#)
- [r. The facility should be operated in accordance with an approved operations plan, which specifies clearly the operational limits and responses required for critical alarms. Upon completion of construction and prior to operation, the operations plan shall be submitted and approved by the State Water Board's Division of Drinking Water and Central Coast Water Board Executive Officer. A copy of the approved operations plan should be maintained at the treatment plant and be readily available to operations personnel and regulatory agencies. A quick reference plant operations data sheet should be posted at the treatment plant and include the following information:](#)
 - [i. The alarm set points for flow, UV dose, UV intensity, UVT, and power.](#)

- ii. Values of flow, UV dose, UV intensity, and UVT when effluent must be diverted to waste.
 - iii. The required frequency of verification and calibration for all meters/analyzers measuring flow, UV intensity, and UV transmittance.
 - iv. The required frequency of mechanical cleaning and equipment inspection.
 - v. The UV lamp tracking procedures and replacement intervals.
 - s. The validation report did not address sleeve fouling. Each site should address the fouling potential of the wastewater. Each site must demonstrate proper cleaning procedures are in place. Proper maintenance and cleaning must be performed. The dose equation does not incorporate a fouling factor. This is not essential due to the fact that this reactor is proposed to be controlled via a calibrated germicidal sensor, which will account for the amount of lamp fouling in its intensity readings. However, the design engineer must consider fouling in the overall design capacity calculations.
 - e.f. Substitutions of equivalent equipment, including lamps, should not be accepted without an adequate demonstration of equivalent disinfection performance.
- 7-8.** Freeboard shall always exceed two feet in all recycled water storage ponds owned or operated by the Discharger.
- 8-9.** The Discharger shall discontinue delivery of recycled water to distributors and users during any period in which it has reason to believe that the limits established in this Order are not being met. The delivery of recycled water shall not be resumed until all conditions that caused the limits to be violated have been corrected.
- 9-10.** Personnel involved in producing, transporting, or using recycled water shall be informed of possible health hazards that may result from contact and use of recycled water.
- ~~10. Delivery of recycled water shall be discontinued when these recycling specifications cannot be met.~~
- 11.** All recycled water reservoirs and other areas with public access shall be posted with signs in English and an international symbol to warn the public that recycled wastewater is being stored or used.
- 12.** Recycled water systems at the Facility shall be properly labeled and regularly inspected to ensure proper operation, absence of leaks, and absence of illegal connections.

V. RECEIVING WATER LIMITATIONS

A. Surface Water Limitations

Receiving water limitations are based on water quality objectives (WQOs) contained in the Ocean Plan and are a required part of this Order. These receiving water limitations are designed to minimize the influence of this discharge to the receiving water. The Discharger shall comply with the below receiving water limitations.

1. Bacterial Characteristics

- a.** Water-Contact Standards. Within a zone bounded by the shoreline and a distance of 1,000 feet from the shoreline or the 30-foot depth contour, whichever is farther from the shoreline, and in areas outside this zone used for water contact sports, as determined by the Central Coast Water Board (i.e., waters designated REC-1), but including all kelp beds, the following bacterial objectives shall be maintained throughout the water column.
 - i.** Fecal Coliform. 30-day geometric mean of fecal coliform density not to exceed 200 per 100 milliliters (mL), calculated based on the five most recent samples from each site, and a single sample maximum not to exceed 400 per 100 mL.
 - ii.** Enterococci. A six-week rolling geometric mean of enterococci not to exceed 30 colony forming units (CFU) per 100 mL, calculated weekly, and a statistical threshold value (STV) of 110 CFU/100 mL not to be exceeded by more than 10 percent of the samples collected in a calendar month, calculated in a static manner using U.S. EPA Method 1600 or other equivalent method to measure culturable enterococci.
- b.** Shellfish Harvesting Standards. At all areas where shellfish may be harvested for human consumption, as determined by the Central Coast Water Board, the following bacterial objectives shall be maintained throughout the water column.
 - i.** The median total coliform density shall not exceed 70 per 100 mL, and not more than 10 percent of the samples shall exceed 230 per 100 mL.
- c.** The “Initial Dilution Zone” of wastewater outfalls shall be excluded from designation as kelp beds for the purposes of bacterial standards. Adventitious assemblages of kelp plants on waste discharge structures (e.g., outfall pipes and diffusers) do not constitute kelp beds for purposes of bacterial standards.

2. Physical Characteristics

- a.** Floating particulates and grease and oil shall not be visible on the ocean surface.
- b.** The discharge of waste shall not cause aesthetically undesirable discoloration of the ocean surface.
- c.** Natural light shall not be significantly reduced at any point outside the zone of initial dilution as the result of the discharge of waste.

- d. The rate of deposition of inert solids and the characteristics of inert solids in ocean sediments shall not be changed such that benthic communities are degraded.
- e. Temperature of the receiving water shall not be altered to adversely affect beneficial uses, as set forth in the *Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuaries of California* (Thermal Plan).

3. Chemical Characteristics

- a. The dissolved oxygen concentration shall not, at any time, be depressed more than 10 percent from that which occurs naturally, or fall below 5.0 mg/L, as the result of the discharge of oxygen demanding waste materials. The mean annual dissolved oxygen concentration shall not be less than 7.0 mg/L.
- b. The pH shall not be changed at any time more than 0.2 units from that which occurs naturally and shall be within the range of 7.0 to 8.5 at all times.
- c. The dissolved sulfide concentrations of waters in and near sediments shall not be significantly increased above that present under natural conditions.
- d. The concentrations of substances set forth in Table 3 of the Ocean Plan shall not be increased in marine sediments to that which would degrade indigenous biota.
- e. The concentration of organic materials in marine sediments shall not be increased to that which would degrade marine life.
- f. Nutrient materials shall not cause objectionable aquatic growth or degrade indigenous biota.
- g. Numerical WQOs established in Table 3 of the Ocean Plan apply to all discharges within the jurisdiction of the Ocean Plan. Unless otherwise specified, all metal concentrations are expressed as total recoverable concentrations.

4. Biological Characteristics

- a. Marine communities, including vertebrate, and plant species, shall not be degraded.
- b. The natural taste, odor, and color of fish, shellfish, or other marine resources used for human consumption shall not be altered.
- c. The concentration of organic materials in fish, shellfish, or other marine resources used for human consumption shall not bioaccumulate to levels that are harmful to human health.

5. Radioactivity

- a. Discharge of radioactive waste shall not degrade marine life.
- b. Radionuclides shall not be present in concentrations that are deleterious to human, plant, animal, or aquatic life; or result in the accumulation of

radionuclides in the food web to an extent that presents a hazard to human, plant, animal, or aquatic life.

6. General Standards

- a. The discharge shall not cause a violation of any applicable WQO or standard for receiving waters adopted by the Central Coast Water Board or State Water Board, as required by the CWA and regulations adopted thereunder.
- b. Waste management systems that discharge to the ocean must be designed and operated in a manner that will maintain the indigenous marine life and a healthy and diverse marine community.
- c. Waste effluents shall be discharged in a manner that provides sufficient initial dilution to minimize the concentrations of substances not removed in the treatment.

B. Groundwater Limitations – Not Applicable

VI. PROVISIONS

A. Standard Provisions

1. **Federal Standard Provisions.** The Discharger shall comply with all Standard Provisions included in Attachment D.
2. **Central Coast Water Board Standard Provisions.** The Discharger shall comply with all Central Coast Water Board-specific Standard Provisions also included in Attachment D of this Order.

B. Monitoring and Reporting Program (MRP) Requirements

Pursuant to [California](#) Water Code sections 13267 and 13383, the Discharger shall comply with the MRP, and future revisions thereto, in Attachment E of this Order, and all notification and general reporting requirements throughout this Order and Attachment D. Where notification or general reporting requirements conflict with those stated in the MRP (e.g., annual report due date), the Discharger shall comply with the MRP requirements. All monitoring shall be conducted according to [Title 40 of the Code of Federal Regulations \(40 C.F.R.\)](#) part 136, *Guidelines Establishing Test Procedures for Analysis of Pollutants*.

The Discharger is required to provide technical or monitoring reports because it is the owner and operator responsible for the waste discharge and compliance with this Order. The Central Coast Water Board needs this information to determine the Discharger's compliance with this Order, assess the need for further investigation or enforcement action, and to protect public health and safety and the environment.

C. Special Provisions

1. Reopener Provisions

- a. This Order may be reopened and modified in accordance with NPDES regulations at 40 C.F.R. parts 122 and 124, as necessary, to include

additional conditions or limitations based on newly available information or to implement any U.S. EPA-approved, new State WQO.

- b. This Order may be reopened for modification to include an effluent limitation if monitoring establishes that the discharge causes, has the reasonable potential to cause, or contributes to an excursion above a California Ocean Plan (Ocean Plan) Table 3 WQO.

2. Special Studies, Technical Reports and Additional Monitoring Requirements

a. Toxicity Notification Requirements

The Discharger shall notify the Central Coast Water Board and U.S. EPA in writing within 14 days of exceedance of a chronic toxicity trigger of 386.3 TUc ([Toxicity Units Chronic](#)). This notification shall describe actions the Discharger has taken or will take to investigate, identify, and correct the causes of toxicity; the status of actions required by this permit; and schedule for actions not yet completed; or reason(s) that no action has been taken.

b. Toxicity Reduction Requirements

If the discharge consistently exceeds the chronic toxicity trigger of 386.3 TUc, the Discharger shall conduct a Toxicity Reduction Evaluation (TRE) defined in accordance with the Discharger's TRE Workplan.

A TRE is a study conducted in a stepwise process designed to identify the causative agents of effluent or ambient toxicity, isolate the sources of toxicity, evaluate the effectiveness of toxicity control options, and then confirm the reduction in toxicity. The first step of the TRE consists of the collection of data relevant to the toxicity, including additional toxicity testing, and an evaluation of facility operations and maintenance practices, and best management practices. A Toxicity Identification Evaluation (TIE) may be required as part of the TRE, if appropriate. A TIE is a set of procedures to identify the specific chemical(s) responsible for toxicity. These procedures are performed in three phases – characterization, identification, and confirmation using aquatic organism's toxicity tests. The TRE shall include all reasonable steps to identify the source of toxicity. The Discharger shall take all reasonable steps to reduce toxicity to the required level once the source of toxicity is identified.

The Discharger shall develop and maintain a TRE Workplan, which describes steps that the Discharger intends to follow in the event that a toxicity trigger established by this Order is exceeded in the discharge. The workplan shall be prepared in accordance with current technical guidance and reference material, including:

- i. Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants (EPA/833/B-99-022).
- ii. Toxicity Identification Evaluation, Phase I (EPA/600/6-91/005F).

- iii. Methods for Aquatic Toxicity Identification Evaluations, Phase II (EPA/600/R-92/080).
- iv. Methods for Aquatic Toxicity Identification Evaluations, Phase III (EPA/600/R-92/081).

At a minimum, the TRE Workplan shall include:

- i. Actions that will be taken to investigate/identify the causes/sources of toxicity,
- ii. Actions that will be evaluated to mitigate the impact of the discharge, to correct the non-compliance, and/or to prevent the recurrence of acute or chronic toxicity (this list of action steps may be expanded, if a TRE is undertaken), and
- iii. A schedule under which these actions will be implemented.

When monitoring measures chronic toxicity in the effluent above 386.3 TUc the Discharger shall resample immediately, if the discharge is continuing, and retest for chronic toxicity. Results of an initial failed test and results of subsequent monitoring shall be reported to the Central Coast Water Board Executive Officer as soon as possible following receipt of monitoring results, not to exceed 15 days from the conclusion of each test. The Central Coast Water Board Executive Officer will determine whether to initiate enforcement action, whether to require the Discharger to implement a TRE, or to implement other measures. When the Central Coast Water Board Executive Officer requires the Discharger to conduct a TRE, the TRE shall be conducted giving due consideration to guidance provided by the U.S. EPA's *Toxicity Reduction Evaluation Procedures, Phases 1, 2, and 3* (EPA document Nos. EPA 600/R-91/003, 600/6/91/005F, and 600/R-92/080, and 600/R-92/081, respectively). A TRE, if necessary, shall be conducted in accordance with the following schedule.

Table 6. Toxicity Reduction Evaluation Schedule

Action Step	When Required
Take all reasonable measures necessary to immediately reduce toxicity, where the source is known.	Within 24 hours of identification of noncompliance.
Initiate the TRE in accordance to the Workplan.	Within 7 days of notification by the Central Coast Water Board Executive Officer.
Conduct the TRE following the procedures in the Workplan.	Within the period specified in the Workplan (not to exceed one year, without an approved Workplan).
Submit the results of the TRE, including summary of findings, required corrective action, and all results and data.	Within 60 days of completion of the TRE.
Implement corrective actions to meet Permit limits and conditions.	To be determined by the Central Coast Water Board Executive Officer.

c. Initial Investigation TRE Workplan for Whole Effluent Toxicity

Within 90 days of the permit effective date, the Discharger shall prepare and submit a copy of their Initial Investigation ~~Toxicity Reduction Evaluation (TRE)~~ Workplan (1-2 pages) to the Central Coast Water Board for review. This plan shall include steps the Discharger intends to implement if toxicity is measured above a toxicity trigger and should include, at minimum:

- i. A description of the investigation and evaluation techniques that would be used to identify potential causes and sources of toxicity, effluent variability, and treatment system efficiency.
- ii. A description of methods for maximizing in-house treatment system efficiency, good housekeeping practices, and a list of all chemicals used in operations at the facility.
- iii. If a ~~Toxicity Identification Evaluation (TIE)~~ is necessary, an indication of who would conduct the TIEs (i.e., an in-house expert or outside contractor).

This workplan is subject to approval and modification by the Central Coast Water Board.

d. Accelerated Toxicity Testing and TRE/TIE Process for Whole Effluent Toxicity

- i. If the toxicity trigger is exceeded and the source of toxicity is known (e.g., a temporary plant upset), then the Discharger shall conduct one additional toxicity test using the same species and test method. This test shall begin within 14 days of receipt of test results exceeding the toxicity

trigger. If the additional toxicity test does not exceed the toxicity effluent trigger, then the Discharger may return to their regular testing frequency.

- ii. If the toxicity trigger is exceeded and the source of toxicity is not known, then the Discharger shall conduct six additional toxicity tests using the same species and test method, approximately every two weeks, over a 12-week period. This testing shall begin within 14 days of receipt of test results exceeding the toxicity trigger. If none of the additional toxicity tests exceed the toxicity trigger, then the Discharger may return to their regular testing frequency.
- iii. If one of the additional toxicity tests exceeds the toxicity trigger, then the Discharger shall notify the Central Coast Water Board Executive Officer and Director. If the Central Coast Water Board Executive Officer and Director determine that the discharge consistently exceeds the toxicity trigger, then the Discharger shall initiate a TRE using as guidance the U.S. EPA manuals: *Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants* (EPA 833/B-99/002, 1999) or *Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations* (EPN600/2-88/070, 1989). In conjunction, the Discharger shall develop and implement a detailed TRE Workplan which shall include: further actions undertaken by the Discharger to investigate, identify, and correct the causes of toxicity; actions the Discharger will take to mitigate the impact of the discharge and prevent the recurrence of toxicity, and a schedule for these actions. This Detailed TRE Workplan and schedule are subject to approval and modification by the Central Coast Water Board and U.S. EPA.
- iv. As part of a TRE, the Discharger may initiate a ~~Toxicity Identification Evaluation (TIE)~~ using the same species and test method, and U.S. EPA TIE guidance manuals-to identify the causes of toxicity. The U.S. EPA TIE guidance manuals are: *Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I* (EPN600/6-91/005F, 1992; only chronic toxicity); *Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures* (EPN600/6-91/003, 1991; only acute toxicity); *Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity* (EPN600/R-92/080, 1993); *Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity* (EPN600/R-92/081, 1993); and *Marine Toxicity Identification Evaluation (TIE): Phase I Guidance Document* (EPN600/R-96-054, 1996).

e. Receiving Water Monitoring for Bacteria

~~If effluent limitations for total coliform bacteria are exceeded in consecutive monitoring events,~~ the Discharger shall conduct surf zone and ocean

receiving water monitoring for bacteria, in accordance with section VIII.A of the ~~Monitoring and Reporting Program~~ MRP, if any of the following occur: 1) effluent bacterial monitoring results exceed receiving water bacterial standards for water-contact or shellfish harvesting specified in section V.A.1 of the Order 2) effluent violations that indicate potential for elevated bacteria concentrations in effluent, or 3) operational changes, plant upsets, or process failures that the Discharger determines have the potential to cause bacteria levels outside normal ranges in the effluent. Results of the increased monitoring for bacteria shall be summarized and submitted in a report to the Central Coast Water Board Executive Officer.

f. Ocean Outfall and Diffuser Inspection

At least every three years (2023 and additional years if the Order is administratively extended), the Discharger shall visually inspect the entire outfall and diffuser structure pursuant to section IX.B of the MRP.

3. Best Management Practices and Pollution Prevention

a. Pollutant Minimization Program

The Discharger shall develop and conduct a Pollutant Minimization Program (PMP) when directed by the Central Coast Water Board Executive Officer or as further described below when there is evidence (e.g., sample results reported as “Detected, but Not Quantified” (DNQ) when the effluent limitation is less than the MDL, sample results from analytical methods more sensitive than those methods required by this Order, presence of whole effluent toxicity, health advisories for fish consumption, results of benthic or aquatic organism tissue sampling) that a pollutant is present in the effluent above an effluent limitation and either:

- i. The concentration of the pollutant is reported as DNQ and the effluent limitation is less than the reported Minimum Level (ML);
- ii. The concentration of the pollutant is reported as ND and the effluent limitation is less than the MDL, using definitions described in Attachment A and reporting protocols described in MRP section X.B.4.

The PMP shall include, but not be limited to, the following actions and submittals acceptable to the Central Coast Water Board:

- i. An annual review and semi-annual monitoring of potential sources of the reportable pollutant(s), which may include fish tissue monitoring and other bio-uptake sampling;
- ii. Quarterly monitoring for the reportable pollutant(s) in the influent to the wastewater treatment system;
- iii. Submittal of a control strategy designed to proceed toward the goal of maintaining concentrations of the reportable pollutant(s) in the effluent at or below the effluent limitation;

- iv. Implementation of appropriate cost-effective control measures for the reportable pollutant(s), consistent with the control strategy; and
- v. An annual status report that shall be sent to the Central Coast Water Board including:
 - a) All PMP monitoring results for the previous year;
 - b) A list of potential sources of the reportable pollutant(s);
 - c) A summary of all actions undertaken pursuant to the control strategy; and
 - d) A description of actions to be taken in the following year.

4. Construction, Operation and Maintenance Specifications

If applicable, the Discharger must enroll in State Water Board Order 2009-0009-DWQ, NPDES General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities and any subsequent order.

The Facility shall be operated as specified under Standard Provision D of Attachment D.

5. Special Provisions for Publicly Owned Treatment Works (POTWs)

a. Biosolids Management

Provisions regarding sludge handling and disposal ensure that such activity will comply with all applicable regulations.

40 C.F.R. part 503 sets forth U.S. EPA's final rule for the use and disposal of biosolids, or sewage sludge, and governs the final use or disposal of biosolids. The intent of this federal program is to ensure that sewage sludge is used or disposed of in a way that protects both human health and the environment.

U.S. EPA's regulations require that producers of sewage sludge meet certain reporting, handling, and disposal requirements. As the U.S. EPA has not delegated the authority to implement the sludge program to the State of California, the enforcement of sludge requirements that apply to the Discharger remains under U.S. EPA's jurisdiction at this time. U.S. EPA, not the Central Water Coast Board, will oversee compliance with 40 C.F.R. part 503.

- b. **Collection System.** The Discharger is subject to the requirements of and must [separately](#) comply with State Water Board Order 2006-0003-DWQ, *Statewide General Waste Discharge Requirements for Sanitary Sewer Systems*, including monitoring and reporting requirements as amended by State Water Board Order WQ 2013-0058-EXEC and any subsequent order.

6. Special Provisions for Recycled Water Management Planning

a. Recycled Water Management Plan – Phase I

Within one year of commencing operation of the ocean outfall, the Discharger shall submit to the Central Coast Water Board Executive Officer a Recycled Water Management Plan – Phase I (Phase I Plan) for review and approval. At a minimum, the Phase I Plan shall include detailed steps the Discharger will take over the duration of the term of this Order to generate all elements of the Recycled Water Management Plan – Phase II (Phase II Plan) identified in section VI.C.6.b. The Phase I Plan shall include milestones and associated completion dates designed to demonstrate measurable progress between the Phase I Plan submittal date and the Phase II Plan due date. Immediately after Executive Officer approval, the Discharger shall begin preparing the Phase II Plan components pursuant to the Phase I Plan. The Discharger shall notify the Executive Officer of any subsequent proposed Phase I Plan revisions and request Executive Officer review and approval for substantive changes.

b. Recycled Water Management Plan – Phase II

With the Report of Waste Discharge due 180 days prior to expiration of this Order, the Discharger shall submit the Recycled Water Management Plan – Phase II (Phase II Plan) describing in detail how the Discharger will maximize the amount of treated effluent used for beneficial reuse, with the goal of achieving maximum beneficial reuse.^{4,5} At a minimum, the Phase II Plan shall include the following:

- i. Ranking of Beneficial Reuse Options – A ranking of feasible potential beneficial reuse options, from highest to lowest, based on the beneficial impacts and possible uses of the recycled water. At a minimum, the Discharger shall use and assess the following factors in determining the ranking and describe the assessment and its results in the Phase II Plan:
 - a) Beneficial Reuse Options – Locally available potential beneficial reuse options of the Discharger’s treated effluent. For each potential beneficial reuse approach, the Discharger shall assess the following recycled water benefits identified in the State Water Board Recycled Water Policy: provide safe alternatives to fresh water or potable water for approved uses; support sustainable groundwater and

⁴ Treated effluent, as used in section VI.C.6, does not include brine discharges from recycled water facilities.

⁵ In the following studies, the Discharger has already commenced planning for future beneficial reuse of its treated effluent: 1) June 23, 2017 Cayucos Sustainable Water Project (CSWP) Recycled Water Facilities Planning Study and 2) April 20, 2017 final Environmental Impact Report (EIR) for the CSWP. Although these studies demonstrate planning progress, they do not alone achieve compliance with the planning requirements in section VI.C.6.

surface water uses with the intent of substituting use of treated effluent for use of fresh water or potable water; and diversify community water supplies and mitigate the impacts of climate change.⁶

b) Customer Base – Local water purveyors and other potential customers (e.g., recycled water purveyors, recycled water users, reservoir commissions) that could use the Discharger’s treated effluent to achieve the goals for beneficial reuse identified in section VI.C.6.b.i.a. The Phase II Plan shall demonstrate the Discharger engaged each identified purveyor and customer to review the need and practicality of each identified entity using the Discharger’s treated effluent.

ii. Beneficial Reuse Feasibility Assessment – An assessment and description of the feasibility of each beneficial reuse option identified in section VI.C.6.b.i. The feasibility assessment for each beneficial reuse option shall include assessment and discussion of each item listed below, as applicable. For lower ranked reuse options that the Discharger has already determined will not be pursued, the Discharger does not have to provide the below detailed information.

a) Viability of Maximizing Reuse – Feasibility of achieving maximum beneficial reuse of the Discharger’s treated effluent and steps the Discharger would need to take to address any identified constraints for maximizing reuse.

b) Regulatory Framework – Applicable regulations, any limitations based on existing regulations, and the most streamlined path for securing identified permits and adhering to identified regulations.⁷ The Phase II Plan shall also include a discussion of any preliminary studies/investigations (e.g., modeling to inform surface water augmentation permitting pathway) that may be necessary to inform permitting options.

c) Technical and Jurisdictional Needs – Infrastructure needs to adequately treat effluent for the identified beneficial reuse and to

⁶ Water Quality Control Policy for Recycled Water, State Water Quality Control Board, adopted December 11, 2018, page 1, https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2018/121118_7_final_amendment_oal.pdf.

⁷ If the Discharger pursues an indirect or direct potable reuse strategy, the Discharger must demonstrate to the State Water Board and Central Coast Water Board that the Discharger or any other entity partnering with the Discharger possesses adequate managerial, technical, and financial capacity to ensure compliance with applicable potable water standards pursuant to requirements in title 22, section 60320 of the California Code of Regulations.

- convey recycled water to the identified beneficial reuse locations. The Phase II Plan shall also include identification and discussion of jurisdictional needs and gaps, such as easements for conveyance infrastructure, water rights, purchase and sale agreements, etc.
- d) Climate Impacts and Resiliency – Climate impacts, accounting for short and long-term climate impacts associated with reuse options, and climate resiliency of reuse options, including associated potential infrastructure.**
- e) Financing – Cost estimates for identified reuse options, at a minimum including project development, construction, and long-term operation, maintenance, and lifecycle costs. The Phase II Plan shall also include:**
- i) Identification and evaluation of funding options, including at a minimum, revenues from recycled water sales, grant and loan funding opportunities, and financing from other benefitting parties.**
- ii) Identification and evaluation of funding limitations.**
- iii. Proposed Beneficial Reuse(s) – Informed by sections VI.C.6.b.i and VI.C.6.b.ii, identification and discussion of the proposed beneficial reuse options and demonstration of initial actions taken. The Phase II Plan shall include the following:**
- a) Beneficial Reuse – Identification of the beneficial reuse(s) the Discharger proposes to pursue and the reasons for the selection. The Discharger shall demonstrate it selected the beneficial reuse providing the highest beneficial impact (based on the ranking in section VI.C.6.b.i) that the Discharger can viably implement (informed by the feasibility assessment in section VI.C.6.b.ii). If the Discharger proposes to pursue a lower ranked beneficial reuse due to other reasons not directly associated with the feasibility factors listed in section VI.C.6.b.ii, the Discharger shall provide rationale for that selection.**
- b) Customer Base – Identification of agreements with potential customers or partnering entities (e.g., water district, municipality) and an outline of steps needed to establish agreements with identified parties.**
- c) Financial Strategy – Identification of funding, procurement, and management strategies the Discharger will take to assist partnering entities to fund project development, construction, and long-term**

operation, maintenance, and lifecycle costs for identified reuse options.

- iv. Stakeholder Involvement – A summary of stakeholder involvement, including a demonstration the Discharger had meaningful engagement with applicable stakeholders, throughout all critical stages of the planning and feasibility assessment process. The Discharger shall describe actions taken to pursue the following: 1) gain support for implementing the Discharger’s proposed beneficial reuse options and 2) identify and address potential controversial issues. The Discharger shall describe how it will involve stakeholders in future efforts to implement its proposed beneficial reuse(s).
- v. Next Steps – A detailed description of steps the Discharger will take during the term of the next Order, including milestones and associated completion dates, that demonstrate measurable progress the Discharger will achieve towards implementing the identified beneficial reuse options.

a. Recycled Water Management Plan

~~Within one year of commencing operation of the ocean outfall, the Discharger shall submit to the Central Coast Water Board Executive Officer for review and approval a Recycled Water Management Plan detailing how the Discharger will achieve, within ten years of commencing operation of the ocean outfall, beneficial reuse of 100 percent of treated effluent.⁸ The Discharger shall notify the Central Coast Water Board Executive Officer of any subsequent proposed Recycled Water Management Plan revisions and request Central Coast Water Board Executive Officer review and approval for substantive changes. Pursuant to section IX.C of the MRP, the Discharger shall submit an annual progress report detailing the Discharger’s actions towards achieving compliance with the Recycled Water Management Plan. At a minimum, the Recycled Water Management Plan shall:~~

- ~~i. Implementation Approach—Identify the Discharger’s options and selected approach for achieving beneficial reuse of 100 percent of treated effluent. The Discharger shall describe the technologies it will employ to produce recycled water for the identified beneficial reuse.~~
- ~~ii. Interim Milestones—Identify interim implementation milestones the Discharger will meet to achieve beneficial reuse of 100 percent of~~

⁸ ~~Treated effluent, as used in this section, does not include the following: brine discharges from recycled water facilities; effluent achieving effluent and receiving water limitations in subsections IV and V of this Order but not achieving recycled water specifications due to a Facility upset or planned maintenance operations; evaporative losses; and other process-related losses; and temporary discharges due to the recycled water user and/or storage facility being unable to accept the recycled water due to unforeseen or extreme circumstances.~~

~~treated effluent. Milestones, at a minimum one-year frequency, must be designed to demonstrate measurable progress at a steady, or accelerated, completion pace over the ten-year timeframe. Milestones shall address the critical steps necessary to achieve beneficial reuse of 100 percent of treated effluent and must include, but not be limited to, the following:~~

- ~~a) Establishment of agreements with applicable parties (e.g., recycled water purveyors, recycled water users, reservoir commissions).~~
- ~~b) Contract issuance, planning, environmental review and permitting,⁹ design, and construction milestones for the following:
 - ~~i) Treatment Infrastructure—Infrastructure to adequately treat effluent for the selected beneficial reuse; and~~
 - ~~ii) Conveyance Infrastructure—Infrastructure to convey recycled water to selected beneficial reuse locations.~~~~
- ~~iii. Beneficial Reuse Justification—Demonstrate that the selected reuse approach will achieve the highest beneficial impact and best uses possible of the recycled water. The Discharger shall include assessment of the following recycled water benefits identified in the State Water Board Recycled Water Policy: provide safe alternatives to fresh water or potable water for approved uses; support sustainable groundwater and surface water uses with the intent of substituting for use of fresh water or potable water; and diversify community water supplies and mitigate the impacts of climate change.⁴⁰~~
- ~~iv. Climate Resiliency and Responsibility—Demonstrate that selected approaches include climate change resilient infrastructure, accounting for potential effects of sea level rise and increased flooding.~~
- ~~v. Financial Strategy—Describe the funding, procurement, and management strategies the Discharger will implement to fund project development, construction, and long-term maintenance and lifecycle costs. The Discharger shall demonstrate it has prepared a sustainable and comprehensive funding approach that evaluates, but is not limited~~

⁹ ~~If the Discharger pursues an indirect or direct potable reuse strategy, it must demonstrate to the State Water Board and Central Coast Water Board that it possesses adequate managerial and technical capacity to ensure compliance with applicable potable water standards pursuant to requirements in Title 22, section 60320 of the California Code of Regulations.~~

⁴⁰ ~~Water Quality Control Policy for Recycled Water, State Water Quality Control Board, adopted December 11, 2018, page 1.~~

~~to, the following: utility rate structure increases, grant and loan funding opportunities; and financing from other benefitting parties.~~

- ~~vi. Stakeholder Involvement — Describe the approach the Discharger will implement to inform and include applicable stakeholders, including affected parties (e.g., rate payers, recycled water recipients) throughout project development.~~

~~b. Recycled Water Management Plan Implementation~~

~~The Discharger shall implement the Recycled Water Management Plan immediately after Central Coast Water Board Executive Officer approval (or as otherwise specified in approval). The Discharger shall implement the most current approved plan.~~

~~c. Recycled Water Management Plan Infeasibility Option~~

~~Within five years of commencing operation of the ocean outfall, if the Discharger determines it cannot establish a viable option for reuse that will achieve the highest beneficial impact and best uses possible of the recycled water, the Discharger may pursue this infeasibility option. The Discharger shall evaluate, propose, and implement a reuse option with lower benefits, to at a minimum achieve reuse of 100 percent of treated effluent during the dry season and maximize the volume of treated effluent reused during the wet season,⁴⁴ within ten years of commencing operation of the ocean outfall. If the Discharger pursues this infeasibility option, it shall conduct the following:~~

- ~~i. Submit demonstration of why the Discharger cannot optimize the recycled water benefits listed in section VI.C.6.a.iii, including showing infeasibility is due to circumstances beyond the Discharger's control. This includes providing documentation to demonstrate the Discharger engaged all potential water purveyors about using the Facility's treated effluent and clearly describes why each water purveyor option is not viable.~~
- ~~ii. Submit for Central Coast Water Board Executive Officer review and approval the infeasibility justification and an updated Recycled Water Management Plan, with the plan components specified in section VI.C.6.a.~~
- ~~iii. If the Discharger demonstrates it has maximized the benefit and does not achieve 100 percent reuse of treated effluent (e.g., available recycled water flows exceed agronomic rates of agricultural users of recycled water), the Discharger shall annually submit a plan to the Central Coast Water Board Executive Officer detailing how the~~

⁴⁴ ~~If the Discharger proposes a reuse percentage less than 100 percent for the wet season, it shall justify and define, using calendar dates, the dry and wet seasons based on the available capacities of the end user(s).~~

~~Discharger will minimize discharges to the ocean outfall and make efforts to increase beneficial reuse for the upcoming year.~~

7. Other Special Provisions

- a. **Loss of Disinfection.** As soon as possible after learning of a significant loss of disinfection, and no more than 12 hours after the Discharger becomes aware of the disinfection loss, the Discharger shall notify the California Department of Public Health's Preharvest Shellfish Protection and Marine Biotoxin Monitoring Program (510-412- 4638), the San Luis Obispo Public Health Services (805-781-5553), the Central Coast Water Board (805-549-3147), and any shellfish leaseholders with active shellfish growing operations in the area of the discharge, as set forth in a list to be obtained from DHS, and regularly updated. The Discharger shall also conduct monitoring for bacteria in the receiving water in accordance with section VIII.A of the MRP.
- b. **Climate Change Response Hazards and Vulnerabilities Plan.** With the Report of Waste Discharge submitted for reissuance of this Order, the Discharger shall submit a Climate Change Response Hazards and Vulnerabilities Plan describing the Discharger's long-term approach to identify and address climate change hazards and vulnerabilities at the facility, including all associated infrastructure (e.g., treatment facilities, conveyances to discharge points, discharge facilities). The Climate Change Response Hazards and Vulnerabilities Plan shall, at minimum:
 - i. Identify and prioritize climate change hazards at the facility and assess facility vulnerability to climate change hazards that could cause reduction, loss, or failure of treatment processes and/or critical structures at the facility. For the anticipated life of the facility, accounting for forecasted climatic changes, the plan shall, at a minimum, include analysis of the following:
 - a) The range of potential flooding scenarios at the Facility;
 - b) The range of potential temperature scenarios; and
 - c) The range of potential extreme low and extreme high influent flow and loading scenarios.
 - ii. Identify climate change hazard triggers that will initiate responses at the facility.
 - iii. Identify and prioritize potential responses to climate change hazard triggers, accounting for a full suite of potential adaptation responses. The Discharger shall prioritize options that achieve long-term facility safety and operation and minimize resource impacts.
 - iv. Identify next steps the Discharger will implement to ensure that the facility is safe from and resilient to climate change hazards.

8. Compliance Schedules – Not Applicable

VII. COMPLIANCE DETERMINATION

Compliance with the effluent limitations contained in [Section IV](#) of this Order will be determined as specified below:

A. General

Compliance with effluent limitations for reportable pollutants shall be determined using sample reporting protocols defined in the MRP and Attachment A of this Order. For purposes of reporting and administrative enforcement by the Central Coast and State Water Boards, the Discharger shall be deemed out of compliance with effluent limitations if the concentration of the reportable pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reported Minimum Level (ML).

B. Multiple Sample Data

When determining compliance with a measure of central tendency (arithmetic mean, geometric mean, median, etc.) of multiple samples analyses and the data set contains one or more reported determinations of “Detected, but Not Quantified” (DNQ), or “Not Detected” (ND), the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:

1. The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.

The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.

C. Average Monthly Effluent Limitation (AMEL)

If the average of daily discharges over a calendar month exceeds the AMEL for a given parameter, an alleged violation will be flagged and the Discharger will be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of noncompliance in a 31-day month). The average of daily discharges over the calendar month that exceeds the AMEL for a parameter will be considered out of compliance for that month only. If only a single sample is taken during the calendar month and the analytical result for that sample exceeds the AMEL, the Discharger will be considered out of compliance for that calendar month. For any one calendar month during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar month.

D. Average Weekly Effluent Limitation (AWEL)

If the average of daily discharges over a calendar week exceeds the AWEL for a given parameter, an alleged violation will be flagged and the Discharger will be considered out of compliance for each day of that week for that parameter, resulting in

7 days of noncompliance. The average of daily discharges over the calendar week that exceeds the AWEL for a parameter will be considered out of compliance for that week only. If only a single sample is taken during the calendar week and the analytical result for that sample exceeds the AWEL, the Discharger will be considered out of compliance for that calendar week. For any one calendar week during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar week.

E. Maximum Daily Effluent Limitation (MDEL)

If a daily discharge exceeds the MDEL for a given parameter, an alleged violation will be flagged and the Discharger will be considered out of compliance for that parameter for that 1 day only within the reporting period. For any 1 day during which no sample is taken, no compliance determination can be made for that day.

Attachment A – Definitions

Acute Toxicity

- a. Acute Toxicity (TUa)
Expressed in Toxic Units Acute (TUa)

$$TUa = \frac{100}{96\text{-hr LC } 50\%}$$

- b. Lethal Concentration 50% (LC 50)
LC 50 (percent waste giving 50% survival of test organisms) shall be determined by static or continuous flow bioassay techniques using standard marine test species as specified in Ocean Plan Appendix III. If specific identifiable substances in wastewater can be demonstrated by the discharger as being rapidly rendered harmless upon discharge to the marine environment, but not as a result of dilution, the LC 50 may be determined after the test samples are adjusted to remove the influence of those substances.

When it is not possible to measure the 96-hour LC 50 due to greater than 50 percent survival of the test species in 100 percent waste, the toxicity concentration shall be calculated by the expression:

$$TUa = \frac{\log(100 - S)}{1.7}$$

where:

S = percentage survival in 100% waste. If S > 99, TUa shall be reported as zero.

Areas of Special Biological Significance (ASBS)

Those areas designated by the State Water Resources Control Board (State Water Board) as ocean areas requiring protection of species or biological communities to the extent that alteration of natural water quality is undesirable. All Areas of Special Biological Significance are also classified as a subset of STATE WATER QUALITY PROTECTION AREAS.

Average Monthly Effluent Limitation (AMEL)

The highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Effluent Limitation (AWEL)

The highest allowable average of daily discharges over a calendar week (Sunday through Saturday), calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Chlordane

Shall mean the sum of chlordane-alpha, chlordane-gamma, chlordene-alpha, chlordene-gamma, nonachlor-alpha, nonachlor-gamma, and oxychlordane.

Chronic Toxicity

This parameter shall be used to measure the acceptability of waters for supporting a healthy marine biota until improved methods are developed to evaluate biological response.

a. Chronic Toxicity (TUc)

Expressed as Toxic Units Chronic (TUc)

$$TUc = \frac{100}{NOEL}$$

b. No Observed Effect Level (NOEL)

The NOEL is expressed as the maximum percent effluent or receiving water that causes no observable effect on a test organism, as determined by the result of a critical life stage toxicity test listed in Ocean Plan Appendix II.

Daily Discharge

Daily Discharge is defined as either: (1) the total mass of the constituent discharged over the calendar day (12:00 am through 11:59 pm) or any 24-hour period that reasonably represents a calendar day for purposes of sampling (as specified in the permit), for a constituent with limitations expressed in units of mass or; (2) the unweighted arithmetic mean measurement of the constituent over the day for a constituent with limitations expressed in other units of measurement (e.g., concentration).

The daily discharge may be determined by the analytical results of a composite sample taken over the course of one day (a calendar day or other 24-hour period defined as a day) or by the arithmetic mean of analytical results from one or more grab samples taken over the course of the day.

For composite sampling, if 1 day is defined as a 24-hour period other than a calendar day, the analytical result for the 24-hour period will be considered as the result for the calendar day in which the 24-hour period ends.

DDT

Shall mean the sum of 4,4'DDT, 2,4'DDT, 4,4'DDE, 2,4'DDE, 4,4'DDD, and 2,4'DDD.

Degrade

Degradation shall be determined by comparison of the waste field and reference site(s) for characteristic species diversity, population density, contamination, growth anomalies, debility, or supplanting of normal species by undesirable plant and animal species. Degradation occurs if there are significant differences in any of three major biotic groups, namely, demersal fish, benthic invertebrates, or attached algae. Other groups may be evaluated where benthic species are not affected, or are not the only ones affected.

Detected, but Not Quantified (DNQ)

Sample results that are less than the reported Minimum Level, but greater than or equal to the laboratory's MDL. Sample results reported as DNQ are estimated concentrations.

Dichlorobenzenes

Shall mean the sum of 1,2- and 1,3-dichlorobenzene.

Downstream Ocean Waters

Waters downstream with respect to ocean currents.

Dredged Material

Any material excavated or dredged from the navigable waters of the United States, including material otherwise referred to as "spoils."

Enclosed Bays

Indentations along the coast that enclose an area of oceanic water within distinct headlands or harbor works. Enclosed bays include all bays where the narrowest distance between headlands or outermost harbor works is less than 75 percent of the greatest dimension of the enclosed portion of the bay. This definition includes but is not limited to: Humboldt Bay, Bodega Harbor, Tomales Bay, Drakes Estero, San Francisco Bay, Morro Bay, Los Angeles Harbor, Upper and Lower Newport Bay, Mission Bay, and San Diego Bay.

Endosulfan

The sum of endosulfan-alpha and -beta and endosulfan sulfate.

Estuaries and Coastal Lagoons

Waters at the mouths of streams that serve as mixing zones for fresh and ocean waters during a major portion of the year. Mouths of streams that are temporarily separated from the ocean by sandbars shall be considered as estuaries. Estuarine waters will generally be considered to extend from a bay or the open ocean to the upstream limit of tidal action but may be considered to extend seaward if significant mixing of fresh and salt water occurs in the open coastal waters. The waters described by this definition include but are not limited to the Sacramento-San Joaquin Delta as defined by Section 12220 of the California Water Code, Suisun Bay, Carquinez Strait downstream to Carquinez Bridge, and appropriate areas of the Smith, Klamath, Mad, Eel, Noyo, and Russian Rivers.

Geometric Mean (GM)

Geometric mean is a type of mean or average that indicates the central tendency or typical value of a set of numbers by using the product of their values (as opposed to the arithmetic mean which uses their sum). The geometric mean is defined as the nth root of the product of n numbers. The formula is expressed as: $GM = [(x_1)(x_2)(x_3)...(x_n)]^{1/n}$, where x_i is the sample value and n is the number of samples taken. A geometric mean is also called the log mean.

Halomethanes shall mean the sum of bromoform, bromomethane (methyl bromide) and chloromethane (methyl chloride).

HCH shall mean the sum of the alpha, beta, gamma (lindane) and delta isomers of hexachlorocyclohexane.

Initial Dilution

The process that results in the rapid and irreversible turbulent mixing of wastewater with ocean water around the point of discharge.

For a submerged buoyant discharge, characteristic of most municipal and industrial wastes that are released from the submarine outfalls, the momentum of the discharge and its initial buoyancy act together to produce turbulent mixing. Initial dilution in this case is completed when the diluting wastewater ceases to rise in the water column and first begins to spread horizontally.

For shallow water submerged discharges, surface discharges, and non-buoyant discharges, characteristic of cooling water wastes and some individual discharges, turbulent mixing results primarily from the momentum of discharge. Initial dilution, in these cases, is considered to be completed when the momentum induced velocity of the discharge ceases to produce significant mixing of the waste, or the diluting plume reaches a fixed distance from the discharge to be specified by the Central Coast Water Board, whichever results in the lower estimate for initial dilution.

Instantaneous Maximum Effluent Limitation

The highest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous maximum limitation).

Instantaneous Minimum Effluent Limitation

The lowest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous minimum limitation).

Kelp Beds

For purposes of the bacteriological standards of the Ocean Plan, are significant aggregations of marine algae of the genera Macrocystis and Nereocystis. Kelp beds include the total foliage canopy of Macrocystis and Nereocystis plants throughout the water column.

Mariculture

The culture of plants and animals in marine waters independent of any pollution source.

Material

(a) In common usage: (1) the substance or substances of which a thing is made or composed (2) substantial; (b) For purposes of the Ocean Plan relating to waste disposal, dredging and the disposal of dredged material and fill, MATERIAL means matter of any kind or description which is subject to regulation as waste, or any material dredged from the navigable waters of the United States. See also, DREDGED MATERIAL.

Maximum Daily Effluent Limitation (MDEL)

The highest allowable daily discharge of a pollutant.

Method Detection Limit (MDL)

The minimum concentration of a substance that can be reported with 99 percent confidence that the measured concentration is distinguishable from method blank results, as defined in 40 C.F.R. part 136, Attachment B.

Minimum Level (ML)

The concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.

Natural Light

Reduction of natural light may be determined by the Central Coast Water Board by measurement of light transmissivity or total irradiance, or both, according to the monitoring needs of the Central Coast Water Board.

Not Detected (ND)

Those sample results less than the laboratory's MDL.

Ocean Waters

The territorial marine waters of the state as defined by California law to the extent these waters are outside of enclosed bays, estuaries, and coastal lagoons. If a discharge outside the territorial waters of the state could affect the quality of the waters of the state, the discharge may be regulated to assure no violation of the Ocean Plan will occur in ocean waters.

PAHs (polynuclear aromatic hydrocarbons)

The sum of acenaphthylene, anthracene, 1,2-benzanthracene, 3,4-benzofluoranthene, benzo[k]fluoranthene, 1,12-benzoperylene, benzo[a]pyrene, chrysene, dibenzo[ah]anthracene, fluorene, indeno[1,2,3-cd]pyrene, phenanthrene and pyrene.

PCBs (polychlorinated biphenyls)

The sum of chlorinated biphenyls whose analytical characteristics resemble those of Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254 and Aroclor-1260.

Pollutant Minimization Program (PMP)

PMP means waste minimization and pollution prevention actions that include, but are not limited to, product substitution, waste stream recycling, alternative waste management methods, and education of the public and businesses. The goal of the PMP shall be to reduce all potential sources of Ocean Plan Table 3 pollutants through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the water quality-based effluent limitation. Pollution prevention measures may be particularly appropriate for persistent bioaccumulative priority pollutants where there is evidence that beneficial uses are being impacted. The Central Coast Water Board may consider cost effectiveness when establishing the requirements of a PMP. The completion and implementation of a Pollution Prevention Plan, if required pursuant to [California](#) Water Code section 13263.3(d), shall be considered to fulfill the PMP requirements.

Reported Minimum Level

The reported ML (also known as the Reporting Level or RL) is the ML (and its associated analytical method) chosen by the Discharger for reporting and compliance determination from the MLs included in this Order, including an additional factor if applicable as discussed herein. The MLs included in this Order correspond to approved analytical methods for reporting a

sample result that are selected by the Central Coast Water Board either from Appendix II of the Ocean Plan in accordance with section III.C.5.a. of the Ocean Plan or established in accordance with section III.C.5.b. of the Ocean Plan. The ML is based on the proper application of method-based analytical procedures for sample preparation and the absence of any matrix interferences. Other factors may be applied to the ML depending on the specific sample preparation steps employed. For example, the treatment typically applied in cases where there are matrix-effects is to dilute the sample or sample aliquot by a factor of ten. In such cases, this additional factor must be applied to the ML in the computation of the reported ML.

Shellfish

Organisms identified by the California Department of Health Services as shellfish for public health purposes (i.e., mussels, clams and oysters).

Significant Difference

Defined as a statistically significant difference in the means of two distributions of sampling results at the 95 percent confidence level.

Six-Month Median Effluent Limitation

The highest allowable moving median of all daily discharges for any 180-day period.

State Water Quality Protection Areas (SWQPAs)

Non-terrestrial marine or estuarine areas designated to protect marine species or biological communities from an undesirable alteration in natural water quality. All AREAS OF SPECIAL BIOLOGICAL SIGNIFICANCE (ASBS) that were previously designated by the State Water Board in Resolutions 74-28, 74-32, and 75-61 are now also classified as a subset of State Water Quality Protection Areas and require special protections afforded by the Ocean Plan.

Statistical Threshold Value (STV)

Statistical Threshold Value for the bacteria water quality objective is a set value that approximates the 90th percentile of the water quality distribution of a bacterial population.

TCDD Equivalents

The sum of the concentrations of chlorinated dibenzodioxins (2,3,7,8-CDDs) and chlorinated dibenzofurans (2,3,7,8-CDFs) multiplied by their respective toxicity factors, as shown in the table below.

Isomer Group	Toxicity Equivalence Factor
2,3,7,8-tetra CDD	1.0
2,3,7,8-penta CDD	0.5
2,3,7,8-hexa CDDs	0.1
2,3,7,8-hepta CDD	0.01

Isomer Group	Toxicity Equivalence Factor
octa CDD	0.001
2,3,7,8 tetra CDF	0.1
1,2,3,7,8 penta CDF	0.05
2,3,4,7,8 penta CDF	0.5
2,3,7,8 hexa CDFs	0.1
2,3,7,8 hepta CDFs	0.01
octa CDF	0.001

Toxicity Reduction Evaluation (TRE)

A study conducted in a step-wise process designed to identify the causative agents of effluent or ambient toxicity, isolate the sources of toxicity, evaluate the effectiveness of toxicity control options, and then confirm the reduction in toxicity. The first steps of the TRE consist of the collection of data relevant to the toxicity, including additional toxicity testing, and an evaluation of facility operations and maintenance practices, and best management practices. A Toxicity Identification Evaluation (TIE) may be required as part of the TRE, if appropriate. (A TIE is a set of procedures to identify the specific chemical(s) responsible for toxicity. These procedures are performed in three phases (characterization, identification, and confirmation) using aquatic organism toxicity tests.)

Waste

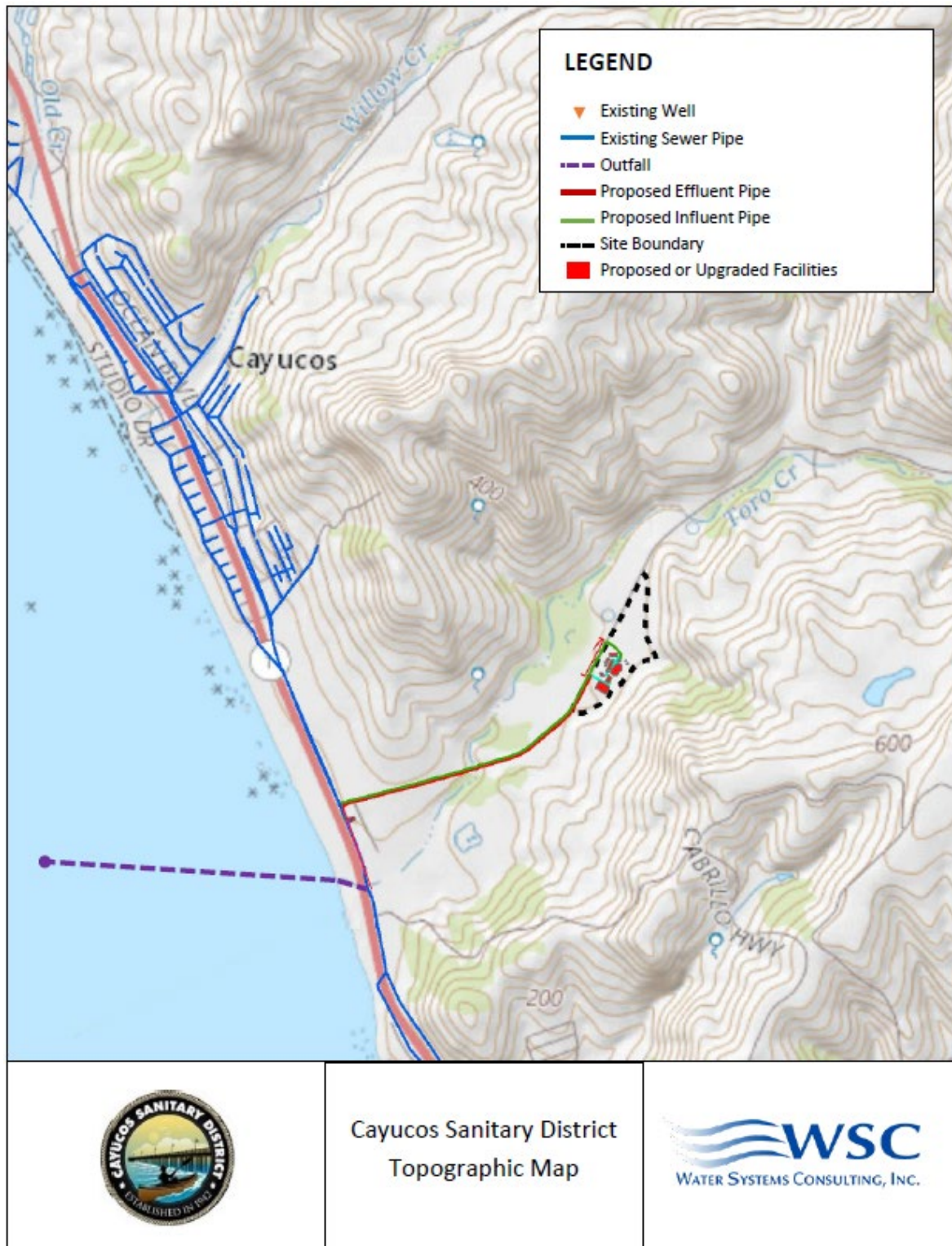
As used in the Ocean Plan, waste includes a Discharger’s total discharge, of whatever origin, i.e., gross, not net, discharge.

Water Recycling

The treatment of wastewater to render it suitable for reuse, the transportation of treated wastewater to the place of use, and the actual use of treated wastewater for a direct beneficial use or controlled use that would not otherwise occur.

Attachment B – Maps

Figure B-1. Topographic Map



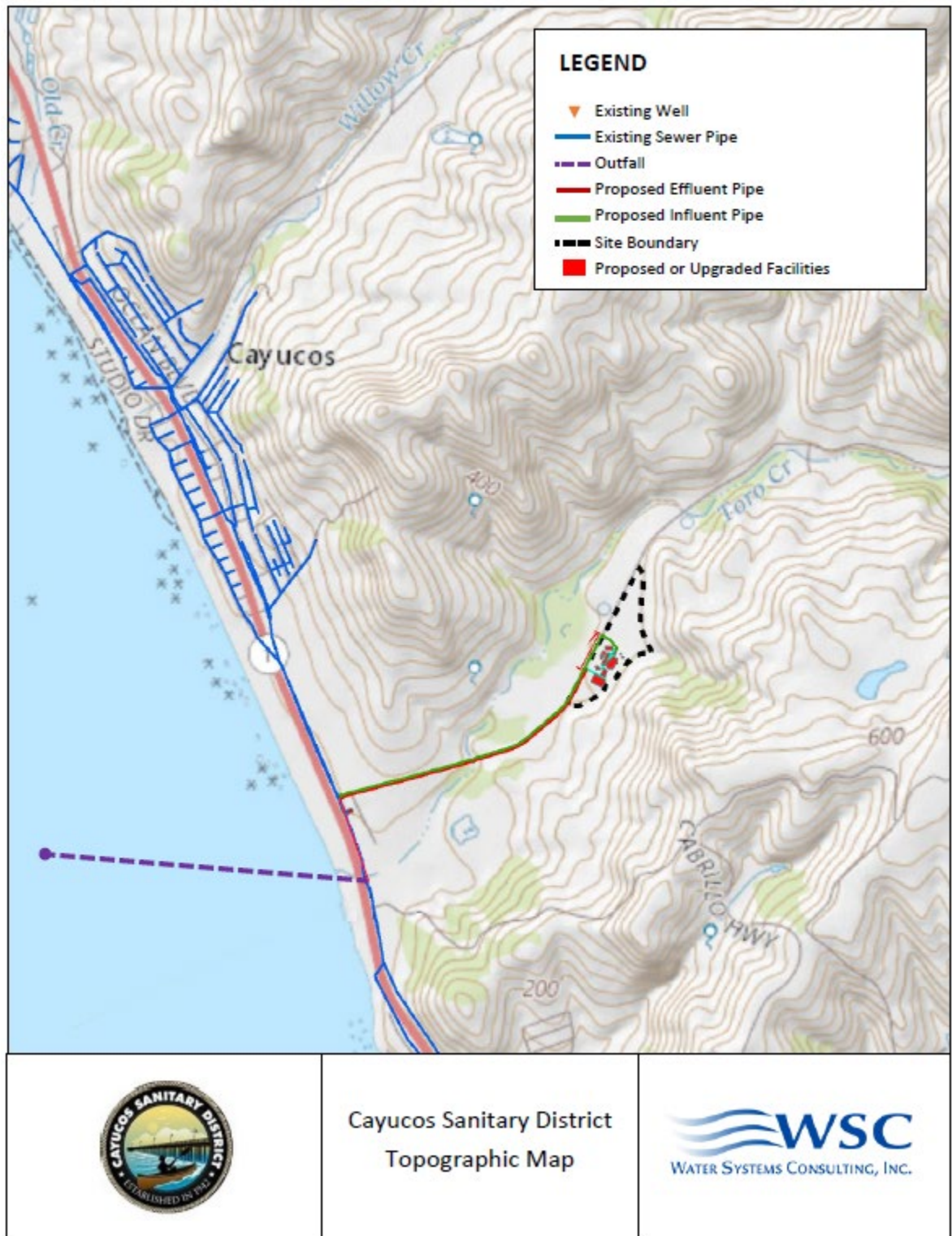


Figure B-2. Site Location of the Cayucos Sustainable Water Project (CSWP) Ocean Outfall

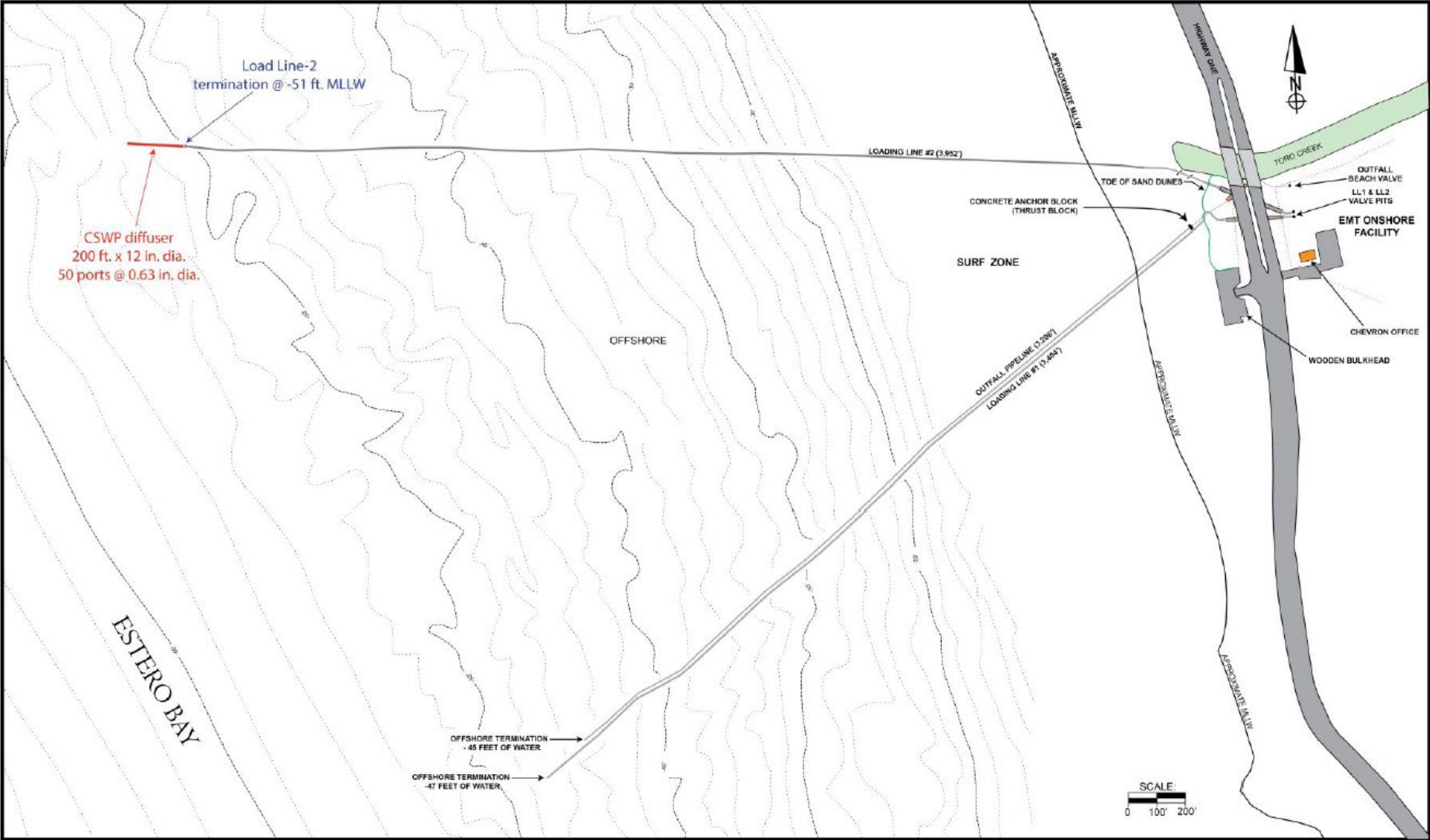
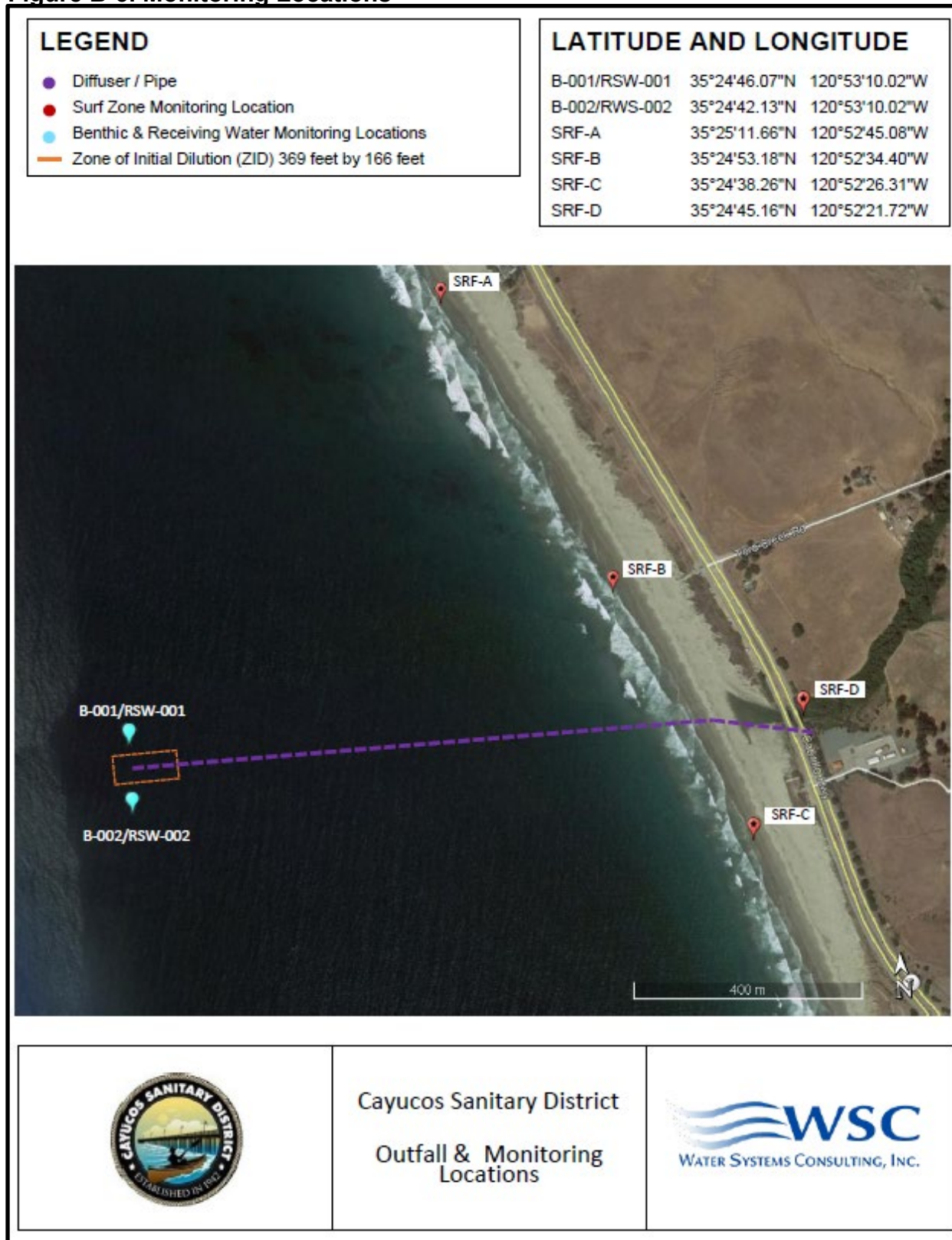


Figure B-3. Monitoring Locations



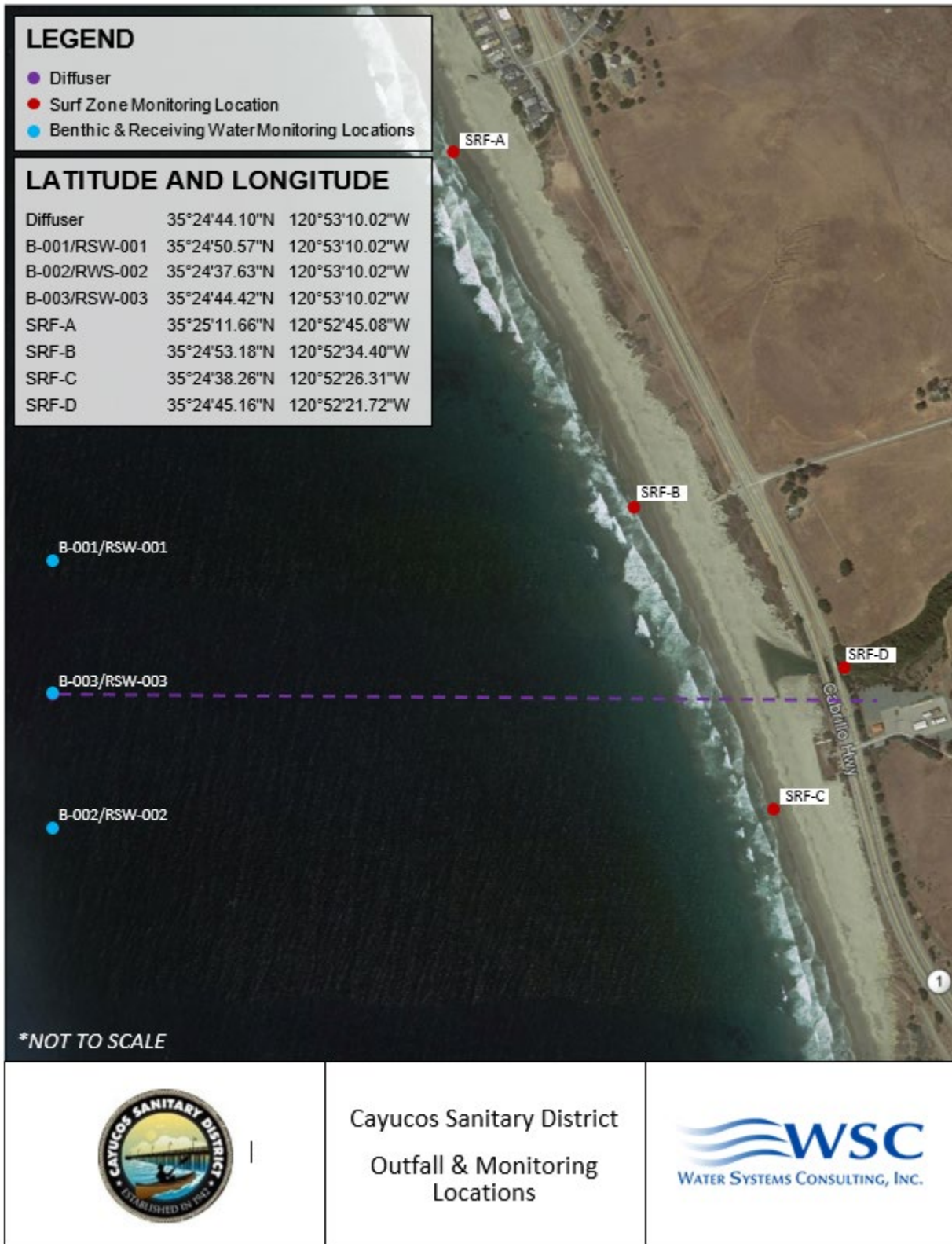
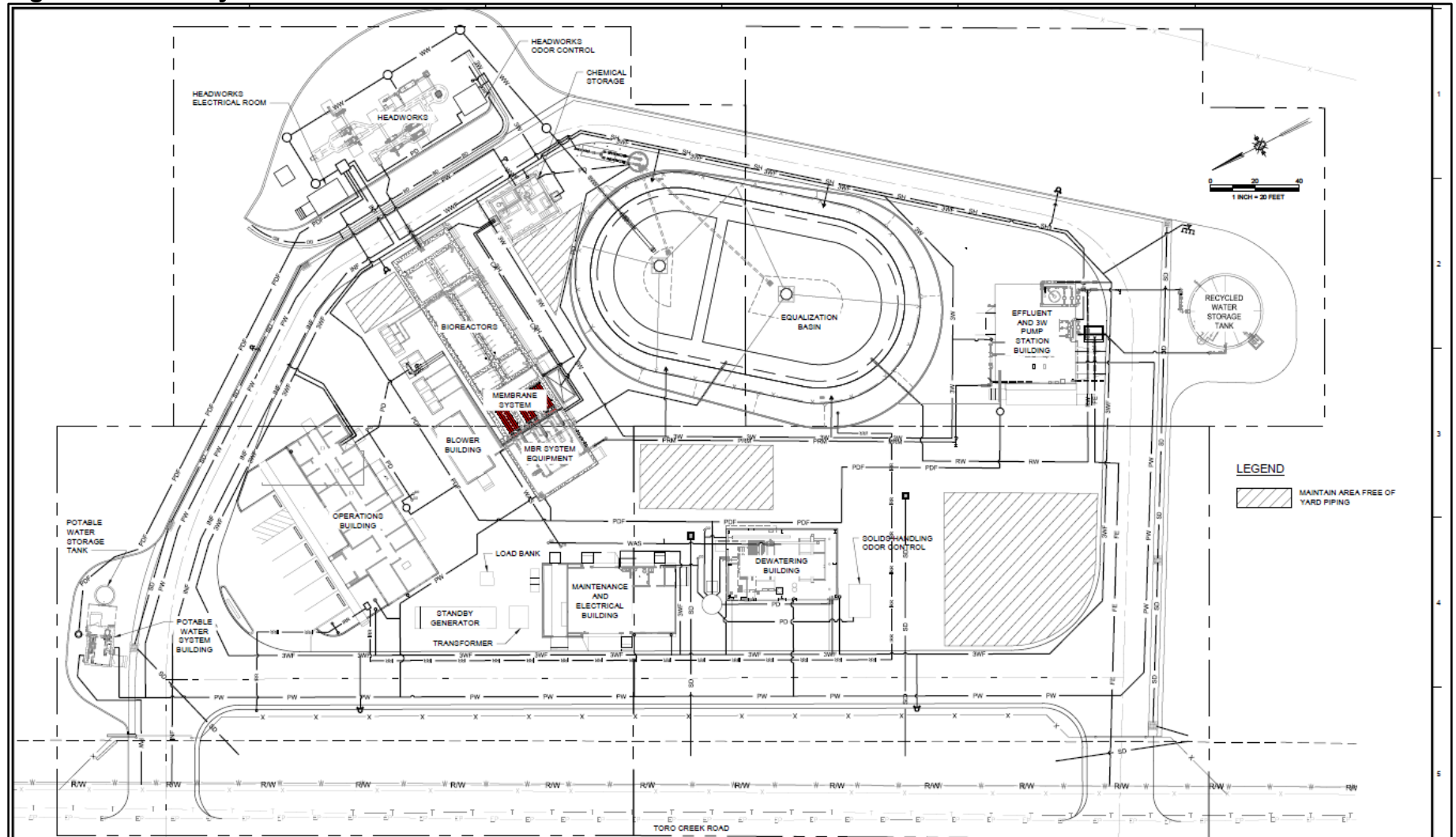


Figure B-4. Facility Site Plan



Attachment C – Flow Schematic

Figure C-1. Process Flow Diagram

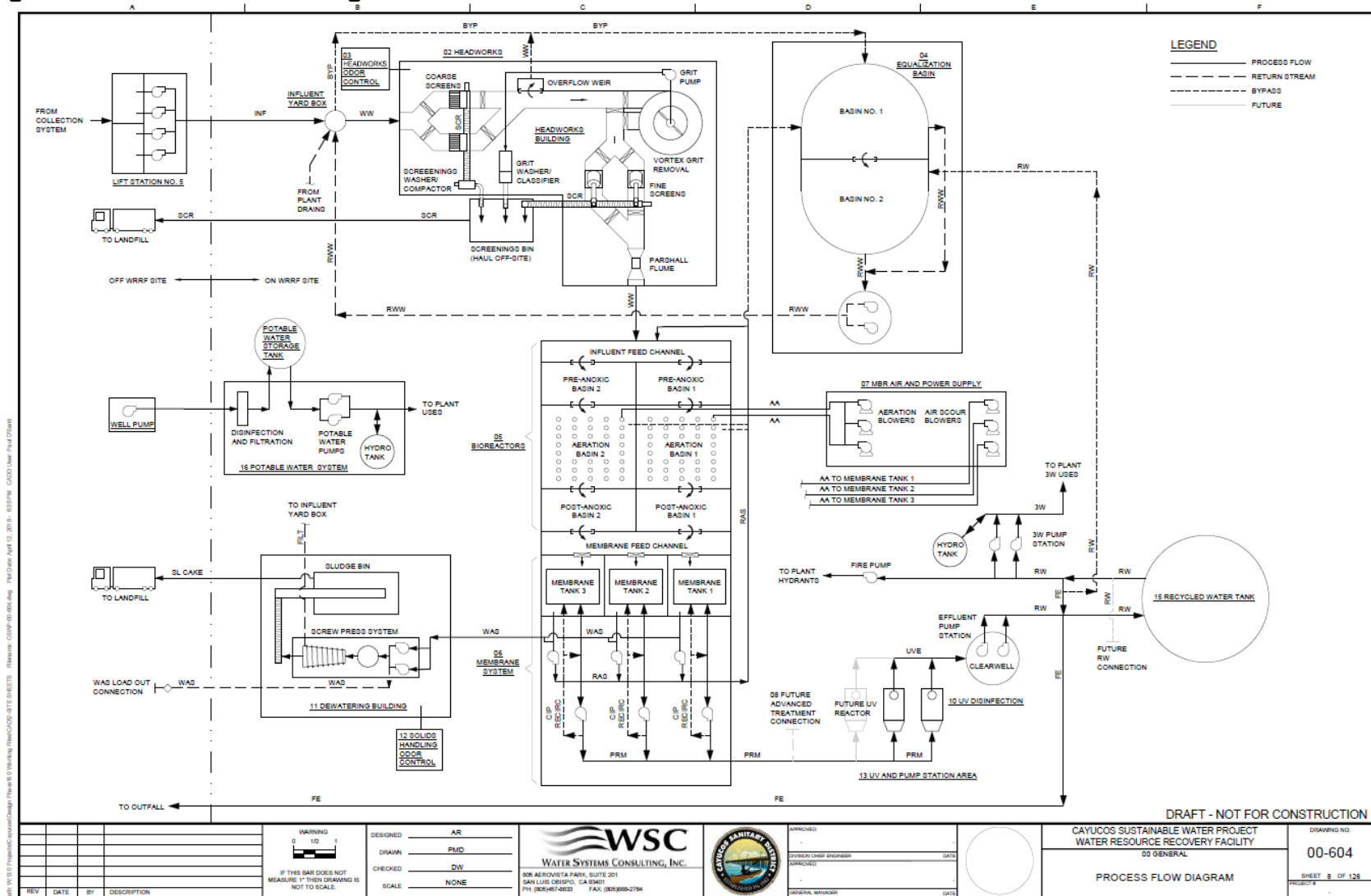
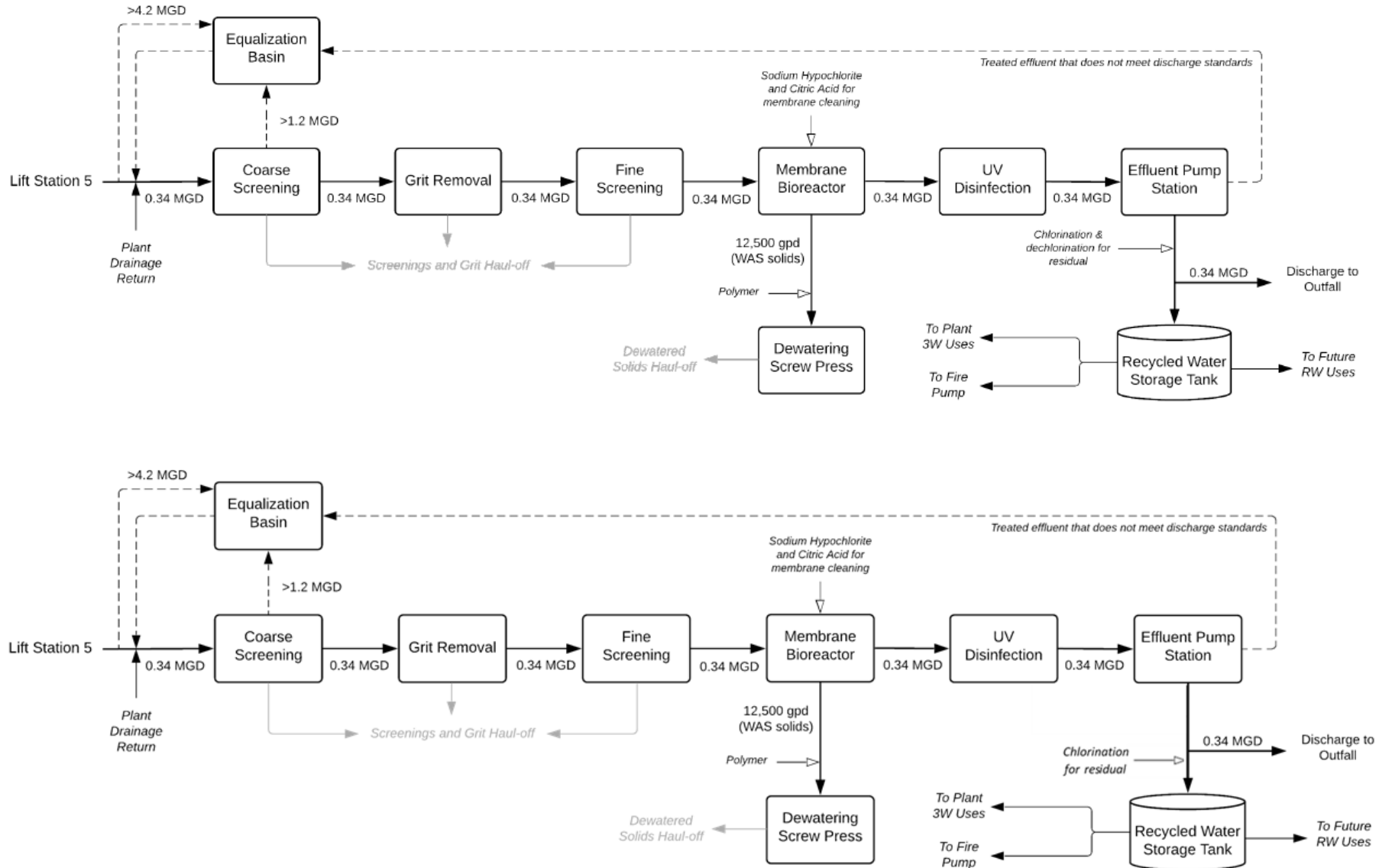


Figure C-2. Process Flow Schematic



Attachment D – Standard Provisions

I. STANDARD PROVISIONS – PERMIT COMPLIANCE

A. Duty to Comply

1. The Discharger must comply with all of the terms, requirements, and conditions of this Order. Any noncompliance constitutes a violation of the Clean Water Act (CWA) and the California Water Code and is grounds for enforcement action; permit termination, revocation and reissuance, or modification; denial of a permit renewal application; or a combination thereof. (40 C.F.R. § 122.41(a); [California Water Code](#), §§ 13261, 13263, 13265, 13268, 13000, 13001, 13304, 13350, 13385.)
2. The Discharger shall comply with effluent standards or prohibitions established under sSection 307(a) of the CWA for toxic pollutants and with standards for sewage sludge use or disposal established under sSection 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions, even if this Order has not yet been modified to incorporate the requirement. (40 C.F.R. § 122.41(a)(1).)

B. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a Discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Order. (40 C.F.R. § 122.41(c).)

C. Duty to Mitigate

The Discharger shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this Order that has a reasonable likelihood of adversely affecting human health or the environment. (40 C.F.R. § 122.41(d).)

D. Proper Operation and Maintenance

The Discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Discharger to achieve compliance with the conditions of this Order. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by a Discharger only when necessary to achieve compliance with the conditions of this Order. (40 C.F.R. § 122.41(e).)

E. Property Rights

1. This Order does not convey any property rights of any sort or any exclusive privileges. (40 C.F.R. § 122.41(g).)
2. The issuance of this Order does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations. (40 C.F.R. § 122.5(c).)

F. Inspection and Entry

The Discharger shall allow the Central Coast Water Board, State Water Board, [U.S. Environmental Protection Agency](#) (U.S. EPA), and/or their authorized representatives (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents, as may be required by law, to (33 [United States Code](#) (U.S.C.) § 1318(a)(4)(b); 40 C.F.R. § 122.41(i); ~~Wat~~[California Water Code](#), §§ 13267, 13383):

1. Enter upon the Discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order (33 U.S.C. § 1318(a)(4)(b)(i); 40 C.F.R. § 122.41(i)(1); ~~Wat~~[California Water Code](#), §§ 13267, 13383)
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order (33 U.S.C. § 1318(a)(4)(b)(ii); 40 C.F.R. § 122.41(i)(2); ~~Wat~~[California Water Code](#), §§ 13267, 13383);
3. Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order (33 U.S.C. § 1318(a)(4)(b)(ii); 40 C.F.R. § 122.41(i)(3); ~~California Water~~[Wat](#). Code, §§ 13267, 13383); and
4. Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the [California Water Code](#), any substances or parameters at any location. (33 U.S.C. § 1318(a)(4)(b); 40 C.F.R. § 122.41(i)(4); ~~California Water~~[Wat](#). Code, §§ 13267, 13383.)

G. Bypass

1. Definitions
 - a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. (40 C.F.R. § 122.41(m)(1)(i).)
 - b. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities, which causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. (40 C.F.R. § 122.41(m)(1)(ii).)
2. Bypass not exceeding limitations. The Discharger may allow any bypass to occur which does not cause exceedances of effluent limitations, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions – Permit Compliance I.G.3, I.G.4, and I.G.5 below. (40 C.F.R. § 122.41(m)(2).)
3. Prohibition of bypass. [As stated in Provision III.F of the Order](#), ~~B~~bypass is prohibited, and the Central Coast Water Board may take enforcement action against a Discharger for bypass, unless (40 C.F.R. § 122.41(m)(4)(i)):
 - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage (40 C.F.R. § 122.41(m)(4)(i)(A));

- b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance (40 C.F.R. § 122.41(m)(4)(i)(B)); and
 - c. The Discharger submitted notice to the Central Coast Water Board as required under Standard Provisions – Permit Compliance I.G.5 below. (40 C.F.R. § 122.41(m)(4)(i)(C).)
4. The Central Coast Water Board may approve an anticipated bypass, after considering its adverse effects, if the Central Coast Water Board determines that it will meet the three conditions listed in Standard Provisions – Permit Compliance I.G.3 above. (40 C.F.R. § 122.41(m)(4)(ii).)
5. Notice
 - a. Anticipated bypass. If the Discharger knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass. The notice shall be sent to the Central Coast Water Board. All notices must be submitted electronically to the initial recipient defined in Standard Provisions – Reporting V.J below. Notices shall comply with 40 C.F.R. part 3, 40 C.F.R. section 122.22, and 40 C.F.R. part 127. (40 C.F.R. § 122.41(m)(3)(i).)
 - b. Unanticipated bypass. The Discharger shall submit a notice of an unanticipated bypass as required in Standard Provisions - Reporting V.E below (24-hour notice). The notice shall be sent to the Central Coast Water Board. All notices must be submitted electronically to the initial recipient defined in Standard Provisions – Reporting V.J below. Notices shall comply with 40 C.F.R. part 3, 40 C.F.R. section 122.22, and 40 C.F.R. part 127. (40 C.F.R. § 122.41(m)(3)(ii).)

H. Upset

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the Discharger. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
(40 C.F.R. § 122.41(n)(1).)

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Standard Provisions – Permit Compliance I.H.2 below are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review. (40 C.F.R. § 122.41(n)(2).)

2. Conditions necessary for a demonstration of upset. A Discharger who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that (40 C.F.R. § 122.41(n)(3)):
 - a. An upset occurred and that the Discharger can identify the cause(s) of the upset (40 C.F.R. § 122.41(n)(3)(i));
 - b. The permitted facility was, at the time, being properly operated (40 C.F.R. § 122.41(n)(3)(ii));
 - c. The Discharger submitted notice of the upset as required in Standard Provisions – Reporting V.E.2.b below (24-hour notice) (40 C.F.R. § 122.41(n)(3)(iii)); and
 - d. The Discharger complied with any remedial measures required under Standard Provisions – Permit Compliance I.C above. (40 C.F.R. § 122.41(n)(3)(iv).)
3. Burden of proof. In any enforcement proceeding, the Discharger seeking to establish the occurrence of an upset has the burden of proof. (40 C.F.R. § 122.41(n)(4).)

II. STANDARD PROVISIONS – PERMIT ACTION

A. General

This Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Discharger for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Order condition. (40 C.F.R. § 122.41(f).)

B. Duty to Reapply

If the Discharger wishes to continue an activity regulated by this Order after the expiration date of this Order, the Discharger must apply for and obtain a new permit. (40 C.F.R. § 122.41(b).)

C. Transfers

This Order is not transferable to any person except after notice to the Central Coast Water Board. The Central Coast Water Board may require modification or revocation and reissuance of the Order to change the name of the Discharger and incorporate such other requirements as may be necessary under the CWA and the [California Water Code](#). (40 C.F.R. §§ 122.41(l)(3), 122.61.)

III. STANDARD PROVISIONS – MONITORING

- A. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (40 C.F.R. § 122.41(j)(1).)
- B. Monitoring must be conducted according to test procedures approved under 40 C.F.R. part 136 for the analyses of pollutants unless another method is required under 40 C.F.R. chapter 1, subchapter N. Monitoring must be conducted according to sufficiently sensitive test methods approved under 40 C.F.R. part 136 for the analysis of pollutants or pollutant parameters or as required under 40 C.F.R. chapter 1,

subchapter N. For the purposes of this paragraph, a method is sufficiently sensitive when:

1. The method minimum level (ML) is at or below the level of the most stringent effluent limitation established in the permit for the measured pollutant or pollutant parameter, and either the method ML is at or below the level of the most stringent applicable water quality criterion for the measured pollutant or pollutant parameter or the method ML is above the applicable water quality criterion but the amount of the pollutant or pollutant parameter in the facility's discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge; or
2. The method has the lowest ML of the analytical methods approved under 40 C.F.R. part 136 or required under 40 C.F.R. chapter 1, subchapter N for the measured pollutant or pollutant parameter.

In the case of pollutants or pollutant parameters for which there are no approved methods under 40 C.F.R. part 136 or otherwise required under 40 C.F.R. chapter 1, subchapters N, monitoring must be conducted according to a test procedure specified in this Order for such pollutants or pollutant parameters. (40 C.F.R. §§ 122.21(e)(3), 122.41(j)(4), 122.44(i)(1)(iv).)

IV. STANDARD PROVISIONS – RECORDS

- A. Except for records of monitoring information required by this Order related to the Discharger's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 C.F.R. part 503), the Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Central Coast Water Board Executive Officer at any time. (40 C.F.R. § 122.41(j)(2).)
- B. Records of monitoring information shall include:
 1. The date, exact place, and time of sampling or measurements (40 C.F.R. § 122.41(j)(3)(i));
 2. The individual(s) who performed the sampling or measurements (40 C.F.R. § 122.41(j)(3)(ii));
 3. The date(s) analyses were performed (40 C.F.R. § 122.41(j)(3)(iii));
 4. The individual(s) who performed the analyses (40 C.F.R. § 122.41(j)(3)(iv));
 5. The analytical techniques or methods used (40 C.F.R. § 122.41(j)(3)(v)); and
 6. The results of such analyses. (40 C.F.R. § 122.41(j)(3)(vi).)
- C. Claims of confidentiality for the following information will be denied (40 C.F.R. § 122.7(b)):

1. The name and address of any permit applicant or Discharger (40 C.F.R. § 122.7(b)(1)); and
2. Permit applications and attachments, permits and effluent data. (40 C.F.R. § 122.7(b)(2).)

V. STANDARD PROVISIONS – REPORTING

A. Duty to Provide Information

The Discharger shall furnish to the Central Coast Water Board, State Water Board, or U.S. EPA within a reasonable time, any information which the Central Coast Water Board, State Water Board, or U.S. EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order or to determine compliance with this Order. Upon request, the Discharger shall also furnish to the Central Coast Water Board, State Water Board, or U.S. EPA copies of records required to be kept by this Order. (40 C.F.R. § 122.41(h); ~~Water~~[California Water](#)- Code, §§ 13267, 13383.)

B. Signatory and Certification Requirements

1. All applications, reports, or information submitted to the Central Coast Water Board, State Water Board, and/or U.S. EPA shall be signed and certified in accordance with Standard Provisions – Reporting V.B.2, V.B.3, V.B.4, V.B.5, and V.B.6 below. (40 C.F.R. § 122.41(k))
2. All permit applications shall be signed by either a principal executive officer or ranking elected official. For purposes of this provision, a principal executive officer of a federal agency includes: (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency. (40 C.F.R. § 122.22(a)(3))
3. All reports required by this Order and other information requested by the Central Coast Water Board, State Water Board, or U.S. EPA shall be signed by a person described in Standard Provisions – Reporting V.B.2 above, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Standard Provisions – Reporting V.B.2 above (40 C.F.R. § 122.22(b)(1));
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) (40 C.F.R. § 122.22(b)(2)); and
 - c. The written authorization is submitted to the Central Coast Water Board and State Water Board. (40 C.F.R. § 122.22(b)(3))

4. If an authorization under Standard Provisions – Reporting V.B.3 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Standard Provisions – Reporting V.B.3 above must be submitted to the Central Coast Water Board and State Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative. (40 C.F.R. § 122.22(c).)
5. Any person signing a document under Standard Provisions – Reporting V.B.2 or V.B.3 above shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.” (40 C.F.R. § 122.22(d).)

6. Any person providing the electronic signature for documents described in Standard Provisions – V.B.1, V.B.2, or V.B.3 that are submitted electronically shall meet all relevant requirements of Standard Provisions – Reporting V.B, and shall ensure that all relevant requirements of 40 C.F.R. part 3 (Cross-Media Electronic Reporting) and 40 C.F.R. part 127 (NPDES Electronic Reporting Requirements) are met for that submission. (40 C.F.R § 122.22(e).)

C. Monitoring Reports

1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program [\(MRP\) in ~~\(Attachment E\)~~ of](#) in this Order. (40 C.F.R. § 122.41(l)(4).)
2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Central Coast Water Board or State Water Board for reporting the results of monitoring, sludge use, or disposal practices. All reports and forms must be submitted electronically to the initial recipient defined in Standard Provisions – Reporting V.J and comply with 40 C.F.R. part 3, 40 C.F.R. section 122.22, and 40 C.F.R. part 127. (40 C.F.R. § 122.41(l)(4)(i).)
3. If the Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under 40 C.F.R. part 136, or another method required for an industry-specific waste stream under 40 C.F.R. chapter 1, subchapter N or O, the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Central Coast Water Board or State Water Board. (40 C.F.R. § 122.41(l)(4)(ii).)

4. Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order. (40 C.F.R. § 122.41(l)(4)(iii).)

D. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Order, shall be submitted no later than 14 days following each schedule date. (40 C.F.R. § 122.41(l)(5).)

E. Twenty-Four Hour Reporting

1. The Discharger shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances to Central Coast Water Board permitting staff. A report shall also be provided within five (5) days of the time the Discharger becomes aware of the circumstances to the Central Coast Water Board. The report shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

For noncompliance events related to combined sewer overflows, sanitary sewer overflows, or bypass events, these reports must include the data described above (with the exception of time of discovery) as well as the type of event (i.e., combined sewer overflow, sanitary sewer overflow, or bypass event), type of overflow structure (e.g., manhole, combined sewer overflow outfall), discharge volume untreated by the treatment works treating domestic sewage, types of human health and environmental impacts of the event, and whether the noncompliance was related to wet weather.

All reports related to combined sewer overflows, sanitary sewer overflows, or bypass events must be submitted to the Central Coast Water Board and must be submitted electronically to the initial recipient defined in Standard Provisions – Reporting V.J. The reports shall comply with 40 C.F.R. part 3, 40 C.F.R. section 122.22, and 40 C.F.R. part 127. The Central Coast Water Board may also require the Discharger to electronically submit reports not related to combined sewer overflows, sanitary sewer overflows, or bypass events under this section. (40 C.F.R. § 122.41(l)(6)(i).)

2. The following shall be included as information that must be reported within 24 hours:
 - a. Any unanticipated bypass that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(l)(6)(ii)(A).)
 - b. Any upset that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(l)(6)(ii)(B).)

3. The Central Coast Water Board may waive the above required written report on a case-by-case basis if an oral report has been received within 24 hours. (40 C.F.R. § 122.41(l)(6)(ii)(B).)

F. Planned Changes

The Discharger shall give notice to the Central Coast Water Board as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required under this provision only when (40 C.F.R. § 122.41(l)(1)):

1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in section 122.29(b) (40 C.F.R. § 122.41(l)(1)(i)); or
2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in this Order. (40 C.F.R. § 122.41(l)(1)(ii).)

G. Anticipated Noncompliance

The Discharger shall give advance notice to the Central Coast Water Board of any planned changes in the permitted facility or activity that may result in noncompliance with this Order's requirements. (40 C.F.R. § 122.41(l)(2).)

H. Other Noncompliance

The Discharger shall report all instances of noncompliance not reported under Standard Provisions – Reporting V.C, V.D, and V.E above at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting V.E above. For noncompliance events related to combined sewer overflows, sanitary sewer overflows, or bypass events, these reports shall contain the information described in Standard Provision – Reporting V.E and the applicable required data in appendix A to 40 C.F.R. part 127. The Central Coast Water Board may also require the Discharger to electronically submit reports not related to combined sewer overflows, sanitary sewer overflows, or bypass events under this section. (40 C.F.R. § 122.41(l)(7).)

I. Other Information

When the Discharger becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Central Coast Water Board, State Water Board, or U.S. EPA, the Discharger shall promptly submit such facts or information. (40 C.F.R. § 122.41(l)(8).)

J. Initial Recipient for Electronic Reporting Data

The owner, operator, or the duly authorized representative is required to electronically submit NPDES information specified in appendix A to 40 C.F.R. part 127 to the initial recipient defined in 40 C.F.R. section 127.2(b). U.S. EPA will identify and publish the list of initial recipients on its website and in the Federal Register, by state and by NPDES data group [see 40 C.F.R. section 127.2(c)]. U.S. EPA will update and maintain this listing. (40 C.F.R. § 122.41(l)(9).)

VI. STANDARD PROVISIONS – ENFORCEMENT

- A. The Central Coast Water Board is authorized to enforce the terms of this permit under several provisions of the [California](#) Water Code, including, but not limited to, sections 13268, 13385, 13386, and 13387.

VII. ADDITIONAL PROVISIONS – NOTIFICATION LEVELS

A. Publicly-Owned Treatment Works (POTWs)

All POTWs shall provide adequate notice to the Central Coast Water Board of the following (40 C.F.R. § 122.42(b)):

1. Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to sections 301 or 306 of the CWA if it were directly discharging those pollutants (40 C.F.R. § 122.42(b)(1)); and
2. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of adoption of the Order. (40 C.F.R. § 122.42(b)(2).)
3. Adequate notice shall include information on the quality and quantity of effluent introduced into the POTW as well as any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW. (40 C.F.R. § 122.42(b)(3).)

VIII. CENTRAL COAST WATER BOARD STANDARD PROVISIONS

A. Central Coast Standard Provision – Prohibitions

1. Introduction of “incompatible wastes” to the treatment system is prohibited.
2. Discharge of high-level radiological waste and of radiological, chemical, and biological warfare agents is prohibited.
3. Discharge of “toxic pollutants” in violation of effluent standards and prohibitions established under section 307(a) of the [Clean Water Act \(CWA\)](#) is prohibited.
4. Discharge of sludge, sludge digester or thickener supernatant, and sludge drying bed leachate to drainageways, surface waters, or the ocean is prohibited.
5. Introduction of pollutants into the collection, treatment, or disposal system by and “indirect discharger” that:
 - a. Inhibit or disrupt the treatment process, system operation, or the eventual use or disposal of sludge; or,
 - b. Flow through the system to the receiving water untreated; and,
 - c. Cause or “significantly contribute” to a violation of any requirement of this Order, is prohibited.
6. Introduction of “pollutant free” wastewater to the collection, treatment, and disposal system in amounts that threaten compliance with this order is prohibited.

B. Central Coast Standard Provision – Provisions

1. Collection, treatment, and discharge of waste shall not create a nuisance or pollution, as defined by California Water Code 13050.

2. All facilities used for transport or treatment of wastes shall be adequately protected from inundation and washout as the result of a 100-year frequency flood.
3. Operation of collection, treatment, and disposal systems shall be in a manner that precludes public contact with wastewater.
4. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed in a manner approved by the Central Coast Water Board Executive Officer.
5. Publicly owned wastewater treatment plants shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Title 23 of the California Administrative Code.
6. After notice and opportunity for a hearing, this order may be terminated for cause, including, but not limited to:
 - a. Violation of any term or condition contained in this order;
 - b. Obtaining this order by misrepresentation, or by failure to disclose fully all relevant facts;
 - c. A change in any condition or endangerment to human health or environment that requires a temporary or permanent reduction or elimination of the authorized discharge; and,
 - d. A substantial change in character, location, or volume of the discharge.
7. Provisions of this permit are severable. If any provision of the permit is found invalid, the remainder of the permit shall not be affected.
8. After notice and opportunity for hearing, this order may be modified or revoked and reissued for cause, including:
 - a. Promulgation of a new or revised effluent standard or limitation;
 - b. A material change in character, location, or volume of the discharge;
 - c. Access to new information that affects the terms of the permit, including applicable schedules;
 - d. Correction of technical mistakes or mistaken interpretations of law; and,
 - e. Other causes set forth under Sub-part D of 40 C.F.R. part 122.
9. Safeguards shall be provided to ensure maximal compliance with all terms and conditions of this permit. Safeguards shall include preventative and contingency plans and may also include alternative power sources, stand-by generators, retention capacity, operative procedures, or other precautions. Preventative and contingency plans for controlling and minimizing the effect of accidental discharges shall:

- a. Identify possible situations that could cause “upset,” “overflow,” or “bypass,” or other noncompliance. (Loading and storage areas, power outage, waste treatment unit outage, and failure of process equipment, tanks and pipes should be considered).
 - b. Evaluate the effectiveness of present facilities and procedures and describe procedures and steps to minimize or correct any adverse environmental impact resulting from noncompliance with the permit.
10. Physical Facilities shall be designed and constructed according to accepted engineering practice and shall be capable of full compliance with this order when properly operated and maintained. Proper operation and maintenance shall be described in an Operation and Maintenance Manual. Facilities shall be accessible during the wet-weather season.
11. The discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the discharger to achieve compliance with the conditions of this order. Electrical and mechanical equipment shall be maintained in accordance with appropriate practices and standards, such as NFPA 70B, *Recommended Practice for Electrical Equipment Maintenance*; NFPA 70E, *Standard for Electrical Safety in the Workplace*; ANSI/NETA MTS *Standard for Maintenance: Testing Specifications for Electrical Power Equipment and Systems*, or procedures established by insurance companies or industry resources.
12. If the discharger’s facilities are equipped with [supervisory control and data acquisition \(SCADA\)](#) or other systems that implement wireless, remote operation, the discharger should implement appropriate safeguards against unauthorized access to the wireless systems. Standards such as [National Institute of Standards and Technology Special Publication \(NIST SP\) 800-53](#), *Recommended Security Controls for Federal Information Systems*, can provide guidance.
13. Production and use of reclaimed water is subject to the approval of the Central Coast Water Board. Production and use of reclaimed water shall be in conformance with recycling criteria established in chapter 3, ~~title~~ 22, of the California Administrative Code and chapter 7, division 7, of the California Water Code. An engineering report pursuant to section 60323, ~~title~~ 22, of the California Administrative Code is required and a waiver or water recycling requirements from the Central Coast Water Board is required before reclaimed water is supplied for any use, or to any user, not specifically identified and approved either in this Order or another order issued by this Board.

C. Central Coast Standard Provisions – General Monitoring Requirements

1. If results of monitoring a pollutant appear to violate effluent limitations based on a weekly, monthly, 30-day, or six-month period, but compliance or non-compliance cannot be validated because sampling is too infrequent, the frequency of sampling shall be increased to validate the test within the next monitoring period.

The increased frequency shall be maintained until the Central Coast Water Board Executive Officer agrees the original monitoring frequency may be resumed.

For example, if copper is monitored annually and results exceed the six-month median numerical effluent limitation in the permit, monitoring of copper must be increased to a frequency of at least once every two months (Central Coast Standard Provisions – Definitions I.G.13.). If suspended solids are monitored weekly and results exceed the weekly average numerical limit in the permit, monitoring of suspended solids must be increased to at least four (4) samples every week (Central Coast Standard Provisions – Definitions I.G.14.).

2. Water quality analyses performed in order to monitor compliance with this permit shall be by a laboratory certified by the State Water Board for the constituent(s) being analyzed. Bioassay(s) performed in order to monitor compliance with this permit shall be in accord with guidelines approved by the State Water Board and the State Department of Fish and Wildlife. If the laboratory used or proposed for use by the discharger is not certified by the State Water Board or, where appropriate, the Department of Fish and Wildlife due to restrictions in the State's laboratory certification program, the discharger shall be considered in compliance with this provision provided:
 - a. Data results remain consistent with results of samples analyzed by the Central Coast Water Board;
 - b. A quality assurance program is used at the laboratory, including a manual containing steps followed in this program that is available for inspections by the staff of the Central Coast Water Board; and,
 - c. Certification is pursued in good faith and obtained as soon as possible after the program is reinstated.
3. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. Samples shall be taken during periods of peak loading conditions. Influent samples shall be samples collected from the combined flows of all incoming wastes, excluding recycled wastes. Effluent samples shall be samples collected downstream of the last treatment unit and tributary flow and upstream of any mixing with receiving waters.
4. 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.

D. Central Coast Standard Provisions – General Reporting Requirements

1. Reports of marine monitoring surveys conducted to meet receiving water monitoring requirements of the [Monitoring and Reporting Program MRP](#) shall include at least the following information:
 - a. A description of climatic and receiving water characteristics at the time of sampling (weather observations, floating debris, discoloration, wind speed and direction, swell or wave action, time of sampling, tide height, etc.).

- b. A description of sampling stations, including differences unique to each station (e.g., station location, grain size, rocks, shell litter, calcareous worm tubes, evident life, etc.).
 - c. A description of the sampling procedures and preservation sequence used in the survey.
 - d. A description of the exact method used for laboratory analysis. In general, analysis shall be conducted according to Central Coast Standard Provisions – C.1 above, and Federal Standard Provision – Monitoring III.B. However, variations in procedure are acceptable to accommodate the special requirements of sediment analysis. All such variations must be reported with the test results.
 - e. A brief discussion of the results of the survey. The discussion shall compare data from the control station with data from the outfall stations. All tabulations and computations shall be explained.
2. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule shall be submitted within 14 days following each scheduled date unless otherwise specified within the permit. If reporting noncompliance, the report shall include a description of the reason, a description and schedule of tasks necessary to achieve compliance, and an estimated date for achieving full compliance. A second report shall be submitted within 14 days of full compliance.
3. The “Discharger” shall file a report of waste discharge or secure a waiver from the Central Coast Water Board Executive Officer at least 180 days before making any material change or proposed change in the character, location, or plume of the discharge.
4. Within 120 days after the discharger discovers, or is notified by the Central Coast Water Board, that monthly average daily flow will or may reach design capacity of waste treatment and/or disposal facilities within four (4) years, the discharger shall file a written report with the Central Coast Water Board. The report shall include:
 - a. the best estimate of when the monthly average daily dry weather flow rate will equal or exceed design capacity; and,
 - b. a schedule for studies, design, and other steps needed to provide additional capacity for waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units.

In addition to complying with Federal Standard Provision – Reporting V.B., the required technical report shall be prepared with public participation and reviewed, approved and jointly submitted by all planning and building departments having jurisdiction in the area served by the waste collection, treatment, or disposal facilities.

5. All “Dischargers” shall submit reports electronically to the:

State Water Board’s California Integrated Water Quality System (CIWQS) database at: <http://ciwqs.waterboards.ca.gov/>.

In addition, "Dischargers" with designated major discharges shall submit a copy of each document to U.S. EPA, Region 9’s Discharge Monitoring Report (NetDMR) database at: <https://cdxnodengn.epa.gov/net-netdmr/>.

Other correspondence may be sent to the Central Coast Region at: centralcoast@waterboards.ca.gov.

6. Transfer of control or ownership of a waste discharge facility must be preceded by a notice to the Central Coast Water Board at least 30 days in advance of the proposed transfer date. The notice must include a written agreement between the existing “Discharger” and proposed “Discharger” containing specific date for transfer of responsibility, coverage, and liability between them. Whether a permit may be transferred without modification or revocation and reissuance is at the discretion of the Board. If permit modification or revocation and reissuance is necessary, transfer may be delayed 180 days after the Central Coast Water Board's receipt of a complete permit application. Please also see Federal Standard Provision – Permit Action II.C.
7. Except for data determined to be confidential under CWA §308 (excludes effluent data and permit applications), all reports prepared in accordance with this permit shall be available for public inspection at the office of the Central Coast Water Board or Regional Administrator of U.S. EPA. Please also see Federal Standard Provision – Records IV.C.
8. By February 1 of each year, the discharger shall submit an annual report to the Central Coast Water Board. The report shall contain the following:
- a. Both tabular and graphical summaries of the monitoring data obtained during the previous year.
 - b. A discussion of the previous year’s compliance record and corrective actions taken, or which may be needed, to bring the discharger into full compliance.
 - c. An evaluation of wastewater flows with projected flow rate increases over time and the estimated date when flows will reach facility capacity.
 - d. A discussion of operator certification and a list of current operating personnel and their grades of certification.
 - e. The date of the facility’s Operation and Maintenance Manual (including contingency plans as described in Provision B.9), the date the manual was last reviewed, and whether the manual is complete and valid for the current facility.

- f. A discussion of the laboratories used by the discharger to monitor compliance with effluent limits and a summary of performance relative to [Section C, General Monitoring Requirements](#).
- g. If the facility treats industrial or domestic wastewater and there is no provision for periodic sludge monitoring in the [Monitoring and Reporting Program MRP](#), the report shall include a summary of sludge quantities, analyses of its chemical and moisture content, and its ultimate destination.
- h. If appropriate, the report shall also evaluate the effectiveness of the local source control or pretreatment program using the State Water Resources Control Board's (State Water Board's) "Guidelines for Determining the Effectiveness of Local Pretreatment Program."

E. Central Coast Standard Provisions – General Pretreatment Provisions

Discharge of pollutants by "indirect dischargers" in specific industrial sub-categories (40 C.F.R. part 403 appendix C), where categorical pretreatment standards have been established, or are to be established, (according to 40 C.F.R. chapter 1, subchapter N), shall comply with the appropriate pretreatment standards by the date specified therein or; if a new indirect discharger, upon commencement of discharge.

F. Central Coast Standard Provision – Enforcement

1. Any person failing to file a report of waste discharge or other report as required by this permit shall be subject to a civil penalty not to exceed \$5,000 per day.
2. Upon reduction, loss, or failure of the treatment facility, the "Discharger" shall, to the extent necessary to maintain compliance with this permit, control production or all discharges, or both, until the facility is restored or an alternative method of treatment is provided.

G. Central Coast Standard Provisions – Definitions (Not otherwise included in Attachment A to this Order)

1. A "composite sample" is a combination of no fewer than eight individual samples obtained at equal time intervals (usually hourly) over the specified sampling (composite) period. The volume of each individual sample is proportional to the flow rate at the time of sampling. The period shall be specified in the [Monitoring and Reporting Program MRP](#) ordered by the Central Coast Water Board Executive Officer.
2. "Daily Maximum" limit means the maximum acceptable concentration or mass emission rate of a pollutant measured during a calendar day or during any 24-hour period reasonably representative of the calendar day for purposes of sampling. It is normally compared with results based on "composite samples" except for ammonia, total chlorine, phenolic compounds, and toxicity concentration. For all exceptions, comparisons will be made with results from a "grab sample".
3. "Discharger", as used herein, means, as appropriate: (1) the Discharger, (2) the local sewerage entity (when the collection system is not owned and operated by

the Discharger), or (3) "indirect discharger" (where "Discharger" appears in the same paragraph as "indirect discharger", it refers to the discharger.)

4. "Duly Authorized Representative" is one where:
 - a. the authorization is made in writing by a person described in the signatory paragraph of Federal Standard Provision V.B.;
 - b. the authorization specifies either an individual or the occupant of a position having either responsibility for the overall operation of the regulated facility, such as the plant manager, or overall responsibility for environmental matters of the company; and,
 - c. the written authorization was submitted to the Central Coast Water Board.
5. A "grab sample" is defined as any individual sample collected in less than 15 minutes. "Grab samples" shall be collected during peak loading conditions, which may or may not be during hydraulic peaks. It is used primarily in determining compliance with the daily maximum limits identified in Central Coast Standard Provision – Provision G.2. and instantaneous maximum limits.
6. "Hazardous substance" means any substance designated under 40 C.F.R. part 116 pursuant to [Section 311 of the Clean Water Act](#) CWA.
7. "Incompatible wastes" are:
 - a. Wastes which create a fire or explosion hazard in the treatment works;
 - b. Wastes which will cause corrosive structural damage to treatment works, but in no case wastes with a pH lower than 5.0 unless the works is specifically designed to accommodate such wastes;
 - c. Solid or viscous wastes in amounts which cause obstruction to flow in sewers, or which cause other interference with proper operation of treatment works;
 - d. Any waste, including oxygen demanding pollutants (BOD, etc), released in such volume or strength as to cause inhibition or disruption in the treatment works and subsequent treatment process upset and loss of treatment efficiency; and,
 - e. Heat in amounts that inhibit or disrupt biological activity in the treatment works or that raise influent temperatures above 40°C (104°F) unless the treatment works is designed to accommodate such heat.
8. "Indirect Discharger" means a non-domestic discharger introducing pollutants into a publicly owned treatment and disposal system.
9. "Log Mean" is the geometric mean. Used for determining compliance of fecal or total coliform populations, it is calculated with the following equation:
$$\text{Log Mean} = (C_1 \times C_2 \times \dots \times C_n)^{1/n}$$

in which "n" is the number of days samples were analyzed during the period and any "C" is the concentration of bacteria (MPN/100 ml) found on each day of sampling. "n" should be five or more.

10. "Mass emission rate" is a daily rate defined by the following equations:

$$\text{mass emission rate (lbs/day)} = 8.34 \times Q \times C; \text{ and,}$$

$$\text{mass emission rate (kg/day)} = 3.79 \times Q \times C,$$

where "C" (in mg/L) is the measured daily constituent concentration or the average of measured daily constituent concentrations and "Q" (in MGD) is the measured daily flowrate or the average of measured daily flow rates over the period of interest.

11. The "Maximum Allowable Mass Emission Rate," whether for a month, week, day, or six-month period, is a daily rate determined with the formulas in paragraph G.10, above, using the effluent concentration limit specified in the permit for the period and the average of measured daily flows (up to the allowable flow) over the period.
12. "Maximum Allowable Six-Month Median Mass Emission Rate" is a daily rate determined with the formulas in Central Coast Standard Provision – Provision G.10, above, using the "six-month Median" effluent limit specified in the permit, and the average of measured daily flows (up to the allowable flow) over a 180-day period.
13. "Median" is the value below which half the samples (ranked progressively by increasing value) fall. It may be considered the middle value, or the average of two middle values.
14. "Monthly Average" (or "Weekly Average", as the case may be) is the arithmetic mean of daily concentrations or of daily mass emission rates over the specified 30-day (or 7-day) period.

$$\text{Average} = (X_1 + X_2 + \dots + X_n) / n$$

in which "n" is the number of days samples were analyzed during the period and "X" is either the constituent concentration (mg/l) or mass emission rate (kg/day or lbs/day) for each sampled day. "n" should be four or greater.

15. "Municipality" means a city, town, borough, county, district, association, or other public body created by or under State law and having jurisdiction over disposal of sewage, industrial waste, or other waste.
16. "Overflow" means the intentional or unintentional diversion of flow from the collection and transport systems, including pumping facilities.
17. "Pollutant-free wastewater" means inflow and infiltration, stormwaters, and cooling waters and condensates which are essentially free of pollutants.

18. "Primary Industry Category" means any industry category listed in 40 C.F.R. part 122, Appendix A.
19. "Removal Efficiency" is the ratio of pollutants removed by the treatment unit to pollutants entering the treatment unit. Removal efficiencies of a treatment plant shall be determined using "Monthly averages" of pollutant concentrations (C, in mg/l) of influent and effluent samples collected about the same time and the following equation (or its equivalent):

$$C_{\text{Effluent}} \text{ Removal Efficiency (\%)} = 100 \times (1 - C_{\text{effluent}} / C_{\text{influent}})$$

20. "Severe property damage" means substantial physical damage to property, damage to treatment facilities which causes them to become inoperable, or substantial and permanent loss to natural resources which can reasonably be expected to occur in the absence of a "bypass". It does not mean economic loss caused by delays in production.
21. "Sludge" means the solids, residues, and precipitates separated from, or created in, wastewater by the unit processes of a treatment system.
22. To "significantly contribute" to a permit violation means an "indirect discharger" must:
- Discharge a daily pollutant loading in excess of that allowed by contract with the "Discharger" or by Federal, State, or Local law;
 - Discharge wastewater which substantially differs in nature or constituents from its average discharge;
 - Discharge pollutants, either alone or in conjunction with discharges from other sources, which results in a permit violation or prevents sewage sludge use or disposal; or
 - Discharge pollutants, either alone or in conjunction with pollutants from other sources that increase the magnitude or duration of permit violations.
23. "Toxic Pollutant" means any pollutant listed as toxic under [Section 307 \(a\) \(1\) of the Clean Water Act](#) or under 40 C.F.R. part 122, Appendix D. Violation of maximum daily discharge limitations are subject to 24-hour reporting (Federal Standard Provisions V.E.).
24. "Zone of Initial Dilution" means the region surrounding or adjacent to the end of an outfall pipe or diffuser ports whose boundaries are defined through calculation of a plume model verified by the State Water Board.

Attachment E – Monitoring and Reporting Program

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ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP)

Section 308 of the federal Clean Water Act (CWA) and sections 122.41(h), (j)-(l), 122.44(i), and 122.48 of Title 40 of the Code of Federal Regulations (40 C.F.R.) require that all NPDES permits specify monitoring and reporting requirements. [California](#) Water Code sections 13267 and 13383 also authorize the Central Coast Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. This MRP establishes monitoring, reporting, and recordkeeping requirements that implement the federal and California laws and/or regulations.

I. GENERAL MONITORING PROVISIONS

- A. Laboratory Certification. Laboratories analyzing monitoring samples shall be certified by the State Water Resources Control Board (State Water Board), in accordance with the provision of [California](#) Water Code section 13176, and must include quality assurance/quality control data with their reports.
- B. 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 now be changed without notification to and approval of the Central Coast Water Board.
- C. 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. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than ± 10 percent from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration, and operation of acceptable flow measurement devices can be obtained from the following references.
 - 1. *A Guide to Methods and Standards for the Measurement of Water Flow*, U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 421, May 1975, 96 pp. (Available from the U.S. Government Printing Office, Washington, D.C. 20402. Order by SD Catalog No. C13.10:421.)
 - 2. *Water Measurement Manual*, U.S. Department of Interior, Bureau of Reclamation, Second Edition, Revised Reprint, 1974, 327 pp. (Available from the U.S. Government Printing Office, Washington D.C. 20402. Order by Catalog No. 172.19/2:W29/2, Stock No. S/N 24003-0027.)
 - 3. *Flow Measurement in Open Channels and Closed Conduits*, U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 484, October 1977, 982 pp. (Available in paper copy or microfiche from National Technical Information Services (NTIS) Springfield, VA 22050. Order by NTIS No. PB-273 535/5ST.)

- 4. *NPDES Compliance Sampling Manual*, U.S. Environmental Protection Agency, Office of Water Enforcement, Publication MCD-51, 1977, 140 pp. (Available from the General Services Administration (8FFS), Centralized Mailing Lists Services, Building 41, Denver Federal Center, CO 80225.)
- D. 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.
- E. Monitoring results, including noncompliance, shall be reported at intervals and in a manner specified in this MRP.
- F. Unless otherwise specified by this MRP, all monitoring shall be conducted according to test procedures established at 40 C.F.R. 136, Guidelines Establishing Test Procedures for Analysis of Pollutants. All analyses shall be conducted using the lowest practical quantitation limit achievable using the specified methodology. Where effluent limitations are set below the lowest achievable quantitation limits, pollutants not detected at the lowest practical quantitation limits will be considered in compliance with effluent limitations. Analysis for toxic pollutants specified in Table 3 of the California Ocean Plan shall be conducted in accordance with procedures described in the California Ocean Plan and restated in this MRP.

II. MONITORING LOCATIONS

The Discharger shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements in this Order:

Table E-1. Monitoring Station Locations

Discharge Point	Monitoring Location Name	Monitoring Location Description
--	INF-001	Influent wastewater prior to treatment and following all significant inputs to the collection system or to the headworks of untreated wastewater, upstream of any in-plant return flows, where a representative sample of wastewater influent can be obtained.
001	EFF-001	Location where representative sample of effluent to be discharged through the ocean outfall can be collected, after treatment and before contact with receiving water.
002	RCY-001	Location where representative sample of recycled effluent water to be reused for irrigation can be collected, after treatment and chlorination/dechlorination and prior to discharge or distribution .
Surf Zone Monitoring Locations		
--	SRF-A	At a reference location along shoreline upcoast of SRF-B in surf zone. Latitude: 35° 25' 11.66" N Longitude: 120° 52' 45.08" W

Discharge Point	Monitoring Location Name	Monitoring Location Description
--	SRF-B	At a location along shoreline upcoast of the outfall in surf zone. Latitude: 35° 24' 53.18" N Longitude: 120° 52' 34.40" W
--	SRF-C	At a location along shoreline downcoast of the outfall in surf zone. Latitude: 35° 24' 38.26" N Longitude: 120° 52' 26.31" W
--	SRF-D	Toro Creek: At a location near shoreline at mouth of Toro Creek before flowing to the Ocean. Latitude: 35° 24' 45.16" N Longitude: 120° 52' 21.72" W
Receiving Water Monitoring Locations		
--	RSW-001	At a location in receiving water <u>just</u> upcoast <u>of the Zone of Initial Dilution</u> and at mid-depth of the diffuser, at a distance of 1,000 feet from the shoreline or the 30-foot depth contour, whichever is further from the shoreline. Latitude: 35° 24' 46.0750.57 " N Longitude: 120° 53' 10.02" W
--	RSW-002	At a location in receiving water <u>just</u> downcoast <u>of the Zone of Initial Dilution</u> and at mid-depth of the diffuser, at a distance of 1,000 feet from the shoreline or the 30-foot depth contour, whichever is further from the shoreline. Latitude: 35° 24' 42.1337.63 " N Longitude: 120° 53' 10.02" W
--	RSW-003 ^[1]	At a location in receiving water within the Zone of Initial Dilution and at mid-depth of diffuser. Latitude: 35° 24' 44.42" N Longitude: 120° 53' 10.02" W
Benthic Monitoring Locations		
--	B-001	At a location on ocean floor <u>just</u> upcoast of <u>the Zone of Initial Dilution diffuser.</u> Latitude: 35° 24' 46.0750.57 " N Longitude: 120° 53' 10.02" W
--	B-002	At a location on ocean floor <u>just</u> downcoast of <u>the Zone of Initial Diultion diffuser.</u> Latitude: 35° 24' 42.1337.63 " N Longitude: 120° 53' 10.02" W
--	B-003 ^[1]	At a location on the ocean floor within the Zone of Initial Dilution Latitude: 35° 24' 44.42" N Longitude: 120° 53' 10.02" W

[1] This Order does not currently require monitoring at monitoring station B-003/RSW-003. This is a placeholder in the event that the Discharger must collect representative benthic or receiving water data within the waste field where initial dilution is completed.

The north latitude and west longitude information in Table E-1 are approximate for administrative purposes. Attachment B includes a map of the monitoring locations.

III. INFLUENT MONITORING REQUIREMENTS

A. Monitoring Location INF-001

1. The Discharger shall monitor influent to the Facility at INF-001 as follows:

Table E-2. Influent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Daily Flow	MG	Metered	1/Day	[1]
Maximum Daily Flow	MGD	Metered	1/Day	[1]
Mean Daily Flow	MGD	Calculated	1/Month	[1]
Biochemical Oxygen Demand 5-day @ 20°C (BOD ₅)	mg/L	24-hr Composite ^[2]	1/Week	[1]
Total Suspended Solids (TSS)	mg/L	24-hr Composite ^[2]	1/Week	[1]
Chronic Toxicity^[3]	TUc	24-hr Composite^[2]	Once during first year of permit^[5] and once thereafter during permit term	[4]
Ocean Plan Table 3 Pollutants ^[34]	µg/L	24-hr Composite ^[2]	Once during first year of permit ^[54] and once thereafter during permit term	[1]

[1] As required under 40 C.F.R. part 136.

[2] Composite samples may be taken by a proportional sampling device approved by the Central Coast Water Board Executive Officer or by grab samples composited in proportion to flow. In compositing grab samples, the sampling interval shall not exceed one hour.

~~[3] Whole effluent chronic toxicity monitoring shall be conducted according to the requirements established in section V of this Monitoring and Reporting Program.~~

~~[4]~~^[3] Those pollutants identified in Table 3 of the Ocean Plan (2019). Analyses, compliance determination, and reporting for these pollutants shall adhere to applicable provisions of the Ocean Plan, including the Standard Monitoring Procedures presented in Appendix III of the Ocean Plan. The Discharger shall instruct its analytical laboratory to establish calibration standards so that the Minimum Levels (MLs) presented in Appendix II of the Ocean Plan are the lowest calibration standards. The Discharger and its analytical laboratory shall select MLs,

which are below applicable water quality criteria of Table 3; and when applicable water quality criteria are below all MLs, the Discharger and its analytical laboratory shall select the lowest ML.

~~(6)(4)~~ Because this is a new facility, this Order requires influent sampling for chronic toxicity and Ocean Plan Table 3 pollutants during the first year of the Order.

IV. EFFLUENT MONITORING REQUIREMENTS

A. Monitoring Location EFF-001

1. The Discharger shall monitor effluent at Monitoring Location EFF-001 as follows. If more than one analytical test method is listed for a given parameter, the Discharger must select from the listed methods and corresponding Minimum Level:

Table E-3. Effluent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Daily Flow	MG	Metered	1/Day	[1]
Maximum Daily Flow	MGD	Metered	1/Day	[1]
Mean Daily Flow	MGD	Calculated	1/Month	[1]
BOD ₅	mg/L	C-24 ^[2]	1/Week	[1]
TSS	mg/L	C-24 ^[2]	1/Week	[1]
Settleable Solids	mL/L	Grab	1/Week	[1]
Turbidity	NTU	Grab <u>Metered</u>	5/Week <u>1/Day</u>	[1]
Oil and Grease	mg/L	Grab	1/Week	[1]
Total Chlorine Residual	mg/L	Grab	4/Day	[4]
Chlorine Usage	lbs/day	Recorded	4/Day	[4]
Total Coliform Bacteria	MPN/100 mL	Grab	5/Week <u>1/Day</u>	[1]
Fecal Coliform Bacteria	MPN/100 mL	Grab	5/Week <u>(Wednesday and Saturday)^[3]</u>	[1]
Enterococcus	colony forming units (CFU)/100 mL	Grab	4/5/Year <u>Week</u>	[1]
pH	standard units	Grab	1/Week	[1]
Temperature	° C	Grab	5/Week	[1]

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Ammonia (as N)	mg/L	Grab	1/Month	[1]
Chronic Toxicity ^[34]	TUc	C-24 ^[2]	1/Year	[1]
Ocean Plan Table 3 Pollutants ^[54]	µg/L	C-24 ^[2]	1/Year	[1]

[1] As required under 40 C.F.R. part 136.

[2] Composite samples may be taken by a proportional sampling device approved by the Central Coast Water Board Executive Officer or by grab samples composited in proportion to flow. In compositing grab samples, the sampling interval shall not exceed one hour.

[3] Fecal coliform bacteria effluent monitoring shall be conducted daily, instead of twice per week, if any of the following occur: 1) effluent bacterial monitoring results exceed receiving water bacterial standards for water-contact or shellfish harvesting specified in section V.A.1 of the Order, 2) effluent turbidity monitoring results exceed recycling specifications for turbidity in section IV.C.5 of the Order, 3) the ultraviolet (UV) disinfection system does not meet the conditions in the recycling specifications for the UV disinfection system in section IV.C.7 of the Order, 4) effluent violations that indicate potential for elevated bacteria concentrations in effluent, or 5) operational changes, plant upsets, or process failures that the Discharger determines have the potential to cause bacteria levels outside normal ranges in the effluent. If any of the above-listed items occur, the Discharger shall provide notice in accordance with requirements established by section VI.C.7 of the Order and shall conduct daily fecal coliform bacteria effluent monitoring for a minimum of seven days and until the issue that triggered the increased monitoring frequency is resolved. If any of the above-listed items are recurring, the Central Coast Water Board Executive Officer may require ongoing daily fecal coliform bacteria effluent monitoring.

[3][4] Whole effluent chronic toxicity monitoring shall be conducted according to the requirements established in section V of this Monitoring and Reporting ProgramMRP.

[4][5] Those pollutants identified in Table 3 of the Ocean Plan (20198). Analyses, compliance determination, and reporting for these pollutants shall adhere to applicable provisions of the Ocean Plan, including the Standard Monitoring Procedures presented in Appendix III of the Ocean Plan. The Discharger shall instruct its analytical laboratory to establish calibration standards so that the Minimum Levels (MLs) presented in Appendix II of the Ocean Plan are the lowest calibration standards. The Discharger and its analytical laboratory shall select MLs, which are below applicable water quality criteria of Table 3; and when applicable water quality criteria are below all MLs, the Discharger and its analytical laboratory shall select the lowest ML.

V. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

A. Whole Effluent Chronic Toxicity – Monitoring Location EFF-001

The presence of chronic toxicity shall be estimated as specified in *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms*, EPA-821/600/R-95/136; *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms*, EPA-600-4-01-003; *Procedures Manual for Conducting Toxicity Tests developed by the Marine Bioassay Project*, SWRCB 1996, 96-1WQ; and/or *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms*, EPA/600/4-87-028 or subsequent editions.

Chronic toxicity measures a sublethal effect (e.g., reduced growth or reproduction) to experimental test organisms exposed to an effluent compared to that of the control organisms.

$$\text{Chronic Toxicity (TUc)} = 100 / \text{NOEL}$$

The no observed effect level (NOEL) is the maximum tested concentration in a medium which does not cause known adverse effects upon chronic exposure in the species in question (i.e., the highest effluent concentration to which organisms are exposed in a chronic test that causes no observable adverse effects on the test organism; e.g., the highest concentration of a toxicant to which the values for the observed responses are not statistically significantly different from the controls). Examples of chronic toxicity include, but are not limited to, measurements of toxicant effects on reproduction, growth, and sublethal effects that can include behavioral, physiological, and biochemical effects.

In accordance with the Ocean Plan, Appendix III, *Standard Monitoring Procedures*, the Discharger shall use the critical life stage toxicity tests specified in the table below to measure TUc. Other species or protocols will be added to the list after the State Water Board review and approval.

A minimum of three test species with approved test protocols shall be used to measure compliance with the toxicity objective. If possible, the test species shall include a fish, an invertebrate, and an aquatic plant. After a screening period of no fewer than three sampling events, monitoring can be reduced to the most sensitive species. Dilution and control water should be obtained from an unaffected area of the receiving waters. The sensitivity of the test organisms to a reference toxicant shall be determined concurrently with each bioassay test and reported with the test results.

Table E-4. Approved Tests – Chronic Toxicity

Species	Effect	Tier ^[1]	Reference ^[2]
Giant Kelp, <i>Macrocystis pyrifera</i>	Percent germination; germ tube length	1	a, c
Red abalone, <i>Haliotis rufesens</i>	Abnormal shell development	1	a, c

Species	Effect	Tier ^[1]	Reference ^[2]
Oyster, <i>Crassostrea gigas</i> ; Mussels, <i>Mytilus spp.</i>	Abnormal shell development; percent survival	1	a, c
Urchin, <i>Strongylocentrotus purpuratus</i> ; Sand dollar, <i>Dendraster excentricus</i>	Percent normal development; percent fertilization	1	a, c
Shrimp, <i>Holmesimysis costata</i>	Percent survival; growth	1	a, c
Shrimp, <i>Mysidopsis bahia</i>	Percent survival; fecundity	2	b, d
Topsmelt, <i>Atherinops affinis</i>	Larval growth rate; percent survival	1	a, c
Silversides, <i>Menidia beryllina</i>	Larval growth rate; percent survival	2	b, d

^[1] First tier methods are preferred for compliance monitoring. If first tier organisms are not available, the Discharger can use a second-tier test method following approval by the Regional Water Board.

^[2] Protocol References:

- a. Chapman, G.A., D.L. Denton, and J.M. Lazochak. 1995. Short-term methods for estimating the chronic toxicity of effluents and receiving waters to west coast marine and estuarine organisms. U.S. EPA Report No. EPA/600/R-95/136.
- b. Klemm, D.J., G.E. Morrison, T.J. Norberg-King, W.J. Peltier, and M.A. Heber. 1994. Short-term methods for estimating the chronic toxicity of effluents and receiving waters to marine and estuarine organisms. U.S. EPA Report No. EPA-600-4-91-003.
- c. SWRCB 1996. Procedures Manual for Conducting Toxicity Tests Developed by the Marin Bioassay Project. 96-1WQ.
- d. Weber, C.I., W.B. Horning, I.I., D.J. Klemm, T.W. Neiheisel, P.A. Lewis, E.L. Robinson, J. Menkedick and F. Kessler (eds). 1988. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms. EPA/600/4-87/028. National Information Service, Springfield, VA.

Dilution and control waters shall be obtained from an area of the receiving waters, typically upstream, which is unaffected by the discharge. Standard dilution water can be used, if the receiving water itself exhibits toxicity or if approved by the Central Coast Water Board. If the dilution water used in testing is different from the water in which the test organisms were cultured, a second control sample using culture water shall be tested.

If the effluent to be discharged to a marine or estuarine system (e.g., salinity values in excess of 1,000 mg/L) originates from a freshwater supply, salinity of the effluent must be increased with dry ocean salts (e.g., FORTY FATHOMS®) to match salinity of the receiving water. This modified effluent shall then be tested using marine species.

The presence of chronic toxicity at more than 386.3 TUc shall trigger the Toxicity Reduction Evaluation (TRE) requirement of this Order (section VI.C.2).

B. Conducting Toxicity Identification Evaluations (TIE) and Toxicity Reduction Evaluations (TRE)

1. When triggered, a TRE shall be implemented by the Discharger as specified by the Central Coast Water Board Executive Officer. A TIE may be required as part of the TRE.
2. The TIE shall be conducted to identify and evaluate toxicity in accordance with procedures recommended by the United States Environmental Protection Agency (U.S. EPA) which include the following:
 - a. *Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I*, (U.S. EPA, 1992a);
 - b. *Methods for Aquatic Toxicity Identification Evaluations: Phase 1 Toxicity Characterization Procedures, Second Edition* (U.S. EPA, 1991a);
 - c. *Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Sampling Exhibiting Acute and Chronic Toxicity* (U.S. EPA, 1993a); and
 - d. *Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity* (U.S. EPA, 1993b).
3. As part of the TIE investigation, the Discharger shall be required to implement its TRE Workplan. The Discharger shall take all reasonable steps to control toxicity once the source of the toxicity is identified. A failure to conduct required toxicity tests or a TRE within a designated period may result in the establishment of numerical effluent limitations for chronic toxicity in a permit or appropriate enforcement action. Recommended guidance in conducting a TRE includes the following:
 - a. *Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants*, August 1999, EPA/833B-99/002; and

Clarifications Regarding Toxicity Reduction and Identification Evaluations in the National Pollutant Discharge Elimination System Program dated May 27, 2001, U.S. EPA Office of Wastewater Management, Office of Regulatory Enforcement.

C. Toxicity Reporting

1. The Discharger shall include a full report of toxicity test results with the regular monthly monitoring report and include the following information.
 - a. Toxicity test results,
 - b. Dates of sample collection and initiation of each toxicity test, and
 - c. And/or toxicity discharge limitations (or value).

2. Toxicity test results shall be reported according to the appropriate guidance – *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, Fifth Edition, U.S. EPA Office of Water, PA821-R-02-012 (2002) or the latest edition, or EPA-821-R-02-012 (2002) or subsequent editions.
3. If the initial investigation TRE Workplan is used to determine that additional (accelerated) toxicity testing is unnecessary, these results shall be submitted with the monitoring report for the month in which investigations conducted under the TRE Workplan occurred.
4. Within 14 days of receipt of a chronic toxicity test result which exceeds 386.3 TUc, the Discharger shall provide written notification to the Central Coast Water Board Executive Officer of:
 - a. Findings of the TRE of other investigation to identify the cause(s) of toxicity,
 - b. Actions the Discharger has taken/will take to mitigate the impact of the discharge and to prevent the recurrence of toxicity. When corrective actions, including TRE, have not been completed, a schedule under which corrective actions will be implemented, or the reason for not taking corrective action, if no action has been taken.
 - c. When corrective actions, including a TRE, have not been completed, a schedule under which corrective actions will be implemented, or the reason for not taking corrective action, if no action has been taken, will be completed.

VI. LAND DISCHARGE MONITORING REQUIREMENTS – NOT APPLICABLE

VII. RECYCLING MONITORING REQUIREMENTS

The Discharger shall comply with applicable state and local monitoring requirements regarding the production and use of reclaimed wastewater, including requirements established by the California Department of Public Health at Title 22, sections 60301 - 60357 of the California Code of Regulations ([CCR](#)), Water Recycling Criteria.

A. Monitoring Location RCY-001

1. When producing recycled water, the Discharger shall monitor recycled water at Monitoring Location RCY-001 as follows in Table E-5 below.

Table E-5. Recycled Water Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency
Daily Flow	MGD	Metered	Continuous
Maximum Daily Flow	MGD	Calculated	Daily
Mean Daily Flow	MGD	Calculated	Daily
Total Coliform	MPN/100mL	Grab	Daily
Turbidity	NTU	Metered	Continuous
Total Non-Filterable Residue (Suspended Solids)	mg/L	24-hr Composite	Monthly
Total Dissolved Solids	mg/L	24-hr Composite	Quarterly
pH	standard units	Grab	5/Week4/Day
Settleable Solids	mL/L/hr	Grab	Daily

- a. In the event the Discharger does not comply with the recycling specifications in section IV.C of this Order, the Discharger shall immediately notify, via telephone and email, the Central Coast Water Board. Within two weeks of the noncompliance, the Discharger shall submit a written follow-up report to the Central Coast Water Board Executive Officer, which shall explain the reasons for the noncompliance and describe the steps being taken to prevent the problems from recurring.
- b. In the event the Discharger delivers recycled water not meeting the Uniform Statewide Recycling Criteria specification, the Discharger shall immediately notify, via telephone and email, all enrollees of the State Water Board’s General Water Reclamation Requirements for Recycled Water Use (State Water Board Order No. WQ 2016-0068-DDW), or enrollees of a separate applicable State or Central Coast Water Board permit, with potential to have received recycled water from the Facility.
- c. An annual self-monitoring report shall be submitted to the Central Coast Water Board by February 1 of the following year. The report shall include:
 - i. A letter transmitting self-monitoring reports should accompany each report. The letter shall include a discussion of violations found during the reporting period and actions taken or planned for correcting noted violations, such as operation or facility modifications. If the Discharger has previously submitted a report describing corrective actions or a time schedule for implementing corrective actions, reference to the previous correspondence will be satisfactory. The transmittal letter shall contain a statement by the Discharger or the Discharger’s authorized agent, under penalty of perjury, that to the best of the signer’s knowledge the report is true, accurate, and complete.
 - ii. Tabulations of the results of each required analysis by the Discharger specified in Table E-5 by date, time, type of sample, and station.

B. Volumetric Reporting of Wastewater and Recycled Water

Pursuant to Water Quality Control Policy for Recycled Water,¹ when producing recycled water, the Discharger shall track volumetric reporting of wastewater and recycled water.

1. Annual Reporting. The Discharger shall submit an annual report to the State Water Board by April 30 of each calendar year furnished with the information detailed in section VII.A.2 of the MRP. The Discharger shall submit this annual report electronically via the State Water Board's Internet GeoTracker system under a site-specific global identification number at:
<https://geotracker.waterboards.ca.gov/>.
2. Volumetric Monitoring. The Discharger shall report the items described below and provide all volumetric data as acre-feet (af).
 - a. Influent. Monthly volume of wastewater collected and treated by the wastewater treatment plant.
 - b. Production. Monthly volume of wastewater treated, specifying level of treatment.
 - c. Discharge. Monthly volume of treated wastewater discharged to each of the following, specifying level of treatment:
 - i. Inland surface waters, specifying volume required to maintain minimum instream flow.
 - ii. Enclosed bays, estuaries and coastal lagoons, and ocean waters.
 - iii. Natural systems, such as wetlands, wildlife habitats, and duck clubs, where augmentation or restoration has occurred, and that are not part of a wastewater treatment plant or water recycling treatment plant.
 - iv. Underground injection wells, such as those classified by U.S. EPA's Underground Injection Control Program, excluding groundwater recharge via subsurface application intended to reduce seawater intrusion into a coastal aquifer with a seawater interface.
 - v. Land, where beneficial use is not taking place, including evaporation or percolation ponds, overland flow, or spray irrigation disposal, excluding pasture or fields with harvested crops.
 - d. Reuse. Monthly volume of recycled water distributed.
 - e. Reuse Categories. Annual volume of treated wastewater distributed for beneficial use in compliance with [California Code of Regulations CCR](#), Title 22 in each of the use categories listed below:
 - i. Agricultural irrigation: pasture or crop irrigation.

¹ Water Quality Control Policy for Recycled Water, State Water Quality Control Board, adopted December 11, 2018, page 2,
https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2018/121118_7_final_amendment_oal.pdf.

- ii. Landscape irrigation: irrigation of parks, greenbelts, and playgrounds; school yards; athletic fields; cemeteries; residential landscaping, common areas; commercial landscaping; industrial landscaping; and freeway, highway, and street landscaping.
- iii. Golf course irrigation: irrigation of golf courses, including water used to maintain aesthetic impoundments within golf courses.
- iv. Commercial application: commercial facilities, business use (such as laundries and office buildings), car washes, retail nurseries, and appurtenant landscaping that is not separately metered.
- v. Industrial application: manufacturing facilities, cooling towers, process water, and appurtenant landscaping that is not separately metered.
- vi. Geothermal energy production: augmentation of geothermal fields.
- vii. Other non-potable uses: including but not limited to dust control, flushing sewers, fire protection, fill stations, snow making, and recreational impoundments.
- viii. Groundwater recharge: the planned use of recycled water for replenishment of a groundwater basin or an aquifer that has been designated as a source of water supply for a public water system. Includes surface or subsurface application, except for seawater intrusion barrier use.
- ix. Seawater intrusion barrier: groundwater recharge via subsurface application intended to reduce seawater intrusion into a coastal aquifer with a seawater interface.
- x. Reservoir water augmentation: the planned placement of recycled water into a raw surface water reservoir used as a source of domestic drinking water supply for a public water system, as defined in section 116275 of the Health and Safety Code, or into a constructed system conveying water to such a reservoir ([California](#) Water Code section 13561).
- xi. Raw water augmentation: the planned placement of recycled water into a system of pipelines or aqueducts that deliver raw water to a drinking water treatment plant that provides water to a public water system as defined in section 116275 of the Health and Safety Code ([California](#) Water Code section 13561).
- xii. Other potable uses: both indirect and direct potable reuse other than for groundwater recharge, seawater intrusion barrier, reservoir water augmentation, or raw water augmentation.

VIII. RECEIVING WATER MONITORING REQUIREMENTS

A. Surf Zone and Ocean Receiving Water Monitoring Requirements – Monitoring Locations SRF-A through SRF-D, RSW-001, and RSW-002.

1. [The Discharger shall conduct bacteria monitoring immediately, as specified in Table E-6, if any of the following occur: 1\) effluent bacterial monitoring results](#)

exceed receiving water bacterial standards for water-contact or shellfish harvesting specified in section V.A.1 of the Order 2) effluent violations that indicate potential for elevated bacteria concentrations in effluent, or 3) operational changes, plant upsets, or process failures that the Discharger determines have the potential to cause bacteria levels outside normal ranges in the effluent. If the total coliform limitations specified in section IV.A.1.c. of the Order are exceeded, if such an event occurs, the Discharger shall conduct the following:

- a. For a minimum of seven days and until the issue with the potential to cause elevated bacteria concentrations is resolved, the Discharger shall monitor for total and fecal coliform and enterococcus bacteria in the receiving water at the following Monitoring Station Locations identified in Table E-1: SRF-A, SRF-B, SRF-C, SRF-D, RSW-001, and RSW-002 all surf zone monitoring locations, and at one station directly upcoast (RSW-001) and one station directly downcoast (RSW-002) of the point of discharge.
 - b. The Discharger shall monitor these stations daily for a minimum of 7 days at indicated in Table E-6 provide notice in accordance with requirements established by section VI.C.7.a of the Order.
 - a.c. The Discharger shall submit a report summarizing the results of monitoring and comparing the results to the Ocean Plan water quality objectives for bacteria shall be submitted to the Central Coast Water Board Executive Officer with the next monitoring report to be submitted to the Central Coast Water Board.
2. In the event of a malfunction of the Discharger’s wastewater treatment facility’s disinfection process that results in a potential or actual discharge or inadequately disinfected effluent into the receiving water, the Discharger shall monitor receiving water for bacteria as indicated in Table E-6, and provide notice in accordance with requirements established by section VI.C.6.a of the Order.
3. If required, the Discharger shall conduct bacterial monitoring as follows:

Table E-6. Surf Zone and Ocean Receiving Water Monitoring

Parameter	Units	Minimum Sampling Frequency
Total Coliform Bacteria	MPN/100mL	1/Day for 7 days ^[1]
Fecal Coliform Bacteria	MPN/100mL	1/Day for 7 days ^[1]
Enterococcus	CFU/100mL	1/Day for 7 days ^[1]
Standard Observations	--	1/Day for 7 days ^{[1][2]}

^[1] Sample dilutions for total and fecal coliform shall be performed so the range of values extends from 2 to 16,000 MPN/100 mL. Sample dilutions for enterococcus shall be performed so the range of values extends from 1 to 10,000 CFU per mL. The detection methods used for each analysis shall be reported with the results of the analysis. Detection methods used for total and fecal coliform shall be those presented in the most

recent edition of *Standard Methods for the Examination of Water and Wastewater* or any improved method determined by the Central Coast Water Board (and approved by U.S. EPA) to be appropriate. Detection methods used for enterococcus shall be those presented in U.S. EPA publication EPA 600/4- 85/076, *Test Methods for Escherichia coli and Enterococci in Water by Membrane Filter Procedure*, or an improved method determined by the Central Coast Water Board (and approved by U.S. EPA) to be appropriate.

- [2] Standard observations shall include observation of wind direction and speed, weather (e.g., cloudy, sunny, rainy), the quantity of rainfall precipitated over the previous 7 day period, sea conditions, longshore currents (e.g., directions), and tidal conditions (e.g., high, slack, or low tide). Observations of water discoloration, floating oil and grease, turbidity, odor, materials of sew age origin in the water or on the beach, and temperature (°C) shall be recorded and reported.

B. Benthic Sediment Monitoring Requirements – Monitoring Locations B-001 through B-003

Benthic sediment monitoring shall assess the temporal and spatial occurrence of pollutants in local marine sediments and evaluate the physical and chemical quality of the sediments in relation to the outfall. Sediment monitoring shall be conducted once per permit term. Three grab samples shall be collected using a 0.1 m² Van Veen grab sampler at each benthic monitoring station. A composite of these three samples shall be analyzed as follows:

1. The Discharger shall monitor benthic sediment at Monitoring Locations B-001, B-002, and B-003 as follows:

Table E-7. Benthic Sediment Monitoring Requirements

Parameter	Units	Minimum Sampling Frequency
Sediment particle size	Phi size (% volume)	1/Permit Term
Organic Matter	Volatile Solids or TOC (mg/kg)	1/Permit Term
BOD ₅	mg/L	1/Permit Term
Total Kjeldahl Nitrogen	mg/L	1/Permit Term
Oil and Grease	mg/L	1/Permit Term
Aluminum	mg/kg	1/Permit Term
Iron	mg/kg	1/Permit Term
Arsenic	mg/kg	1/Permit Term
Cadmium	mg/kg	1/Permit Term
Total Chromium	mg/kg	1/Permit Term
Copper	mg/kg	1/Permit Term
Lead	mg/kg	1/Permit Term
Mercury	mg/kg	1/Permit Term
Nickel	mg/kg	1/Permit Term

Parameter	Units	Minimum Sampling Frequency
Silver	mg/kg	1/Permit Term
Zinc	mg/kg	1/Permit Term
Non-chlorinated Phenolics	mg/kg	1/Permit Term
Chlorinated Phenolics	mg/kg	1/Permit Term
Aldrin	mg/kg	1/Permit Term
Chlordane	mg/kg	1/Permit Term
Dieldrin	mg/kg	1/Permit Term
DDT	mg/kg	1/Permit Term
Endrin	mg/kg	1/Permit Term
PAHs	mg/kg	1/Permit Term
PCBs	mg/kg	1/Permit Term
Toxaphene	mg/kg	1/Permit Term

When processing samples for analysis, macrofauna and large remnants greater than 0.25 inches (0.64 cm) should be removed, taking care to avoid contamination.

Sediment samples shall be analyzed according to *Quality Assurance and Quality Control (QA/QC) for 301(h) Monitoring Programs: Guidance on Field and Laboratory Methods* (EPA 430/9-86-004, 1987) and *Analytical Methods for U.S. EPA Priority Pollutants and 301(h) Pesticides in Estuarine and Marine Sediments* (EPA 503-6-90-004, 1986).

All sediment chemistry results shall be reported in the raw form and expressed on a dry weight basis. For all non-detect results, parameter detection limits shall be reported. Dry weight concentration target detection levels are indicated for National Oceanic and Atmospheric Administration (NOAA) National Status and Trends Program analyses.

Benthic monitoring results shall be included in the annual report with a complete discussion of benthic sediment survey results and potential influence of the discharge on sediment conditions in the study area. The discussion should be based on graphical, tabular, and/or appropriate statistical analyses of spatial and temporal patterns observed for raw sediment parameters. The annual report should also present an analysis of natural variation in sediment conditions, etc., which could influence the validity of study results. The Discharger's sediment results may also be compared with the results of other applicable studies, numerical protective levels, etc., as appropriate.

Survey results shall be compared to pre-discharge and/or historical data using appropriate statistical methods.

C. Benthic Community Monitoring

Benthic infaunal organisms shall be monitored once per permit term at Monitoring Locations B-001 through B-003. Benthic infaunal monitoring shall assess the temporal and spatial status of local benthic communities in relation to the outfall. Sampling shall be conducted as follows:

1. Collection: At least five benthic samples shall be collected at each of the three ocean monitoring stations (B-001, B-002, and B-003) using a 0.1 m² Van Veen grab sampler.
2. For benthic infauna analyses, each replicate sample shall be passed through a 1 mm screen, and the organisms retained and preserved as appropriate for subsequent identification. It is recommended that sample preservation, sample processing, and data analyses be conducted according to *Quality Assurance and Quality Control (QA/QC) for 301(h) Monitoring Programs: Guidance on Field and Laboratory Methods* (EPA 430/9-86-004, 1987).
3. Benthic infauna from each replicate sample shall be counted and identified to the lowest possible taxon. For each replicate sample, number of individuals, number of species, and number of individuals per species, and within each major taxonomic group (polychaetes, molluscs, crustaceans, echinoderms, and all other macroinvertebrates) shall be recorded.
4. The annual report shall include a complete discussion of benthic infaunal survey results and (possible) influence of the outfall on benthic infauna communities in the study area. The discussion should be based on graphical, tabular, and/or appropriate statistical analyses of spatial and temporal patterns. Temporal trends in the number of individuals, number of species, number of individuals per species, and community structure indices, species richness (S), Margalef index (d), Shannon-Wiener index (H'), Brillouin index (h), Simpson's Index (SI), Swartz's dominance, and Infaunal Trophic Index (IT) shall be reported. The annual report should also present an analysis of natural community variation including the effects of different sediment conditions, oceanic seasons, and water temperatures, etc., that could influence the validity of study results. Survey results shall be compared to pre-discharge and/or historical data using appropriate statistical methods.

IX. OTHER MONITORING REQUIREMENTS

A. Biosolids Monitoring

1. The following information shall be submitted with the annual biosolids report. Adequate detail shall be included to characterize biosolids in accordance with 40 C.F.R. part 503.
 - a. Annual biosolids production in dry metric tons and percent solids.
 - b. A schematic drawing showing biosolids handling facilities (e.g., digesters, lagoons, drying beds, incinerators) and a solids flow diagram.
 - c. A narrative description of biosolids dewatering and other treatment processes, including process parameters. For example, if biosolids are digested, report average temperature and retention time of the digesters. If drying beds are used, report depth of application and drying time. If composting is used, report the temperature achieved and duration.
 - d. A description of disposal methods, including the following information as applicable related to the disposal methods used at the facility. If more than

one method is used, include the percentage and tonnage of annual biosolids production disposed by each method.

- i. For landfill disposal include:
 - a) The Central Coast Water Board WDR numbers that regulate the landfills used,
 - b) The present classifications of the landfills used, and
 - c) The names and locations of the facilities receiving biosolids.
 - ii. For land application include:
 - a) The location of the site(s),
 - b) The Central Coast Water Board's WDR numbers that regulate the site(s),
 - c) The application rate in lbs/acre/year (specify wet or dry), and
 - d) Subsequent uses of the land.
 - iii. For offsite application by a licensed hauler and composter include:
 - a) The name, address and U.S. EPA license number of the hauler and composter.
 - e. Copies of analytical data required by other agencies (i.e., U.S. EPA or County Health Department) and licensed disposal facilities (i.e., landfill, land application, or composting facility) for the previous year.
2. A representative sample of residual solids (biosolids) shall be obtained from the last point in the handling process (i.e., in the dumpster just prior to removal) and shall be analyzed for total concentrations for comparison with Total Threshold Limit Concentration (TTL) criteria. The Waste Extraction Test shall be performed on any constituent when the total concentration of the waste exceeds ten times the Soluble Threshold Limit Concentration (STLC) limit for that substance. Twelve (12) discrete representative samples shall be collected at separate locations in the biosolids ready for disposal. These 12 samples shall be composited to form one (1) sample for constituent analysis. For accumulated, previously untested biosolids, the Discharger shall develop a representative sampling plan including number and location of sampling points, and collect representative samples.

Table E-8. Biosolids Monitoring Requirements

Parameter	Units	Sample Type	Minimum Frequency of Sampling/Analysis
Quantity Removed	dry metric tons or yards ^[1]	Measured	During Removal
Location of Reuse/Disposal	site	--	During Removal
Moisture Content	percent	Grab	1/Year

Parameter	Units	Sample Type	Minimum Frequency of Sampling/Analysis
Total Kjeldahl Nitrogen	mg/kg	Grab	1/Year
Ammonia (as N)	mg/kg	Grab	1/Year
Nitrate (as N)	mg/kg	Grab	1/Year
Total Phosphorus	mg/kg	Grab	1/Year
pH	standard units	Grab	1/Year
Oil and Grease	mg/kg	Grab	1/Year
Arsenic	mg/kg	Grab	1/Year
Boron	mg/kg	Grab	1/Year
Cadmium	mg/kg	Grab	1/Year
Chromium (VI)	mg/kg	Grab	1/Year
Copper	mg/kg	Grab	1/Year
Lead	mg/kg	Grab	1/Year
Nickel	mg/kg	Grab	1/Year
Mercury	mg/kg	Grab	1/Year
Molybdenum	mg/kg	Grab	1/Year
Selenium	mg/kg	Grab	1/Year
Silver	mg/kg	Grab	1/Year
Zinc	mg/kg	Grab	1/Year
Priority Pollutants (excluding asbestos)	mg/kg	Grab	1/Year

^[1] Total sample (including solids and any liquid portion) to be analyzed and results reported as mg/kg based on the dry weight of the sample

B. Ocean Outfall and Diffuser Inspection

At least every three years (2023 and additional years if the Order is administratively extended), the Discharger shall visually inspect the entire outfall and diffuser structure (e.g., divers, dye study) to note its structural integrity and any cracks, breaks, leaks, plugged ports, or other actual or potential malfunctions. The inspection shall be completed under conditions of underwater visibility suitable to observe the outfall and diffuser structure. This inspection shall include general observations and video records of the outfall pipe/diffuser system and the surrounding ocean bottom in the vicinity of the outfall/diffuser. The inspection shall be conducted along the outfall pipe/diffuser system from landfall to its ocean terminus. A report detailing inspection results shall be submitted to the Central Coast Water Board and U.S. EPA as described in Table E-9.

C. Recycled Water Management Planning Progress Report

The Discharger shall submit an annual progress report [evaluating progress towards and completion status of milestones outlined in the Recycled Water Management Plan – Phase I \(Phase I Plan\) required by section VI.C.6.a of this Order. The](#)

~~Discharger shall detailing the Discharger's actions towards achieving compliance completing with the Recycled Water Management Plan – Phase II (Phase II Plan) requirements components outlined in section VI.C.6.b of this Order, including but not limited to, evaluation of progress towards and completion status of interim milestones; status of implementing the other plan components; and documentation² demonstrating compliance completion of tasks necessary to inform Phase II Plan components and completed components, such as but not limited to agreements with applicable parties, Requests for Proposals, Environmental Impact Reports, rate studies, funding securements, contract awards, and hearing agendas.~~

X. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

1. The Discharger shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.

B. Self-Monitoring Reports (SMRs)

1. The Discharger shall electronically submit SMRs using the State Water Board's California Integrated Water Quality System (CIWQS) Program website at: https://www.waterboards.ca.gov/water_issues/programs/ciwqs/. The CIWQS website will provide additional information for SMR submittal in the event there will be a planned service interruption for electronic submittal.
2. The Discharger shall report in the SMR the results for all monitoring specified in this MRP under sections III through IX. The Discharger shall submit SMRs including the results of all required monitoring using U.S. EPA-approved test methods or other test methods specified in this Order. SMRs are to include all new monitoring results obtained since the last SMR was submitted. If the Discharger monitors any pollutant more frequently than required by this Order, the results of this monitoring shall be included in the calculations and reporting of the data submitted in the SMR.
3. Sampling and monitoring as required by this MRP shall begin on the effective date of this Order. The Discharger shall complete all required monitoring and reporting according to the schedule shown in Table E-9 unless otherwise directed by the Central Coast Executive Officer. The Discharger shall also ensure it submits any other reports, not included in this table, required by this Order. Table E-9 does not include reports triggered by situational occurrences.

² Where such materials are publicly available via the Discharger's website, the Discharger's annual progress report may instead provide web links if approved by Central Coast Water Board staff.

Table E-9. Monitoring Periods and Reporting Schedule

SMR Name	Permit Section for Monitoring & Sampling Data Included in this Report	SMR Submittal Frequencies	SMR Due Date
TRE Workplan	Order Section VI.C.2.c	Once per permit	September 29, 2021 <u>March 1, 2021</u>
NPDES Monitoring Report – Monthly	MRP Sections III (Influent) and IV (Effluent)	Monthly	First day of second month following sampling (first report due October <u>February</u> 1, 2020)
PMP Annual Status Report	Order Section VI.C.3.a	Annually	February 1 st , the year following sampling that a PMP is first required, if a PMP is triggered
NPDES Monitoring Report – Annual	MRP Sections IV (Effluent), V (WET) and VIII (Receiving Water)	Annually	February 1 st , the year following sampling
Facility Summary Report	Attachment D, Standard Provisions VIII.D.8	Annually	February 1 st , the year following sampling
Recycled Water Monitoring Report	MRP Section VII.A (Recycled Water)	Annually	February 1 st , the year following sampling
Recycled Water Volumetric Monitoring	MRP Section VII.B (Volumetric Reporting of Wastewater and Recycled Water)	Annually	April 30 th , the year following sampling Note: This report is submitted using the GeoTracker system, not CIWQS
Biosolids Monitoring Report	MRP Section IX (Biosolids)	Annually	February 1 st , the year following sampling
Recycled Water Management Plan Progress Report	MRP Section IX (Recycled Water Management Plan Progress Report)	Annually	February 1 st , starting the year after the submittal of the Recycled Water Management Plan
Ocean Outfall and Diffuser Inspection Technical Report	MRP Section IX (Ocean Outfall and Diffuser Inspection)	Once every three years	February 1 st , the year following sampling (first report due February 1, 2024)

SMR Name	Permit Section for Monitoring & Sampling Data Included in this Report	SMR Submittal Frequencies	SMR Due Date
Recycled Water Management Plan – Phase I	Order Section VI.C.6.a	Once	Within 1 year of commencing facility operation of the ocean outfall .
Recycled Water Management Plan – Phase II	Order Section VI.C.6.b	Once	June 3, 2025
Benthic Sediment Monitoring	MRP Section VIII.C (Benthic)	Once per permit	January 1 June 3, 2025
Climate Change Response Hazards and Vulnerabilities Plan	Order Section VI.C.7.b	Once	January 1 June 3, 2025
ROWD Application	Permit Renewal Application	Once per permit	January 1 June 3, 2025

4. Reporting Protocols. The Discharger shall report with each sample result the applicable reported Minimum Level (reported ML, also known as the Reporting Level, or RL) and the current Method Detection Limit (MDL), as determined by the procedure in 40 C.F.R. part 136.

The Discharger shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols:

- a. Sample results greater than or equal to the reported ML shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).
- b. Sample results less than the reported ML, but greater than or equal to the laboratory’s MDL, shall be reported as “Detected, but Not Quantified,” or DNQ. The estimated chemical concentration of the sample shall also be reported.

For the purposes of data collection, the laboratory shall write the estimated chemical concentration next to DNQ. The laboratory may, if such information is available, include numerical estimates of the data quality for the reported result. Numerical estimates of data quality may be percent accuracy (\pm a percentage of the reported value), numerical ranges (low to high), or any other means considered appropriate by the laboratory.

- c. Sample results less than the laboratory’s MDL shall be reported as “Not Detected,” or ND.

- d. Dischargers are to instruct laboratories to establish calibration standards so that the ML value (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time is the Discharger to use analytical data derived from extrapolation beyond the lowest point of the calibration curve.
5. Compliance Determination. Compliance with effluent limitations for reportable pollutants shall be determined using sample reporting protocols defined above and Attachment A of this Order. For purposes of reporting and administrative enforcement by the Central Coast Water Board and State Water Board, the Discharger shall be deemed out of compliance with effluent limitations if the concentration of the reportable pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reported ML.
6. Multiple Sample Data. When determining compliance with a measure of central tendency (arithmetic mean, geometric mean, median, etc.) of multiple sample analyses and the data set contains one or more reported determinations of "Detected, but Not Quantified" (DNQ) or "Not Detected" (ND), the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:
 - a. The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
 - b. The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.
7. The Discharger shall submit SMRs in accordance with the following requirements:
 - a. The Discharger shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the facility is operating in compliance with interim and/or final effluent limitations. The Discharger is not required to duplicate the submittal of data that is entered in a tabular format within CIWQS. When electronic submittal of data is required and CIWQS does not provide for entry into a tabular format within the system, the Discharger shall electronically submit the data in a tabular format as an attachment.
 - b. The Discharger shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations of the waste discharge requirements; discuss corrective actions taken or planned; and the proposed time schedule for corrective actions. Identified violations must include a description of the requirement that was violated and a description of the violation.

C. Discharge Monitoring Reports (DMRs)

1. DMRs are U.S. EPA reporting requirements. The Discharger shall electronically certify and submit DMRs together with SMRs using Electronic Self-Monitoring Reports module eSMR 2.5 or any upgraded version. Electronic DMR submittal shall be in addition to electronic SMR submittal. Information about electronic DMR submittal is available at the DMR website at:
https://www.waterboards.ca.gov/water_issues/programs/discharge_monitoring/.

D. Other Reports

1. With the Report of Waste Discharge submitted for reissuance of this Order, the Discharger shall submit a Climate Change Response Hazards and Vulnerabilities Plan.
2. The Discharger shall report the results of any special studies, chronic toxicity testing, TRE/TIE, or PMP required by Special Provisions, section VI.C of the Order. The Discharger shall submit reports with the first monthly SMR scheduled to be submitted on or immediately following the report due date.

Attachment F – Fact Sheet

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ATTACHMENT F – FACT SHEET

As described in section II.B of this Order, the Central Coast Water Board incorporates this Fact Sheet as findings of the Central Coast Water Board supporting the issuance of this Order. This Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this Order.

This Order has been prepared under a standardized format to accommodate a broad range of discharge requirements for Dischargers in California. Only those sections or subsections of this Order that are specifically identified as “not applicable” have been determined not to apply to this Discharger. Sections or subsections of this Order not specifically identified as “not applicable” are fully applicable to this Discharger.

I. PERMIT INFORMATION

The following table summarizes administrative information related to the facility.

Table F-1. Facility Information

WDID	3 401019759
Discharger	Cayucos Sanitary District
Name of Facility	Cayucos Sanitary District Water Resource Recovery Facility
Facility Address	800 Toro Creek Road
	Morro Bay, CA 93443
	San Luis Obispo County
Facility Contact, Title and Phone	Rick Koon, District Manager, (805) 995-3290
Authorized Person to Sign and Submit Reports	Same as facility contact
Mailing Address	P.O. Box 333, Cayucos, CA 93430
Billing Address	Same as mailing address
Type of Facility	POTW
Major or Minor Facility	Minor
Threat to Water Quality	2
Complexity	B
Pretreatment Program	No
Recycling Requirements	Yes
Facility Permitted Flow	0.34 MGD
Facility Design Flow	0.34 MGD
Watershed	Estero Bay
Receiving Water	Pacific Ocean
Receiving Water Type	Ocean waters

- A. The Cayucos Sanitary District (hereinafter Discharger) is the owner and will be the operator of the Cayucos Sanitary District Water Resource Recovery Facility (hereinafter Facility), a POTW that is currently under construction.

For the purposes of this Order, references to the “discharger” or “permittee” in applicable federal and state laws, regulations, plans, or policy are held to be equivalent to references to the Discharger herein.

- B. The Facility will discharge wastewater to the Pacific Ocean, a water of the United States. The Discharger was previously regulated by a National Pollutant Discharge Elimination System (NPDES) Permit for a shared facility with the City of Morro Bay under Order No. R3-2017-0050, NPDES No. CA0047881. Attachment B provides a map of the area around the Facility. Attachment C provides a flow schematic of the Facility.
- C. The Discharger filed a report of waste discharge and submitted an application for issuance of its waste discharge requirements (WDRs) and NPDES permit on May 3, 2018.
- D. Regulations at [Title 40 of the Code of Federal Regulations \(40 C.F.R.\)](#) section 122.46 limit the duration of NPDES permits to a fixed term not to exceed five years. Accordingly, Table 3 of this Order limits the duration of the discharge authorization. However, pursuant to [the](#) California Code of Regulations (CCR), Title 23, section 2235.4, the terms and conditions of an expired permit are automatically continued pending reissuance of the permit if the Discharger complies with all federal NPDES requirements for continuation of expired permits.

II. FACILITY DESCRIPTION

The Cayucos Sanitary District currently discharges to the existing Morro Bay/Cayucos Wastewater Treatment Plant (WWTP) under Order No. R3-2017-0050, NPDES No. CA0047881. The Central Coast Water Board issued Time Schedule Order No. R3-2018-0019 to the Cayucos Sanitary District and the City of Morro Bay requiring compliance with Order No. R3-2017-0050, NPDES No. CA0047881. Within the ~~streamlined~~ schedule necessitated by Time Schedule Order No. R3-2018-0019, the Cayucos Sanitary District is constructing the Facility as part of the Cayucos Sustainable Water Project (CSWP), a phased, multi-year project designed to deliver a sustainable water resource recovery system to the community of Cayucos. Wastewater from the Cayucos Sanitary District will continue to be treated at and discharged from the existing Morro Bay/Cayucos WWTP under Order No. R3-2017-0050, NPDES No. CA0047881 until the constructed Facility is fully operational.

When the Facility is operational, wastewater from the Cayucos Sanitary District that is currently treated and discharged at the Morro Bay/Cayucos WWTP will be treated at and discharged from the Cayucos Sanitary District Water Resource Recovery Facility. Treated effluent from the Cayucos Sanitary District Water Resource Recovery Facility will initially [be discharged](#) to the Pacific Ocean, at a location less than two kilometers north of the existing Morro Bay/Cayucos WWTP discharge location, until the Discharger implements a long-term beneficial reuse strategy. To implement the first phase of the project, the

Cayucos Sanitary District is constructing the Facility at a site in the Toro Creek valley approximately 0.75 miles inland from State Route 1 ~~in Cayucos~~ north of Morro Bay. The Facility will have an average annual daily design flow of 0.34 million gallons per day (MGD) and discharge secondary and tertiary treated wastewater production water to the Pacific Ocean. The Discharger plans to initiate Facility operations by September 2020 and expects the Facility to be fully operational by December 2020.

A. Description of Wastewater and Biosolids Treatment and Controls

The Discharger owns and will operate the Facility that will provide sewerage service to the Cayucos Sanitary District. The Cayucos Sanitary District is located within the unincorporated community of Cayucos and serves a population of approximately 2,904 people. Construction of the Facility is part of the CSWP, a multi-year project to provide Cayucos with efficient, reliable and adaptable wastewater treatment, while producing a high-quality water supply to benefit the community. The CSWP includes infrastructure, pipelines and appurtenances for influent, effluent, recycled water, and processed discharge water consisting of ~~two multiple~~ phases. ~~The first p~~Phase 1 includes construction of the Facility, related conveyance pipelines, and ocean outfall/diffuser; production of tertiary treated water for onsite uses including irrigation, fire protection, and process water; and discharge of effluent to the constructed ocean outfall. In the following planning and assessment documents, the Discharger assessed beneficial reuse alternatives and associated additional treatment needs for the treated effluent from the Facility for implementation in subsequent project phases: 1) June 23, 2017 CSWP Recycled Water Facilities Planning Study and 2) April 20, 2017 final Environmental Impact Report (EIR) for the CSWP. ~~Phase 2 includes the assessment and implementation of additional treatment, if deemed necessary to achieve the long-term reuse strategy, and infrastructure to support long-term beneficial reuse of recycled water produced at the Facility. The Cayucos Sanitary District is assessing multiple options, including the following: the construction of a conveyance pipeline for recycled water to Whale Rock Reservoir for reservoir augmentation or to the County Service Area (CSA) 10 Surface Water Treatment Facility for production of direct potable recycled water; and agricultural reuse.~~

The Facility wastewater treatment process will be composed of headworks screening and grit removal facilities, a membrane bioreactor with submerged hollow-fiber membranes, solids dewatering screw press, and ultraviolet (UV) disinfection. The process is designed to treat the Cayucos Sanitary District's buildout average annual daily flow of 0.34 ~~million gallons per day (MGD)~~, with bypass piping capable of conveying peak wet weather flows to two equalization basins. All flows in the equalization basins will be routed back through the wastewater treatment process, starting at the beginning of the headworks.

Raw wastewater will be conveyed from Cayucos Sanitary District's terminal lift station (Lift Station 5) to the headworks facilities, which will include two parallel coarse screens, followed by a single vortex grit removal unit and two parallel fine screens. Screenings and grit from the headworks facilities will be hauled off-site for disposal. Screened wastewater will flow into the membrane bioreactor, which will be configured as two parallel activated sludge treatment trains, each consisting of pre-anoxic, aerobic, and post-anoxic basins in-series. Downstream of the post-anoxic basins, flow

will combine in a membrane feed channel that will convey mixed liquor to three parallel membrane tanks, each equipped with submerged hollow-fiber membrane modules. Permeate from the membranes will be pumped downstream for UV disinfection, prior to disposal of treated effluent through the outfall or distribution for recycled water use offsite and to the onsite Recycled Water storage tank for Facility on-site reuse applications including supply water for treatment processes, on-site landscape irrigation, and fire protection. [The Facility is designed to treat wastewater to disinfected tertiary recycled water standards, as defined by title 22 section 60301.230.](#)

~~The Discharger will only be chlorinating the recycled water to maintain a residual in the recycled water storage tank. The Discharger will not be chlorinating the effluent being discharged at Discharger Point No. 001. Sodium hypochlorite will be injected downstream of the UV disinfection units to provide a chlorine residual in the effluent pipeline and recycled water storage tank, followed by a dose of sodium bisulfite for dechlorination at the terminus of the effluent pipeline, upstream of the outfall.~~ Treated effluent that does not meet effluent discharge standards can be manually diverted to the equalization basins downstream of the UV disinfection unit.

Waste activated sludge solids will be wasted from the membrane tanks to a dewatering screw press for dewatering of solids prior to being hauled off-site for further processing and reuse as compost, and/or disposal. [Initially, the Discharger plans to contract with Mission County Disposal to transport its biosolids for land application at Cold Canyon Landfill.](#)

B. Discharge Points and Receiving Waters

The Facility will discharge secondary and tertiary treated wastewater to the Pacific Ocean through an ocean outfall (Discharge Point No. 001) at 35° 24' 44.10" N. latitude and 120° 53' 10.02" W. longitude. The outfall involves the reuse of the decommissioned Load-Line 2 (LL2) pipeline previously used by the Chevron Estero Marine Shore Terminal for conveyance of treated ballast water. The outfall pipeline has a 22-inch diameter onshore and 20-inch diameter offshore. The outfall has a 200-foot diffuser system that is equipped with 50 ports on alternate sides and duckbill check valves. The outfall is located approximately 3,000 feet from shore at a depth of approximately 50 feet. Using the [U.S.](#) EPA certified mixing model, CORMIX v11, the diffuser is modeled to achieve a minimum initial dilution of 385.3 to 1.¹ The zone of initial dilution will be approximately 166 feet wide and 369 feet long.

C. Summary of Existing Requirements and Self-Monitoring Report (SMR) Data – Not Applicable

D. Compliance Summary – Not Applicable

E. Planned Changes

As discussed in section II.A. of this Fact Sheet, the Discharger is currently constructing the first phase of the Cayucos Sustainable Water Project, which includes

¹ Hydrodynamic Analysis of a Diffuser Retrofit to the Estero Marine Terminal Pipeline for the Cayucos Sustainable Water Project (CSWP), Michael Baker International, July 24, 2018.

construction of the Facility. ~~The first p~~Phase 4 of the project includes completion of the Facility, related conveyance pipes, and the ocean outfall with diffuser. The Discharger estimates the Facility will commence operation in December 2020. ~~For subsequent phases, the Discharger is assessing Phase 2 includes the assessment and~~ implementation of additional treatment, if deemed necessary to achieve the long-term reuse strategy, and infrastructure to support long-term beneficial reuse of recycled water produced at the Facility. The ~~Cayucos Sanitary District~~Discharger is assessing multiple options, including the following: the construction of a conveyance pipeline for recycled water to Whale Rock Reservoir for reservoir augmentation or to the County Service Area (CSA) 10 Surface Water Treatment Facility for production of direct potable recycled water; and agricultural reuse.

III. APPLICABLE PLANS, POLICIES, AND REGULATIONS

The requirements contained in this Order are based on the requirements and authorities described in this section.

A. Legal Authorities

This Order serves as WDRs pursuant to article 4, chapter 4, division 7 of the California Water Code (commencing with section 13260). This Order is also issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the [U.S. Environmental Protection Agency \(-U.S. EPA\)](#) and chapter 5.5, division 7 of the [California](#) Water Code (commencing with section 13370). It shall serve as an NPDES permit for point source discharges from the Facility to surface waters.

B. California Environmental Quality Act (CEQA)

Under [California](#) Water Code section 13389, this action to adopt an NPDES permit for the discharge of waste to surface waters is exempt from the CEQA provisions in Public Resources Code, Division 13, Chapter 3.

This action to adopt new recycling requirements for the Facility to produce disinfected tertiary recycled wastewater is not exempt from the provisions of CEQA. The Discharger certified a final [Environmental Impact Report \(EIR\)](#) for the Cayucos Sustainable Water Project on April 20, 2017, pursuant to the provisions of CEQA. The Central Coast Water Board, as a responsible agency under CEQA, has reviewed and considered the EIR and makes its own conclusions on whether and how to approve the recycling requirements for the Facility. The EIR identified potentially significant environmental effects from construction-stage erosion and sedimentation until the proposed containment basin is functioning and captures site stormwater runoff. To mitigate these impacts, the Discharger is required to enroll in the NPDES General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities, if applicable.

C. State and Federal Laws, Regulations, Policies, and Plans

1. **Water Quality Control Plan.** The Central Coast Water Board adopted the *Water Quality Control Plan for the Central Coastal Basin* (hereinafter Basin Plan), the most recent version released in June 2019, that designates beneficial uses, establishes water quality objectives (WQOs), and contains implementation

programs and policies to achieve those objectives the receiving waters addressed within the Region. To address ocean waters, the Basin Plan incorporates by reference the *Water Quality Control Plan for Ocean Waters of California* (Ocean Plan). The Ocean Plan is discussed in further detail in section III.C.2 of this Fact Sheet.

The Basin Plan implements State Water Board Resolution No. 88-63, which establishes State policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply (MUN). Because of very high levels of total dissolved solids (TDS) in the Pacific Ocean, the receiving waters for discharges from the Facility meet an exception to Resolution No. 88-63, which precludes waters with TDS levels greater than 3,000 mg/L from the MUN designation. Beneficial uses established by the Basin Plan for the Pacific Ocean are presented below.

Table F-2. Basin Plan Beneficial Uses

Discharge Point	Receiving Water Name	Beneficial Use(s)
001	Pacific Ocean (Estero Bay)	Water Contact (REC-1) Non-Contact Recreation (REC-2) Industrial Supply (IND) Navigation (NAV) Marine Habitat (MAR) Shellfish Harvesting (SHELL) Commercial and Sport Fishing (COMM) Rare, Threatened, or Endangered Species (RARE) Wildlife Habitat (WILD)

Requirements in this Order implement the Basin Plan.

- 2. Thermal Plan.** The State Water Board adopted the *Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuaries of California* (Thermal Plan) on January 7, 1971, and amended this plan on September 18, 1975. This plan contains the following temperature objective for existing discharges to enclosed bays and coastal waters of California which is applicable to this Discharger.

Elevated temperature waste discharges shall comply with limitations necessary to assure protection of beneficial uses.

The Ocean Plan defines elevated temperature wastes as:

Liquid, solid, or gaseous material discharged at a temperature higher than the natural temperature of receiving water.

Requirements of this Order implement the Thermal Plan.

3. **California Ocean Plan.** The State Water Board adopted the *Water Quality Control Plan for Ocean Waters of California, California Ocean Plan* (Ocean Plan) in 1972 and amended it in 1978, 1983, 1988, 1990, 1997, 2000, 2005, 2009, 2012, 2015, and 2018. The State Water Board adopted the latest amendment on August 7, 2018, and it became effective on February 4, 2019. The Ocean Plan is applicable, in its entirety, to point source discharges to the ocean. The Ocean Plan identifies beneficial uses of ocean waters of the state to be protected as summarized below:

Table F-3. Ocean Plan Beneficial Uses

Discharge Point	Receiving Water	Beneficial Uses
001	Pacific Ocean	Industrial water supply; water contact and non-contact recreation, including aesthetic enjoyment; navigation; commercial and sport fishing; mariculture; preservation and enhancement of designated Areas of Special Biological Significance (ASBS); rare and endangered species; marine habitat; fish spawning and shellfish harvesting

In order to protect the beneficial uses, the Ocean Plan establishes water quality objectives and a program of implementation. Requirements of this Order implement the Ocean Plan.

4. **Antidegradation Policy.** Federal regulations at 40 C.F.R. section 131.12 require that state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California’s antidegradation policy in State Water Board Resolution No. 68-16 (“Statement of Policy with Respect to Maintaining High Quality of Waters in California”). Resolution No. 68-16 is deemed to incorporate the federal antidegradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires that existing water quality be maintained unless degradation is justified by specific findings. The Central Coast Water Board’s Basin Plan implements, and incorporates by reference, both the state and federal antidegradation policies. The permitted discharge must be consistent with the antidegradation provision of 40 C.F.R. section 131.12 and State Water Board Resolution No. 68-16.

~~Based on available data, t~~The Pacific Ocean at ~~the location of the discharge~~ [Discharge Point 001](#) is a high-quality water with regard to some pollutants. The baseline is the best water quality existing since 1968, the year in which State Water Board Resolution No. 68-16 was promulgated.

When the Facility is operational, wastewater from the Cayucos Sanitary District that is currently treated at and discharged from the Morro Bay/Cayucos WWTP will be treated at and discharged from the Facility. Pursuant to 40 C.F.R. section 122.2, the Facility is a new discharger, but because [the wastewater that](#) the Facility will treat and discharge [is](#) the same Cayucos Sanitary District wastewater

already discharged by the Morro Bay/Cayucos WWTP, an increase in the volume or concentration of waste and discharge into existing high quality waters is not expected. This Order further requires the Discharger to prepare implementation of a Recycled Water Management Plan to assess and identify beneficial reuses of the Facility's treated effluent to that decreases the discharge of treated effluent to the ocean and increases beneficial reuse. Finally, the level of treatment at the Facility is higher than the wastewater treatment at the Morro Bay/Cayucos WWTP. To the extent that the proposed discharges from Discharge Point 001 result in discharge produces an increased volume or concentration of waste and discharge to existing high quality ocean waters, the change will be consistent with the maximum benefit for the people of the state, will not unreasonably affect present and anticipated beneficial uses, and will not result in water quality less than that prescribed in the Basin Plan.

Pursuant to State Water Board Resolution No. 68-16, compliance with this Order will result in the best practicable treatment or control to manage this discharge. Federal legislative history for the 1972 amendments to the Clean Water Act establishing control standards for industrial categories indicates that Congress anticipated that technologies would be more affordable for new dischargers that could plan control technologies at the design phase. Although this Order regulates a publicly owned treatment works, this reasoning can be applied to the Discharger because it designed and constructed a new facility, providing more opportunity to plan technologies to produce recycled water for reuse. Effective technologies are being deployed worldwide to reuse water for a wide spectrum of potable and non-potable purposes. The changing climate with increasing and more intense drought conditions is profoundly impacting our natural environment and hydrologically dependent water supplies. With the state of technology today, and environmental conditions which necessitate the reuse of treated wastewater, best practicable treatment or control means recycling treated wastewater where feasible.

Additionally, pursuant to State Water Board Resolution No. 68-16, this Order results in e-Discharger is required to provide the best practicable treatment or control of the discharge necessary to ensure the highest water quality consistent with maximum benefit to the people of the State will be maintained. Any decrease in the amount of waste discharged at Discharge Point 001 as a result of reuse will correspondingly decrease the degradation to high quality ocean waters. Recycling wastewater,² as opposed to disposing of this valuable resource to ocean waters, is critical to providing the highest water quality consistent with the maximum benefit to and to promote the health and welfare of the people of the state. This Order requires the Discharger prepare a the -Recycled Water Management Plan - Phase II (Phase II Plan) to describe in detail how the Discharger will maximize the amount of treated effluent used for beneficial reuse.

² Recycled water is a water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and therefore considered a valuable resource (California Water Code section 13050(n)).

~~with the goal of achieving maximum beneficial reuse that must propose how the Discharger will achieve beneficial reuse of 100 percent of treated effluent in accordance with approved timeframes.~~

5. **Anti-Backsliding Requirements.** Sections 402(o) and 303(d)(4) of the CWA and federal regulations at 40 C.F.R. section 122.44(l) restrict backsliding in NPDES permits. These anti-backsliding provisions require that effluent limitations in a reissued permit must be as stringent as those in the previous permit, with some exceptions in which limitations may be relaxed. Because this Order is not a reissued NPDES permit, the anti-backsliding requirements are not applicable.
6. **Endangered Species Act Requirements.** This Order does not authorize any act that results in the taking of a threatened or endangered species or any act that is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish and Game Code, sections 2050 to 2097) or the Federal Endangered Species Act (16 [United States Code](#) (U.S.C.) sections 1531 to 1544). This Order requires compliance with effluent limits, receiving water limits, and other requirements to protect the beneficial uses of waters of the state, including protecting rare, threatened, and endangered species. The Discharger is responsible for meeting all requirements of the applicable Endangered Species Act.
7. **Sewage Sludge and Biosolids.** This Order does not authorize any act that results in violation of requirements administered by U.S. EPA to implement 40 C.F.R. part 503, Standards for the Use or Disposal of Sewage Sludge. These standards regulate the final use or disposal of sewage sludge that is generated during the treatment of domestic sewage in a municipal wastewater treatment facility. The Discharger is responsible for meeting all applicable requirements of 40 C.F.R. part 503 that are under U.S. EPA's enforcement authority.
8. **California Water Code section 13267 Requirements for Recycled Water.** ~~California Water Code section 13267 authorizes the technical and monitoring reports for recycled water in this Order recycled water management plan requirements in Section VI.C.6 of this Order are required in accordance with Water Code section 13267, which California Water Code section 13267(a) states that "[a] regional board, in establishing or reviewing any . . . waste discharge requirements . . . may investigate the quality of any waters of the state within its region." states the following in s~~ Subsection (b)(1) ~~states in relevant part,~~ "In conducting an investigation specified in subdivision (a), the regional board may require that any person ~~. . . who has discharged, discharges, or is suspected of having discharged discharging, or~~ who proposes to discharge waste within its region ~~. . ., or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region could affect the quality of waters within its region~~ shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. ~~In requiring those reports, the regional board shall provide the person with a written~~

~~explanation with regard to the need for the reports and shall identify the evidence that supports requiring that person to provide the reports.”~~

The Discharger owns the Facility subject to this Order and is proposing to discharge waste to the Pacific Ocean, a high-quality water of the State. Although the discharge is permissible, it will still likely result in limited degradation to the high-quality water, particularly within the zone of initial dilution. Pursuant to California Water Code section 13267 and based on the Discharger’s representation that it ultimately seeks to maximize reuse of the treated effluent produced by the Facility, this Order requires the Discharger to prepare and submit recycled water management plans evaluating the options for beneficial reuse of treated effluent from the Facility, feasibility of those options, and next steps for pursuing identified beneficial reuses. The Central Coast Water Board anticipates that reductions in ocean discharges, through implementing beneficial reuse projects, will reduce the water quality impacts of waste discharge from the Facility within the zone of initial dilution in the Pacific Ocean. The preparation of such plans will also further the development of alternative water supplies to increase water supply resiliency.

~~The recycled water monitoring and reporting requirements are necessary to determine compliance with this Order. The burden, including and cost, of preparing the reports recycled water management plans is bears a reasonable relationship to the need for the recycled water management plans and benefits to be obtained from them. The costs for preparing such plans that assess options and feasibility of implementing recycling projects varies greatly depending on plan complexity. Central Coast municipalities with similar service areas to the Discharger, have prepared recycled water management plans assessing beneficial reuse opportunities and recycled water project feasibility, ranging in plan preparation cost of \$28,000 to \$330,000. The Central Coast Water Board anticipates the Discharger’s Recycled Water Management Plan – Phase II will be of moderate complexity relative to the plans assessed to inform this cost range. Additionally, the plan scope influences opportunities for funding support from the State Water Board and other entities. consistent with the interest of the state in maintaining water quality and developing alternative water supplies to increase water resiliency.~~ Additional discussion of the rationale for the recycled water management plans is provided in section VI.B.6 of this Fact Sheet.

D. Impaired Waterbodies on the CWA section 303(d) List

CWA section 303(d) requires states to identify specific waterbodies where water quality standards are not expected to be met after implementation of technology-based effluent limitations on point sources. For all 303(d) listed waterbodies and pollutants, the Central Coast Water Board must develop and implement Total Maximum Daily Loads (TMDLs) that will specify Wwaste Lload Aallocations (WLAs) for point sources and Lload Aallocations (LAs) for non-point sources.

The U.S. EPA approved the State’s 2014/2016 303(d) list of impaired waterbodies on April 6, 2018. The 2014/2016 303(d) list identifies receiving waters in the vicinity of the discharge – Toro Creek, Morro Creek, and the Pacific Ocean – as impaired for

various pollutants. Toro Creek is listed as impaired for fecal coliform. Morro Creek is listed as impaired for fecal coliform. The Pacific Ocean at Morro Bay City Beach (Atascadero Road) is listed as impaired for enterococcus, fecal coliform, and total coliform. The Pacific Ocean at Morro Bay City Beach (Morro Creek Mouth) is listed as impaired for enterococcus, fecal coliform, and total coliform. The Pacific Ocean at Morro Bay City Beach (Morro Rock) is listed as impaired for enterococcus, fecal coliform, and total coliform. The Pacific Ocean at Morro Strand State Beach (Driftwood Ave) is listed as impaired for enterococcus, fecal coliform, and total coliform.

E. Other Plans, Policies and Regulations

- 1. Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (State Water Board Order No. 2006-0003-DWQ).** Water Quality Order 2006-0003-DWQ, adopted on May 2, 2006, is applicable to all "federal and state agencies, municipalities, counties, districts, and other public entities that own or operate sanitary sewer systems greater than one mile in length that collect and/or convey untreated or partially treated wastewater to a publicly owned treatment facility in the State of California." The purpose of Water Quality Order 2006-0003-DWQ is to promote the proper and efficient management, operation, and maintenance of sanitary sewer systems and to minimize the occurrences and impacts of sanitary sewer overflows. The Discharger is enrolled in Water Quality Order 2006-0003-DWQ and must comply with its requirements and any requirements in reissuances to Water Quality Order 2006-0003-DWQ.
- 2. State Water Board Recycled Water Policy.** The Water Quality Control Policy for Recycled Water (Recycled Water Policy) was approved by the State Water Board on December 11, 2018, and became effective on April 8, 2019. The purpose of the Recycled Water Policy is to encourage the safe use of recycled water in a manner that is protective of public health and the environment. This Order implements the Recycled Water Policy by requiring [recycled water management planning for maximizing beneficial reuse of the Facility's treated effluent](#) ~~the development and implementation of a Recycled Water Management Plan~~ and volumetric reporting of wastewater and recycled water to the State Water Board.
- 3. Statewide General Water Reclamation Requirements for Recycled Water Use (State Water Board Order No. WQ 2016-0068-DDW).** Water Quality Order WQ 2016-0068-DDW, adopted on June 7, 2016, is applicable to recycled water projects where recycled water is used or transported for non-potable uses. The distribution and offsite reuse of recycled water produced by the Facility is subject to State Water Board Order No. WQ 2016-0068-DDW, or other applicable permit, dependent on final use.

IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

The CWA requires point source dischargers to control conventional, non-conventional, and toxic pollutants that are discharged into the waters of the United States. The control of pollutants discharged is established through effluent limitations and other requirements in NPDES permits. There are two principal bases for effluent limitations in the Code of Federal Regulations: 40 C.F.R. section 122.44(a) requires that permits include applicable

technology-based limitations and standards; and 40 C.F.R. section 122.44(d) requires that permits include water quality-based effluent limitations to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water.

A. Discharge Prohibitions

1. **Discharge Prohibition III.A.** (Discharge to the Pacific Ocean at a location other than as described in this Order is prohibited). This Order authorizes a single, specific point of discharge to the Pacific Ocean. This prohibition is based on 40 C.F.R. section 122.21(a), duty to apply, and [CWC-California Water Code](#) section 13260, which requires filing a Report of Waste Discharge (ROWD) before discharges can occur.
2. **Discharge Prohibition III.B.** (Discharges in a manner, except as described by the Order, are prohibited). Because limitations and conditions of the Order have been prepared based on specific information provided by the Discharger and specific wastes described by the Discharger, the limitations and conditions of the Order do not adequately address waste streams not contemplated during drafting of the Order. To prevent the discharge of such waste streams that may be inadequately regulated, the Order prohibits the discharge of any waste that was not described by to the Central Coast Water Board during the process of permit issuance.
3. **Discharge Prohibition III.C.** ([At Discharge Point No. 001, t](#)~~The average annual daily effluent flow rate of discharge from the wastewater treatment facility shall not exceed 0.34 MGD and the maximum daily effluent flow shall not exceed 1.2 MGD.~~) This prohibition reflects the design treatment capacity of the Facility [that the Discharger provided in its application for an NPDES permit](#) and ensures that the influent flow will not exceed the Facility's hydraulic and treatment capacity. [Exceeding this flow could result in greater potential to violate water quality requirements.](#) This prohibition is based on 40 C.F.R. section 122.21(ja), [requiring the applicant to provide the facility's design flow rate. This Order establishes the average annual daily effluent flow, at Discharge Point No. 001, shall not exceed 0.34 MGD, derived from the facility design informed by the Cayucos Sanitary District's buildout. This Order establishes the maximum daily effluent flow, at Discharge Point No. 001, shall not exceed 1.2 MGD, derived from the maximum daily flow accounted for in the outfall diffuser design at Discharge Point No. 001. This prohibition is also based on information provided by the Discharger pursuant to, and California Water Code section 13260, which requires requiring filing of a Report of Waste Discharge before discharges can occur. This prohibition was established to ensure the Facility operating conditions remain consistent with the operations specified in the application and which were considered during Order development and evaluation of impacts to the receiving water.](#)
4. **Discharge Prohibition III.D.** (The discharge of any radiological, chemical, or biological warfare agent or high-level radioactive waste to the Ocean is prohibited.) This prohibition restates a discharge prohibition established in chapter III.I.1 of the Ocean Plan.

5. **Discharge Prohibition III.E.** (Pipeline discharge of sludge to the Ocean is prohibited by federal law. The discharge of municipal or industrial waste sludge directly to the Ocean, or into a waste stream that discharges to the Ocean, is prohibited by the California Ocean Plan (Ocean Plan). The discharge of sludge digester supernatant directly to the Ocean or to a waste stream that discharges to the Ocean without further treatment is prohibited). This prohibition restates a discharge prohibition established in chapter III.I.3 of the Ocean Plan.
6. **Discharge Prohibition III.F.** (The overflow or bypass of wastewater from the Discharger's collection, treatment, or disposal facilities and the subsequent discharge of untreated or partially treated wastewater, except as provided for in Attachment D, Standard Provision I.G (Bypass), is prohibited.) The discharge of untreated or partially treated wastewater from the Discharger's collection, treatment, or disposal facilities represents an unauthorized bypass pursuant to 40 C.F.R. section 122.41 (m) or an unauthorized discharge, which poses a threat to human health and/or aquatic life, and therefore, is explicitly prohibited by the Order.
7. **Discharge Prohibition III.G.** (Materials and substances that are prohibited). This prohibition is based on the requirements of chapter III.A.2.b of the Ocean Plan.

B. Technology-Based Effluent Limitations

1. Scope and Authority

Section 301(b) of the CWA and implementing U.S. EPA permit regulations at 40 C.F.R. section 122.44 require that permits include conditions meeting applicable technology-based requirements at a minimum, and any more stringent effluent limitations necessary to meet applicable water quality standards. The discharge authorized by this Order must meet minimum federal technology-based requirements based on Secondary Treatment Standards at 40 C.F.R. part 133.

Regulations promulgated in 40 C.F.R. section 125.3(a)(1) require technology-based effluent limitations for municipal Dischargers to be placed in NPDES permits based on Secondary Treatment Standards or Equivalent to Secondary Treatment Standards.

The Federal Water Pollution Control Act Amendments of 1972 (PL 92-500) established the minimum performance requirements for POTWs [defined in section 304(d)(1)]. Section 301(b)(1)(B) of that Act requires that such treatment works must, as a minimum, meet effluent limitations based on secondary treatment as defined by the U.S. EPA Administrator.

Based on this statutory requirement, U.S. EPA developed secondary treatment regulations, which are specified in 40 C.F.R. part 133. These technology-based regulations apply to all municipal wastewater treatment plants and identify the minimum level of effluent quality attainable by secondary treatment in terms of 5-day biochemical oxygen demand (BOD₅), total suspended solids (TSS), and pH.

Table F-4. Secondary Treatment Requirements

Parameter	Units	30-Day Average	7-Day Average
BOD ₅ ^[1]	mg/L	30	45
CBOD ₅ ^[2]	mg/L	25	40
TSS ^[1]	mg/L	30	45
pH	standard units	6.0 – 9.0	

^[1] The 30-day average percent removal for BOD₅ and TSS shall not be less than 85 percent.

^[2] At the option of the permitting authority, effluent limitations for CBOD₅ may be substituted for those limitations specified for BOD₅.

Pursuant to 40 C.F.R. section 125.3(c)(3), the Central Coast Water Board used a combination of methods to inform technology-based effluent limitations for this Order. As described above, the Central Coast Water Board includes EPA promulgated effluent limitations for secondary treatment standards. Additionally, the Central Coast Water Board includes effluent limitations established on case-by-case basis under section 402(a)(1)(B) of the CWA. Where promulgated effluent limitations guidelines only apply to certain aspects of the discharger's operation, or to certain pollutants, other aspects or activities are subject to regulation on a case-by-case basis in order to carry out the provisions of the CWA. The State Water Board adopted technology-based effluent limitations for discharges to the Pacific Ocean in Table 4 of the Ocean Plan. Table 4 effluent limitations apply only to publicly owned treatment works and industrial discharges for which Effluent Limitations Guidelines have not been established pursuant to sections 301, 302, 304, or 306 of the Federal Clean Water Act. Therefore, effluent limitations for oil and grease, settleable solids, and turbidity in Table 4 in the Ocean Plan apply to the Discharger, because EPA has not established effluent guidelines for these parameters. The Initial Study to Describe the Environmental Impact of Proposed Amendments to the Ocean Plan, prepared in January 1978, includes the same effluent limitations as those in Table 4 of the most recently updated 2019 Ocean Plan. For the limitations in Table 4 of the 2019 Ocean Plan, this study states, "The limitations on these gross properties of sewage were intended to prescribe the type of municipal waste treatment that would be needed to comply with the requirements of the Plan, and may be thought of as technology based limits."

2. Applicable Technology-Based Effluent Limitations

This Order includes effluent limitations for flow rate of discharge. This Order establishes the average annual daily effluent flow, at Discharge Point No. 001, shall not exceed 0.34 million gallons per day (MGD), derived from the facility design informed by the Cayucos Sanitary District's buildout. This Order establishes the maximum daily effluent flow, at Discharge Point No. 001, shall not exceed 1.2 MGD, derived from the maximum daily flow accounted for in the outfall diffuser design at Discharge Point No. 001.

40 C.F.R. section 122.45(f)(1) requires effluent limitations be expressed in terms of mass, with some exceptions, and 40 C.F.R. section 122.45(f)(2) allows pollutants that are limited in terms of mass to additionally be limited in terms of other units of measurement. This Order includes effluent limitations expressed in terms of mass and concentration. In addition, pursuant to the exceptions to mass

limitations provided in 40 C.F.R. section 122.45(f)(1), some effluent limitations are not expressed in terms of mass, such as pH and turbidity, and when the applicable standards are expressed in terms of concentration and mass limitations are not necessary to protect the beneficial uses of the receiving waters.

40 C.F.R section 122.45(d) requires effluent limitations for continuous discharges be stated as average weekly and average monthly unless it is impracticable. In addition to including average weekly and average monthly technology-based effluent limitations, this Order establishes maximum daily effluent limitations. Due to high peaking factors in Cayucos, maximum daily effluent limitations are necessary to restrict the discharge on a daily basis. The maximum daily effluent limitations are set at a level for which treatment is achievable for the Facility.

- a. **BOD₅ and TSS.** 40 C.F.R. part 133, establish the minimum weekly and monthly average level of effluent quality attainable by secondary treatment for BOD₅ and TSS. Effluent limitations for BOD₅ and TSS have thus been established in this Order based on these standards. Additionally, 40 C.F.R. section 133.102, in describing the minimum level of effluent quality attainable by secondary treatment, states that the 30-day average percent removal shall not be less than 85 percent. This Order includes a limitation requiring an average of 85 percent removal of BOD₅ and TSS over each calendar month.
- b. **pH.** 40 C.F.R. part 133, establishes technology-based effluent limitations for pH. The secondary treatment standards require the pH of the effluent to be no lower than 6.0 and no greater than 9.0 standard units. This pH range is also consistent with the Ocean Plan Table 4 effluent limitations.
- c. **Settleable Solids.** Table 4 of the Ocean Plan establishes the minimum weekly, monthly, and maximum average of effluent quality attainable by secondary treatment for settleable solids. Effluent limitations for settleable solids have been established in this Order based on these requirements.
- d. **Oil and Grease.** Table 4 of the Ocean Plan establishes the minimum weekly, monthly, and maximum average of effluent quality attainable by secondary treatment for oil and grease. Effluent limitations for oil and grease have been established in this Order based on these requirements.
- e. **Turbidity.** Table 4 of the Ocean Plan establishes the minimum weekly, monthly, and maximum average of effluent quality attainable by secondary treatment for turbidity. Effluent limitations for turbidity have been established in this Order based on these requirements.

The following table summarizes technology-based effluent limitations established by the Order.

Table F-5. Summary of Technology-Based Effluent Limitations

Parameter	Units	Effluent Limitations		
		Average Monthly	Average Weekly	Maximum Daily
BOD ₅ ^[1]	mg/L	30	45	90
	lbs/day	93	139	278
TSS ^[1]	mg/L	30	45	90
	lbs/day	93	139	278
Oil and Grease	mg/L	25	40	75
	lbs/day ^[2]	7177	113123	213231
Settleable Solids	ml/L	1.0	1.5	3.0
Turbidity	NTU	75	100	225
pH	standard units	6.0 – 9.0 at all times		

[1] The 30-day average percent removal for BOD₅ and TSS shall not be less than 85 percent.

[2] Mass-based effluent limitations were calculated using the following formula:
 $\text{lbs/day} = \text{pollutant concentration (mg/L)} * \text{average dry weather d} \text{Design flow (0.340.37 MGD)} * \text{conversion factor (8.34)}$

C. Water Quality-Based Effluent Limitations (WQBELs)

1. Scope and Authority

CWA section 301(b) and 40 C.F.R. section 122.44(d) require that permits include limitations more stringent than applicable federal technology-based requirements where necessary to achieve applicable water quality standards.

Section 122.44(d)(1)(i) of 40 C.F.R. requires that permits include effluent limitations for all pollutants that are or may be discharged at levels that have the reasonable potential to cause or contribute to an exceedance of a water quality standard, including numeric and narrative objectives within a standard. Where reasonable potential has been established for a pollutant, but there is no numeric criterion or objective for the pollutant, WQBELs must be established using: (1) U.S. EPA criteria guidance under CWA section 304(a), supplemented where necessary by other relevant information; (2) an indicator parameter for the pollutant of concern; or (3) a calculated numeric water quality criterion, such as a proposed state criterion or policy interpreting the state’s narrative criterion, supplemented with other relevant information, as provided in section 122.44(d)(1)(vi).

The process for determining reasonable potential and calculating WQBELs when necessary is intended to protect the designated uses of the receiving water as specified in the Basin Plan, and achieve applicable water quality objectives and criteria that are contained in other state plans and policies, or any applicable water quality criteria contained in the Ocean Plan.

2. Applicable Beneficial Uses and Water Quality Criteria and Objectives

Beneficial uses for ocean waters of the Central Coast Region are established by the Basin Plan and Ocean Plan and are described in section III.C of this Fact Sheet.

Water quality criteria applicable to ocean waters of the region are established by the Ocean Plan, which includes WQOs for bacterial characteristics, physical characteristics, chemical characteristics, biological characteristics, and radioactivity. The WQOs from the Ocean Plan are incorporated as receiving water limitations in this Order. In addition, Table 3 of the Ocean Plan contains numeric WQOs for 83 toxic pollutants for the protection of marine aquatic life and human health.

3. Determining the Need for WQBELs

Procedures for performing an RPA for ocean dischargers are described in section III.C and Appendix VI of the California Ocean Plan. The procedure is a statistical method that projects an effluent data set while taking into account the averaging period of WQOs, the long-term variability of pollutants in the effluent, limitations associated with sparse data sets, and uncertainty associated with censored data sets. The procedure assumes a lognormal distribution of the effluent data set and compares the 95th percentile concentration at 95 percent confidence of each Table 3 pollutant, accounting for dilution, to the applicable water quality criterion. The RPA results in one of three following endpoints.

Endpoint 1 - There is “reasonable potential.” An effluent limitation must be developed for the pollutant. Effluent monitoring for the pollutant, consistent with the monitoring frequency in Ocean Plan Appendix III is required.

Endpoint 2 - There is no “reasonable potential.” An effluent limitation is not required for the pollutant. Ocean Plan Appendix III effluent monitoring is not required for the pollutant. However, the Regional Water Board may require occasional monitoring for the pollutant or for whole effluent toxicity as appropriate.

Endpoint 3 - The RPA is inconclusive. Monitoring for the pollutant or whole effluent toxicity testing, consistent with the monitoring frequency in Ocean Plan Appendix III is required. An existing effluent limitation for the pollutant shall remain in the permit; otherwise, the permit shall include a reopener clause to allow for subsequent modification of the permit to include an effluent limitation if the monitoring establishes that the discharge causes, has the reasonable potential to cause, or contribute to an excursion above a Table 3 water quality objective.

The State Water Board has developed a [reasonable potential calculator](#) (RPcalc 2.2). RPcalc 2.2 was used in the development of this Order and considers several pathways in the determination of reasonable potential.

a. First Path

If available information about the receiving water or the discharge supports a finding of reasonable potential without analysis of effluent data, the Central Coast Water Board may decide that WQBELs are necessary after a review of such information. Such information may include facility or discharge type; solids loading, lack of dilution; history of compliance problems; potential toxic effects; fish tissue data; CWA section 303(d) status of the receiving water; the presence of threatened or endangered species or their critical habitat; or other information.

b. Second Path

If any pollutant concentration, adjusted to account for dilution, is greater than the most stringent applicable WQO, there is reasonable potential for that pollutant.

c. Third Path

If the effluent data contain three or more detected and quantified values (i.e., values that are at or above the minimum level (ML)) and all values in the data set are at or above the ML, a parametric RPA is conducted to project the range of possible effluent values. The 95th percentile concentration is determined at 95 percent confidence for each pollutant and compared to the most stringent applicable WQO to determine reasonable potential. A parametric analysis assumes that the range of possible effluent values is distributed log-normally. If the 95th percentile value is greater than the most stringent applicable WQO, there is reasonable potential for that pollutant.

d. Fourth Path

If the effluent data contains three or more detected and quantified values (i.e., values that are at or above the ML), but at least one value in the data set is less than the ML, a parametric RPA is conducted according to the following steps.

- i.** If the number of censored values (those expressed as a “less than” value) account for less than 80 percent of the total number of effluent values, calculate the ML (the mean of the natural log of transformed data) and SL (the standard deviation of the natural log of transformed data) and conduct a parametric RPA, as described above for the Third Path.
- ii.** If the number of censored values account for 80 percent or more of the total number of effluent values, conduct a non-parametric RPA, as described below for the Fifth Path. (A non-parametric analysis becomes necessary when the

e. Fifth Path

A non-parametric RPA is conducted when the effluent data set contains less than three detected and quantified values or when the effluent data set contains three or more detected and quantified values but the number of censored values accounts for 80 percent or more of the total number of effluent values. A non-parametric analysis is conducted by ordering the data, comparing each result to the applicable water quality objective and accounting for ties. The sample number is reduced by one for each tie, when the dilution-adjusted method detection limit (MDL) is greater than the water quality objective. If the adjusted sample number, after accounting for ties, is greater than 15, the pollutant has no reasonable potential to exceed the water quality objective. If the sample number is 15 or less, the RPA is inconclusive, monitoring is required, and any existing effluent limitations in the expiring permit are retained.

At the time of development of this permit, the Facility was under construction. Therefore, effluent data was unavailable, and the Central Coast Water Board could not conduct an RPA. This permit establishes an annual monitoring requirement for pollutants in Table 3 of the Ocean Plan to allow for a robust set of data so that an RPA may be conducted during future permit renewals.

4. **WQBEL Calculations**

Table 3 of the Ocean Plan includes water quality objectives for the protection of marine aquatic life and these objectives are used to establish effluent limits for discharges from this Facility.

The Ocean Plan considers the "minimum probable initial dilution" in determining effluent limitations for toxic pollutants. Initial dilution is the process that results in the rapid and irreversible turbulent mixing of wastewater with ocean water around the point of discharge. For the purposes of the Ocean Plan, minimum initial dilution is the lowest average initial dilution within any single month of the year. Dilution estimates must be based on observed waste flow characteristics, observed receiving water density structure, and the assumption that no currents of sufficient strength to influence the initial dilution process flow across the discharge structure. This Order establishes a dilution credit of 385.3 to 1 for use in calculating WQBELs based on the minimum initial dilution modeled to be achieved by the diffuser at the ocean outfall.

The following equation from section III.C.4.a. of the Ocean Plan was used to calculate all concentration-based, effluent limitations.

$$C_e = C_o + D_m (C_o - C_s)$$

Where:

C_e = the effluent concentration limit, $\mu\text{g/L}$

C_o = the concentration (water quality objective) to be met at the completion of initial dilution, $\mu\text{g/L}$

Cs = background seawater concentration, µg/L

Dm = minimum probable initial dilution expressed as parts seawater per part wastewater.

Table 3 of the Ocean Plan establishes background concentrations for some pollutants to be used when determining reasonable potential (represented as “Cs”). In accordance with Table 3 of the Ocean Plan implementing procedures, Cs equals zero for all pollutants not established in Table 3. The background concentrations provided in Table 5 of the Ocean Plan are summarized below.

Table F-6. Background Concentrations (Cs) – California Ocean Plan (Table 5)

Pollutant	Background Seawater Concentration
Arsenic	3 µg/L
Copper	2 µg/L
Mercury	0.0005 µg/L
Silver	0.16 µg/L
Zinc	8 µg/L

For all other California Ocean Plan Table 3 parameters, Cs=0

As an example, chronic toxicity trigger is determined as follows:

Water quality objectives from the Ocean Plan for chronic toxicity are:

Table F-7. Example Parameter Water Quality Objectives

Parameter	Units	6-Month Median	Daily Maximum	Instantaneous Maximum
Chronic Toxicity	TUc	N/A	1	N/A

N/A = Not Applicable

Using the equation, $C_e = C_o + D_m (C_o - C_s)$, the chronic toxicity trigger is calculated as follows.

Chronic Toxicity

$$C_e = N/A + 385.3 (N/A - 0) = N/A \text{ (6-Month Median)}$$

$$C_e = 1 + 385.3 (1 - 0) = 386.3 \text{ (Daily Maximum)}$$

$$C_e = N/A + 385.3 (N/A - 0) = N/A \text{ (Instantaneous Maximum)}$$

40 C.F.R. 122.45(f)(1) requires effluent limitations be expressed in terms of mass, with some exceptions, and 40 C.F.R. 122.45(f)(2) allows pollutants that are limited in terms of mass to additionally be limited in terms of other units of measurement. This Order includes effluent limitations expressed in terms of mass and concentration. In addition, pursuant to the exceptions to mass limitations provided in 40 C.F.R. 122.45(f)(1), some effluent limitations are not

expressed in terms of mass, such as pH and temperature, and when the applicable standards are expressed in terms of concentration (e.g., CTR criteria and MCLs) and mass limitations are not necessary to protect the beneficial uses of the receiving water. Mass-based effluent limitations were computed based on the [average dry weather](#) design flow rate ([0-340.37](#) MGD) for average annual flow.

Mass-based effluent limitations were calculated using the following equation:

$$\text{lbs/day} = \text{permitted flow (MGD)} \times \text{pollutant concentration (mg/L)} \times 8.34$$

5. Indicator Bacteria

This Order establishes effluent limitations for total coliform, fecal coliform, and enterococcus. These effluent limitations are necessary in order to ensure discharges from the Facility are not causing or contributing to an exceedance of the water quality objectives in the Ocean Plan.

6. Whole Effluent Toxicity (WET)

WET limitations protect receiving water quality from the aggregated toxic effect of a mixture of pollutants in the effluent. WET tests measure the degree of response of exposed aquatic test organisms to an effluent. The WET approach allows for protection of the narrative “no toxics in toxic amounts” criterion while implementing numeric criteria for toxicity. There are two types of WET tests - acute and chronic. An acute toxicity test is conducted over a short time period and measures mortality. A chronic toxicity test is conducted over a longer period of time and may measure mortality, reproduction, and growth.

Section III.C.4.c of the Ocean Plan requires a Discharger to conduct either acute or chronic toxicity testing for discharges with minimum initial dilution ranging from 350:1 to 1,000:1. Therefore, annual monitoring for chronic toxicity has been established in accordance with Appendix III.7 of the Ocean Plan to evaluate compliance with the applicable chronic toxicity trigger based on the available dilution for the discharge of 385.3:1.

The Discharger must also develop, maintain, and, if required, implement a Toxicity Reduction Evaluation (TRE) Workplan, as described in section VI.C.2.b of the Order. The TRE Workplan shall describe steps that the Discharger intends to follow in the event that the chronic toxicity trigger is exceeded. When monitoring measures WET in the effluent above the trigger established by the Order, the Discharger must resample, if the discharge is continuing, and retest. The Central Coast Water Board Executive Officer will then determine whether to initiate enforcement action, require the Discharger to implement a toxicity reduction evaluation, or to implement other measures.

D. Final Effluent Limitation Considerations

1. Anti-Backsliding Requirements

Sections 402(o) and 303(d)(4) of the CWA and federal regulations at 40 C.F.R. section 122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the previous permit, with some exceptions where limitations may be relaxed. Anti-backsliding provisions are not applicable for this Order because there was not a previous permit.

2. Antidegradation Policies

WDRs for the Discharger must conform with federal and state antidegradation policies provided at 40 C.F.R. section 131.12 and in State Water Board Resolution No. 68-16. This Order does not authorize increases in discharge rates or pollutant loadings, and its limitations and conditions otherwise ~~as~~ ensure maintenance of the existing quality of receiving waters. When the Facility is operational, wastewater from the Cayucos Sanitary District that is currently treated and discharged at the Morro Bay/Cayucos WWTP will be treated and discharged at the Facility. Pursuant to 40 C.F.R. section 122.2, the Facility is a new discharger, but because the Facility will treat and discharge the same Cayucos Sanitary District wastewater already discharged by the Morro Bay/Cayucos WWTP, an increase in the volume or concentration of waste and discharge into existing high quality waters is not expected. To conform with antidegradation policies, this Order further requires the implementation of ~~a~~ Recycled Wwater Mmanagement Pplans that ~~decreases~~ the discharge of treated effluent to the ocean and ~~increases~~ beneficial reuse. In the unlikely event that the proposed discharge produces a waste or increased volume or concentration of waste and discharge to existing high quality waters, the change will be consistent with the maximum benefit for the people of the state, will not unreasonably affect present and anticipated beneficial uses, and will not result in water quality less than that prescribed in the Basin Plan.

3. Stringency of Requirements for Individual Pollutants

This Order contains ~~both~~ technology-based ~~and water quality based~~ effluent limitations for individual pollutants. The technology-based effluent limitations consist of restrictions on BOD₅, TSS, oil and grease, turbidity, pH, and settleable solids. Restrictions on these pollutants are discussed in section IV.B of the Fact Sheet. This Order's technology-based pollutant restrictions implement the minimum, applicable federal technology-based requirements. In addition, this Order contains applicable California-specific technology-based requirements established in the Ocean Plan in 1978 ~~effluent limitations more stringent than the minimum, federal technology-based requirements that are necessary to meet water quality standards.~~ Under the EPA-approved Ocean Plan, inclusion of the technology-based effluent limitations in permits issued to all publicly owned treatment works discharging to the ocean is mandatory; therefore, consideration of the factors in California Water Code section 13241 will not influence the

inclusion of the Ocean Plan effluent limitations in this Order. Nevertheless, the factors in California Water Code section 13241 have been considered throughout this Order. These limitations are not more stringent than required by the CWA.

4. Summary of Final Effluent Limitations – Discharge Point No. 001

5. Flow Rate of Discharge

~~6.4. Average annual daily effluent flow, at Discharge Point No. 001, shall not exceed 0.34 million gallons per day (MGD). Maximum daily effluent flow, at Discharge Point No. 001, shall not exceed 1.2 MGD.~~

Table F-8. Final Effluent Limitations

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand 5-day @ 20°C (BOD ₅)	mg/L	30	45	90	---	---
	<u>lbs/day</u>	<u>93</u>	<u>139</u>	<u>278</u>		
Total Suspended Solids (TSS)	mg/L	30	45	90	---	---
	<u>lbs/day</u>	<u>93</u>	<u>139</u>	<u>278</u>		
pH	standard units	---	---	---	6.0	9.0
Oil and Grease	mg/L	25	40	75	---	---
	<u>lbs/day</u>	<u>7477</u>	<u>113123</u>	<u>213231</u>	---	---
Settleable Solids	ml/L	1.0	1.5	3.0	---	---
Turbidity	NTU	75	100	225	---	---

a. Percent Removal

The average monthly percent removal of BOD₅ and TSS shall not be less than 85 percent.

E. Interim Effluent Limitations – Not Applicable

F. Land Discharge Specifications – Not Applicable

G. Recycling Specifications

The Order allows the production and onsite use of disinfected tertiary recycled wastewater in compliance with applicable state and local requirements regarding the production and use of reclaimed wastewater, including those requirements established by the California Department of Public Health at ~~title~~ Title 22, sections 60301 - 60357 of the California Code of Regulations CCR, Water Recycling Criteria. The Order includes water reclamation requirements for the Facility pursuant to the State Water Resources Control Board’s (State Water Board’s) Division of Drinking Water

[approval recommendations submitted to the Central Coast Water Board. The Order requires the Discharger to adhere to the requirements outlined in section IV.C and any additional conditions pursuant to specifications in updated title 22 engineering reports approved by the State Water Board's Division of Drinking Water, including any updated disinfection conditions.](#)

V. RATIONALE FOR RECEIVING WATER LIMITATIONS

A. Surface Water

The Ocean Plan contains numeric and narrative WQOs applicable to the coastal waters of California. Water quality objectives include an objective to maintain the high-quality waters pursuant to federal regulations (section 131.12) and State Water Board Resolution No. 68-16. Receiving water limitations in this Order are included to ensure protection of beneficial uses of the receiving water and are based on the water quality objectives contained in the Ocean Plan.

B. Groundwater – Not Applicable

VI. RATIONALE FOR PROVISIONS

A. Standard Provisions

Standard Provisions, which apply to all NPDES permits in accordance with 40 C.F.R. section 122.41, and additional conditions applicable to specified categories of permits in accordance with 40 C.F.R. section 122.42, are provided in Attachment D to the order.

Sections 122.41(a)(1) and (b) through (n) of 40 C.F.R. establish conditions that apply to all State-issued NPDES permits. These conditions must be incorporated into the permits either expressly or by reference. If incorporated by reference, a specific citation to the regulations must be included in the Order. 40 C.F.R. section 123.25(a)(12) allows the state to omit or modify conditions to impose more stringent requirements. In accordance with 40 C.F.R. section 123.25, this Order omits federal conditions that address enforcement authority specified in 40 C.F.R. sections 122.41(j)(5) and (k)(2) because the enforcement authority under the [California](#) Water Code is more stringent. In lieu of these conditions, this Order incorporates by reference [California](#) Water Code section 13387(e).

B. Special Provisions

1. Reopener Provisions

The Order may be modified in accordance with the requirements set forth at 40 C.F.R. sections 122 and 124, to include appropriate conditions or limits based on newly available information, or to implement any, new state water quality objectives that are approved by U.S. EPA. As effluent is further characterized through additional monitoring, and if a need for additional effluent limitations becomes apparent after additional effluent characterization, the Order will be reopened to incorporate such limitations.

2. Special Studies and Additional Monitoring Requirements

a. Toxicity Reduction Requirements

The requirements in section VI.C.2.a through c of this Order address requirements necessary to ensure compliance with Ocean Plan objectives for toxicity. The requirement to develop and maintain a TRE Workplan is established in this Order. When toxicity monitoring measures chronic toxicity in the effluent above the trigger of 386.3 TUc ([Toxicity Units Chronic](#)) established by this Order, the Discharger is required to resample and retest, if the discharge is continuing. When all monitoring results are available, the Central Coast Water Board Executive Officer can determine whether to initiate enforcement action, whether to require the Discharger to implement TRE requirements, or whether other measures are warranted.

b. Receiving Water Monitoring for Bacteria

To evaluate potential impacts on human health and assist in public health determinations, the Order contains requirements to conduct receiving water monitoring when [any of the following occur: 1\) effluent bacterial monitoring results exceed receiving water bacterial standards for water-contact or shellfish harvesting specified in section V.A.1 of the Order 2\) effluent violations that indicate potential for elevated bacteria concentrations in effluent, or 3\) operational changes, plant upsets, or process failures that the Discharger determines have the potential to cause bacteria levels outside normal ranges in the effluent](#)~~effluent limitations for total coliform bacteria are exceeded in consecutive monitoring events~~. The Discharger shall conduct surf zone and ocean receiving water monitoring for bacteria in accordance with section VIII.A of the Monitoring and Reporting Program ([MRP](#)). Results of the increased monitoring for bacteria shall be summarized and submitted in a report to the Central Coast Water Board Executive Officer.

c. Ocean Outfall and Diffuser Monitoring

The Order requires the Discharger to conduct visual inspections of the outfall and diffuser system every three years. This requirement is necessary to assess the structural integrity of the entire outfall structure and to determine whether there are leaks, potential leaks, or malfunctions.

3. Best Management Practices and Pollution Prevention

a. Pollutant Minimization Program

The 2018 Ocean Plan establishes requirements for a Pollutant Minimization Program (PMP) to reduce all potential sources of a pollutant through pollutant minimization control strategies. PMP language from section III.C.9 of the Ocean Plan is included in this Order to provide guidance in the event that a PMP must be developed and implemented by the Discharger. The Discharger is required to develop a PMP when there is evidence and effluent conditions present pursuant to section VI.C.3.a or if required to do so in writing by the Central Coast Water Board Executive Officer.

4. Construction, Operation, and Maintenance Specifications

The Facility shall be operated as specified under Standard Provisions, Attachment D.

5. Special Provisions for Publicly Owned Treatment Works (POTWs)

a. Biosolids Management

The use and disposal of biosolids is regulated under federal and State laws and regulations, including permitting requirements and technical standards included in 40 C.F.R. part 503. The Discharger is required to comply with the standards and time schedules contained in 40 C.F.R. part 503, [which is enforceable by U.S. EPA because California has not been delegated the authority to implement this program.](#)

Title 27, CCR, Division 2, Subdivision 1, section 20005 establishes approved methods for the disposal of collected screenings, residual sludge, biosolids, and other solids removed from liquid wastes. Requirements to ensure the Discharger disposes of solids in compliance with State and federal regulations have been included in this Order.

b. Collection System

The State Water Board issued General Waste Discharge Requirements for Sanitary Sewer Systems, Water Quality Order 2006-0003-DWQ (General Order) on May 2, 2006. The State Water Board amended the Monitoring and Reporting Program for the General Order through Order WQ 2013-0058-EXEC on August 6, 2013. The General Order requires public agencies that own or operate sanitary sewer systems with sewer lines one mile of pipe or greater to enroll for coverage and comply with the General Order. The General Order requires agencies to develop sanitary sewer management plans and report all sanitary sewer overflows, among other requirements and prohibitions.

The General Order contains requirements for operation and maintenance of collection systems and for reporting and mitigating sanitary sewer overflows that are more extensive, and therefore, more stringent than the requirements under federal standard provisions. The Discharger obtained enrollment for regulation under the General Order on January 9, 2007.

6. Special Provisions for [Recycled Water Management Planning](#)

This Order requires the Discharger to develop ~~and implement a R~~[recycled water management plans. As discussed in section III.C.8 of this Fact Sheet, the provisions for the Recycled water management plans are authorized by California Water Code section 13267. The Discharger has indicated that it seeks to maximize beneficial reuse of the produced wastewater at the Facility, State policies recognize the value of water recycling, and a special condition in the Discharger's Coastal Development Permit related to the Facility issued by the California Coastal Commission requires the development of a recycled water](#)

[management plan.](#)

State Water Board Policies and Resolutions Supporting Water Recycling.

~~This Order requires the Discharger to develop and implement a Recycled Water Management Plan to align with State Water Board policies and resolutions supporting and requiring water recycling.~~

State Water Board's Water Quality Control Policy for Recycled Water [recognizes recycled water in California as a valuable resource and](#) supports [its](#) increased use ~~of recycled water in California~~ to encourage water supply diversity and sustainability. [The Water Quality Control Policy for Recycled Water defines recycled water as, "Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource \(California Water Code section 13050\(n\)\)."](#) [This Order requires the Discharger to plan for and implement steps to achieve beneficial reuse of recycled water.](#)

Section 3.1.1 of the Water Quality Control Policy for Recycled Water specifies the goal to reuse all dry weather direct discharges of treated wastewater to ocean waters that can be viably put to a beneficial use. Section 3.3.1 of the Water Quality Control Policy for Recycled Water specifies, "Agencies producing recycled water that is available for reuse and not being put to beneficial use shall make that recycled water available to water purveyors for reuse on reasonable terms and conditions." [The State Water Board further indicated that in some circumstances, failure to use recycled water constitutes waste and unreasonable use of water.](#) Section 3.3.2 of State Water Board's Water Quality Control Policy for Recycled Water specifies, "It is a waste and unreasonable use of water for water agencies not to use recycled water when recycled water of adequate quality is available and is not being put to beneficial use, pursuant to the conditions established in [California](#) Water Code sections 13550 et seq." [Because Although](#) the Discharger is not a water agency ~~or water purveyor~~, the [provisions described above are relevant because the Discharger is capable of producing disinfected tertiary recycled wastewater and is assessing the feasibility of adding advanced treatment technologies. Therefore, this Order includes a condition for the Discharger to prepare the Recycled Water Management Plan – Phase II \(Phase II Plan\) to identify and demonstrate engagement with local includes requirements for the Discharger to engage all potential water purveyors and other potential customers](#) about beneficially reusing the Facility's treated effluent.

In Resolution No. 2017-0012, the State Water Board encourages Regional Boards to take a proactive approach to climate change their actions, with the intent to embed climate change consideration into all programs and activities. The resolution lays the groundwork for a robust response that will support California's ongoing climate leadership providing stormwater capture and use as a climate change mitigation strategy. Additionally, the State Water Board directs State Water Board and Regional Board staff to identify and recommend actions the Water Boards can take for "effective permitting of projects to develop new and

underutilized water resources, expand surface water and groundwater storage where appropriate, and add operational flexibility to build and enhance resilience to impacts of climate change.”³

~~**State Constitution Mandating Declaration That Water Resources Be Used for Beneficial Use.** The California Constitution, Article 10, Section 2 declares in relevant part “that the water resources of the State be put to beneficial use to the fullest extent of which they are capable, and that the waste... of water be prevented.” Recycled water is considered such a valuable resource in Water Code section 13050(n), which further defines recycled water as a water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur. This Order requires the Discharger to plan for and implement steps to achieve beneficial reuse of recycled water by ultimately preventing the waste of water.~~

Governor Order for Building Water Resiliency. Governor Gavin Newsom signed California Executive Order N-10-19 on April 29, 2019, ordering the California Natural Resources Agency (CNRA), the California Environmental Protection Agency (CalEPA), and the California Department of Food and Agriculture (CDFA), to together prepare a water resilience portfolio to meet the needs of California’s community, economy, and environment through the 21st Century. Executive Order N-10-19 orders the aforementioned agencies to inventory and assess projected water needs and anticipated impacts of climate change to water supply reliability; and to develop a water resilience portfolio embodying multi-benefit approaches and embracing innovative technologies.

CNRA, CalEPA, and CDFA have prepared a draft 2020 Water Resilience Portfolio in response to Executive Order N-10-19, establishing portfolio actions assigned to additional state and local agencies, including Regional Water Boards. Actions assigned to the Regional Water Boards include “support regional decision making with watershed-scale climate vulnerability and adaptation assessments that include strategies to address risks to water supply, ecosystems, and water quality.”

This Order’s requirement that the Discharger plan to maximize beneficial reuse of the Facility’s treated effluent is consistent with the actions assigned to the Central Coast Water Board in draft 2020 Water Resilience Portfolio.

~~**Discharger Efforts to Implement and Plan for Recycling.** The Discharger’s December 13, 2019 Title 22 engineering report, approved by the State Water Board’s Division of Drinking Water on December 18, 2019, outlines plans for production, distribution, and use of recycled water. In the Title 22 engineering report, the Discharger proposes reuse of the treated effluent for non-potable uses~~

³ “Comprehensive Response to Climate Change,” State Water Board Resolution No. 2017-0012, adopted March 7, 2017, pp. 4, 6, https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2017/rs2017_0012.pdf.

~~at the Facility and irrigation at surrounding agricultural fields, with irrigation demands equating to approximately 30 percent of annual design volume.~~

The Cayucos Sanitary District Board of Directors adopted a Cayucos Sustainable Water Project (CSWP) Charter on July 16, 2015, identifying the following project vision: “Provide Cayucos with efficient, reliable and adaptable wastewater treatment, while producing high quality water supply to benefit the community.” The Charter includes a project objective and performance measure to “enhance the community’s long-term water supply reliability.”

The Discharger has conducted preliminary planning to identify and assess beneficial reuse options. As part of the Cayucos Sustainable Water Project CSWP, in June 23, 2017, the Discharger prepared a Recycled Water Facilities Planning Study, partially funded by a grant from the State Water Board Water Recycling Funding Program, to examine siting alternatives for the Facility and beneficial reuse alternatives for the treated effluent from the Facility. The Discharger assessed the following recycled water alternatives: 1) provide disinfected tertiary water for unrestricted irrigation reuse; 2) provide recycled water that meets standards for indirect potable reuse via groundwater recharge; 3) provide recycled water that meets standards for indirect potable reuse via surface water augmentation; and 4) provide recycled water that meets standards for direct potable reuse. The alternatives analysis concluded that non-potable reuse for agricultural irrigation was the most favorable project along with surface water augmentation using Whale Rock Reservoir through indirect potable reuse or direct potable reuse. The study indicates opportunities for groundwater recharge will continue to be evaluated.

The June 23, 2017 Recycled Water Facilities Planning Study also includes the following information supporting some of the basic initial steps towards assessing feasibility of beneficially reusing the Facility’s treated effluent: an assessment of water supply characteristics including existing sources, quality, rights, use trends, and pricing; treatment standards and regulations for various recycled water treatment levels; recycled water market and opportunities; recycled water project alternatives and associated recycled water yields and cost estimates; and a construction financing plan including potential revenue streams, grant and loan opportunities, partnership opportunities to create mutual benefits with parities through shared investment, and sunk costs and indebtedness.

The Discharger’s environmental impacts assessment for the CSWP covers a future project phase to convey recycled water for beneficial reuse. The April 2017 Cayucos Sustainable Water Project (CSWP) Final Environmental Impact Report EIR, supporting the Facility, covers CSWP Phase 2 including construction of a conveyance pipeline for advanced treated water to the County Service Area 10 water treatment facility. The Environmental Impact Report EIR indicates Phase 2 is limited to the construction of the pipeline only and will not be used until direct potable reuse regulations are established and an additional water source is determined by the community water purveyors as advantages, such as for a

drought buffer.

The Discharger's December 13, 2019 title 22 engineering report, approved by the State Water Board's Division of Drinking Water on December 18, 2019, outlines plans for production, distribution, and use of recycled water. The title 22 engineering report states the Facility "will treat the District's wastewater to Title 22, Division 4, Chapter 3, section 60301 et seq., CCR (title 22) disinfected tertiary standards through Membrane Bioreactor (MBR) filtration and Ultraviolet (UV) disinfection. Disinfected tertiary RW [Recycled Water] means filtered and subsequently disinfected wastewater that meets DDW title 22 standards." In the title 22 engineering report, the Discharger proposes reuse of the treated effluent for non-potable uses at the Facility and irrigation at surrounding agricultural fields, with irrigation demands equating to approximately 30 percent of annual design volume.

Other Agency Permits Requiring Recycling. On September 11, 2019, the California Coastal Commission approved a coastal development permit (CDP) for the infrastructure related to the Pacific Ocean outfall for this Facility. Special Condition 11 in the CDP requires the Discharger to submit a Recycled Water Management Plan, within one year of commencing operation of the ocean outfall, describing actions the Discharger will take over the next five and ten years to implement beneficial reuse. The objective of the plan is to ensure the maximum amount of tertiary treated recycled water is produced, and the maximum amount of such water is used for beneficial reuse purposes, with the ultimate goal of achieving 100 percent reuse. The CDP requires the Discharger to update the plan every five years until such a time as the outfall is removed. This Order's requirements for development and implementation of a Recycled Water Management Plan are consistent with the goals and requirements of the CDP.

Central Coast Water Board staff plan to coordinate reviews with the California Coastal Commission of the Recycled Water Management Plan – Phase I and Phase II required by this Order. This provides an opportunity to work with the California Coastal Commission to support both agencies' water management and recycling goals and collaborate to promote streamlined permitting of recycled water projects pursuant to the State Water Board's Water Quality Control Policy for Recycled Water. Section 3.4 of the State Water Board's Water Quality Control Policy for Recycled Water requests the "Coastal Commission to use their respective authorities to the fullest extent possible to promote and streamline permitting...of recycled water projects to assist...the regional water boards in increasing the use of recycled water in California to make progress toward achieving the recycled water goals set forth in 3.1." Section 4.2 of State Water Board's Water Quality Control Policy for Recycled Water specifies, "The regional water boards will, pursuant to [section] 3.3, use their authority to the fullest extent possible to encourage the use of recycled water and to streamline permitting of recycled water projects." Although the Recycled Water Management Plan

approvals will not be permitting recycled water projects, these plans are part of the critical path towards bringing recycled water projects to fruition.

California Water Code Sections 13263 and 13241 Considerations. California Water Code section 13263 requires that waste discharge requirements “implement any relevant water quality control plans that have been adopted and take into consideration the beneficial uses to be protected, the water quality objectives reasonably required for that purpose, other waste discharges, the need to prevent nuisance and the provisions of California Water Code section 13241.” These requirements, however, only apply to those portions of the permit that exceed the requirements of the federal CWA, and not to those requirements that are necessary to meet the technology-based effluent limitations or the WQBELs necessary to protect water quality objectives for surface waters set out in the Basin Plan. (City of Burbank v. State Water Resources Control Board, 35 Cal. 4th 613, 627.) In this Order, the requirements related to the recycled water management plans exceed the requirements of the federal CWA.

The Central Coast Water Board considered the factors set forth in California Water Code sections 13263 and 13241 throughout various portions of the permit, including this Fact Sheet, which contains background information and rationale for the requirements set forth in the permit. Section III.C of this Fact Sheet identifies the beneficial uses identified in the Basin Plan. Section IV of this Fact Sheet sets forth the rationale for the effluent limits, particularly the beneficial uses to be protected and water quality objectives required for that purpose. All effluent limitations established for surface water discharges are required by the CWA, Basin Plan, or Ocean Plan. This section of this Fact Sheet sets out a discussion of the factors set forth in California Water Code sections 13263 and 13241 considered when developing the Special Provisions for recycled water management planning.

The Central Coast Water Board considered the technical capabilities of the Facility, the future availability of water and the past, present, and probable future uses of the receiving waters and the environmental characteristics, including water quality, of the Pacific Ocean. The Discharger is capable of producing disinfected tertiary recycled wastewater and is assessing the feasibility of adding advanced treatment technologies. After commencing operation, the Facility proposes to discharge most of its treated effluent to high quality waters. Section III.C.1 of this Fact Sheet identifies the beneficial uses, established by the Basin Plan, for the Pacific Ocean (Estero Bay) at the Facility’s discharge point in the ocean.

The Central Coast Water Board also considered the need to develop and use recycled water, and the potential for increased reclamation opportunities. Communities local to the Facility have identified needs to increase water supply resiliency and potentially seek new sources to meet existing and future demands.

- 7. Other Special Provisions**
 - a. Loss of Disinfection**

As soon as possible after learning of a significant loss of disinfection, and no more than 12 hours after the Discharger becomes aware of the disinfection loss, the Discharger shall notify the California Department of Public Health's Preharvest Shellfish Protection and Marine Biotoxin Monitoring Program (510-412- 4638), the San Luis Obispo Public Health Services (805-781-5553), the Central Coast Water Board (805-549-3147), and any shellfish leaseholders with active shellfish growing operations in the area of the discharge, as set forth in a list to be obtained from DHS, and regularly updated. The Discharger shall also conduct monitoring for bacteria in the receiving water in accordance with section VIII.A of the MRP. This requirement is necessary to ensure compliance with water quality criteria for shellfish harvesting in the Ocean Plan.

b. Climate Change

The Central Coast Water Board is addressing the threats of climate change and flooding by including provisions in new orders that ensure climate change mitigation and adaptation strategies are implemented. There is widespread scientific consensus that climate change is occurring and will continue at an accelerating rate into the future. Extreme weather events, including drought, high-intensity precipitation, flooding, and extreme heat have occurred through much of California in the recent years and are projected to increase in frequency, extent, or intensity due to climate change.

Climate change has the potential to impact discharging facilities through inundation, storm impacts, and erosion, increasing the risk of accidental discharge that results in discharge permit violations. These events have significant implications for wastewater treatment and operations, such as increased corrosion, deposition of solids, infiltration, overflows, inundation of facilities, impairment of treatment processes, and disruption of power or electrical components. Due to the long-term nature of these risks, there is a need to avoid piecemeal or reactionary adaptation and instead undertake proactive, long-term planning with consideration of various adaptation strategies that both keep facilities safe, maintain safe discharging practices, and avoid impacts to resources.

8. Compliance Schedules – Not Applicable

VII. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

CWA section 308 and 40 C.F.R. sections 122.41(h), (j)-(l), 122.44(i), and 122.48 require that all NPDES permits specify monitoring and reporting requirements. [California](#) Water Code sections 13267 and 13383 also authorize the Central Coast Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. The [Monitoring and Reporting Program \(MRP in\)](#); Attachment E of this Order establishes monitoring, reporting, and recordkeeping requirements that implement federal and state requirements. The following provides the rationale for the monitoring and reporting requirements contained in the MRP for this Facility.

A. Influent Monitoring

In addition to influent flow monitoring, monitoring for BOD₅ and TSS is required to determine compliance with this Order's 85 percent removal requirement for these pollutants. [Because this is a new Facility, monitoring of pollutants identified in Table 3 of the Ocean Plan is necessary to better characterize the influent.](#)

B. Effluent Monitoring

Effluent monitoring is necessary to determine compliance with effluent limitations and evaluate compliance with applicable water quality objectives and criteria.

C. Whole Effluent Toxicity Testing Requirements

Whole effluent toxicity (WET) monitoring protects receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. Acute toxicity testing measures mortality in 100 percent effluent over a short test period and chronic toxicity testing is conducted over a longer period of time and may measure mortality, reproduction, and/or growth. This Order establishes monitoring requirements for chronic toxicity for Discharge Point No. 001. A chronic toxicity trigger of 386.3 TUc, which has been calculated consistent with the prescribed method in the 2018 Ocean Plan, has been established for this Order to determine if a TRE is required. Because there is no reasonable potential for acute toxicity and the 2018 Ocean Plan does not state any required monitoring for acute toxicity, monitoring for acute toxicity has not been established.

D. Recycled Water Monitoring

The State Water Board Recycled Water Policy requires that this Order include recycled water monitoring and reporting requirements. The Recycled Water Policy specifies wastewater treatment plant and recycled water producer annual reporting of monthly volumes of influent, wastewater produced, and effluent, including treatment level and discharge type, as well as annual reporting of recycled water use by volume and category of reuse. Recycling water monitoring requirements in this Order are based on Title 22 criteria and the Title 22 engineering report approved by the State Water Board's Division of Drinking Water.

E. Receiving Water Monitoring

1. Surface Water

Receiving water monitoring is necessary to determine compliance with receiving water limitations and evaluate compliance with applicable water quality objectives and criteria.

Surf zone monitoring is necessary to assess bacteriological conditions in areas used for body-contact sports (e.g., surfing) and where shellfish may be harvested for human consumption and to assess aesthetic conditions for general recreational uses (e.g., picnicking, boating, etc.). Ocean monitoring is necessary to evaluate the impacts of the discharge on the receiving water and to determine compliance with surface water limitations. Surface water receiving water monitoring requirements are consistent with other ocean discharge permits within the Central Coast Region.

Benthic monitoring is necessary to assess the temporal and spatial occurrence of pollutants in local marine sediments and to evaluate the physical and chemical quality of the sediments in relation to the outfall. Monitoring frequency is consistent with other similar municipal wastewater treatment facilities permitted to discharge to ocean waters in the Central Coast Region.

2. Groundwater – Not Applicable

F. Other Monitoring Requirements

1. **Biosolids/Sludge Monitoring.** Biosolids monitoring shall be reported in the annual report in accordance with 40 C.F.R. part 503.
2. **Ocean Outfall and Diffuser Inspection.** The Order requires the Discharger to conduct visual inspections of the outfall and diffuser structure at least every three years and provide reports of those inspections to the Central Coast Water Board regarding the system's physical integrity.

VIII. PUBLIC PARTICIPATION

The Central Coast Water Board ~~will~~ considered the issuance of WDRs that will serve as an NPDES permit for the ~~Cayucos Sanitary District Water Resource Recovery~~ Facility. As a step in the WDRs adoption process, the Central Coast Water Board staff ~~has~~ developed tentative WDRs and encouraged ds public participation in the WDR adoption process.

A. Notification of Interested Persons

The Central Coast Water Board notified the Discharger and interested agencies and persons of its intent to prescribe WDRs for the discharge and provided an opportunity to submit written comments and recommendations. Notification was provided via the Central Coast Water Board's website and e-mail subscription service.

The public had access to the agenda and any changes in dates and locations through the Central Coast Water Board's website at:
<https://www.waterboards.ca.gov/centralcoast/>.

B. Written Comments

Interested persons awere invited to submit written comments concerning tentative WDRs as provided through the notification process. Comments awere encouraged to be sent via email to centralcoast@waterboards.ca.gov. Comments maycould also be submitted in person or by mail to the Executive Officer at the Central Coast Water Board at:

Central Coast Regional Water Quality Control Board
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401-7906

To be fully responded to by staff and considered by the Central Coast Water Board, the written comments awere due at the Central Coast Water Board office by 5:00 p.m. on **March 9, 2020**.

[Comment letters and responses to comments were provided in Attachment 1 to the staff report for consideration of adoption of the WDRs.](#)

C. Public Hearing

The Central Coast Water Board ~~will~~held a public hearing on the tentative WDRs during its regular Board meeting on the following date and time and at the following location:

Date: ~~May 6-8, 2020~~July 16-17, 2020

Time: 9:00 am - 5:00 pm

Location: ~~Central Coast Regional Water Quality Control Board Office
895 Aerovista Place, Suite 101~~

~~San Luis Obispo, California~~Link to video and teleconference was provided at https://www.waterboards.ca.gov/centralcoast/board_info/agendas/2020/2020_agendas.html

Interested persons ~~are~~were invited to attend. At the public hearing, the Central Coast Water Board ~~may~~heard testimony, pertinent to the discharge, WDRs, and permit. For accuracy of the record, important testimony ~~was~~is requested in writing.

D. Reconsideration of Waste Discharge Requirements

Any person aggrieved by this action of the Central Coast Water Board may petition the State Water Board to review the action in accordance with [California](#) Water Code section 13320 and CCR, Title 23, sections 2050 and following. The State Water Board must receive the petition within 30 calendar days of the Central Coast Water Board's action via email at waterqualitypetitions@waterboards.ca.gov or at the following address:

State Water Resources Control Board
Office of Chief Counsel
P.O. Box 100
Sacramento, CA 95812-0100

For instructions on how to file a petition for review, see the State Water Board's website on instructions for filing water quality petitions at: https://www.waterboards.ca.gov/public_notices/petitions/water_quality/wqpetition_inst.html.

E. Information and Copying

The Report of Waste Discharge, other supporting documents, and comments received are on file and may be inspected at the address above at any time between 8:00 a.m. and 5:00 p.m., Monday through Friday. Copying of documents may be arranged through the Central Coast Water Board by calling (805) 549-3147.

F. Register of Interested Persons

Any person interested in being placed on the mailing list for information regarding the WDRs and NPDES permit should contact the Central Coast Water Board, reference this Facility, and provide a name, address, and phone number.

G. Additional Information

Requests for additional information or questions regarding this Order should be directed to Tamara Anderson at (805) 549-3334 or tamara.anderson@waterboards.ca.gov or Phil Hammer at (805)-549-3882 or phillip.hammer@waterboards.ca.gov.