# CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

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Los Angeles Regional Water Quality Control Board

http://www.waterboards.ca.gov/losangeles/

# ORDER R4-2023-XXXX NPDES NUMBER CA0053813

# WASTE DISCHARGE REQUIREMENTS AND NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FOR THE JOINT OUTFALL SYSTEM JOINT WATER POLLUTION CONTROL PLANT

The following Discharger is subject to waste discharge requirements (WDRs) and federal National Pollutant Discharge Elimination System (NPDES) permit requirements, as set forth in this Order:

# **Table 1. Discharger Information**

Discharger	Joint Outfall System (JOS, Discharger, or Permittee)
Name of Facility	Joint Water Pollution Control Plant (JWPCP or Facility) and its associated wastewater collection system and outfalls
	24501 South Figueroa Street
Facility Address	Carson, CA 90745
	Los Angeles County

# **Table 2. Discharge Location**

Discharge Point	Effluent Description	Discharge Point Latitude (North)	Discharge Point Longitude (West)	Receiving Water
001	Secondary treated wastewater	33.6892°	-118.3167°	Pacific Ocean
002	Secondary treated wastewater	33.7008°	-118.3381°	Pacific Ocean
003	Secondary treated wastewater	33.7008°	-118.3300°	Pacific Ocean
004	Secondary treated wastewater	33.7061°	-118.3283°	Pacific Ocean

#### **Table 3. Administrative Information**

This Order was adopted on:	May 25, 2023
This Order shall become effective on:	July 1, 2023
This Order shall expire on:	June 30, 2028

The Discharger shall file a Report of Waste Discharge as an application for reissuance of WDRs in accordance with title 23, California Code of Regulations, and an application for reissuance of a NPDES permit no later than:	180 days prior to the Order expiration date.
The U.S. Environmental Protection Agency (USEPA) and the California Regional Water Quality Control Board, Los Angeles Region have classified this discharge as follows:	Major

I, Renee Purdy, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of the Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on the date indicated above.

For Renee Purdy, Executive Officer

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#### 1. FACILITY INFORMATION

Information describing the Joint Water Pollution Control Plant (JWPCP or Facility) is summarized on the cover page and in sections 1 and 2 of the Fact Sheet (Attachment F). Section 1 of the Fact Sheet also includes information regarding the Facility's permit application.

#### 2. FINDINGS

The California Regional Water Quality Control Board, Los Angeles Region (Los Angeles Water Board), finds:

- 2.1. Legal Authorities. This Order serves as waste discharge requirements (WDRs) pursuant to article 4, chapter 4, division 7 of the California Water Code (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 USEPA and chapter 5.5, division 7 of the 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.
- **2.2.** Background and Rationale for Requirements. The Los Angeles 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, G, H, I, and J are also incorporated into this Order.
- **2.3. Provisions and Requirements Implementing State Law**. The provisions and requirements implementing state law 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.
- **2.4. Notification of Interested Parties**. The Los Angeles Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe WDRs and NPDES permit requirements 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.
- **2.5. Consideration of Public Comment**. The Los Angeles Water Board, in a public meeting, heard and considered all comments pertaining to this Order. Details of the Public Hearing are provided in the Fact Sheet.

THEREFORE, IT IS HEREBY ORDERED that Order Number R4-2017-0180 is rescinded upon the effective date of this order except for enforcement purposes, and, in order to meet the provisions contained in Division 7 of the Water Code (commencing with section 13000) and regulations adopted thereunder, and the provisions of the CWA and regulations and guidelines adopted thereunder, the Discharger shall comply with the requirements in this Order. This action in no way prevents the Los Angeles Water Board from taking enforcement action for past violations of the previous Order.

#### 3. DISCHARGE PROHIBITIONS

- 3.1. Discharge of treated wastewater at a location different from that described in this Order is prohibited.
- 3.2. Discharges to Discharge Points 003 and 004 are prohibited, except during the following situations, provided that the use of Discharge Points 001 and 002 are maximized, and that the Los Angeles Water Board is notified, as described below:
  - 3.2.1. Emergency discharge of disinfected secondary effluent when the flow rate approaches the hydraulic capacity of Discharge Points 001 and 002 as determined by JWPCP Operations staff;
  - 3.2.2. Emergency discharge of disinfected secondary effluent during power outages in which back-up power supplies are inoperable or insufficient to pump all the secondary effluent through Discharge Points 001 and 002;
  - 3.2.3. Discharge of disinfected secondary effluent during planned preventative maintenance such as routine opening and closing of the outfall gate valves for exercising and lubrication; or,
  - 3.2.4. Discharge of disinfected secondary effluent and/or brine during major planned capital improvement projects when there is no other feasible alternative. Projects warranting such a diversion will be considered on a case-by-case basis and must be approved by the Executive Officer of the Los Angeles Water Board prior to diverting flow to Discharge Points 003 and 004.

The Permittee shall notify the Los Angeles Water Board a minimum of 30 days prior to discharging final effluent from Discharge Points 003 and 004 during a planned diversion such as preventative maintenance or capital improvement projects. This notification shall include the rationale for the discharge, the expected time, date, and the duration of the discharge.

- 3.3. The bypass or overflow of untreated wastewater or wastes to surface waters or surface water drainage courses is prohibited, except as allowed in Standard Provision 1.7. of Attachment D, Standard Provisions.
- 3.4. The monthly average effluent dry weather discharge flow rate from the Facility shall not exceed the dry weather flow capacity of 400 MGD.
- 3.5. The Discharger shall not cause degradation of any water body, except as consistent with State Water Resources Control Board (State Water Board) Resolution Number 68-16.
- 3.6. The treatment or disposal of wastes from the Facility shall not cause pollution or nuisance as defined in section 13050, subdivisions (I) and (m), of the Water Code.
- 3.7. The discharge of any toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in, human, animal, plant, or aquatic life is prohibited.
- 3.8. The discharge of trash to surface waters of the State or the deposition of trash where it may be discharged into surface waters of the State is prohibited.

- 3.9. The discharge of any radiological, chemical, or biological warfare agent or high-level radiological waste is prohibited.
- 3.10. Discharge to designated Areas of Special Biological Significance is prohibited.
- 3.11. Pipeline discharge of sludge to the ocean is prohibited by federal law. The discharge of municipal and industrial waste sludge directly to the ocean, or into a waste stream that discharges to the ocean, is prohibited by the California 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.
- 3.12. The discharge of any waste resulting from the combustion of toxic or hazardous wastes to any waste stream that ultimately discharges to waters of the United States is prohibited, unless specifically authorized elsewhere in this Order.

# 4. EFFLUENT LIMITATIONS, PERFORMANCE GOALS AND DISCHARGE SPECIFICATIONS

# 4.1. Effluent Limitations and Performance Goals – Discharge Points 001, 002, 003, and 004

Effluent limitations for Discharge Points 001, 002, 003 and 004 are specified below.

The performance goals for Discharge Points 001 and 002 are prescribed below in this Order. Performance goals are based upon actual performance data, test method minimum levels, and effluent limits, and are specified only as an indication of the treatment efficiency of the JWPCP (Refer to Fact Sheet section 5). Performance goals are not enforceable values but are used to evaluate the Facility's treatment efficiency. The Permittee shall maintain, if not improve, the effluent quality at or below the performance goal concentrations. Any two consecutive exceedances of a single performance goal shall trigger an investigation into the cause of the exceedance. If the exceedance persists in three successive monitoring periods, the Permittee shall submit a written report to the Los Angeles Water Board on the nature of the exceedance, the results of the investigation including the cause of the exceedance, the corrective actions taken, any proposed corrective measures, and a timetable for implementation, if necessary.

# 4.1.1. Final Effluent Limitations and Performance Goals – Discharge Points 001 and 002

a. The Discharger shall maintain compliance with the following effluent limitations in Table 4 at Discharge Points 001 and 002 into Pacific Ocean, with compliance measured at Monitoring Locations EFF-001, EFF-002A and EFF-002B as described in the Monitoring and Reporting Program (MRP), Attachment E.

Table 4. Effluent Limitations and Performance Goals at Discharge Points 001 and 002

Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instan- taneous Maximum	Annual Average	Performance Goals Average Monthly	Notes
Biochemical Oxygen Demand 5-day @ 20°C	mg/L	30	45					а
Biochemical Oxygen Demand 5-day @ 20°C	lbs/day	96,300	145,000					b
Total Suspended Solids	mg/L	30	45					а
Total Suspended Solids	lbs/day	96,300	145,000					b
Oil and Grease	mg/L	15	22.5	45	75			a, d
Oil and Grease	lbs/day	48,200	72,200	144,500	240,800			b
Settleable Solids	mL/L	0.5	0.75	1.5	3.0			a, d
Turbidity	NTU	75	100		225			a, d
Arsenic	μg/L						2.6	С
Cadmium	μg/L						1	С
Chromium (VI)	μ <b>g</b> /L						0.12	С
Copper	μg/L						3	С
Lead	μg/L						2.5	С
Mercury	μg/L						1	С
Nickel	μg/L						5	С
Selenium	μ <b>g</b> /L						6.1	С
Silver	μg/L						0.21	С
Zinc	μg/L						18	С
Cyanide	μg/L						7.4	
Chlorine Residual	μg/L	330		1,300	10,000			a, d, e
Chlorine Residual	lbs/day	1,100		4,300	32,200			b

Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instan- taneous Maximum	Annual Average	Performance Goals Average Monthly	Notes
Ammonia as N	mg/L						49	
Phenolic compounds (non-chlorinated)	μ <b>g/L</b>						2.2	f
Phenolic compounds (chlorinated)	μg/L						1	f
Endosulfan	μg/L						0.05	f
Endrin	μg/L						0.05	
Hexachlorocyclohexane (HCH)	μ <b>g/L</b>						0.02	f
Chronic toxicity Macrocystis pyrifera	Pass or Fail (TST)			Pass				a, e, g
Radioactivity, Gross alpha	pCi/L						10.9	
Radioactivity, Gross beta	pCi/L			-			30.5	1
Acrolein	μg/L						10	
Antimony	μ <b>g</b> /L						2.7	С
Bis(2-chloroethoxy) methane	μ <b>g/L</b>						25	
Bis(2-chloroisopropyl) ether	μg/L						10	
Chlorobenzene	μg/L						2.5	
Chromium (III)	μg/L						2.4	С
Di-n-butyl-phthalate	μg/L						50	
Dichlorobenzenes	μg/L			-			10	f
Diethyl phthalate	μg/L			-			10	
Dimethyl phthalate	μg/L			-			10	

Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instan- taneous Maximum	Annual Average	Performance Goals Average Monthly	Notes
2-Methyl-4,6-dinitrophenol	μg/L						25	
2,4-Dinitrophenol	μg/L						25	
Ethylbenzene	μg/L						2.5	1
Fluoranthene	μg/L						5	
Hexachlorocyclopentadiene	μg/L						25	
Nitrobenzene	μg/L						5	
Thallium	μg/L						5	С
Toluene	μ <b>g</b> /L						0.74	
Tributyltin	μg/L						0.01	
1,1,1-Trichloroethane	μ <b>g</b> /L						2.5	
Acrylonitrile	μg/L						10	
Aldrin	μ <b>g</b> /L	0.0037						a, e
Aldrin	lbs/day	0.012						b
Benzene	μg/L						2.5	
Benzidine	μg/L	0.012						a, e
Benzidine	lbs/day	0.039						b
Beryllium	μg/L						2.5	С
Bis(2-chloroethyl) ether	μg/L						5	1
Bis(2-ethylhexyl) phthalate	μg/L						25	1
Carbon tetrachloride	μg/L						2.5	
Chlordane	μg/L	0.0038						a, e, f
Chlordane	lbs/day	0.012						b
Chlorodibromomethane	μg/L						0.56	
Chloroform	μg/L						20	

Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instan- taneous Maximum	Annual Average	Performance Goals Average Monthly	Notes
DDT	μg/L	0.0158					0.00017	a, f
DDT	g/yr	-		1		8,717		f, h
1,4-Dichlorobenzene	μg/L						2.5	
3,3'-Dichlorobenzidine	μ <b>g</b> /L	1.4						a, e
3,3'-Dichlorobenzidine	lbs/day	4.5						b
1,2-Dichloroethane	μg/L						2.5	
1,1-Dichloroethylene	μ <b>g</b> /L						2.5	
Bromodichloromethane	μ <b>g</b> /L						1.1	
Dichloromethane	μ <b>g</b> /L						2.8	
1,3-Dichloropropene	μ <b>g</b> /L						25	
Dieldrin	μ <b>g</b> /L	0.0067						a, e
Dieldrin	lbs/day	0.021						b
2,4-Dinitrotoluene	μ <b>g</b> /L						25	
1,2-Diphenylhydrazine	μ <b>g</b> /L						5	
Halomethanes	μ <b>g</b> /L						10	f
Heptachlor	μg/L						0.05	
Heptachlor epoxide	μ <b>g</b> /L						0.05	
Hexachlorobenzene	μ <b>g</b> /L	0.035						a, e
Hexachlorobenzene	lbs/day	0.11		-				b
Hexachlorobutadiene	μg/L			-			5	
Hexachloroethane	μg/L						5	
Isophorone	μg/L						5	
N-Nitrosodimethylamine	μg/L						0.33	
N-Nitrosodi-N-propylamine	μ <b>g</b> /L						25	

Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instan- taneous Maximum	Annual Average	Performance Goals Average Monthly	Notes
N-Nitrosodiphenylamine	μg/L						5	
PAHs	μg/L						0.95	f
PCBs as aroclors	μg/L	0.00035						a, f
PCBs as aroclors	g/yr					194		f, h
TCDD equivalents	pg/L	0.65						a, e, f
TCDD equivalents	lbs/day	2.1x10 <sup>-6</sup>						b
1,1,2,2-Tetrachloroethane	μg/L						2.5	
Tetrachloroethylene	μg/L						0.55	
Toxaphene	μg/L	0.035						a, e
Toxaphene	lbs/day	0.11						b
Trichloroethylene	μg/L						2.5	
1,1,2-Trichloroethane	μg/L						2.5	
2,4,6-Trichlorophenol	μg/L						0.29	
Vinyl chloride	μg/L						2.5	

# **Footnotes for Table 4**

- a. The maximum daily, average weekly and average monthly effluent limitations shall apply to flow weighted 24-hour composite samples. They may apply to grab samples if the collection of composite samples for those constituents is not appropriate because of the instability of the constituents.
- b. The mass emission rates are calculated using 385 MGD, consistent with the water-quality based limits in the previous permit:  $lbs/day = 0.00834 \times Ce$  (effluent concentration in  $\mu g/L$ ) x Q (flow rate in MGD).
- c. Values are expressed as total recoverable concentrations.
- d. The instantaneous maximum effluent limitations shall apply to grab samples.
- e. The minimum dilution ratios used to calculate effluent limitations for nonconventional and toxic pollutants for Discharge Points 001 and 002 are 166:1 (i.e., 166-parts seawater to one-part effluent) for all pollutants.

- f. See section 8 of this Order and Attachment A for definitions of terms.
- g. The Chronic Toxicity final effluent limitation is protective of both the numeric acute and chronic toxicity 2019 Ocean Plan water quality objectives. The final effluent limitation will be implemented using Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (EPA/600/R-95/136, 1995), current USEPA guidance in the National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, June 2010) (http://www3.epa.gov/npdes/pubs/wet\_final\_tst\_implementation2010.pdf) and EPA Regions 8, 9, and 10, Toxicity Training Tool (January 2010).
- h. Consistent with the Santa Monica Bay TMDL for DDTs and PCBs, the calculation of the annual mass emissions shall be calculated using the arithmetic average of available monthly mass emissions as follows:

$$Annual\ \textit{Mass Emission, g/year} = \left(\frac{\sum \textit{Monthly Mass Emission, g/month}}{\textit{Number of Monthly Mass Emissions Calculated}}\right) * 12\ \textit{months/year}$$

$$Monthly \ Mass \ Emission, kg/month = \left(\frac{3{,}785}{N}\right) * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * 30.5 = \frac{0.1154425}{N} * \left(\sum_{i$$

 $C_i$  = DDT or PCB concentration of each individual sample (ng/L)

Q<sub>i</sub> = discharger flow rate on date of sample (mgd)

N = number of samples collected during the month

The total mass load for DDT and PCB from the Joint Water Pollution Control Plant, Hyperion Treatment Plant, and West Basin's Water Reclamation Plant shall not be more than 14,567 g/yr for DDT and 351 g/yr for PCB. The Permittee is deemed in compliance with these group water-quality-based effluent limitations for DDT and PCBs if it is in compliance with the individual mass-based Annual Average Effluent Limitations for DDT and PCBs.

### **End of Footnotes for Table 4**

# 4.1.2. Effluent Limitations - Discharge Point 003

a. The Discharger shall maintain compliance with the following effluent limitations in Table 5 at Discharge Point 003 into Pacific Ocean, with compliance measured at Monitoring Locations EFF-001 and EFF-002A as described in the MRP, Attachment E.

**Table 5. Effluent Limitations at Discharge Point 003** 

Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instan- taneous Maximum	Annual Average	Notes
Chlorine Residual	μg/L	300		1,200	9,100		a, b, c, d
Chlorine Residual	lbs/day	960		3,900	29,200		е
Aldrin	μg/L	0.0033					a, b, d
Aldrin	lbs/day	0.011					е
Benzidine	μg/L	0.01					a, b, d
Benzidine	lbs/day	0.033					е
Chlordane	μg/L	0.003					a, b, d, f
Chlordane	lbs/day	0.011					е
DDT	μg/L	0.0158					a, b, f
DDT	g/yr					8,717	f, g
3,3'-Dichlorobenzidine	μg/L	1.2					a, b, d
3,3'-Dichlorobenzidine	lbs/day	3.9					е
Dieldrin	μg/L	0.0060					a, b, d
Dieldrin	lbs/day	0.019					е
Hexachlorobenzene	μg/L	0.032					a, b, d
Hexachlorobenzene	lbs/day	0.10					е
PCBs as aroclors	μg/L	0.00351					a, b, f
PCBs as aroclors	g/yr					194	f, g
TCDD equivalents	pg/L	0.59					a, b, d, f
TCDD equivalents	lbs/day	1.9x10 <sup>-6</sup>					е
Toxaphene	μg/L	0.032					a, b, d
Toxaphene	lbs/day	0.10					е

# **Footnotes for Table 5**

- a. For intermittent discharges, the daily value used to calculate these average monthly and average weekly values shall be considered to equal zero for days on which no discharge occurred.
- b. The maximum daily, average weekly, and average monthly effluent limitations shall apply to flow weighted 24-hour composite samples. They may apply to grab samples if the collection of composite samples for those constituents is not appropriate because of the instability of the constituents.
- c. The instantaneous maximum effluent limitations shall apply to grab samples.
- d. The minimum dilution ratios used to calculate effluent limitations for nonconventional and toxic pollutants for Discharge Point 003 is 150:1 for all (i.e., 150-parts seawater to one-part effluent).
- e. The mass emission rates are calculated using 385 MGD, consistent with the water-quality based limits in the previous permit:  $lbs/day = 0.00834 \times Ce$  (effluent concentration in  $\mu g/L$ ) x Q (flow rate in MGD).
- f. See section 8 of this Order and Attachment A for definitions of terms.
- g. Consistent with the Santa Monica Bay TMDL for DDTs and PCBs, the calculation of the annual mass emissions shall be calculated using the arithmetic average of available monthly mass emissions as follows:

$$Annual\ Mass\ Emission,\ g/year = \left(\frac{\sum Monthly\ Mass\ Emission,\ g/month}{Number\ of\ Monthly\ Mass\ Emissions\ Calculated}\right)*\ 12\ months/year$$

$$Monthly \ Mass \ Emission, kg/month = \left(\frac{3{,}785}{N}\right) * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * 30.5 = \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right)$$

 $C_i$  = DDT or PCB concentration of each individual sample (ng/L)

Q<sub>i</sub> = discharger flow rate on date of sample (mgd)

N = number of samples collected during the month

The total mass load for DDT and PCB from the Joint Water Pollution Control Plant, Hyperion Treatment Plant, and West Basin's Water Reclamation Plant shall not be more than 14,567 g/yr for DDT and 351 g/yr for PCB. The Permittee is deemed in compliance with these group water-quality-based effluent limitations for DDT and PCBs if it is in compliance with the individual mass-based Annual Average Effluent Limitations for DDT and PCBs.

#### **End Footnotes for Table 5**

# 4.1.3. Effluent Limitations - Discharge Point 004

a. The Discharger shall maintain compliance with the following effluent limitations in Table 6 at Discharge Point 004 into Pacific Ocean, with compliance measured at Monitoring Locations EFF-001 and EFF-002B as described in the MRP, Attachment E.

Table 6. Effluent Limitations at Discharge Point 004

Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instan- taneous Maximum	Annual Average	Notes
Chlorine Residual	μg/L	230		930	7,000		a, b, c, d
Chlorine Residual	lbs/day	740		3,000	22,500		е
Aldrin	μg/L	0.0026					a, b, d
Aldrin	lbs/day	0.0083					е
Benzidine	μg/L	0.008					a, b, d
Benzidine	lbs/day	0.026					е
Chlordane	μg/L	0.003					a, b, d, f
Chlordane	lbs/day	0.0086					е
DDT	μg/L	0.0158					a, b, f
DDT	g/yr					8,717	f, g
3,3'-Dichlorobenzidine	μg/L	0.93					a, b, d
3,3'-Dichlorobenzidine	lbs/day	3.0					е
Dieldrin	μg/L	0.0046					a, b, d
Dieldrin	lbs/day	0.0015					е
Hexachlorobenzene	μg/L	0.024					a, b, d
Hexachlorobenzene	lbs/day	0.078					е
PCBs as aroclors	µg/L	0.00351					a, b, f
PCBs as aroclors	g/yr					194	f, g
TCDD equivalents	pg/L	0.45					a, b, d, f

Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instan- taneous Maximum	Annual Average	Notes
TCDD equivalents	lbs/day	1.5x10 <sup>-6</sup>					е
Toxaphene	μg/L	0.024					a, b, d
Toxaphene	lbs/day	0.078				1	е

# **Footnotes for Table 6**

- a. For intermittent discharges, the daily value used to calculate these average monthly and average weekly values shall be considered to equal zero for days on which no discharge occurred.
- b. The maximum daily, average weekly, and average monthly effluent limitations shall apply to flow weighted 24-hour composite samples. They may apply to grab samples if the collection of composite samples for those constituents is not appropriate because of the instability of the constituents.
- c. The instantaneous maximum effluent limitations shall apply to grab samples.
- d. The minimum dilution ratios used to calculate effluent limitations for nonconventional and toxic pollutants for Discharge Point 004 is 115:1 for all (i.e., 115-parts seawater to one-part effluent).
- e. The mass emission rates are calculated using 385 MGD, consistent with the water-quality based limits in the previous permit:  $lbs/day = 0.00834 \times Ce$  (effluent concentration in  $\mu g/L$ ) x Q (flow rate in MGD).
- f. See section 8 of this Order and Attachment A for definitions of terms.
- g. Consistent with the Santa Monica Bay TMDL for DDTs and PCBs, the calculation of the annual mass emissions shall be calculated using the arithmetic average of available monthly mass emissions as follows:

$$Annual\ Mass\ Emission, g/year = \left(\frac{\sum Monthly\ Mass\ Emission,\ g/month}{Number\ of\ Monthly\ Mass\ Emissions\ Calculated}\right)*\ 12\ months/year$$

Monthly Mass Emission, 
$$kg/month = \left(\frac{3,785}{N}\right) * \left(\sum_{i=1}^{N} Q_i C_i\right) * 30.5 = \frac{0.1154425}{N} * \left(\sum$$

 $C_i$  = DDT or PCB concentration of each individual sample (ng/L)

Q<sub>i</sub> = discharger flow rate on date of sample (mgd)

N = number of samples collected during the month

The total mass load for DDT and PCB from the Joint Water Pollution Control Plant, Hyperion Treatment Plant, and West Basin's Water Reclamation Plant shall not be more than 14,567 g/yr for DDT and 351 g/yr for PCB. The Permittee is deemed in compliance with these group water-quality-based effluent limitations for DDT and PCBs if it is in compliance with the individual mass-based Annual Average Effluent Limitations for DDT and PCBs.

#### **End Footnotes for Table 6**

# 4.1.4. Other Effluent Limitations - Discharge Point 001, 002, 003, and 004

- a. **Percent Removal:** The average monthly percent removal of BOD<sub>5</sub>20°C and TSS shall not be less than 85 percent.
- b. **Temperature:** The temperature of wastes discharged shall not exceed 100°F.
- c. **pH:** The effluent values for pH shall be maintained within the limits of 6.0 standard units and 9.0 standard units at all times.
- d. **Radioactivity:** Not to exceed limits specified in Title 17, Division 1, Chapter 5, Subchapter 4, Group 3, Article 3, Section 30253 of the California Code of Regulations. Reference to section 30253 is prospective, including future changes to any incorporated provisions of federal law, as the changes take effect.
- e. The Discharger shall ensure that bacterial concentrations in the effluent do not cause or contribute to exceedances at shoreline monitoring points or bacteriological objectives contained in Chapter 3 of the Water Quality Control Plan Los Angeles Region (*Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties*; hereinafter, Basin Plan) during summer dry weather, winter dry weather and wet weather, as specified in section 7-4 of the Basin Plan.
- f. Waste discharged to the ocean must be essentially free of
  - i. Material that is floatable or will become floatable upon discharge.
  - ii. Settleable material or substances that may form sediments which will degrade benthic communities or other aquatic life.
  - iii. Substances that will accumulate to toxic levels in marine waters, sediments or biota.
  - iv. Substances that significantly decrease the natural light to benthic communities and other marine life.
  - v. Materials that result in aesthetically undesirable discoloration of the ocean surface.

# **4.1.5.** Interim Effluent Limitations – Not Applicable

# 4.2. Land Discharge Specifications – Not Applicable

# 4.3. Recycling Specifications

The Discharger has partnered with Metropolitan Water District on Pure Water Southern California, a program that will ultimately lead to recycling of about 150mgd of JWPCP secondary effluent. The Discharger shall continue to investigate the feasibility of recycling, conservation, and/or alternative disposal methods for wastewater (such as groundwater injection), and/or capture and treatment of dry-weather urban runoff and stormwater on a permissive basis for beneficial reuse. The Discharger shall submit an update to this feasibility study as part of the submittal of the Report of Waste Discharge for the next permit renewal.

#### 5. MASS EMISSION BENCHMARKS

The following mass emission benchmarks, in metric tons per year (MT/yr), have been established for the discharge through Discharge Points 001 and 002. The Discharger shall monitor and report the mass emission rate for all constituents that have mass emission benchmarks. These mass emission benchmarks are not enforceable water quality-based effluent limitations. The mass emission benchmarks (in MT/yr) for the JWPCP discharge were determined using November 2017 through June 2022 effluent concentrations, the performance goal, and the 1997 average design dry weather flow of 385 MGD.

**Table 7. Twelve Month Average Effluent Mass Emission Benchmarks** 

Ocean Plan Constituent	12-month Average Mass Emission Benchmarks (MT/yr)	Notes
Arsenic	1.4	а
Cadmium	0.53	а
Chromium VI	0.064	а
Copper	1.6	а
Lead	1.3	а
Mercury	0.53	а
Nickel	2.7	а
Selenium	3.2	а
Silver	0.11	а
Zinc	9.7	а
Cyanide	4.0	
Ammonia as N	26,000	
Phenolic Compounds (non-chlorinated)	1.2	b
Phenolic Compounds (chlorinated)	0.53	b
Endosulfan	0.027	b
Endrin	0.027	

Ocean Plan Constituent	12-month Average Mass Emission Benchmarks (MT/yr)	Notes
Hexachlorocyclohexane (HCH)	0.011	b
Acrolein	5.3	
Antimony	1.4	
Bis(2-chloroethoxy) methane	13	
Bis(2-chloroisopropyl) ether	5.3	
Chlorobenzene	1.3	
Chromium (III)	1.3	а
Di-n-butyl phthalate	27	
Dichlorobenzenes	5.3	b
Diethyl phthalate	5.3	
Dimethyl phthalate	5.3	
4,6-dinitro-2-methylphenol	13	
2,4-dinitrophenol	13	
Ethylbenzene	1.3	
Fluoranthene	2.7	
Hexachlorocyclopentadiene	13	
Nitrobenzene	2.7	
Thallium	2.7	а
Toluene	0.39	
Tributyltin	0.0053	
1,1,1-trichloroethane	1.3	
Acrylonitrile	5.3	
Benzene	1.3	
Beryllium	1.3	а
Bis(2-chloroethyl) ether	2.7	
Bis(2-ethylhexyl) phthalate	13	
Carbon tetrachloride	1.3	
Chlorodibromomethane	0.30	
Chloroform	11	
DDT total	0.00009	b
1,4-dichlorobenzene	1.3	
1,2-dichloroethane	1.3	
1,1-dichloroethylene	1.3	
Dichlorobromomethane	0.59	

Ocean Plan Constituent	12-month Average Mass Emission Benchmarks (MT/yr)	Notes
Dichloromethane	1.5	
1,3-dichloropropene	13	
2,4-dinitrotoluene	13	
1,2-diphenylhydrazine	2.7	
Halomethanes	5.3	b
Heptachlor	0.027	
Heptachlor epoxide	0.027	
Hexachlorobutadiene	2.7	
Hexachloroethane	2.7	
Isophorone	2.7	
N-nitrosodimethylamine	0.18	
N-nitrosodi-n-propylamine	13	
N-nitrosodiphenylamine	2.7	
PAHs	0.51	b
1,1,2,2-tetrachloroethane	1.3	
Tetrachloroethylene	0.29	
Trichloroethylene	1.3	
1,1,2-trichloroethane	1.3	
2,4,6-trichlorophenol	0.15	
Vinyl chloride	1.3	

#### Footnotes for Table 7

- a. Values reflect the mass of total recoverable metals.
- b. See Attachment A for definitions of terms.

#### **End Footnotes for Table 7**

#### 6. RECEIVING WATER LIMITATIONS

The Discharger shall not cause a violation of the following water quality objectives. Compliance with these water quality objectives shall be determined by samples collected at stations outside the zone of initial dilution as specified in the MRP. Offshore station 2903 is the only station within the zone of initial dilution.

#### 6.1. Surface Water Limitations

#### 6.1.1. Bacterial Characteristics

a. State/Regional 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 further from the shoreline,

and in areas outside this zone used for water contact sports, as determined by the Los Angeles Water Board (i.e., waters designated as REC-1), but including all kelp beds, the following bacterial objectives shall be maintained throughout the water column.

- i. <u>Fecal coliform:</u> A 30-day geometric mean (GM) 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 (SSM) not to exceed 400 per 100 mL.
- ii. <u>Enterococci</u>: A six-week rolling GM of Enterococci not to exceed 30 colony forming units (cfu) or most probable number (MPN) 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. USEPA recommends using USEPA Method 1600 or other equivalent method to measure culturable Enterococci.
- b. The Initial Dilution Zone for any wastewater outfall shall be excluded from designation as kelp beds for 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.
- c. Shellfish Harvesting Standards

At all areas where shellfish may be harvested for human consumption, as determined by the Los Angeles Water Board, the following bacterial objectives shall be maintained throughout the water column: The median total coliform density for any 6-month period shall not exceed 70 per 100 mL, and not more than 10 percent of the samples shall exceed 230 per 100 mL for any six-month period.

## 6.1.2. Physical Characteristics

The waste discharged shall not:

- a. result in floating particulates and oil and grease to be visible;
- b. cause aesthetically undesirable discoloration on the ocean surface;
- significantly reduce the transmittance of natural light at any point outside the initial dilution zone;
- d. change the rate of deposition of inert solids and the characteristics of inert solids in ocean sediments such that benthic communities are degraded; and
- e. cause trash to be present in ocean waters, along shorelines or adjacent areas in amounts that adversely affect beneficial uses or cause nuisance.

# 6.1.3. Chemical Characteristics

The waste discharged shall not:

 a. cause the dissolved oxygen concentration at any time to be depressed more than 10 percent from that which occurs naturally, as a result of the discharge of oxygen demanding waste;

- b. change the pH of the receiving waters at any time more than 0.2 units from that which occurs naturally;
- c. cause the dissolved sulfide concentration of waters in and near sediments to be significantly increased above that present under natural conditions;
- d. cause concentration of substances (as set forth in Chapter II, Table 3 of the 2019
   Ocean Plan) in marine sediments to be increased to levels that would degrade
   indigenous biota;
- e. cause the concentration of organic materials in marine sediments to be increased to levels that would degrade marine life;
- f. contain nutrients at levels that will cause objectionable aquatic growths or degrade indigenous biota;
- g. cause total chlorine residual to persist in the receiving water and shall not persist
  in the receiving water at any concentration that causes impairment of beneficial
  uses;
- h. produce concentrations of substances in the receiving water that are toxic to or cause detrimental physiological responses, in human, animal, or aquatic life; and
- i. contain individual pesticides or combinations of pesticides in concentrations that adversely affect beneficial uses.

# 6.1.4. Biological Characteristics

The waste discharged shall not:

- a. degrade marine communities, including vertebrate, invertebrate, and plant species;
- b. alter the natural taste, odor, and color of fish, shellfish, or other marine resources used for human consumption;
- c. cause the concentration of organic materials in fish, shellfish or other marine resources used for human consumption to bioaccumulate to levels that are harmful to human health; and
- d. contain substances that result in biochemical oxygen demand that adversely affects the beneficial uses of the receiving water.

# 6.1.5. Radioactivity

Discharge of radioactive waste shall not degrade marine life.

# **6.2. Groundwater Limitations – Not Applicable**

#### 7. PROVISIONS

#### 7.1. Standard Provisions

- 7.1.1. The Permittee shall comply with all Standard Provisions included in Attachment D of this Order.
- 7.1.2. **Los Angeles Water Board Standard Provisions**. The Discharger shall comply with the following provisions. If there is any conflict, duplication, or overlap

between provisions specified by this Order, the more stringent provision shall apply:

- a. Neither the treatment nor the discharge of pollutants shall create pollution, contamination, or nuisance as defined by section 13050 of the Water Code.
- b. Odors, vectors, and other nuisances of sewage or sludge origin beyond the limits of the treatment plant site or the sewage collection system due to improper operation of facilities (such as failure to implement appropriate best management practices) and/or spills, bypass, or overflow of sewage or sludge, as determined by the Los Angeles Water Board, are prohibited.
- c. All facilities used for collection, transport, treatment, or disposal of wastes shall be adequately protected against damage resulting from overflow, washout, or inundation from a storm or flood having a 1-percent chance of occurring in a 24-hour period in any given year.
- d. Collection, treatment, and disposal systems shall be operated in a manner that precludes or impedes public contact with wastewater.
- e. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of in a manner approved by the Executive Officer of the Los Angeles Water Board.
- f. The provisions of this Order are severable. If any provision of this Order or the application of any provision of this Order is found invalid, the remainder of this Order shall not be affected.
- g. Nothing in this Order shall be construed to preclude the institution of any legal action or relieve the Discharger from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation under authority preserved by section 510 of the CWA.
- h. Nothing in this Order shall be construed to preclude the institution of any legal action or relieve the Discharger from any responsibilities, liabilities or penalties to which the Discharger is or may be subject to under section 311 of the CWA, related to oil and hazardous substances liability.
- i. The Discharger shall comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies regarding discharges of stormwater to storm drain systems or other water courses under their jurisdiction, including applicable requirements in municipal stormwater management programs developed to comply with the NPDES permit(s) issued by the Los Angeles Water Board to local agencies.
- j. The Discharger shall comply with all applicable effluent limitations, national standards of performance, toxic effluent standards, and all federal regulations established pursuant to sections 301, 302, 303(d), 304, 306, 307, 316, 403, and 405 of the federal CWA and amendments thereto.
- k. These requirements do not exempt the Discharger from compliance with any other laws, regulations, or ordinances which may be applicable; they do not legalize this Facility; and they leave unaffected any further restraints on the

- disposal of wastes at this site which may be contained in other statutes or required by other agencies.
- I. The Discharger shall make diligent, proactive efforts to reduce Facility infrastructure vulnerability to current and future impacts resulting from climate change, including but not limited to extreme wet weather events, flooding, storm surges, and projected sea level rise when the facility is located near the ocean or discharges to the ocean.
- m. Oil or oily material, chemicals, refuse, or other polluting materials shall not be stored or deposited in areas where they may be picked up by rainfall and carried off the property and/or discharged to surface waters. Any such spill of such materials shall be contained and removed immediately.
- n. A copy of these waste discharge specifications shall be maintained at the discharge Facility and be available at all times to operating personnel.
- o. If there is any storage of hazardous or toxic materials or hydrocarbons at this Facility and if the Facility is not manned at all times, a 24-hour emergency response telephone number shall be prominently posted where it can easily be read from the outside.
- p. The Discharger shall file with the Los Angeles Water Board a report of waste discharge at least 120 days before making any proposed change in the character, location or volume of the discharge.
- q. In the event of any change in name, ownership, or control of these waste disposal facilities, the Discharger shall notify the Los Angeles Water Board of such change and shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to the Los Angeles Water Board and USEPA, 30 days prior to taking effect.
- r. The Discharger shall notify the Los Angeles Water Board Executive Officer in writing no later than 6 months prior to planned discharge of any chemical, other than the products previously reported to the Los Angeles Water Board Executive Officer, which may be toxic to aquatic life. Such notification shall include:
  - i. Name and general composition of the chemical,
  - ii. Frequency of use,
  - iii. Quantities to be used,
  - iv. Proposed discharge concentrations, and
  - v. USEPA registration number, if applicable.
- s. Failure to comply with provisions or requirements of this Order, or violation of other applicable laws or regulations governing discharges from this Facility, may subject the Discharger to administrative or civil liabilities, criminal penalties, and/or other enforcement remedies to ensure compliance. Additionally, certain violations may subject the Discharger to civil or criminal enforcement from appropriate local, state, or federal law enforcement entities.

- t. Water Code section 13385(h)(i) requires the Los Angeles Water Board to assess a mandatory minimum penalty of three-thousand dollars (\$3,000) for each serious violation. Pursuant to Water Code section 13385(h)(2), a "serious violation" is defined as any waste discharge that violates the effluent limitations contained in the applicable waste discharge requirements for a Group II pollutant by 20 percent or more, or for a Group I pollutant by 40 percent or more. Appendix A in title 40 of the Code of Federal Regulations (40 CFR) section 123.45 specifies the Group I and II pollutants. Pursuant to Water Code section 13385.1(a)(1), a "serious violation" is also defined as "a failure to file a discharge monitoring report required pursuant to section 13383 for each complete period of 30 days following the deadline for submitting the report, if the report is designed to ensure compliance with limitations contained in waste discharge requirements that contain effluent limitations."
- u. Water Code section 13385(i) requires the Los Angeles Water Board to assess a mandatory minimum penalty of three-thousand dollars (\$3,000) for each violation whenever a person violates a waste discharge requirement effluent limitation four or more times in any period of six consecutive months, except that the requirement to assess the mandatory minimum penalty shall not be applicable to the first three non-serious violations within that time period.
- v. The CWC provides that any person who violates a waste discharge requirement or a provision of the CWC is subject to civil penalties of up to \$5,000 per day, \$10,000 per day, or \$25,000 per day of violation, or when the violation involves the discharge of pollutants, is subject to civil penalties of up to \$10 per gallon per day or \$25 per gallon per day of violation, or some combination thereof, depending on the violation, or upon the combination of violations. Violation of any of the provisions of the applicable statutes and regulations or any provisions of this Order may subject the violator to any of the penalties described herein, or any combinations thereof, at the discretion of the prosecuting authority; except that only one kind of penalty may be applied for each kind of violation.
- w. Pursuant to Water Code section 13385.1(d), for the purposes of section 13385.1 and subdivisions (h), (i), and (j) of section 13385, "effluent limitation" means a numeric restriction or a numerically expressed narrative restriction, on the quantity, discharge rate, concentration, or toxicity units of a pollutant or pollutants that may be discharged from an authorized location. An effluent limitation may be final or interim and may be expressed as a prohibition. An effluent limitation, for these purposes, does not include a receiving water limitation, a compliance schedule, or a best management practice.
- x. Water Code section 13387(e) provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Order, including monitoring reports or reports of compliance or noncompliance, or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained in this Order is subject to a fine of not more than twenty-five thousand dollars (\$25,000), by imprisonment pursuant to subdivision (h) of Section 1170 of the Penal Code for 16, 20, or 24 months, or by both that fine and imprisonment. For a subsequent conviction, such a person shall be

punished by a fine of not more than twenty-five thousand dollars (\$25,000) per day of violation, by imprisonment pursuant to subdivision (h) of Section 1170 of the Penal Code for two, three, or four years, or by both that fine and imprisonment.

y. In the event the Discharger does not comply or will be unable to comply for any reason, with any prohibition, effluent limitation, or receiving water limitation of this Order that may endanger health or the environment, the Discharger shall notify the Manager of the Watershed Regulatory Section at the Los Angeles Water Board by telephone (213) 576-6616 or by fax at (213) 576-6660 within 24 hours of having knowledge of such noncompliance, and shall confirm this notification in writing to the Los Angeles Water Board within five days, unless the Los Angeles Water Board waives confirmation. The written notification shall state the nature, time, duration, and cause of noncompliance, and shall describe the measures being taken to remedy the current noncompliance and prevent recurrence including, where applicable, a schedule of implementation. The written notification shall also be submitted via email with reference to CI-1758 to losangeles@waterboards.ca.gov. Other noncompliance requires written notification as above at the time of the normal monitoring report.

# 7.2. Monitoring and Reporting Program (MRP) Requirements

The Discharger shall comply with the MRP, and future revisions thereto, in Attachment E of this Order.

# 7.3. Special Provisions

#### 7.3.1. Reopener Provisions

- a. This Order may be modified, revoked and reissued, or terminated for cause, including, but not limited to:
  - i. Violation of any term or condition contained in this Order;
  - ii. Obtaining this Order by misrepresentation, or by failure to disclose fully all relevant facts; or
  - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- b. The filing of a request by the Discharger for an Order modification, revocation, issuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this Order.
- c. This Order may be reopened and modified to incorporate new limits based on future reasonable potential analyses to be conducted based on on-going monitoring data collected by the Discharger and evaluated by the Los Angeles Water Board.
- d. This Order may be reopened and modified to incorporate new mass emission rates based on JWPCP's current design capacity of 400 MGD provided that the Discharger requests and conducts an antidegradation analysis to demonstrate that the change is consistent with the state and federal antidegradation policies.

- e. This Order may be modified, in accordance with the provisions set forth in 40 CFR parts 122 and 124 to incorporate requirements for the implementation of a watershed protection management approach.
- f. The Los Angeles Water Board may modify, or revoke and reissue this Order if present or future investigations demonstrate that the discharge(s) governed by this Order will cause, have the potential to cause, or will contribute to adverse impacts on water quality or beneficial uses of the receiving waters.
- g. This Order may also be modified, revoked, and reissued or terminated in accordance with the provisions of 40 CFR sections 122.44, 122.62 to 122.64, 125.62, and 125.64. Causes for taking such actions include, but are not limited to, failure to comply with any condition of this Order, endangerment to human health or the environment resulting from the permitted activity, or acquisition of newly obtained information which would have justified the application of different conditions if known at the time of Order adoption and issuance. The filing of a request by the Discharger for an Order modification, revocation, issuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this Order.
- h. This Order may be reopened and modified to incorporate conforming monitoring requirements and schedule dates for implementation of the Comprehensive Monitoring Program for Santa Monica Bay (Commission with Santa Monica Bay National Estuary Program, April 2021).
- i. This Order may be modified, in accordance with the provisions set forth in 40 CFR parts 122 to 124, to include new minimum levels (MLs).
- j. If an applicable toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under section 307(a) of the CWA for a toxic pollutant and that standard or prohibition is more stringent than any limitation on the pollutant in this Order, the Los Angeles Water Board may institute proceedings under these regulations to modify or revoke and reissue the Order to conform to the toxic effluent standard or prohibition.
- k. The filing of a request by the Permittee for an Order modification, revocation, issuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this Order.
- I. If more stringent applicable water quality standards are promulgated or approved pursuant to section 303 of the CWA, or amendments, thereto, the Los Angeles Water Board will revise and modify this Order in accordance with such standards.
- m. This Order may be reopened and modified to revise effluent limitations as a result of future Basin Plan amendments or the adoption or revision of a TMDL associated with the Santa Monica Bay Watershed Management Areas.
- n. This Order will be reopened and modified to the extent necessary, to be consistent with new or revised policies, new or revised state-wide plans, new laws, or new regulations.

# 7.3.2. Special Studies, Technical Reports and Additional Monitoring Requirements

# a. Toxicity Reduction Requirements

The Discharger shall prepare and submit a copy of the Discharger's initial investigation Toxicity Reduction Evaluation (TRE) workplan in accordance with MRP section 5.8.

# b. Treatment Plant Capacity

The Discharger shall submit a written report to the Executive Officer of the Los Angeles Water Board within 90 days after the "30-day (monthly) average" daily dry-weather flow equals or exceeds 75 percent of the design capacity (0.75 x 400 MGD = 300 MGD) of waste treatment and/or disposal facilities. The Discharger's senior administrative officer shall sign a letter, which transmits that report and certifies that the Discharger's policy-making body is adequately informed of the report's contents. The report shall include the following:

- i. The average daily flow for the calendar month, the date on which the peak flow occurred, the rate of that peak flow, and the total flow for the day;
- ii. The best estimate of when the monthly average daily dry-weather flow rate will equal or exceed the design capacity of the POTW; and
- iii. 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.

This requirement is applicable in the case where the facility has not reached 75 percent of capacity as of the effective date of this Order. If the facility has reached 75 percent of capacity by that date but has not previously submitted such report, such a report shall be filed within 90 days of the issuance of this Order.

#### 7.3.3. Best Management Practices and Pollution Prevention

### a. Stormwater Pollution Prevention Plan (SWPPP)

The JWPCP is regulated under the State Water Board Water Quality Order Number 2014-0057-DWQ amended by Order 2015-0122-DWQ and Order 2018-0028-DWQ, NPDES Number CAS000001, *General Permit for Storm Water Discharges Associated with Industrial Activities*.

# b. Spill Clean-up Contingency Plan (SCCP)

Within 90 days of the effective date of this Order, the Discharger is required to update and submit an SCCP. The SCCP shall describe the activities and protocols to address the cleanup of spills, overflows, and bypasses of untreated or partially treated wastewater from the Discharger's collection system or treatment facilities. At a minimum, the SCCP shall include sections on spill cleanup and containment measures, public notifications, monitoring, nuisance and odor control measures, and the procedures to be carried out if floatable material is visible on the water surface near the discharge point or has been washed ashore. The Discharger shall review and amend the SCCP as appropriate after

each spill from the Facility or in the service area of the Facility. The Discharger shall include a discussion in the annual summary report of any modifications to the SCCP and the application of the SCCP to all spills during the year.

# c. Pollutant Minimization Program (PMP)

Reporting protocols in MRP section 10.2.4 describe sample results that are to be reported as Detected but Not Quantified (DNQ) or Not Detected (ND). Definitions for a reported Minimum Level (ML) and Method Detection Limit (MDL) are provided in Attachment A. These reporting protocols and definitions are used in determining the need to conduct a PMP as follows:

The Discharger shall develop and conduct a PMP as further described below when there is evidence (e.g., sample results reported as 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; beach posting by the local health officer per California Code of Regulations, Title 17, section 7958 et seq.; or, results of benthic or aquatic organism tissue sampling) that a pollutant is present in the effluent above an effluent limitation and either of the following is true:

- i. The concentration of the pollutant is reported as DNQ and the effluent limitation is less than the reported ML; or,
- 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 the MRP section 10.2.4.

The goal of the PMP shall be to reduce all potential sources of a pollutant through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the 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 Los Angeles Water Board may consider cost-effectiveness when establishing the requirements of a PMP. The completion and implementation of a Pollution Prevention Plan (PPP), if required pursuant to Water Code section 13263.3(d), shall be considered to fulfill the PMP requirements.

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

- 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 Los Angeles Water Board including:
  - 1) All PMP monitoring results for the previous year;
  - 2) A list of potential sources of the reportable pollutant(s);
  - 3) A summary of all actions undertaken pursuant to the control strategy; and
  - 4) A description of actions to be taken in the following year.

# 7.3.4. Construction, Operation and Maintenance Specifications

- a. Certified Wastewater Treatment Plant Operator: Wastewater treatment facilities subject to this Order shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to California Code of Regulations (CCR), title 23, division 3, chapter 26 (Water Code sections 13625 – 13633). All treatment plant operators shall also be trained in emergency response.
- b. Climate Change Effects Vulnerability Assessment and Mitigation Plan: The Discharger shall consider the impacts of climate change as they affect the operation of the treatment facility due to flooding, wildfires, or other climaterelated changes. The Discharger shall develop a Climate Change Effects Vulnerability Assessment and Mitigation Plan (Climate Change Plan) to assess and manage climate change-related effects that may impact the wastewater treatment facility's operation, water supplies, its collection system, and water quality, including any projected changes to the influent water temperature and pollutant concentrations, and beneficial uses. The permittee shall also identify new or increased threats to the sewer system resulting from climate change that may impact desired levels of service in the next 50 years. The permittee shall project upgrades to existing assets or new infrastructure projects, and associated costs, necessary to meet desired levels of service. Climate change research also indicates the overarching driver of climate change is increased atmospheric carbon dioxide from human activity. The increased carbon dioxide emissions trigger changes to climatic patterns, which increase the intensity of sea level rise and coastal storm surges, lead to more erratic rainfall and local weather patterns, trigger a gradual warming of freshwater and ocean temperatures, and trigger changes to ocean water chemistry. As such, the Climate Change Plan shall also identify steps being taken or planned to address greenhouse gas emissions attributable to wastewater treatment plants, solids handling, and effluent discharge processes. For facilities that discharge to the ocean including desalination plants and advanced water treatment facilities, the Climate Change Plan shall also include the impacts from sea level rise. The Climate Change Plan is due 12 months after effective date of this Order.
- c. Alternate Power Source: The Discharger shall maintain in good working order a sufficient alternate power source for operating the wastewater treatment and disposal facilities. All equipment shall be located and secured to minimize failure

due to moisture, liquid spray, flooding, wildfires, and other physical phenomena. The alternate power source shall be designed to allow inspection and maintenance and shall provide for periodic testing. If such alternate power source is not in existence, the discharger shall halt, reduce, or otherwise control all discharges upon the reduction, loss, or failure of the primary source of power. The Discharger shall provide standby or emergency power facilities and/or storage capacity or other means so that in the event of plant upset or outage due to power failure or other cause, discharge of raw or inadequately treated sewage does not occur. If the existing alternate power source is insufficient to prevent the discharge of raw or inadequately treated sewage, the Permittee shall develop a plan to provide additional back-up power to the facility.

- d. Routine Maintenance and Operational Testing for Emergency Infrastructure/Equipment: The Permittee shall perform monthly maintenance and operational testing for all emergency infrastructure and equipment at the facility, including but not limited to any bypass gate/weir in the headworks, alarm systems, backup pumps, standby power generators, and other critical emergency pump station components. The Permittee shall update the Operation and Maintenance Plan to include monthly maintenance and operational testing of emergency infrastructure and equipment, and shall keep the records of all operational testing for emergency systems, repairs, and modifications.
- e. Outfalls: The Discharger shall properly operate and maintain the Outfall structures to ensure they (or its replacement, in whole or part) are in good working order and are consistent with or can achieve better mixing than 166:1 at Discharge Points 001 and 002, 150 at Discharge Point 003, and 115 at Discharge Point 004.
- f. Clearwater Project: The Discharger uses an 8-foot diameter tunnel constructed in 1937 and a 12-foot tunnel constructed in 1958 to convey the secondary-treated effluent to the ocean. A new 18-foot tunnel is being constructed under the Clearwater Project. The Clearwater Project construction started at the JWPCP in 2019 and will be completed in 2027 at White Point near Royal Palms Beach. This new 18-foot diameter tunnel will connect to the current manifold located at White Point. The Discharger shall notify the Executive Officer of the Los Angeles Water Board three months before the new 18-foot diameter tunnel is in service.

# 7.3.5. Special Provisions for Publicly Owned Treatment Works (POTWs)

# a. Biosolids Disposal Requirements - Refer to Attachment H

- i. All sewage sludge (including biosolids) generated at the wastewater treatment plant must be disposed of, treated, or applied to land in accordance with federal regulations contained in 40 Code of Federal Regulations (CFR) § 503. These requirements are enforceable by USEPA.
- ii. The Discharger is separately required to comply with the requirements in State Water Board Water Quality Order Number 2004-0012-DWQ, General WDRs for the Discharge of Biosolids to Land for Use as a Soil Amendment in Agricultural, Silvicultural, Horticultural and Land Reclamation Activities (General Order), for those sites receiving the Permittee's biosolids which a

- regional water board has placed under this general order, and with the requirements in individual WDRs issued by a regional water board for sites receiving the Permittee's biosolids.
- iii. The Discharger shall separately comply, if applicable, with WDRs issued by other regional water boards to which jurisdiction the biosolids are transported and applied.
- iv. The Discharger shall ensure that haulers transporting biosolids within the JOS's jurisdiction for treatment, storage, use, or disposal take all necessary measures to keep the biosolids contained. The Discharger shall maintain and have haulers adhere to a spill clean-up plan. Any spills shall be reported to USEPA and the Los Angeles Water Board or state agency in which the spill occurred. All trucks hauling sludge shall be thoroughly washed after unloading at the field or at the receiving facility.

# b. Pretreatment Requirements - Refer to Attachment I

- i. The Discharger has developed and implemented an approved Pretreatment Program that was submitted to the Los Angeles Water Board. This Order requires implementation of the approved Pretreatment Program. Any violation of the Pretreatment Program will be considered a violation of this Order.
- ii. In 1972, the County Sanitation Districts of Los Angeles County's (Sanitation Districts') Board of Directors adopted the Wastewater Ordinance. The purpose of this Ordinance is to establish controls on users of the Sanitation Districts sewerage system in order to protect the environment and public health, and to provide for the maximum beneficial use of the Sanitation Districts' facilities. This Wastewater Ordinance, as amended July 1, 1998, superseded all previous regulations and policies of the Sanitation Districts' governing items covered in this Ordinance. Specifically, the provisions of this Ordinance superseded the Sanitation Districts' "Policy Governing Use of District Trunk Sewers" dated December 6, 1961 and amended the Sanitation Districts' "An Ordinance Regulating Sewer Construction, Sewer Use and Industrial Wastewater Discharges," dated April 1, 1972, and as amended July 1, 1975, July 1, 1980, July 1, 1983, and November 1, 1989. The Wastewater Ordinance provides the Sanitation Districts with the authority to develop local limits, which are site-specific limits developed by the POTW to enforce general and specific prohibitions on industrial users. The regulations at 40 CFR 403.8(f)(4) require POTWs to develop local limits when developing a pretreatment program and the regulations at 40 CFR 403.5(c)(1) require POTWs that have approved pretreatment programs to develop and revise local limits as necessary. An extensive review of the JOS local limits was completed in November 2006: the report outlining the full evaluation was forwarded to the Los Angeles RWQCB on November 5, 2006. On April 26, 2018, JOS submitted a local limit evaluation to the Los Angeles Water Board following the NPDES permit adoption of the JWPCP. In that evaluation, JOS found that changes to existing local limits did not appear to be necessary to meet the limitations.

- iii. Any change to the Pretreatment Program shall be reported to the Los Angeles Water Board in writing and shall not become effective until approved by the Executive Officer in accordance with procedures established in 40 CFR section 403.18.
- iv. Applications for renewal or modification of this Order must contain information about industrial discharges to the POTW pursuant to 40 CFR section 122.21(j)(6). Pursuant to 40 CFR section 122.42(b) and section 7.1 of Attachment D, Standard Provisions, of this Order, the Discharger shall provide adequate notice of any new introduction of pollutants or substantial change in the volume or character of pollutants from industrial discharges which were not included in the permit application. Pursuant to 40 CFR section 122.44(j)(1), the Discharger shall annually identify and report, in terms of character and volume of pollutants, any Significant Industrial Users discharging to the POTW subject to Pretreatment Standards under section 307(b) of the CWA and 40 CFR part 403.
- v. The Discharger shall evaluate whether its pretreatment local limits are adequate to meet the requirements of this Order (including mass emission benchmarks) and shall submit a written technical report as required under section 2 of Attachment I. The Discharger shall submit revised local limits to the Los Angeles Water Board for approval, as necessary. In addition, the Discharger shall consider collection system overflow protection from constituents such as large debris, oil and grease, etc.
- vi. The Discharger shall comply with requirements contained in Attachment I Pretreatment Reporting Requirements.

#### c. Collection System Requirements

The Discharger's collection system is part of the system that is subject to this Order. As such, the Discharger must properly operate and maintain its collection system (40 CFR section 122.41(e)). The Discharger must report any noncompliance (40 CFR section 122.41(l)(6) and (7)) and mitigate any discharge from the collection system in violation of this Order (40 CFR section 122.41(d)). On October 20, 2006, the Discharger submitted a Notice of Intent to enroll under the *Statewide General Waste Discharge Requirements for Sanitary Sewer Systems*, Water Quality Order Number 2006-0003-DWQ, including monitoring and reporting requirements as amended by State Water Board Order WQ 2013-0058-EXEC.

#### 7.3.6. Spill Reporting Requirements for POTWs

#### a. Initial Notification

Although State and Los Angeles Water Board staff do not have duties as first responders, this requirement is an appropriate mechanism to ensure that the agencies that do have first responder duties are notified in a timely manner to protect public health and beneficial uses. For certain spills, overflows and bypasses, the Discharger shall make notifications as required below:

- i. In accordance with the requirements of Health and Safety Code section 5411.5, the Discharger shall provide notification to the local health officer or the director of environmental health with jurisdiction over the affected water body of any unauthorized release of sewage or other waste that causes, or probably will cause, a discharge to any waters of the state as soon as possible, but no later than two hours after becoming aware of the release.
- ii. In accordance with the requirements of Water Code section 13271, the Discharger shall provide notification to the California Office of Emergency Services (Cal OES) of the release of reportable amounts of hazardous substances or sewage that causes, or probably will cause, a discharge to any waters of the state as soon as possible, but not later than two hours after becoming aware of the release. The CCR, Title 23, section 2250, defines a reportable amount of sewage as being 1,000 gallons. The phone number for reporting these releases to the Cal OES is (800) 852-7550. In addition, the Discharger shall notify other interested persons of any such sewage spill, including but not limited to the South Coast Air Quality Management District (AQMD), cities within the jurisdiction of the spill, and Heal the Bay, by maintaining an email list of those interested persons that have requested such notification. The Discharger shall also include public outreach in their emergency communications protocols, which may include media updates, social media postings, and community notices. The Permittee shall submit an emergency communications protocol to the Los Angeles Water Board within 30 days of the effective date of the Order/Permit for Executive Officer approval including specific outreach elements, such as mass emails and telephone calls to residents in the communities surrounding the plant.
- iii. The Discharger shall notify the Los Angeles Water Board of any unauthorized release of sewage from its POTW that causes, or probably will cause, a discharge to a water of the state or odors, vectors, and other nuisances of sewage or sludge origin beyond the limits of the treatment plant site or the sewage collection system as soon as possible, but not later than two hours after becoming aware of the release. This initial notification does not need to be made if the Discharger has notified Cal OES and the local health officer or the director of environmental health with jurisdiction over the affected waterbody. The phone number for reporting these releases of sewage to the Los Angeles Water Board is (213) 576-6657. The phone numbers for after hours and weekend reporting of releases of sewage to the Los Angeles Water Board are (213) 305-2284 and (213) 305-2253.
- iv. At a minimum, the following information shall be provided to the Los Angeles Water Board:
  - The location, date, and time of the release.
  - The route of the spill including the water body that received or will receive the discharge.
  - An estimate of the amount of sewage or other waste released and the amount that reached a surface water at the time of notification.

- If ongoing, the estimated flow rate of the release at the time of the notification.
- The name, organization, phone number and email address of the reporting representative.

### b. Monitoring

For spills, overflows and bypasses reported under section 7.3.6.a, the Discharger shall monitor as required below:

To define the geographical extent of the spill's impact, the Discharger shall obtain grab samples for all spills, overflows or bypasses of any volume that reach any waters of the state (including shoreline, surface, groundwaters, etc.). If a grab sample cannot be obtained due to accessibility or safety concerns that cannot be addressed with the appropriate personal protective equipment or following proper sampling procedures, the sample shall be obtained as soon as it becomes safe to do so. The Discharger shall analyze the samples for total coliform, fecal coliform, E. coli (if fecal coliform tests positive), Enterococcus, and relevant pollutants of concern, upstream and downstream of the point of entry of the spill (if feasible, accessible, and safe). Rapid fecal monitoring is preferred in these situations, as long as a State Water Board's Environmental Laboratory Accreditation Program (ELAP)-certified lab is available to conduct the analyses. Daily monitoring shall be conducted from the time the spill is known until the results of two consecutive sets of bacteriological monitoring indicate the return to the background level or the Los Angeles County Department of Public Health authorizes cessation of monitoring.

# c. Reporting

The initial notification required under section 7.3.6.a shall include the following:

- i. As soon as possible, but not later than twenty-four (24) hours after becoming aware of an unauthorized discharge of sewage or other waste from its wastewater treatment plant to a water of the state, or a spill, bypass or upset that results in odors, vectors, and other nuisances of sewage or sludge origin beyond the limits of the treatment plant site or the sewage collection system, the Discharger shall submit a statement to the Los Angeles Water Board by email at <a href="mailto:augustine.anijielo@waterboards.ca.gov">augustine.anijielo@waterboards.ca.gov</a>. If the discharge is 1,000 gallons or more, this statement shall certify that Cal OES has been notified of the discharge in accordance with Water Code section 13271. The statement shall also certify that the local health officer or director of environmental health with jurisdiction over the affected water bodies has been notified of the discharge in accordance with Health and Safety Code section 5411.5. The statement shall also include at a minimum the following information:
  - Agency, NPDES Number, Order Number, and MRP CI Number, if applicable.
  - The location, date, and time of the discharge.
  - The water body that received the discharge.

- A description of the level of treatment of the sewage or other waste discharged.
- An initial estimate of the amount of sewage or other waste released and the amount that reached a surface water.
- The Cal OES control number and the date and time that notification of the incident was provided to Cal OES.
- The name of the local health officer or director of environmental health representative notified (if contacted directly); the date and time of notification; and the method of notification (e.g., phone, fax, email).
- ii. A written preliminary report five (5) business days after disclosure of the incident is required. Submission to the Los Angeles Water Board of the California Integrated Water Quality System (CIWQS) Sanitary Sewer Overflow (SSO) event number shall satisfy this requirement. Within 30 days after submitting the preliminary report, the Discharger shall submit the final written report to the Los Angeles Water Board. (A copy of the final written report for a given incident, already submitted pursuant to Statewide General WDRs for Sanitary Sewer Systems (SSS WDRs, State Water Board Order No. WQ 2022-0103-DWQ), may be submitted to the Los Angeles Water Board to satisfy this requirement). The written report shall document the information required in paragraph 7.3.6.d below, monitoring results and any other information required in provisions of the Standard Provisions document including corrective measures implemented or proposed to be implemented to prevent/minimize future occurrences. The Los Angeles Water Board Executive Officer for just cause can grant an extension for submittal of the final written report.
- iii. The Discharger shall include a certification in the annual summary report (due according to the schedule in the MRP) that states that the sewer system emergency equipment, including alarm systems, backup pumps, standby power generators, and other critical emergency pump station components were maintained and tested in accordance with the Discharger's preventive maintenance plan. Any deviations from or modifications to the plan shall be discussed.

#### d. Records

The Discharger shall develop and maintain a record of all spills, overflows or bypasses of raw or partially treated sewage from its collection system or treatment plant. This record shall be made available to the Los Angeles Water Board upon request and a spill summary shall be included in the annual summary report. The records shall contain:

- i. The date and time of each spill, overflow, or bypass.
- ii. The location of each spill, overflow, or bypass.
- iii. The estimated volume of each spill, overflow, and bypass including gross volume, amount recovered and amount not recovered, monitoring results as required by section 7.3.6.b.

- iv. The cause of each spill, overflow, or bypass.
- v. Whether each spill, overflow, or bypass entered a receiving water and, if so, the name of the water body and whether it entered via storm drains or other man-made conveyances.
- vi. Any mitigation measures implemented.
- vii. Any corrective measures implemented or proposed to be implemented to prevent/minimize future occurrences.
- viii. The mandatory information included in SSO online reporting for finalizing and certifying the SSO report for each spill, overflow, or bypass under the SSS WDRs.
- ix. Evaluation of the discharge plume pathway using high frequency radar ocean current data collected by the Southern California Coastal Ocean Observing System if a spill impacts the beach or the ocean.

#### e. Activities Coordination

Although not required by this Order, Los Angeles Water Board expects the POTW's owners/operators will coordinate their compliance activities for consistency and efficiency with other entities that have responsibilities to implement: (i) this NPDES permit, including the Pretreatment Program, (ii) a Municipal Separate Storm Sewer Systems (MS4) NPDES permit that may contain spill prevention, sewer maintenance, reporting requirements and (iii) the SSS WDRs or subsequent updates. The Los Angeles Water Board also expects that POTW's owners/operators to consider coordination with other agencies regarding the potential for the permissive integration of the MS4 with the wastewater collection system.

# f. Consistency with SSS WDRs

The CWA prohibits the discharge of pollutants from point sources to surface waters of the United States unless authorized under an NPDES permit. (33 United States Code sections 1311, 1342). The Permittee must separately comply with the SSS WDRs . The SSS WDRs require public agencies that own or operate sanitary sewer systems with greater than one mile of sewer lines to enroll for coverage and comply with requirements, to develop and implement sewer system management plans, and report all SSOs to the State Water Board's online SSOs database. The Permittee enrolled in the SSS WDRs in October 2006, so the Permittee's collection system is covered under the SSS WDRs. The Permittee must properly operate and maintain its collection system (40 CFR § 122.41(e)), report any non-compliance (40 CFR § 122.41(1)(6) and (7)), and mitigate any discharge from the collection system in violation of this NPDES permit (40 CFR § 122.41(d)).

The requirements contained in this Order in sections 7.3.3.b (SCCP Plan section), 7.3.4. (Construction, Operation and Maintenance Specifications section), and 7.3.6. (Spill Reporting Requirements section) are intended to be consistent with the requirements of the SSS WDRs. The Los Angeles Water Board recognizes that there may be some overlap between these NPDES permit

provisions and requirements in the SSS WDRs, related to the collection systems. The requirements of the SSS WDRs are considered the minimum thresholds. To encourage efficiency, the Los Angeles Water Board will accept the documentation prepared by the Discharger under the SSS WDRs for compliance purposes as satisfying the requirements in sections 7.3.3.b, 7.3.4, and 7.3.6 provided the more stringent provisions contained in this NPDES permit are also addressed. Pursuant to the SSS WDRs (Order No. WQ 2022-0103-DWQ section 6.2), the provisions of this NPDES permit supersede the SSS WDRs, for all purposes, including enforcement, to the extent the requirements may be deemed duplicative.

### 7.3.7. Other Special Provisions – Not Applicable

# 7.3.8. Compliance Schedule – Not Applicable

#### 8. COMPLIANCE DETERMINATION

Compliance with the effluent limitations contained in section 4 of this Order will be determined as specified below:

#### 8.1. General

Compliance with effluent limitations for priority 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 Regional and State Water Boards, the Discharger shall be deemed out of compliance with effluent limitations if the concentration of the priority pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reporting level (RL) or minimum level (ML).

### 8.2. 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 DNQ or ND. In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:

- 8.2.1. 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.
- 8.2.2. 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.

# 8.3. Average Monthly Effluent Limitation (AMEL)

If the average (or when applicable, the median determined by Section 8.2 above for multiple sample data) of daily discharges over a calendar month exceeds the AMEL for a given parameter, this will represent a single violation for the purpose of calculating

mandatory minimum penalties, though the Discharger may be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of non-compliance in a 31-day month) in cases where discretionary administrative civil liabilities are appropriate. If only a single sample is taken during the calendar month and the analytical result for that sample exceeds the AMEL, the Discharger may be considered out of compliance for that calendar month. For those average monthly effluent limitations that are based on the 6-month median water quality objectives in the 2019 Ocean Plan, the daily value used to calculate these average monthly values for intermittent discharges, shall be considered to equal zero for days on which no discharge occurred. The Discharger will only be considered out of compliance for days when the discharge occurs. For any one calendar month during which no sample (daily discharge) is collected, no compliance determination can be made for that calendar month with respect to the AMEL.

If the analytical result of a single sample, monitored monthly, quarterly, semiannually, or annually, does not exceed the AMEL for a given parameter, the Discharger will have demonstrated compliance with the AMEL for each day of that month for that parameter.

If the analytical result of any single sample, monitored monthly, quarterly, semiannually, or annually, exceeds the AMEL for any parameter, the Discharger may collect up to four additional samples within the same calendar month. All analytical results shall be reported in the monitoring report for that month. The concentration of pollutants (an arithmetic mean or a median) in these samples estimated from the "Multiple Sample Data Reduction" section above, will be used for compliance determination.

In the event of noncompliance with an AMEL, the sampling frequency for that parameter shall be increased to weekly and shall continue at this level until compliance with the AMEL has been demonstrated.

# 8.4. 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 non-compliance. 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 collected, no compliance determination can be made for that calendar week with respect to the AWEL.

A calendar week will begin on Sunday and end on Saturday. Partial calendar weeks at the end of calendar month will be carried forward to the next month in order to calculate and report a consecutive seven-day average value on Saturday.

# 8.5. Maximum Daily Effluent Limitation (MDEL)

If a 24-hour composite sample exceeds the MDEL for a given parameter, an alleged violation will be flagged, and the Discharger will be considered out of compliance for that day for that parameter. If no sample (daily discharge) is collected over a calendar day, no compliance determination can be made for that day with respect to an effluent

violation determination, but compliance determination can be made for that day with respect to a reporting violation determination.

#### 8.6. Instantaneous Minimum Effluent Limitation

If the analytical result of a single grab sample is lower than the instantaneous minimum effluent limitation for a parameter, a potential violation will be flagged, and the Discharger will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples collected within a calendar day that both are lower than the instantaneous minimum effluent limitation would result in two instances of non-compliance with the instantaneous minimum effluent limitation).

#### 8.7. Instantaneous Maximum Effluent Limitation

If the analytical result of a single grab sample is higher than the instantaneous maximum effluent limitation for a parameter, a potential violation will be flagged, and the Discharger will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples collected within a calendar day that both exceed the instantaneous maximum effluent limitation would result in two instances of non-compliance with the instantaneous maximum effluent limitation).

#### 8.8. Six-month Median Effluent Limitation

If the median of daily discharges over any 180-day period exceeds the six-month median effluent limitation for a given parameter, a potential violation will be flagged, and the Discharger will be considered out of compliance for each day of that 180-day period for that parameter. The next assessment of compliance will occur after the next sample is collected. If only a single sample is collected during a given 180-day period and the analytical result for that sample exceeds the six-month median, the Discharger will be considered out of compliance for the 180-day period. For any 180-period during which no sample is collected, no compliance determination can be made for the six-month median effluent limitation.

### 8.9. Annual Average Effluent Limitation

If the annual average of monthly discharges over a calendar year exceeds the annual average effluent limitation for a given parameter, a potential violation will be flagged and the Discharger will be considered out of compliance for each month of that year for that parameter. However, a potential violation of the annual average effluent limitation will be considered one violation for the purpose of assessing State mandatory minimum penalties. If no sample (daily discharge) is collected over a calendar year, no compliance determination can be made for that year with respect to an effluent violation determination, but compliance determination can be made for that month with respect to a reporting violation determination.

### 8.10. Chronic Toxicity

The discharge is subject to determination of "Pass" or "Fail" from a chronic toxicity test using the Test of Significant Toxicity (TST) statistical t-test approach described in the National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (USEPA 833-R-10-003, 2010), Appendix A, Figure A-1,

Table A-1, and Appendix B, Table B-1. The null hypothesis (Ho) for the TST statistical approach is: Mean discharge In-stream Waste Concentration (IWC) response ≤0.75 × Mean control response. A test result that rejects this null hypothesis is reported as "Pass." A test result that does not reject this null hypothesis is reported as "Fail." This is a t-test (formally Student's t-test), a statistical analysis comparing two sets of replicate observations – in the case of a Whole Effluent Toxicity (WET) test, only two test concentrations (i.e. a control and IWC). The purpose of this statistical test is to determine if the means of the two sets of observations are different (i.e. if the IWC or receiving water concentration differs from the control (the test result is "Pass" or "Fail")). The Welch's t-test employed by the TST statistical approach is an adaptation of Student's t-test and is used with two samples having unequal variances.

The MDEL for chronic toxicity is exceeded and a violation will be flagged when a chronic toxicity test, analyzed using the TST statistical approach, results in "Fail".

The chronic toxicity MDEL is set at the IWC for the discharge (0.60% effluent for Discharge Point 001 and Point 002) and expressed in units of the TST statistical approach ("Pass" or "Fail"). All NPDES effluent compliance monitoring for the chronic toxicity MDEL shall be reported using only the IWC effluent concentration and negative control, expressed in units of the TST. The TST hypothesis (Ho) (see above) is statistically analyzed using the IWC and a negative control. Effluent toxicity tests shall be run using Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (EPA/600/R-95/136, 1995). The Los Angeles Water Board's review of reported toxicity test results will include review of concentration-response patterns as appropriate (see Fact Sheet discussion at 4.3.6). As described in bioassay laboratory audit correspondence from the State Water Resources Control Board dated August 07, 2014, and from USEPA dated December 24, 2013, the Percent Minimum Significant Difference (PMSD) criteria only apply to compliance reporting for the No Observed Effect Concentration (NOEC) and the sublethal statistical endpoints of the NOEC, and therefore are not used to interpret results using the TST statistical approach. Standard Operating Procedures used by the toxicity testing laboratory to identify and report valid, invalid, anomalous, or inconclusive effluent (and receiving water) toxicity test measurement results from the TST statistical approach, including those that incorporate a consideration of concentration-response patterns, must be submitted to the Los Angeles Water Board (40 CFR § 122.41(h)). The Los Angeles Water Board will make a final determination as to whether a toxicity test result is valid, and may consult with the Discharger, USEPA, the State Water Board's Quality Assurance Officer, or the State Water Board's Environmental Laboratory Accreditation Program as needed. The Los Angeles Water Board may consider the results of any TIE/TRE studies in an enforcement action.

# 8.11. Percent Removal

The average monthly percent removal is the removal efficiency expressed as a percentage across a treatment plant for a given pollutant parameter, as determined from the 30-day average values of pollutant concentrations (C in mg/L) of influent and effluent samples collected at about the same time using the following equation:

Percent Removal (%) = [1-(C<sub>Efluent</sub>/C<sub>Influent</sub>)] x 100%

When preferred, the Permittee may substitute mass loadings and mass emissions for the concentrations.

### 8.12. Mass and Concentration Limitations

Compliance with mass and concentration effluent limitations for the same parameter shall be determined separately with their respective limitations. When the concentration of a constituent in an effluent sample is determined to be ND or DNQ, the corresponding mass emission rate determined from that sample concentration shall also be reported as ND or DNQ.

# 8.13. Compliance with Single Constituent Effluent Limitations

Permittees may be considered out of compliance with the effluent limitation if the concentration of the pollutant (see Section 8.2 "Multiple Sample Data Reduction" above) in the monitoring sample is greater than the effluent limitation and greater than or equal to the RL.

# 8.14. Compliance with Effluent Limitations Expressed as a Sum of Several Constituents

Permittees are out of compliance with an effluent limitation which applies to the sum of a group of chemicals (e.g., PCB's) if the sum of the individual pollutant concentrations is greater than the effluent limitation. Individual pollutants of the group will be considered to have a concentration of zero if the constituent is reported as ND or DNQ.

# 8.15. Compliance with TCDD Equivalents

TCDD equivalents shall be monitored and calculated using the following formula, where the MLs, and toxicity equivalency factors (TEFs) are as provided in the table below. The Permittee shall report all measured values of individual congeners, including data qualifiers. When calculating TCDD equivalents, the Permittee shall set congener concentrations below the minimum levels to zero. USEPA method 1613 may be used to analyze dioxin and furan congeners.

Dioxin Concentration = 
$$\sum_{i=1}^{17} (TEQi) = \sum_{i=1}^{17} (Ci)(TEFi)$$

where:

Ci = individual concentration of a dioxin or furan congener

TEFi = individual TEF for a congener

MLs and TEFs

Congeners	MLs (pg/L)	TEFs
2,3,7,8-TetraCDD	10	1.0
1,2,3,7,8-PentaCDD	50	1.0
1,2,3,4,7,8-HexaCDD	50	0.1
1,2,3,6,7,8-HexaCDD	50	0.1
1,2,3,7,8,9-HexaCDD	50	0.1

Congeners	MLs (pg/L)	TEFs
1,2,3,4,6,7,8-HeptaCDD	50	0.01
OctaCDD	100	0.0001
2,3,7,8-TetraCDF	10	0.1
1,2,3,7,8-PentaCDF	50	0.05
2,3,4,7,8-PentaCDF	50	0.5
1,2,3,4,7,8-HexaCDF	50	0.1
1,2,3,6,7,8-HexaCDF	50	0.1
1,2,3,7,8,9-HexaCDF	50	0.1
2,3,4,6,7,8-HexaCDF	50	0.1
1,2,3,4,6,7,8-HeptaCDF	50	0.01
1,2,3,4,7,8,9-HeptaCDF	50	0.01
OctaCDF	100	0.0001

#### 8.16. Mass Emission Rate

The mass emission rate shall be obtained from the following calculation for any calendar day:

Mass emission rate (lb/day) = 
$$\frac{8.34}{N} \sum_{i=1}^{N} Q_i C_i$$

Mass emission rate (kg/day) = 
$$\frac{3.79}{N} \sum_{i=1}^{N} Q_i C_i$$

in which 'N' is the number of samples analyzed in any calendar day. 'Q<sub>i</sub>' and 'C<sub>i</sub>' are the flow rate (MGD) and the constituent concentration (mg/L), respectively, which are associated with each of the 'N' grab samples, which may be collected in any calendar day. If a composite sample is collected, 'C<sub>i</sub>' is the concentration measured in the composite sample and 'Q<sub>i</sub>' is the average flow rate occurring during the period over which samples are composited.

The daily concentration of all constituents shall be determined from the flow-weighted average of the same constituents in the combined waste streams as follows:

Daily concentration = 
$$\frac{1}{Q_t} \sum_{i=1}^{N} Q_i C_i$$

in which 'N' is the number of component waste streams. 'Q<sub>i</sub>' and 'C<sub>i</sub>' are the flow rate (MGD) and the constituent concentration (mg/L), respectively, which are associated with each of the 'N' waste streams. 'Q<sub>t</sub>' is the total flow rate of the combined waste streams.

### 8.17. Bacterial Standards and Analysis

8.18.1. The geometric mean (GM) 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:

$$GM = \sqrt[n]{(x_1)(x_2)(x_3)\cdots(x_n)}$$

where x is the sample value and n is the number of samples collected.

- 8.17.2. The STV for the bacteria water quality objective is a set value that approximates the 90th percentile of the water quality distribution of a bacterial population.
- 8.17.3. For bacterial analyses, sample dilutions should be performed so the expected range of values is bracketed (for example, with multiple tube fermentation method or membrane filtration method, 2 to 16,000 per 100 ml for total and fecal coliform, at a minimum, and 1 to 1000 per 100 ml for enterococcus). The detection methods used for each analysis shall be reported with the results of the analyses.
- 8.17.4. Detection methods used for coliforms (total and fecal) shall be those presented in Table 1A of 40 CFR part 136, unless alternate methods have been approved by USEPA pursuant to 40 CFR part 136, or improved methods have been determined by the Los Angeles Water Board Executive Officer and/or USEPA Water Division Director.
- 8.17.5. Detection methods used for *Enterococcus* shall be those presented in Table 1A of 40 CFR part 136 or in the USEPA publication EPA 600/4-85/076, *Test Methods for* Escherichia coli *and* Enterococci *in Water By Membrane Filter Procedure* or any improved method determined by the Executive Officer and/or USEPA to be appropriate.

### 8.18. Single Operational Upset (SOU)

An SOU that leads to simultaneous violations of more than one pollutant parameter shall be treated as a single violation and limits the Permittee's liability in accordance with the following conditions:

- 8.18.1. An SOU is broadly defined as a single unusual event that temporarily disrupts the usually satisfactory operation of a system in such a way that it results in violation of multiple pollutant parameters.
- 8.18.2. A Permittee may assert SOU to limit liability only for those violations which the Permittee submitted notice of the upset as required in Provision 5.5.2(b) of Attachment D Standard Provisions.
- 8.18.3. For purpose outside of Water Code section 13385 subdivisions (h) and (i), determination of compliance and civil liability (including any more specific definition of SOU, the requirements for Permittees to assert the SOU limitation of liability, and the manner of counting violations) shall be in accordance with USEPA Memorandum *Issuance of Guidance Interpreting Single Operational Upset* (September 27, 1989).
- 8.18.4. For purpose of Water Code section 13385 (h) and (i), determination of compliance and civil liability (including any more specific definition of SOU, the requirements for Permittees to assert the SOU limitation of liability, and the manner of counting violations) shall be in accordance with Water Code section 13385 (f)(2).

#### ATTACHMENT A. DEFINITIONS

# **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.

# Arithmetic Mean (μ)

Also called the average, is the sum of measured values divided by the number of samples. For ambient water concentrations, the arithmetic mean is calculated as follows:

$$Arithmetic\ mean = \mu = (\sum x)/n$$

Where:  $\sum_{i=1}^{\infty} x_i$  is the sum of the measured ambient water concentrations, and n is the number of samples.

# **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.

#### **Bioaccumulative**

Those substances taken up by an organism from its surrounding medium through gill membranes, epithelial tissue, or from food and subsequently concentrated and retained in the body of the organism.

#### **Biosolids**

Biosolids refer to sewage sludge that has been treated and tested and shown to be capable of being beneficially and legally used pursuant to federal and state regulations as a soil amendment for agricultural, silvicultural, horticultural, and land reclamation activities as specified under 40 CFR part 503.

### Carcinogenic

Carcinogenic pollutants are substances that are known to cause cancer in living organisms.

#### Chlordane

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

### **Coefficient of Variation (CV)**

CV is a measure of the data variability and is calculated as the estimated standard deviation divided by the arithmetic mean of the observed values.

### Composite Sample, 24-hour

For flow rate measurements, the arithmetic mean of no fewer than eight individual measurements taken at equal intervals for 24 hours or for the duration of discharge, whichever is shorter.

Composite sample, for other than flow rate measurements:

- a. No fewer than eight individual sample portions collected at equal time intervals for 24 hours. The volume of each individual sample portion shall be directly proportional to the discharge flow rate at the time of sampling; or,
- b. No fewer than eight individual sample portions collected of equal volume collected over a 24-hour period. The time interval between each individual sample portion shall vary such that the volume of the discharge between each individual sample portion remains constant.

The compositing period shall equal the specified sampling period, or 24 hours, if no period is specified.

The composite sample result shall be reported for the calendar day during which composite sampling ends.

# **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)

DNQ are those sample results less than the RL, but greater than or equal to the laboratory's MDL. Sample results reported as DNQ are estimated concentrations.

#### **Dichlorobenzenes**

The sum of 1,2- and 1,3-dichlorobenzene.

#### **Dilution Credit**

Dilution Credit is the amount of dilution granted to a discharge in the calculation of a water quality-based effluent limitation, based on the allowance of a specified mixing zone. It is

calculated from the dilution ratio or determined through conducting a mixing zone study or modeling of the discharge and receiving water.

#### **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 "spoil."

### **Enclosed Bays**

Enclosed Bays means 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 the headlands or outermost harbor works is less than 75 percent of the greatest dimension of the enclosed portion of the bay. Enclosed bays include, but are not limited to, Humboldt Bay, Bodega Harbor, Tomales Bay, Drake's Estero, San Francisco Bay, Morro Bay, Los Angeles-Long Beach Harbor, Upper and Lower Newport Bay, Mission Bay, and San Diego Bay. Enclosed bays do not include inland surface waters or ocean waters.

#### **Endosulfan**

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

#### **Estimated Chemical Concentration**

The estimated chemical concentration that results from the confirmed detection of the substance by the analytical method below the ML value.

# **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 estuaries. Estuarine waters shall 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 saltwater occurs in the open coastal waters. Waters described by this definition include but are not limited to, the Sacramento-San Joaquin Delta, as defined in Water Code section 12220, Suisun Bay, Carquinez Strait downstream to the Carquinez Bridge, and appropriate areas of the Smith, Mad, Eel, Noyo, Russian, Klamath, San Diego, and Otay rivers. Estuaries do not include inland surface waters or ocean waters.

# **Grab Sample**

An individual sample collected during a period not to exceed 15 minutes. Grab samples shall be collected during normal peak loading conditions for the parameter of interest, which may or may not occur during hydraulic peaks.

#### **Halomethanes**

The sum of bromoform, bromomethane (methyl bromide) and chloromethane (methyl chloride).

### **Hexachlorocyclohexane (HCH)**

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 Los Angeles Regional Water Quality Control 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).

### **In-stream Waste Concentration (IWC)**

The concentration of a toxicant or the parameter of toxicity in the receiving water after mixing.

# **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.

#### Median

The middle measurement in a set of data. The median of a set of data is found by first arranging the measurements in order of magnitude (either increasing or decreasing order). If the number of measurements (n) is odd, then the median =  $X_{(n+1)/2}$ . If n is even, then the median =  $(X_{n/2} + X_{(n/2)+1})/2$  (i.e., the midpoint between the n/2 and n/2+1).

### **Method Detection Limit (MDL)**

The minimum measured 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 CFR 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 all the method specified sample weights, volumes, and processing steps have been followed.

### **Natural Light**

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

### **Not Detected (ND)**

Sample results which are 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 (polycyclic 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) as Aroclors

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.

#### **PCBs** as Congeners

The sum of the following 41 individually quantified PCB congeners or mixtures of isomers of single congeners in a co-elution: PCB-18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 201, and 206.

#### **Persistent Pollutants**

Persistent pollutants are substances for which degradation or decomposition in the environment is nonexistent or very slow.

#### Phenolic Compounds (chlorinated)

The sum of 2-chlorophenol, 2,4-dichlorophenol, 4-chloro-3-methylphenol, 2,4,6-trichlorophenol, and pentachlorophenol.

#### Phenolic Compounds (non-chlorinated)

The sum of 2,4-dimethylphenol, 2-nitrophenol, 4-nitrophenol, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, and phenol.

### **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 a priority pollutant(s) 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 Los Angeles 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 Water Code section 13263.3(d), shall be considered to fulfill the PMP requirements.

#### **Pollution Prevention**

Any action that causes a net reduction in the use or generation of a hazardous substance or other pollutant that is discharged into water and includes, but is not limited to, input change, operational improvement, production process change, and product reformulation (as defined in Water Code section 13263.3). Pollution prevention does not include actions that merely shift a pollutant in wastewater from one environmental medium to another environmental medium, unless clear environmental benefits of such an approach are identified to the satisfaction of the State Water Resources Control Board (State Water Board) or Los Angeles Water Board.

### **Publicly Owned Treatment Works**

A treatment works as defined by section 212 of the CWA, which is owned by a State or municipality (as defined by section 502(4) of the Act). This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality which has jurisdiction over the Indirect Discharges to and the discharges from such treatment works. (40 CFR § 403.3(q).)

# **Reporting 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 Los Angeles 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. (See Ocean Plan section III.C.6.).

### **Satellite Collection System**

The portion, if any, of a sanitary sewer system owned or operated by a different public agency than the agency that owns and operates the wastewater treatment facility to which a sanitary sewer system is tributary.

#### Shellfish

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

### **Significant Difference**

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.

### Standard Deviation ( $\sigma$ )

Standard Deviation is a measure of variability that is calculated as follows:

$$\sigma = \sqrt{\frac{\sum (x - \mu)^2}{n - 1}}$$

where:

x is the observed value;

u is the arithmetic mean of the observed values; and

n is the number of samples.

### **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)

The STV for the bacteria water quality objectives is a set value that approximates the 90<sup>th</sup> 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

Congeners	MLs (pg/L)	TEFs
2,3,7,8-TetraCDD	10	1.0
1,2,3,7,8-PentaCDD	50	0.5
1,2,3,4,7,8-HexaCDD	50	0.1
1,2,3,6,7,8-HexaCDD	50	0.1
1,2,3,7,8,9-HexaCDD	50	0.1
1,2,3,4,6,7,8-HeptaCDD	50	0.01
OctaCDD	100	0.001
2,3,7,8-TetraCDF	10	0.1
1,2,3,7,8-PentaCDF	50	0.05
2,3,4,7,8-PentaCDF	50	0.5
1,2,3,4,7,8-HexaCDF	50	0.1
1,2,3,6,7,8-HexaCDF	50	0.1
1,2,3,7,8,9-HexaCDF	50	0.1
2,3,4,6,7,8-HexaCDF	50	0.1

Congeners	MLs (pg/L)	TEFs
1,2,3,4,6,7,8-HeptaCDF	50	0.01
1,2,3,4,7,8,9-HeptaCDF	50	0.01
OctaCDF	100	0.001

# **Test of Significant Toxicity (TST)**

A statistical approach used to analyze toxicity test data. The TST incorporates a restated null hypothesis, Welch's t-test, and the biological effect thresholds for chronic and acute toxicity.

# **Total Nitrogen**

The sum of nitrate nitrogen, nitrite nitrogen, ammonia nitrogen, and total organic nitrogen.

# **Toxicity Identification Evaluation (TIE)**

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.

### **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.

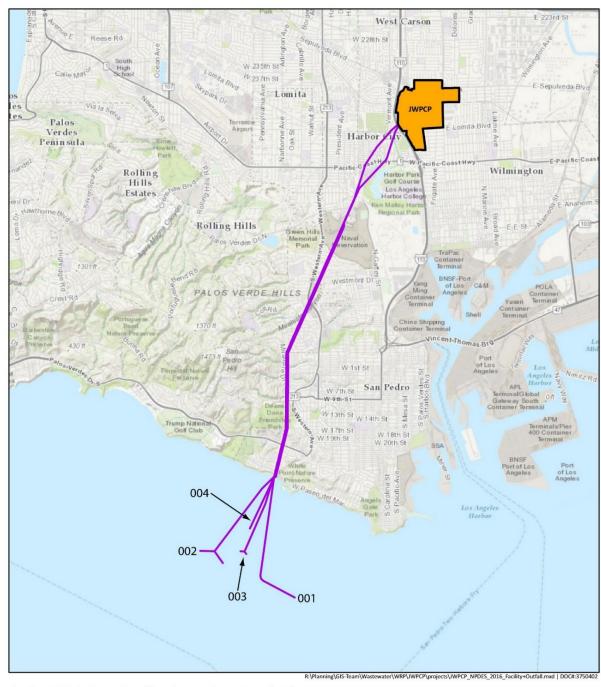
#### Waste

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.

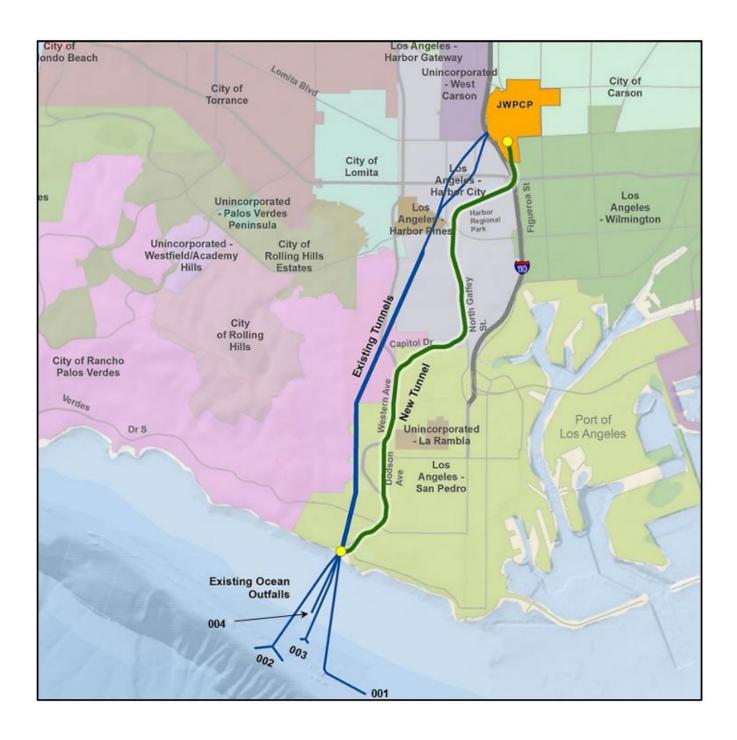
### ATTACHMENT B. 1. JWPCP AND OUTFALLS MAP



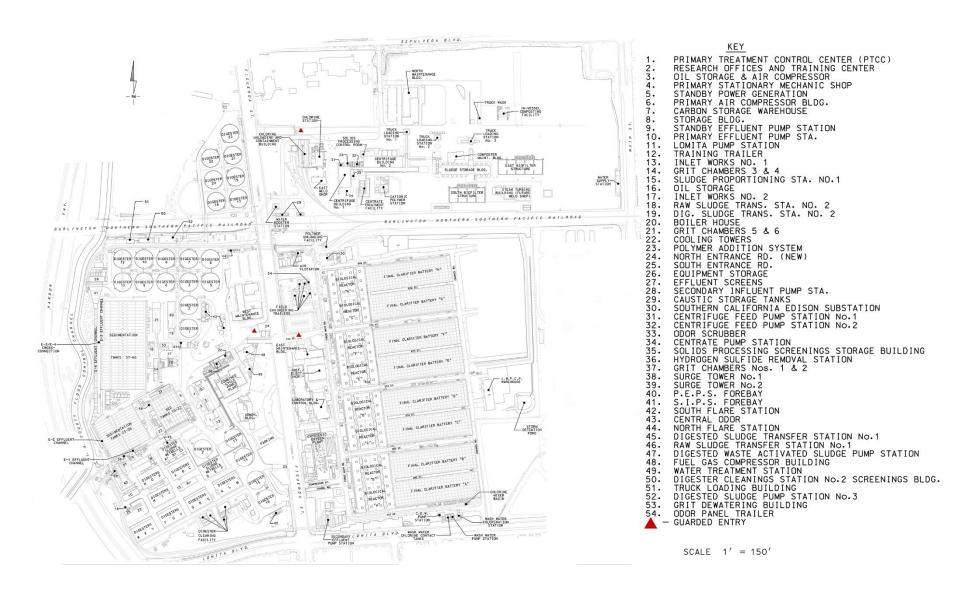
# Joint Water Pollution Control Plant



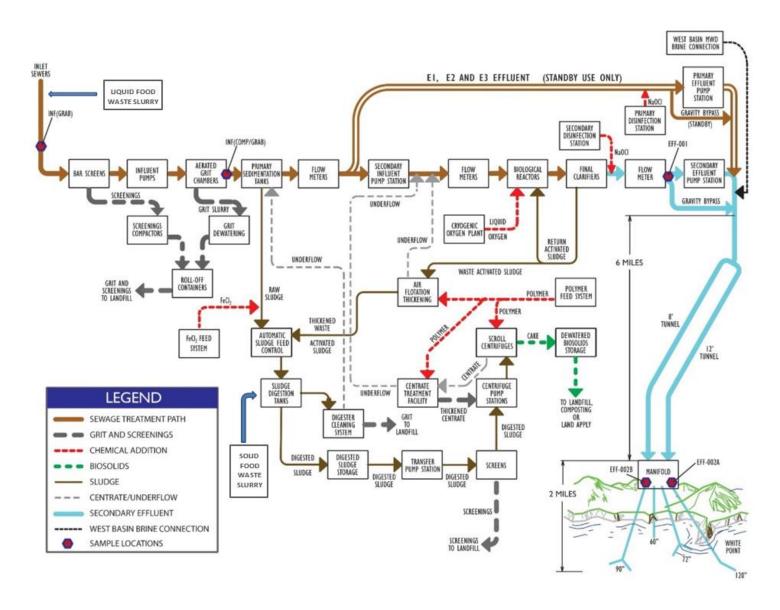
# ATTACHMENT B. 2. NEW DISCHARGE TUNNEL MAP



#### ATTACHMENT B. 3. JWPCP SITE LAYOUT



#### ATTACHMENT C. FLOW SCHEMATIC



#### ATTACHMENT D. STANDARD PROVISIONS

#### 1. STANDARD PROVISIONS - PERMIT COMPLIANCE

### 1.1. Duty to Comply

- 1.1.1. The Permittee must comply with all the terms, requirements, and conditions of this Order. Any noncompliance constitutes a violation of the Clean Water Act (CWA), its regulations, and the California Water Code (Water Code) and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification; denial of a permit renewal application; or a combination thereof. (40 CFR section 122.41(a); California Water Code (Water Code) sections 13261, 13263, 13265, 13268, 13000, 13001, 13304, 13350, 13385).
- 1.1.2. The Permittee shall comply with effluent standards or prohibitions established under Part 307(a) of the CWA for toxic pollutants 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. (Title 40 of the Code of Federal Regulations (40 CFR) section 122.41(a)(1).)

# 1.2. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a Permittee 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 CFR section 122.41(c).)

# 1.3. Duty to Mitigate

The Permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this Order that has a reasonable likelihood of adversely affecting human health or the environment. (40 CFR section 122.41(d).)

# 1.4. Proper Operation and Maintenance

The Permittee 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 Permittee to achieve compliance with the conditions of this Order. Proper operation and maintenance also include 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 Permittee only when necessary to achieve compliance with the conditions of this Order. (40 CFR section 122.41(e).)

# 1.5. Property Rights

- 1.5.1. This Order does not convey any property rights of any sort or any exclusive privileges. (40 CFR section 122.41(g).)
- 1.5.2. 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 CFR section 122.5(c).)

# 1.6. Inspection and Entry

The Permittee shall allow the Los Angeles Water Board, State Water Board, USEPA, 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 U.S.C. section 1318(a)(B); 40 CFR section 122.41(i); Water Code section 13383):

- 1.6.1. Enter upon the Permittee'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. section 1318(a)(4)(B)(i); 40 CFR section 122.41(i)(1); Water Code sections 13267 and 13383);
- 1.6.2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order (33 U.S.C. section 1318(a)(4)(B)(ii); 40 CFR section 122.41(i)(2); Water Code sections 13267 and 13383);
- 1.6.3. 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. section 1318(a)(4)(B)(ii); 40 CFR section 122.41(i)(3); Water Code sections 13267 and 13383); and
- 1.6.4. Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the Water Code, any substances or parameters at any location. (33 U.S.C. section 1318(a)(4)(B); 40 CFR section 122.41(i)(4); Water Code sections 13267 and 13383)

### 1.7. Bypass

#### 1.7.1. Definitions

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. (40 CFR section 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 CFR section 122.41(m)(1)(ii).)
- 1.7.2. Bypass not exceeding limitations. The Permittee 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 1.7.3, 1.7.4, and 1.7.5 below. (40 CFR section 122.41(m)(2).)
- 1.7.3. Prohibition of bypass. Bypass is prohibited, and the Los Angeles Water Board may take enforcement action against a Permittee for bypass, unless (40 CFR section 122.41(m)(4)(i)):
  - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage (40 CFR section 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 CFR section 122.41(m)(4)(i)(B)); and
- c. The Permittee submitted notice to the Los Angeles Water Board as required under Standard Provisions Permit Compliance 1.7.5 below. (40 CFR section 122.41(m)(4)(i)(C).)
- 1.7.4. The Los Angeles Water Board may approve an anticipated bypass, after considering its adverse effects, if the Los Angeles Water Board determines that it will meet the three conditions listed in Standard Provisions Permit Compliance 1.7.3 above. (40 CFR section 122.41(m)(4)(ii).)

#### 1.7.5. Notice

- a. Anticipated bypass. If the Permittee knows in advance of the need for a bypass, it shall submit a notice to the Los Angeles Water Board, if possible, at least 10 days before the date of the bypass. As of December 21, 2025, all notices submitted in compliance with this section must be submitted electronically by the Discharger to the Los Angeles Water Board, or initial recipient as defined in 40 CFR section 127.2(b), in compliance with this section and 40 CFR part 3 (including, in all cases, subpart D to part 3), 122.22 and part 127. Part 127 is not intended to undo existing requirements for electronic reporting. Prior to this date, and independent of part 127, the Discharger may be required to report electronically if specified by a particular Order or if required to do so by State law. (40 CFR section 122.41(m)(3)(i).)
- b. Unanticipated bypass. The Permittee shall submit notice of an unanticipated bypass as required in Standard Provisions Reporting 5.5 below (24-hour notice). As of December 21, 2025, all notices submitted in compliance with this section must be submitted electronically by the Discharger to the Los Angeles Water Board or to the initial recipient as defined in 40 CFR section 127.2(b), in compliance with this section and 40 CFR part 3 (including, in all cases, subpart D to part 3), 122.22 and part 127. Part 127 is not intended to undo existing requirements for electronic reporting. Prior to this date, and independent of part 127, the Discharger may be required to report electronically If specified by a particular Order or if required to do so by State Law. (40 CFR section 122.41(m)(3)(ii).)

# 1.8. 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 Permittee. 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 CFR section 122.41(n)(1).)

**1.8.1. 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 1.8.2 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 CFR section 122.41(n)(2).)

- **1.8.2. Conditions necessary for a demonstration of upset**. A Permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that (40 CFR section 122.41(n)(3)):
  - a. An upset occurred and that the Permittee can identify the cause(s) of the upset (40 CFR section 122.41(n)(3)(i));
  - b. The permitted facility was, at the time, being properly operated (40 CFR section 122.41(n)(3)(ii));
  - c. The Permittee submitted notice of the upset as required in Standard Provisions Reporting 5.5.2.b below (24-hour notice) (40 CFR section 122.41(n)(3)(iii)); and
  - d. The Permittee complied with any remedial measures required under Standard Provisions Permit Compliance 1.3 above. (40 CFR section 122.41(n)(3)(iv).)
- **1.8.3. Burden of proof**. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an upset has the burden of proof. (40 CFR section 122.41(n)(4).)

### 2. STANDARD PROVISIONS - PERMIT ACTION

#### 2.1. General

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

### 2.2. Duty to Reapply

If the Permittee wishes to continue an activity regulated by this Order after the expiration date of this Order, the Permittee must apply for and obtain a new permit. (40 CFR section 122.41(b).)

#### 2.3. Transfers

This Order is not transferable to any person except after notice to the Los Angeles Water Board. The Los Angeles Water Board may require modification or revocation and reissuance of the Order to change the name of the Permittee and incorporate such other requirements as may be necessary under the CWA and the Water Code. (40 CFR sections 122.41(I)(3); and 122.61.). STANDARD PROVISIONS – MONITORING

- 3.1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (40 CFR section 122.41(j)(1).)
- 3.2. Monitoring must be conducted according to test procedures approved under 40 CFR part 136 for the analyses of pollutants unless another method is required under 40 CFR chapter 1, subchapter N. Monitoring must be conducted according to sufficiently sensitive test methods approved under 40 CFR part 136 for the analysis of pollutants

or pollutant parameters or as required under 40 CFR chapter 1, subchapter N. For the purposes of this paragraph, a method is sufficiently sensitive when:

- 3.2.1. 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
- 3.2.2. The method has the lowest ML of the analytical methods approved under 40 CFR part 136 or required under 40 CFR 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 CFR part 136 or otherwise required under 40 CFR chapter 1, subchapter N, monitoring must be conducted according to a test procedure specified in this Order for such pollutants or pollutant parameters. (40 CFR §§ 122.21(e)(3), 122.41(j)(4), 122.44(i)(1)(iv).)

## 4. STANDARD PROVISIONS - RECORDS

- 4.1. The Permittee 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 Los Angeles Water Board Executive Officer at any time. (40 CFR part 122.41(j)(2).)
- 4.2. Records of monitoring information shall include:
  - 4.2.1. The date, exact place, and time of sampling or measurements (40 CFR section 122.41(j)(3)(i));
  - 4.2.2. The individual(s) who performed the sampling or measurements (40 CFR section 122.41(j)(3)(ii));
  - 4.2.3. The date(s) analyses were performed (40 CFR section 122.41(j)(3)(iii));
  - 4.2.4. The individual(s) who performed the analyses (40 CFR section 122.41(j)(3)(iv));
  - 4.2.5. The analytical techniques or methods used (40 CFR section 122.41(j)(3)(v)); and
  - 4.2.6. The results of such analyses. (40 CFR section 122.41(j)(3)(vi).)
- 4.3. Claims of confidentiality for the following information will be denied (40 CFR section 122.7(b)):
  - 4.3.1. The name and address of any permit applicant or Permittee (40 CFR section 122.7(b)(1)); and
  - 4.3.2. Permit applications and attachments, permits and effluent data. (40 CFR section 122.7(b)(2).)

### 5. STANDARD PROVISIONS - REPORTING

### 5.1. Duty to Provide Information

The Permittee shall furnish to the Los Angeles Water Board, State Water Board, or USEPA within a reasonable time, any information which the Los Angeles Water Board, State Water Board, or USEPA 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 Permittee shall also furnish to the Los Angeles Water Board, State Water Board, or USEPA copies of records required to be kept by this Order. (40 CFR section 122.41(h); Water Code sections 13267 and 13383.)

# 5.2. Signatory and Certification Requirements

- 5.2.1. All applications, reports, or information submitted to the Los Angeles Water Board, State Water Board, and/or USEPA shall be signed and certified in accordance with Standard Provisions Reporting 5.2.2, 5.2.3, 5.2.4, 5.2.5, and 5.2.6 below. (40 CFR section 122.41(k).)
- 5.2.2. 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 (e.g., Regional Administrators of USEPA). (40 CFR section 122.22(a)(3).).
- 5.2.3. All reports required by this Order and other information requested by the Los Angeles Water Board, State Water Board, or USEPA shall be signed by a person described in Standard Provisions – Reporting 5.2.2 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 5.2.2 above (40 CFR section 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 CFR section 122.22(b)(2)); and
  - c. The written authorization is submitted to the Los Angeles Water Board and State Water Board. (40 CFR section 122.22(b)(3).)
- 5.2.4. If an authorization under Standard Provisions Reporting 5.2.3 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 5.2.3 above must be submitted to the Los Angeles Water Board and State Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative. (40 CFR section 122.22(c).)
- 5.2.5. Any person signing a document under Standard Provisions Reporting 5.2.2 or 5.2.3 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 CFR section 122.22(d).)

5.2.6. Any person providing the electronic signature for documents described in Standard Provisions – 5.2.1, 5.2.2, or 5.2.3 that are submitted electronically shall meet all relevant requirements of Standard Provisions – Reporting 5.2, and shall ensure that all relevant requirements of 40 CFR section 3 (Cross-Media Electronic Reporting) and 40 CFR section 127 (NPDES Electronic Reporting Requirements) are met for that submission. (40 CFR section 122.22(e).)

# 5.3. Monitoring Reports

- 5.3.1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program (Attachment E) in this Order. (40 CFR section 122.41(I)(4).)
- 5.3.2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Los Angeles Water Board or State Water Board. As of December 21, 2016, all reports and forms must be submitted electronically to the initial recipient defined in Standard Provisions Reporting 5.10 and comply with 40 CFR section 3, 40 CFR section 122.22, and 40 CFR section 127. (40 CFR section 122.41(/)(4)(i).)
- 5.3.3. If the Permittee monitors any pollutant more frequently than required by this Order using test procedures approved under 40 CFR part 136, or another method required for an industry-specific waste stream under 40 CFR chapter 1, subchapter N, 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 Los Angeles Water Board or State Water Board. (40 CFR section 122.41(I)(4)(ii).)
- 5.4.4. Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order. (40 CFR section 122.41(*I*)(4)(iii).)

# 5.4. 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 CFR section 122.41(I)(5).)

### 5.5. Twenty-Four Hour Reporting

5.5.1. The Discharger shall report any noncompliance which may endanger health or the environment to the Manager of the Watershed Regulatory Section of the Los Angeles Water Board at (213) 576-6616 and jeong-hee.lim@waterboards.ca.gov. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances. A report shall also be provided within five (5) days of the time the Discharger becomes aware of the circumstances. 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.

As of December 21, 2025, all reports related to combined sewer overflows, sanitary sewer overflows, or bypass events must be submitted electronically to the initial recipient defined in Standard Provisions – Reporting 5.10. The reports shall comply with 40 CFR part 3, 40 CFR section 122.22, and 40 CFR section 127. The Los Angeles 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 CFR section 122.41(I)(6)(i).)

- 5.5.2. 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 CFR section 122.41(I)(6)(ii)(A).)
  - b. Any upset that exceeds any effluent limitation in this Order. (40 CFR section 122.41(I)(6)(ii)(B).)
- 5.5.3. The Los Angeles Water Board may waive the above-required written report under this provision on a case-by-case basis if an oral report has been received within 24 hours. (40 CFR section 122.41(I)(6)(iii).)

# 5.6. Planned Changes

The Permittee shall give notice to the Los Angeles 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 CFR section 122.41(I)(1)):

- 5.6.1. 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 CFR section 122.41(l)(1)(i)); or
- 5.6.2. 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 CFR section 122.41(I)(1)(ii).)

5.6.3. The alteration or addition results in a significant change in the Permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. (40 CFR section 122.41(I)(1)(iii).)

# 5.7. Anticipated Noncompliance

The Permittee shall give advance notice to the Los Angeles Water Board of any planned changes in the permitted facility or activity that may result in noncompliance with this Order's requirements. (40 CFR section 122.41(I)(2).)

# 5.8. Other Noncompliance

The Permittee shall report all instances of noncompliance not reported under Standard Provisions – Reporting 5.3, 5.4, and 5.5 above at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting 5.5 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 5.5 and the applicable required data in appendix A to 40 CFR part 127. As of December 21, 2025, all reports related to combined sewer overflows, sanitary sewer overflows or bypass events submitted in compliance with this section must be submitted electronically by the Discharger to the Los Angeles Water Board/USEPA Region 9 or initial recipient, as defined in 40 CFR § 127.2(b), in compliance with this section and 40 CFR § 3 (including, in all cases, subpart D to 3), 122.22, and 40 CFR § 127. (40 CFR § 122.41(I)(7).)

#### 5.9. Other Information

When the Permittee 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 Los Angeles Water Board, State Water Board, or USEPA, the Permittee shall promptly submit such facts or information. (40 CFR section 122.41(I)(8).)

# 5.10. 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 CFR part 127 to the initial recipient defined in 40 CFR section 127.2(b). USEPA 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 CFR section 127.2(c)]. USEPA will update and maintain this listing. (40 CFR section 122.41(I)(9).)

#### 6. STANDARD PROVISIONS - ENFORCEMENT

- 6.1. The Los Angeles Water Board is authorized to enforce the terms of this Order under several provisions of the Water Code, including, but not limited to, sections 13268, 13385, 13386, and 13387.
- 6.2. The CWA provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the CWA, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the CWA, is

subject to a civil penalty not to exceed \$25,000 per day for each violation. The CWA provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the CWA, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the CWA, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the CWA, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two years, or both. Any person who knowingly violates such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than 6 years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the CWA, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the CWA, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions (40 CFR section 122.41(a)(2); Water Code sections 13385 and 13387).

- 6.3. Any person may be assessed an administrative penalty by the Administrator of USEPA, the Los Angeles Water Board, or State Water Board for violating section 301, 302, 306, 307, 308, 318 or 405 of this CWA, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the CWA. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000. (40 CFR section 122.41(a)(3))
- 6.4. The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than two years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four years, or both. (40 CFR section 122.41(j)(5)).
- 6.5. The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than

\$10,000 per violation, or by imprisonment for not more than six months per violation, or by both. (40 CFR section 122.41(k)(2)).

### 7. ADDITIONAL PROVISIONS - NOTIFICATION LEVELS

# 7.1. Publicly Owned Treatment Works (POTWs)

All POTWs shall provide adequate notice to the Los Angeles Water Board of the following (40 CFR section 122.42(b)):

- 7.1.1. Any new introduction of pollutants into the POTW from an indirect Permittee that would be subject to sections 301 or 306 of the CWA if it were directly discharging those pollutants (40 CFR section 122.42(b)(1)); and
- 7.1.2. 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 CFR section 122.42(b)(2).)
- 7.1.3. 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 CFR section 122.42(b)(3).)

### ATTACHMENT E. MONITORING AND REPORTING PROGRAM

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### ATTACHMENT E - MONITORING AND REPORTING PROGRAM (MRP), (CI-1758)

Section 308(a) of the federal Clean Water Act and sections 122.41(h), (j)-(l), 122,44(i), and 122.48 of Title 40 of the Code of Federal Regulations (40 CFR) requires that all National Pollutant Discharge Elimination System (NPDES) permits specify monitoring and reporting requirements. California Water Code (Water Code) section 13383 also authorizes the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) to establish monitoring, reporting, and recordkeeping requirements. This MRP establishes monitoring, reporting, and recordkeeping requirements that implement federal and California laws and/or regulations.

### 1. GENERAL MONITORING PROVISIONS

- 1.1. All samples shall be representative of the waste discharge under conditions of peak load. Results of monthly, quarterly, semiannual, and annual analyses shall be reported by the due date specified in Table E-23 of the MRP. The Discharger shall make every effort to schedule monitoring so that the different seasons are represented in the quarterly and semiannual monitoring throughout the year.
- 1.2. Pollutants, except those analyzed in the field, shall be analyzed using the analytical methods described in 40 CFR parts 136.3, 136.4, and 136.5; or where no methods are specified for a given pollutant, by methods approved by the Los Angeles Water Board or the State Water Resources Control Board (State Water Board).
- 1.3. Laboratory Certification. Laboratories analyzing effluent samples and receiving water samples shall be certified by the State Water Board, Division of Drinking Water (DDW) Environmental Laboratory Accreditation Program (ELAP) in accordance with Water Code 13176, or approved by the Los Angeles Water Board Executive Officer, and must include quality assurance/quality control (QA/QC) data in their reports. A copy of the laboratory certification shall be provided in the Annual Report due to the Los Angeles Water Board each time a new certification and/or renewal of the certification is obtained.
- 1.4. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR part 136.3. All QA/QC analyses must be run on the same dates that samples are actually analyzed. The Permittee shall retain the QA/QC documentation in its files and make available for inspection and/or submit them when requested by the Los Angeles Water Board. Proper chain of custody procedures must be followed, and a copy of that documentation shall be submitted with the monthly report.
- 1.5. The Discharger shall ensure all monitoring instruments are calibrated and maintained to ensure accuracy of measurements.
- 1.6. For any analyses performed for which no procedure is specified in the United States Environmental Protection Agency (USEPA) guidelines, or in the MRP, the constituent or parameter analyzed, and the method or procedure used must be specified in the monitoring report.
- 1.7. Each monitoring report must affirm in writing that "with the exception of field tests, all analyses were conducted at a laboratory certified for such analyses under the ELAP or approved by the Executive Officer in accordance with current USEPA guideline procedures or as specified in this Monitoring and Reporting Program."

- 1.8. The monitoring report shall specify the USEPA analytical method used, the Method Detection Limit (MDL), and the Reporting Level (RL) [the applicable minimum level (ML) or reported Minimum Level (RML)] for each pollutant. The MLs are those published by the State Water Board in Appendix II of the 2019 Ocean Plan. The ML represents the lowest quantifiable concentration in a sample based on the proper application of all method-based analytical procedures and the absence of any matrix interference. When all specific analytical steps are followed and after appropriate application of method specific factors, the ML also represents the lowest standard in the calibration curve for that specific analytical technique. When there is deviation from the method analytical procedures, such as dilution or concentration of samples, other factors may be applied to the ML depending on the sample preparation. The resulting value is the RML.
- 1.9. The Discharger shall select the analytical method that provides an ML lower than the effluent limitation or performance goal established for a given parameter or where no such requirement exists, the lowest applicable water quality objective in the Ocean Plan. If the effluent limitation, performance goal, or the lowest applicable water quality objective is lower than all the MLs in Appendix II of the 2019 Ocean Plan, the Discharger must select the method with the lowest ML for compliance purposes. The Discharger shall include in the Annual Summary Report a list of the analytical methods employed for each test.
- 1.10. The Discharger shall instruct its laboratories to establish calibration standards so that the ML (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.
- 1.11. If the Discharger samples and performs analyses (other than for process/operational control, startup, research, or equipment testing) on any influent, effluent, or receiving water constituent more frequently than required by this MRP using approved analytical methods, the results of those analyses shall be included in the report. These results shall be reflected in the calculation of the average (or median) used in demonstrating compliance with limitations set forth in this Order.
- 1.12. The Discharger shall develop and maintain a record of all spills or bypasses of raw or partially treated sewage from its collection system or treatment plant according to the requirements in the Waste Discharge Requirements (WDRs) of this Order. This record shall be made available to the Los Angeles Water Board upon request and a spill summary shall be included in the annual summary report.
- 1.13. For all bacteriological analyses, sample dilutions should be performed so the expected range of values is bracketed (for example, with multiple tube fermentation method or membrane filtration method, 2 to 16,000 per 100 ml for total coliform, at a minimum, and 1 to 1000 per 100 ml for *Enterococcus*). The detection methods used for each analysis shall be reported with the results of the analyses.
  - 1.13.1. Detection methods used for coliforms (total and fecal) shall be those presented in Table 1A of 40 CFR part 136 unless alternate methods have been approved in advance by the USEPA pursuant to 40 CFR part 136.

- 1.13.2. Detection methods used for *E. coli* and *Enterococcus* shall be those presented in Table 1A of 40 CFR part 136 or in the USEPA publication EPA 600/4-85/076, *Test Methods for* Escherichia coli *and* Enterococci *in Water By Membrane Filter Procedure*, or any improved method determined by the Los Angeles Water Board to be appropriate.
- 1.14. All receiving and ambient water monitoring conducted in compliance with the MRP must be comparable with the Quality Assurance requirements of the Surface Water Ambient Monitoring Program (SWAMP).
- 1.15. NPDES compliance monitoring focuses on the effects of a specific point source discharge. Generally, it is not designed to assess impacts from other sources of pollution (e.g., nonpoint source runoff, aerial fallout) or to evaluate the current status of important ecological resources in the water body. The scale of existing compliance monitoring programs does not match the spatial and, to some extent, temporal boundaries of the important physical and biological processes in the ocean. In addition, the spatial coverage provided by compliance monitoring programs is less than ten percent of the nearshore ocean environment. Better technical information is needed about status and trends in ocean waters to guide management and regulatory decisions, to verify the effectiveness of existing programs, and to shape policy on marine environmental protection.
- 1.16. The Los Angeles Water Board and USEPA Region 9, working with other groups, have developed a comprehensive basis for effluent and receiving water monitoring appropriate to large publicly owned treatment works (POTWs) discharging to waters of the Southern California Bight. This effort has culminated in the publication by the Southern California Coastal Water Research Project (SCCWRP) of the Model Monitoring Program guidance document (Schiff, K.C., J.S. Brown and S.B. Weisberg. 2001. Model Monitoring Program for Large Ocean Dischargers in Southern California. SCCWRP Tech. Rep. #357. Southern California Coastal Water Research Project, Westminster, CA. 101 pp.). This guidance provides the principles, framework and recommended design for effluent and receiving water monitoring elements that have guided development of the monitoring program described below.
- 1.17. In July 2000, the Santa Monica Bay Restoration Project (SMBRP) published "An Assessment of the Compliance Monitoring System in Santa Monica Bay" to set forth recommendations and priorities for compliance monitoring in Santa Monica Bay. This report reasoned that a reduced level of receiving water monitoring is justified for large POTWs discharging to Santa Monica Bay due to improvements in effluent quality and associated decreases in receiving water impacts. Like the Model Monitoring Program developed by SCCWRP, the SMBRP recommendations are focused on providing answers to management questions and allowing a reduction in POTW receiving water monitoring where discharge effects are well understood. The monitoring plan set forth here has been guided by SMBRP recommendations.
- 1.18. The conceptual framework for the Model Monitoring Program has three components that comprise a range of spatial and temporal scales: (1) core monitoring; (2) regional monitoring; and (3) special studies.

- 1.18.1. Core monitoring is local in nature and focused on monitoring trends in quality and effects of the point source discharge. This includes effluent monitoring as well as some aspects of receiving water monitoring. In the monitoring program described below, these core components are typically referred to as local monitoring.
- 1.18.2. Regional monitoring is focused on questions that are best answered by a region-wide approach that incorporates coordinated survey design and sampling techniques. The major objective of regional monitoring is to collect information required to assess how safe it is to swim in the ocean, how safe it is to eat seafood from the ocean, and whether the marine ecosystem is being protected. Key components of regional monitoring include elements to address pollutant mass emission estimations, public health concerns, monitoring of trends in natural resources, assessment of regional impacts from all contaminant sources, and protection of beneficial uses. The final design of regional monitoring programs is developed by means of steering committees and technical committees comprised of participating agencies and organizations and is not specified in this Order. Instead, for each regional component, the degree and nature of participation of the Permittee is specified. For this Order, these levels of effort are based upon past participation of the Permittee in regional monitoring programs.

The Discharger shall participate in regional monitoring activities coordinated by the SCCWRP or any other appropriate agency approved by the Los Angeles Water Board. The procedures and timelines for the Los Angeles Water Board approval shall be the same as detailed for special studies, below.

1.18.3. Special studies are focused on refined questions regarding specific effects or development of monitoring techniques and are anticipated to be of short duration and/or small scale, although multiyear studies also may be needed. Questions regarding effluent or receiving water quality, discharge impacts, ocean processes in the area of the discharge, or development of techniques for monitoring the same, arising out of the results of core or regional monitoring, may be pursued through special studies. These studies are by nature ad hoc and cannot be typically anticipated in advance of the five-year permit cycle.

The Discharger and the Los Angeles Water Board shall consult annually to determine the need for special studies. Each year, the Discharger shall submit proposals for any proposed special studies to the Los Angeles Water Board by December 31<sup>st</sup> for the following year's monitoring effort (July through June). The following year, detailed scopes of work for proposals, including reporting schedules, shall be presented by the Discharger at a Spring Los Angeles Water Board meeting, to obtain the Los Angeles Water Board approval and to inform the public. Upon approval by the Los Angeles Water Board, the Discharger shall implement its special study or studies.

1.19. Every five years SCCWRP coordinates regional monitoring within the Southern California Bight and compiles monitoring data collected by the dischargers and other participating entities. In 2018, the sixth regional monitoring program (Bight '18) took place primarily during the summer of 2018. The next (seventh) regional monitoring

program (Bight '23) is expected to take place during 2023. While participation in regional monitoring programs is required under this Order, revisions to the Discharger's monitoring program at the direction of the Los Angeles Water Board may be necessary to accomplish the goals of regional monitoring or to allow the performance of special studies to investigate regional or site-specific water issues of concern. These revisions may include a reduction or increase in the number of parameters to be monitored, the frequency of monitoring, or the number and size of samples to be collected, except for effluent monitoring. Such changes may be authorized by the Los Angeles Water Board Executive Officer upon written notification to the Discharger. Proposed changes to the effluent monitoring frequency shall not be considered with respect to these regional monitoring requirements.

Discharger participation in regional monitoring programs is required as a condition of this Order. The Discharger shall complete collection and analysis of samples in accordance with the schedule established by the Steering Committee directing the Bight-wide regional monitoring surveys. The level of participation shall be similar to that provided by the Discharger in previous regional surveys conducted in 1994, 1998, 2003, 2008, 2013, and 2018.

- 1.20. Bay Comprehensive Monitoring Program. The Santa Monica Bay National Estuary Program (SMBNEP) updated the comprehensive monitoring program for Santa Monica Bay in April 2021. This new monitoring program, developed by the Commission's Technical Advisory Committee, culminates efforts that began in the mid-1990s with the identification of key management questions and monitoring priorities. It lays out new monitoring designs for seven major habitats within the Bay:
  - 1.20.1. Pelagic Ecosystem;
  - 1.20.2. Soft Bottom Ecosystem;
  - 1.20.3. Rocky Reefs Bottom Ecosystem;
  - 1.20.4. Rocky Intertidal Ecosystems;
  - 1.20.5. Sandy Shores Ecosystems
  - 1.20.6. Coastal Wetlands Ecosystem; and
  - 1.20.7. Fresh/Riparian Ecosystem.

Design for each habitat includes a core motivating question, several related objectives, specific monitoring approaches, indicators, data products, and sampling designs detailing number and locations of stations, sampling frequency, and measurements to be collected.

The Bay Monitoring Program also includes an implementation plan that includes a detailed schedule, cost estimates for individual Program elements, and recommendations on the Program's management structure, including data management and assessment strategies. The Bay Monitoring Program is designed to be implemented in part through modifications to existing receiving water monitoring programs for major NPDES dischargers into coastal ocean waters. Some elements of this monitoring program already have been implemented, for example, through establishment of periodic Bight-wide regional monitoring surveys (Southern California

Bight Pilot Project '94, Bight '98, Bight '03, Bight '08, Bight '13, and Bight '18) and kelp bed monitoring. However, other elements of the program have yet to be implemented.

The SMBNEP, USEPA Region 9, the Los Angeles Water Board, the Discharger, affected NPDES permit holders, and other interested agencies and stakeholders will develop plans to collaboratively fund these elements of the program and determine each party's level of participation. It is anticipated that funding for the program from the Joint Outfall System will be supplied through a combination of modifications to the Joint Water Pollution Control Plant's (JWPCP's) MRP, including redirection of existing effort and new monitoring efforts relevant to the JWPCP's discharge. When necessary, redirection of existing monitoring requirements and/or the imposition of additional monitoring efforts conducted under the terms of this Order are subject to a public hearing before the Los Angeles Water Board. This Order may be reopened and modified by the Los Angeles Water Board to incorporate conforming monitoring requirements and schedule dates for implementation of the Comprehensive Monitoring Program for Santa Monica Bay (SMNEP, April 2021).

By March 31 of each year, the Permittee shall provide an informational report summarizing to date its contributing activities towards coordinated implementation of the Comprehensive Monitoring Program for Santa Monica Bay National Estuary Program (SMBNEP, April 2021) to the Los Angeles Water Board.

- 1.21. This monitoring program for JWPCP includes requirements to demonstrate compliance with the conditions of the NPDES permit, ensure compliance with State water quality standards, and mandate participation in regional monitoring and/or areawide studies.
- 1.22. The Discharger shall ensure that the results of the Discharge Monitoring Report-Quality Assurance (DMR-QA) Study or the most recent Water Pollution Performance Evaluation Study are submitted annually to the State Water Board at the following address:

State Water Resources Control Board Quality Assurance Program Officer Office of Information Management and Analysis 1001 I Street, Sacramento, CA 95814

#### 2. 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. The North latitude and West longitude information in Tables E-1 to E-8 are approximate for administrative purposes. The asterisk (\*) shows the ammonia sampling locations.

**Table E-1. Influent and Effluent Monitoring Stations** 

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
-	INF-001	Collected at sampling stations located upstream of any in-plant return flows and/or where representative samples of the influent can be obtained.
001, 002, 003, and 004	EFF-001	The effluent sampling station shall be located downstream of any in-plant return flows but before entering the discharge tunnel where representative samples of the effluent can be obtained.  Latitude: 33.79878°, Longitude: -118.28213°
001, 002, 003, and 004	EFF-002A, EFF-002B	These effluent sampling stations shall be located at the outfall manifold at White Point. Samples collected at monitoring location EFF-002A (Latitude: 33.71806°, Longitude: -118.32179°) shall be considered representative of discharges from Discharge Points 001 & 003. Samples collected at EFF-002B (Latitude: 33.71806°, Longitude: -118.32179°) shall be considered representative of discharges from Discharge Points 002 & 004.

Table E-2. Inshore Microbiological Receiving Water Monitoring Stations (Figure E-1)

Discharge Point Name	Monitoring Station Name	Monitoring Location Name	Coordinates	
	RW-IS- IL2	Long Point	33.73667°, -118.40250°	
	RW-IS-IL3	Portuguese Point	33.73750°, -118.37783°	
001, 002, 003,	RW-IS-IL4	Bunker Point	33.72522°, -118.35175°	
and 004	RW-IS-IL5	Royal Palms	33.71733°, -118.32998°	
	RW-IS-IL6	West of Point Fermin	33.70820°, -118.30848°	
	RW-IS -IL7	Cabrillo Beach	33.70333°, -118.28400°	

Table E-3. Offshore Microbiological Receiving Water Monitoring Stations (Figure E-1)

Discharge Point Name	Monitoring Station Name	Monitoring Location Name	Coordinates	
001, 002, 003, and 004	RW-OS-6C	6C	33.70783°, -118.35400°	
	RW-OS-8C	8C	33.69850°, -118.33567°	
	RW-OS-9C	9C	33.68867°, -118.31833°	

Table E-4. Nearshore/Offshore Water Quality Receiving Water Monitoring Stations (Figure E-2)

Discharge	Monitoring			
Point Name	Station Name	Name		
	RW-OS-2501	10-meter depth	33.72783°, -118.12017°	
	RW-OS-2502	20-meter depth	33.69900°, -118.12783°	
	RW-OS-2503	26-meter depth	33.67017°, -118.13533°	
	RW-OS-2504*	33-meter depth	33.64133°, -118.14283°	
	RW-OS-2505*	44-meter depth	33.61250°, -118.15033°	
	RW-OS-2506*	60-meter depth	33.58100°, -118.15900°	
	RW-OS-2601	19-meter depth	33.72050°, -118.18433°	
	RW-OS-2602	23-meter depth	33.69400°, -118.19050°	
	RW-OS-2603	23-meter depth	33.66750°, -118.19667°	
	RW-OS-2604*	32-meter depth	33.64100°, -118.20300°	
	RW-OS-2605*	47-meter depth	33.61467°, -118.20917°	
	RW-OS-2606*	62-meter depth	33.58817°, -118.21550°	
	RW-OS-2701	26-meter depth	33.70767°, -118.24667°	
	RW-OS-2702	26-meter depth	33.68867°, -118.25117°	
	RW-OS-2703	28-meter depth	33.66950°, -118.25567°	
	RW-OS-2704*	50-meter depth	33.65050°, -118.26000°	
004 000 000	RW-OS-2705*	100-meter depth	33.63133°, -118.26450°	
001, 002, 003, and 004	RW-OS-2706*	80-meter depth	33.61217°, -118.26900°	
and 004	RW-OS-2801	10-meter depth	33.70283°, -118.28433°	
	RW-OS-2802*	30-meter depth	33.69333°, -118.28900°	
	RW-OS-2803*	60-meter depth	33.66850°, -118.29683°	
	RW-OS-2804*	100-meter depth	33.65767°, -118.30133°	
	RW-OS-2805	100-meter depth	33.64850°, -118.30400°	
	RW-OS-2806	100-meter depth	33.63700°, -118.30917°	
	RW-OS-2901	10-meter depth	33.71433°, -118.32350°	
	RW-OS-2902*	30-meter depth	33.70700°, -118.32983°	
	RW-OS-2903*	60-meter depth	33.69850°, -118.33567°	
	RW-OS-2904*	100-meter depth	33.68783°, -118.33900°	
	RW-OS-2905	100-meter depth	33.67100°, -118.34617°	
	RW-OS-2906	100-meter depth	33.65417°, -118.35433°	
	RW-OS-3001	10-meter depth	33.73217°, -118.36033°	
	RW-OS-3002*	30-meter depth	33.72233°, -118.36317°	
	RW-OS-3003*	60-meter depth	33.71467°, -118.36600°	
	RW-OS-3004*	100-meter depth	33.70100°, -118.37133°	
	RW-OS-3005	100-meter depth	33.68500°, -118.38100°	

Discharge Point Name	Monitoring Station Name	Monitoring Location Name	Coordinates
	RW-OS-3006	100-meter depth	33.66683°, -118.39067°
	RW-OS-3051	13-meter depth	33.73633°, -118.39433°
	RW-OS-3052*	30-meter depth	33.73317°, -118.40050°
	RW-OS-3053*	60-meter depth	33.73000°, -118.40250°
	RW-OS-3054*	100-meter depth	33.71900°, -118.41100°
	RW-OS-3055	100-meter depth	33.70500°, -118.42200°
	RW-OS-3056	100-meter depth	33.68967°, -118.43317°
	RW-OS-3101	10-meter depth	33.77100°, -118.43017°
	RW-OS-3102*	30-meter depth	33.76500°, -118.43533°
	RW-OS-3103*	60-meter depth	33.75733°, -118.44100°
	RW-OS-3104*	100-meter depth	33.74533°, -118.44983°
	RW-OS-3105	100-meter depth	33.72883°,-118.46117°
	RW-OS-3106	100-meter depth	33.71250°, -118.47550°

Table E-5. Nearshore Light Energy Receiving Water Monitoring Stations (Figure E-3)

Discharge Point Name	Monitoring Station Name	Monitoring Location Name	Coordinates	
	RW-NS-L1	Palos Verdes Point	33.76833°, -118.43033°	
	RW-NS-L2	Long Point	33.73500°, -118.40367°	
004 000 000	RW-NS-L3	Portuguese Point	33.73483°, -118.37783°	
001, 002, 003, and 004	RW-NS-L4	Bunker Point	33.72367°, -118.35183°	
	RW-NS-L5	Royal Palms	33.71400°, -118.33167°	
	RW-NS-L6	West of Point Fermin	33.70600°, -118.30933°	
	RW-NS-L7	Cabrillo Beach	33.69733°, -118.28533°	

Table E-6. Benthic Sediment Chemistry Receiving Water Monitoring Stations (Figure E-4)

Discharge Point Name	Monitoring Station Name	Monitoring Location Name	Coordinates	
	RW-B-0A	305-meter depth	33.81833°, -118.45417°	
	RW-B-0B	152-meter depth	33.81167°, -118.44167°	
	RW-B-0C	61-meter depth	33.80717°, -118.43050°	
004 000 000	RW-B-0D	30-meter depth	33.80283°, -118.42267°	
001, 002, 003, and 004	RW-B-1A	305-meter depth	33.74533°, -118.44983°	
and 004	RW-B-1B	152-meter depth	33.74950°, -118.44683°	
	RW-B-1C	61-meter depth	33.75733°, -118.44100°	
	RW-B-1D	30-meter depth	33.76500°, -118.43533°	
	RW-B-2A	305-meter depth	33.72700°, -118.42867°	

Discharge Point Name	Monitoring Station Name	Monitoring Location Name	Coordinates
	RW-B-2B	152-meter depth	33.73250°, -118.42583°
	RW-B-2C	61-meter depth	33.73767°, -118.42317°
	RW-B-2D	30-meter depth	33.74117°, -118.42133°
	RW-B-3A	305-meter depth	33.71900°, -118.41100°
	RW-B-3B	152-meter depth	33.72383°, -118.40733°
	RW-B-3C	61-meter depth	33.73000°, -118.40250°
	RW-B-3D	30-meter depth	33.73317°, -118.40050°
	RW-B-4A	305-meter depth	33.71167°, -118.38967°
	RW-B-4B	152-meter depth	33.71667°, -118.38733°
	RW-B-4C	61-meter depth	33.72333°, -118.38467°
	RW-B-4D	30-meter depth	33.73183°, -118.38050°
	RW-B-5A	305-meter depth	33.70100°, -118.37133°
	RW-B-5B	152-meter depth	33.70900°, -118.36800°
	RW-B-5C	61-meter depth	33.71467°, -118.36600°
	RW-B-5D	30-meter depth	33.72233°, -118.36317°
	RW-B-6A	305-meter depth	33.69983°, -118.35933°
	RW-B-6B	152-meter depth	33.70300°, -118.35583°
	RW-B-6C	61-meter depth	33.70783°, -118.35400°
	RW-B-6D	30-meter depth	33.71633°, -118.34850°
	RW-B-7A	305-meter depth	33.69767°, -118.35317°
	RW-B-7B	152-meter depth	33.70083°, -118.35150°
	RW-B-7C	61-meter depth	33.70517°, -118.34867°
	RW-B-7D	30-meter depth	33.71267°, -118.34350°
	RW-B-8A	305-meter depth	33.68783°, -118.33900°
	RW-B-8B	152-meter depth	33.69217°, -118.33733°
	RW-B-8C	61-meter depth	33.69850°, -118.33567°
	RW-B-8D	30-meter depth	33.70700°, -118.32983°
	RW-B-9A	305-meter depth	33.67633°, -118.32433°
	RW-B-9B	152-meter depth	33.68150°, -118.32183°
	RW-B-9C	61-meter depth	33.68867°, -118.31833°
	RW-B-9D	30-meter depth	33.69950°, -118.31300°
	RW-B-10A	305-meter depth	33.65767°, -118.30133°
	RW-B-10B	152-meter depth	33.66217°, -118.29833°
	RW-B-10C	61-meter depth	33.66850°, -118.29683°
	RW-B-10D	30-meter depth	33.69333°, -118.28900°

Table E-7. Bioaccumulation Receiving Water Monitoring Stations (Figure E-5)

Discharge Point Name	Monitoring Station Name	Monitoring Location Name
001, 002, 003, and 004	RW-BA-Z1	Outfall zone: inshore of the 150 meters depth contour between a line bearing 150° magnetic of White Point and a line bearing 180° magnetic off Bunker Point.
	RW-BA-Z2	Intermediate zone: inshore of the 150 meters depth contour between a line bearing 180° (true) magnetic of Portuguese Point (33.73733°, -118.37500°) and a line bearing 270 (true) off 33.74667°, -118.41367°
	RW-BA-Z3	<b>Distant zone</b> : inshore of the 150 meters depth contour and between a line bearing 225° magnetic off the southern face of Palos Verdes Point and a line bearing 235° magnetic off the south end of the Redondo Beach Pier.

Table E-8. Fish and Invertebrate Trawl Receiving Water Monitoring Stations (Figure E-6)

Discharge Point Name	Monitoring Station Name	Monitoring Location Name	Coordinates	
	RW-T-T0/23	23-meter depth	33.80317°, -118.41733°	
	RW-T-T0/61	61-meter depth	33.80950°, -118.43067°	
	RW-T-T0/137	137-meter depth	33.81383°, -118.43933°	
	RW-T-T0/305	305-meter depth	33.82050°, -118.45150°	
	RW-T-T1/23	26-meter depth	33.74417°, -118.41817°	
	RW-T-T1/61	61-meter depth	33.73600°, -118.42050°	
	RW-T-T1/137	137-meter depth	33.73067°, -118.42233°	
001, 002, 003,	RW-T-T1/305	305-meter depth	33.72583°, -118.42733°	
and 004	RW-T-T4/23	27-meter depth	33.71317°, -118.34133°	
	RW-T-T4/61	61-meter depth	33.70550°, -118.34867°	
	RW-T-T4/137	137-meter depth	33.70100°, -118.35083°	
	RW-T-T4/305	305-meter depth	33.70000°, -118.35817°	
	RW-T-T5/23	23-meter depth	33.70483°, -118.31633°	
	RW-T-T5/61	61-meter depth	33.69083°, -118.32183°	
	RW-T-T5/137	137-meter depth	33.68517°, -118.32683°	
	RW-T-T5/305	305-meter depth	33.68083°, -118.33083°	

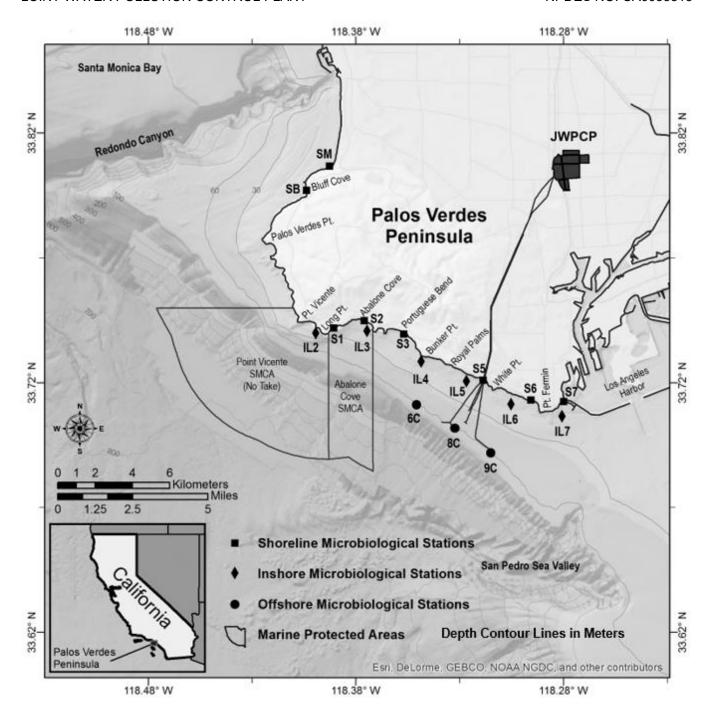


Figure E-1. Shoreline, Inshore and Offshore Microbiological Receiving Water Monitoring Locations

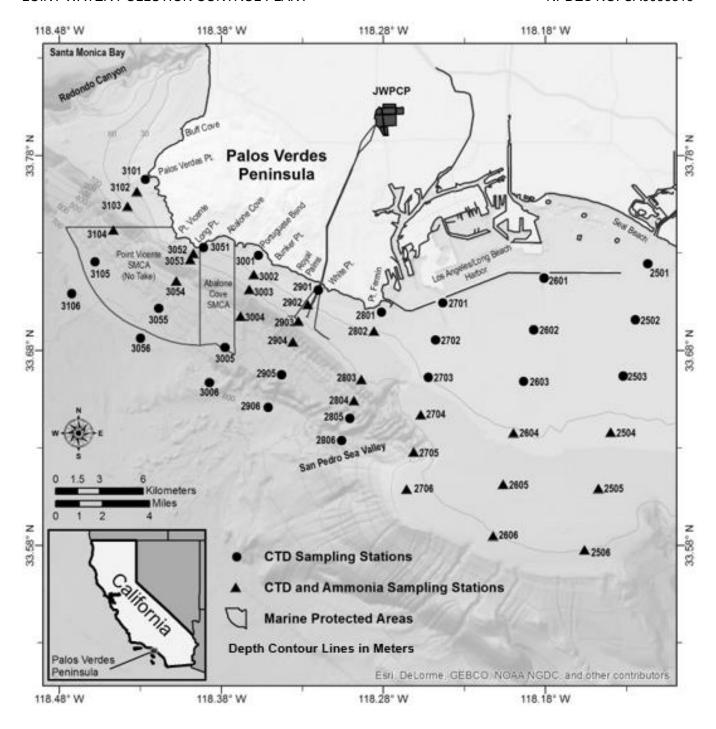


Figure E-2. Nearshore/Offshore Water Quality and Ammonia Receiving Water Monitoring Stations

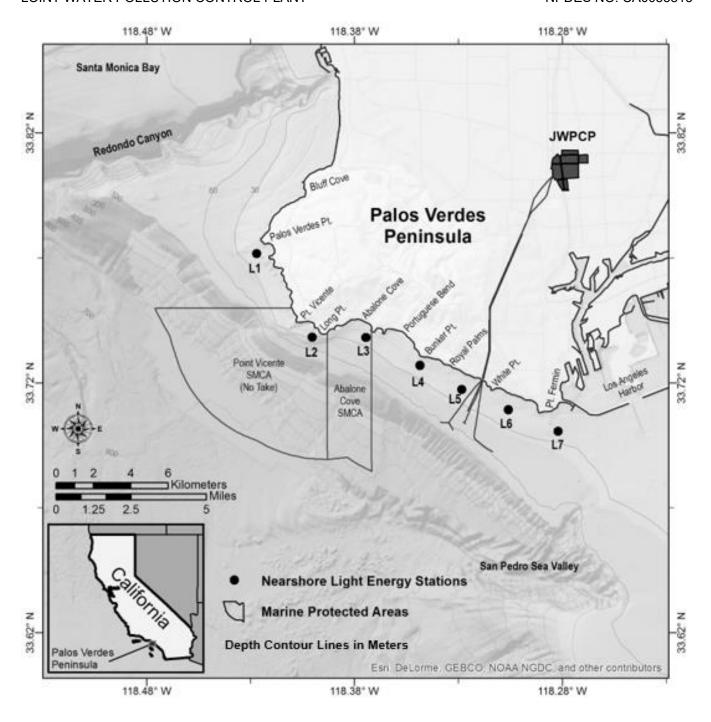


Figure E-3. JWPCP Nearshore Light Receiving Water Monitoring Stations

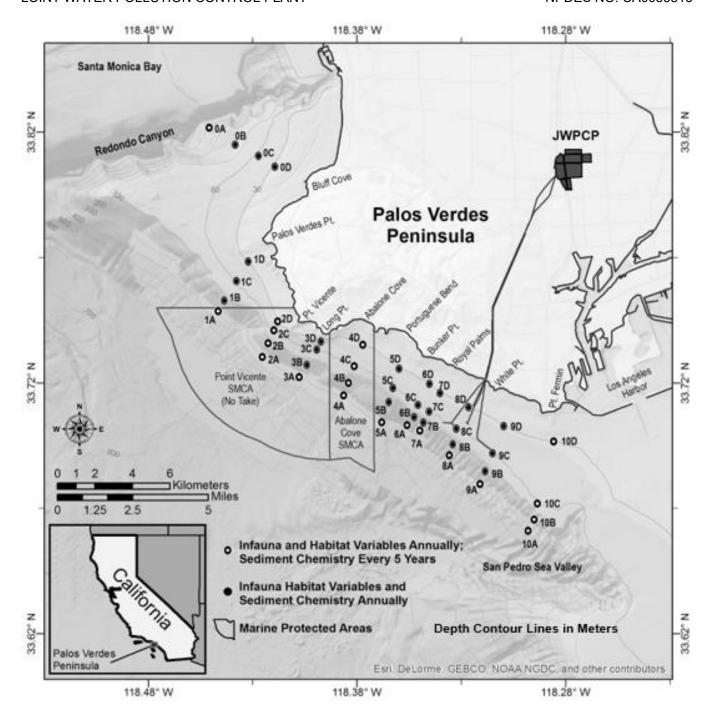


Figure E-4. Benthic Infauna and Sediment Chemistry Receiving Water Monitoring Stations

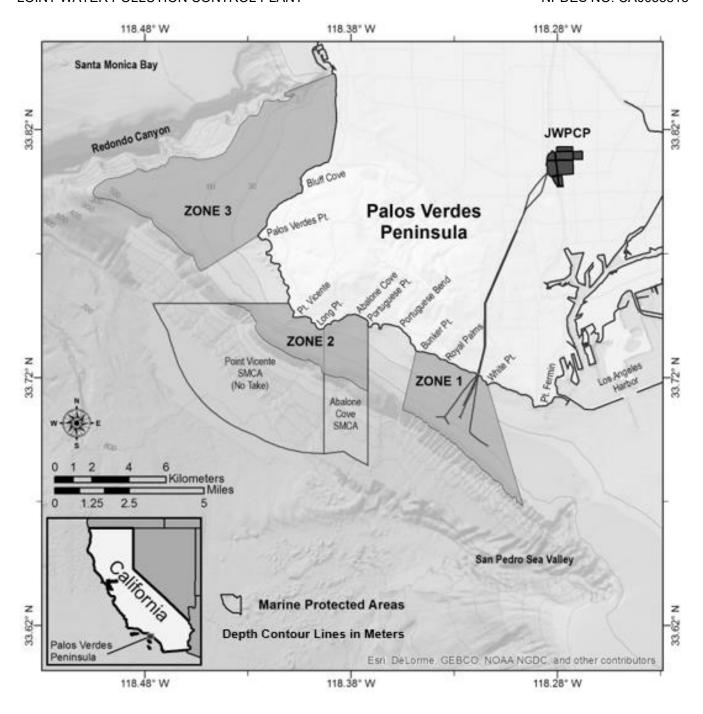


Figure E-5. Local Bioaccumulation Receiving Water Sampling Zones

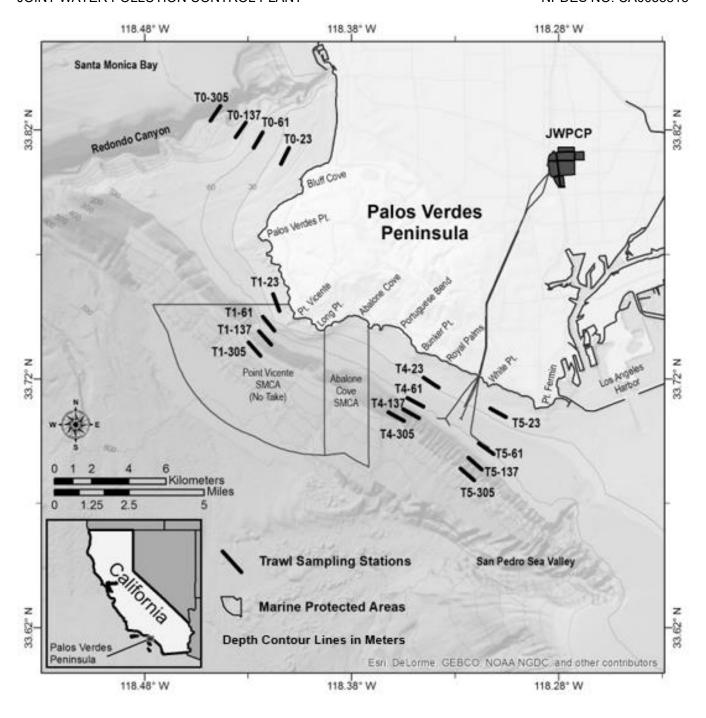


Figure E-6. Trawl Sampling Stations

#### 3. INFLUENT MONITORING REQUIREMENTS

Influent monitoring is required to:

- Determine compliance with NPDES permit conditions.
- Assess treatment plant performance.
- Assess effectiveness of the Pretreatment Program.

#### 3.1. Monitoring Location INF-001

Influent grab samples (except for oil and grease) are collected from three influent sewers upstream of the bar screens, composited, and analyzed as a single grab sample. Influent grab samples for oil and grease are collected from each of the five grit chambers and analyzed as five separate grab samples.

A representative 24-hour composite sample cannot be collected from the three influent sewers due to high levels of solids that tend to clog the autosamplers, so 24-hour composite influent samples are collected from the five grit chambers. Because the grit chambers do not flow into a central influent sampling point, flow-weighted 24-hour composite samples (except for total suspended solids) are collected from each of the five grit chambers and analyzed as a single 24-hour composite sample. Influent 24-hour composite samples for total suspended solids are collected in each of the five grit chambers, but analyzed as five separate samples.

The Discharger shall monitor influent to the facility at INF-001 as follows:

**Table E-9. Influent Monitoring** 

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Flow	MGD	recorder/totalizer	continuous	а
Biochemical Oxygen Demand (BOD₅ 20°C)	mg/L	24-hr composite	weekly	b
Total Suspended Solids (TSS)	mg/L	24-hr composite	weekly	b
pН	pH units	grab	weekly	b
Oil and Grease	mg/L	grab	weekly	b, c
Total Organic Carbon (TOC)	mg/L	24-hour composite	monthly	b
Total Nitrogen (as N)	mg/L	calculated	quarterly	b
Nitrate Nitrogen	mg/L	24-hour composite	quarterly	b
Nitrite Nitrogen	mg/L	24-hour composite	quarterly	b
Organic Nitrogen	mg/L	24-hour composite	quarterly	b
Total phosphorus (as P)	mg/L	24-hr composite	quarterly	b
Arsenic	μg/L	24-hr composite	quarterly	b, d
Cadmium	μg/L	24-hr composite	quarterly	b, d
Chromium (VI)	μg/L	grab	quarterly	b, d

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Copper	μg/L	24-hr composite	quarterly	b, d
Lead	μg/L	24-hr composite	semiannually	b, d
Mercury	μg/L	24-hr composite	semiannually	d, e
Nickel	μg/L	24-hr composite	quarterly	b, d
Selenium	μg/L	24-hr composite	quarterly	b, d
Silver	μg/L	24-hr composite	quarterly	b, d
Zinc	μg/L	24-hr composite	quarterly	b, d
Cyanide	μg/L	grab	quarterly	b
Ammonia Nitrogen	mg/L	24-hr composite	weekly	b
Phenolic Compounds (non-chlorinated)	μg/L	24-hr composite	quarterly	b, f
Phenolic Compounds (chlorinated)	μg/L	24-hr composite	quarterly	b, f
Endosulfan	μg/L	24-hr composite	semiannually	b, f
Endrin	μg/L	24-hr composite	semiannually	b
Hexachlorocyclohexane (HCH)	μg/L	24-hr composite	quarterly	b, f
Radioactivity (including gross alpha, gross, beta, combined radium-226 & radium-228, tritium, strontium-90 and uranium)	pCi/L	24-hr composite	quarterly	g
Acrolein	μg/L	grab	semiannually	b
Antimony	μg/L	24-hr composite	quarterly	b, d
Bis(2-chloroethoxy) methane	μg/L	24-hr composite	semiannually	b
Bis(2-chloroisopropyl) ether	μg/L	24-hr composite	semiannually	b
Chlorobenzene	μg/L	grab	semiannually	b
Chromium (III)	μg/L	calculated	quarterly	b, d
Di-n-butyl phthalate	μg/L	24-hr composite	semiannually	b
Dichlorobenzenes	μg/L	grab	semiannually	b, f
Diethyl phthalate	μg/L	24-hr composite	semiannually	b
Dimethyl phthalate	μg/L	24-hr composite	semiannually	b
4,6-dinitro-2-methylphenol	μg/L	24-hr composite	semiannually	b
2,4-dinitrophenol	μg/L	24-hr composite	semiannually	b
Ethylbenzene	μg/L	grab	semiannually	b
Fluoranthene	μg/L	24-hr composite	semiannually	b

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Hexachlorocyclopentadiene	μg/L	24-hr composite	semiannually	b
Nitrobenzene	μg/L	24-hr composite	semiannually	b
Thallium	μg/L	24-hr composite	semiannually	b, d
Toluene	μg/L	grab	quarterly	b
Tributyltin	ng/L	24-hour composite	semiannually	b
1,1,1-Trichloroethane	μg/L	grab	semiannually	b
Acrylonitrile	μg/L	grab	semiannually	b
Aldrin	μg/L	24-hr composite	monthly	b
Benzene	μg/L	grab	semiannually	b
Benzidine	μg/L	24-hr composite	semiannually	b
Beryllium	μg/L	24-hr composite	semiannually	b, d
Bis(2-chloroethyl) ether	μg/L	24-hr composite	semiannually	b
Bis(2-ethylhexyl) phthalate	μg/L	24-hr composite	quarterly	h
Carbon tetrachloride	μg/L	grab	semiannually	b
Chlordane	μg/L	24-hr composite	semiannually	b, f
Chlorodibromomethane	μg/L	grab	quarterly	b
Chloroform	μg/L	grab	quarterly	b
DDT	μg/L	24-hr composite	quarterly	b, f
1,4-dichlorobenzene	μg/L	grab	semiannually	b
3,3'-dichlorobenzidine	μg/L	24-hr composite	semiannually	b
1,2-Dichloroethane	μg/L	grab	semiannually	b
1,1-Dichloroethylene	μg/L	grab	semiannually	b
Dichlorobromomethane	μg/L	grab	quarterly	b
Dichloromethane	μg/L	grab	quarterly	b
1,3-Dichloropropene	μg/L	grab	semiannually	b
Dieldrin	μg/L	24-hr composite	monthly	b
2,4-dinitrotoluene	μg/L	24-hr composite	semiannually	b
1,2-diphenylhydrazine	μg/L	24-hr composite	semiannually	b
Halomethanes	μg/L	grab	semiannually	b, f
Heptachlor	μg/L	24-hr composite	semiannually	b
Heptachlor epoxide	μg/L	24-hr composite	semiannually	b
Hexachlorobenzene	μg/L	24-hr composite	semiannually	b
Hexachlorobutadiene	μg/L	24-hr composite	semiannually	b
Hexachloroethane	μg/L	24-hr composite	semiannually	b
Isophorone	μg/L	24-hr composite	semiannually	b

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
N-nitrosodimethylamine	μg/L	24-hr composite	quarterly	b
N-nitrosodi-n-propylamine	μ <b>g</b> /L	24-hr composite	semiannually	b
N-nitrosodiphenylamine	μ <b>g</b> /L	24-hr composite	semiannually	b
Polycyclic Aromatic Hydrocarbons (PAHs)	μg/L	24-hr composite	quarterly	b, f
Polychlorinated Biphenyls (PCBs) as aroclors	μg/L	24-hr composite	quarterly	f, i
TCDD Equivalents	pg/L	24-hr composite	quarterly	f, h, j
1,1,2,2-Tetrachloroethane	μg/L	grab	semiannually	b
Tetrachloroethylene	μ <b>g</b> /L	grab	quarterly	b
Toxaphene	μg/L	24-hr composite	semiannually	b
Trichloroethylene	μ <b>g</b> /L	grab	semiannually	b
1,1,2-Trichloroethane	μ <b>g</b> /L	grab	semiannually	b
2,4,6-Trichlorophenol	μ <b>g</b> /L	24-hr composite	semiannually	b
Vinyl chloride	μ <b>g</b> /L	grab	semiannually	b
Methyl-tert-butyl-ether	μg/L	grab	semiannually	b
Total Chromium	μg/L	grab	quarterly	b, d

- Total daily flow, the monthly average flow, and instantaneous peak daily flow (24-hr basis) shall be reported. The actual monitored flow shall also be reported (not the design capacity).
- b. Pollutants shall be analyzed using the analytical methods described in 40 CFR part 136; where no methods are specified for a given pollutant, those methods shall be approved by the Los Angeles Water Board or State Water Board. For any pollutant whose effluent limitation is lower than all the MLs specified in Appendix II of the 2019 Ocean Plan, the analytical method with the lowest ML must be selected.
- c. Oil and grease monitoring shall consist of a single grab sample at peak flow over a 24-hour period.
- d. Concentrations shall be expressed as total recoverable.
- e. USEPA Method 1631E, with a quantification level of 0.5 ng/L, shall be used to analyze total mercury.
- f. See section 8 of this Order and Attachment A for definition of terms.
- g. Analyze these radiochemicals by the following USEPA methods: method 900.0 for gross alpha and gross beta, method 903.0 or 903.1 for radium-226, method 904.0 for radium-228, method 906.0 for tritium, method 905.0 for strontium-90, and method 908.0 for uranium. Analysis for combined radium-226 & 228 shall be conducted only if gross alpha and gross

beta results for the same sample exceed 15 pCi/L or 50 pCi/L, respectively. If radium-226 & 228 exceeds 5 pCi/L, then analyze for tritium, strontium-90, and uranium.

- h. The 40 CFR Part 136 method for phthalate esters including bis (2-ethylhexyl) phthalate and TCDD equivalents requires samples to be collected in glass sample containers to avoid interference, which can lead to artifacts and/or elevated baselines in gas chromatograms. Sample collection must be done using glass sample containers for all phthalate esters including bis (2-ethylhexyl) phthalate and TCDD equivalents unless analytical methods for these pollutants in 40 CFR Part 136 specify that other means of sample collection are approved. Grab sample type is recommended, but an automatic sampler (composite sample) can be used to collect samples for all phthalate esters including bis (2-ethylhexyl) phthalate and TCDD equivalents as long as the sample bottles are glassware.
- i. PCBs as aroclors shall be analyzed using USEPA method 608.3.
- j. USEPA Method 1613 shall be used to analyze TCDD equivalents.

# **End of Footnotes for Table E-9**

#### 4. EFFLUENT MONITORING REQUIREMENTS

Effluent monitoring is required to:

- Determine compliance with NPDES permit conditions and water quality standards.
- Assess and improve plant performance and identify operational problems.
- Provide information on wastewater characteristics and flows for use in interpreting water quality and biological data.
- Conduct reasonable potential analysis for toxic pollutants.
- Determine waste load allocation compliance and TMDL effectiveness.

# 4.1. Monitoring Location EFF-001, EFF-002A and EFF-002B

The Discharger shall monitor at effluent monitoring location EFF-001 for all parameters in Table 3, except chlorine residual and bacteria. The chlorine residual and bacteria samples shall be collected at effluent manifold monitoring locations EFF-002A and EFF-002B. Effluent limitations for chlorine residual and bacteria applicable to discharges through Discharge Points 001 and 003 shall apply at manifold monitoring location EFF-002A. Effluent limitations for chlorine residual and bacteria applicable to discharges through Discharge Points 002 and 004 shall apply at manifold monitoring location EFF-002B. If more than one analytical test method is listed for a given parameter, the Discharger must select from the listed methods and corresponding ML.

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Flow	MGD	recorder/totalizer	continuous	a, b
BOD <sub>5</sub> 20°C	mg/L	24-hr composite	weekly	a, c
Total Suspended solids	mg/L	24-hr composite	weekly	a, c

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
рН	pH units	grab	weekly	a, c
Oil and grease	mg/L	grab	weekly	a, c, d
Temperature	°F	recorder	continuous	a, c
Settleable solids	mL/L	grab	weekly	a, c, d
Turbidity	NTU	24-hr composite and grab	weekly	a, c
Total coliform (at manifold stations)	CFU/100 ml or MPN/100 ml	grab	daily	a, c
Fecal coliform (at manifold stations)	CFU/100 ml or MPN/100 ml	grab	5 times/month	a, c
Enterococcus (at manifold stations)	CFU/100 ml or MPN/100 ml	grab	daily	a, c
Total Organic Carbon	mg/L	24-hr composite	monthly	a, c
Nitrate nitrogen	mg/L	24-hr composite	quarterly	a, c
Nitrite Nitrogen	mg/L	24-hr composite	quarterly	a, c
Organic nitrogen	mg/L	24-hr composite	quarterly	a, c
Total Nitrogen (as N)	mg/L	calculated	quarterly	a, c
Total Phosphorus (as P)	mg/L	24-hr composite	quarterly	a, c
Arsenic	μ <b>g</b> /L	24-hr composite	quarterly	a, c, e
Cadmium	μg/L	24-hr composite	quarterly	a, c, e
Chromium (VI)	μg/L	grab	quarterly	a, c, e
Copper	μg/L	24-hr composite	quarterly	a, c, e
Lead	μ <b>g/L</b>	24-hr composite	semiannually	a, c, e
Mercury	μg/L	24-hr composite	semiannually	a, e, f
Nickel	μg/L	24-hr composite	quarterly	a, c, e
Selenium	μg/L	24-hr composite	quarterly	a, c, e
Silver	μg/L	24-hr composite	quarterly	a, c, e
Zinc	μg/L	24-hr composite	quarterly	a, c, e
Cyanide	μg/L	grab	quarterly	a, c
Total chlorine residual (at manifold stations)	mg/L	grab	daily	a, c
Ammonia nitrogen	mg/L	24-hr composite	weekly	a, c

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Toxicity, chronic	Pass or Fail, % Effect (TST)	24-hr composite	monthly	a, c, g
Phenolic compounds (non-chlorinated)	μg/L	24-hr composite	quarterly	a, c, h
Phenolic compounds (chlorinated)	μg/L	24-hr composite	quarterly	a, c, h
Endosulfan	μg/L	24-hr composite	semiannually	a, c, h
Endrin	μg/L	24-hr composite	semiannually	a, c
HCH	μg/L	24-hr composite	quarterly	a, c, h
Radioactivity (Including gross alpha, gross beta, combined radium-226 and radium-228, tritium, strontium-90 and uranium)	pCi/L	24-hr composite	quarterly	a, i
Acrolein	μg/L	grab	semiannually	a, c
Antimony	μg/L	24-hr composite	quarterly	a, c, e
Bis(2-chloroethoxy) methane	μg/L	24-hr composite	semiannually	a, c
Bis(2-chloroisopropyl) ether	μg/L	24-hr composite	semiannually	a, c
Chlorobenzene	μg/L	grab	semiannually	a, c
Chromium (III)	μg/L	calculated	quarterly	a, c, e
Di-n-butyl phthalate	μg/L	24-hr composite	semiannually	a, c
Dichlorobenzenes	μg/L	grab	semiannually	a, c, h
Diethyl phthalate	μg/L	24-hr composite	semiannually	a, c
Dimethyl phthalate	μg/L	24-hr composite	semiannually	a, c
2-Methyl-4,6-dinitrophenol	μg/L	24-hr composite	semiannually	a, c
2,4-Dinitrophenol	μg/L	24-hr composite	semiannually	a, c
Ethylbenzene	μg/L	grab	semiannually	a, c
Fluoranthene	μg/L	24-hr composite	semiannually	a, c
Hexachlorocyclo- pentadiene	μg/L	24-hr composite	semiannually	a, c
Nitrobenzene	μg/L	24-hr composite	semiannually	a, c
Thallium	μg/L	24-hr composite	semiannually	a, c, e
Toluene	μg/L	grab	quarterly	a, c
Tributyltin	ng/L	24-hr composite	semiannually	a, c

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
1,1,1-Trichloroethane	μ <b>g</b> /L	grab	semiannually	a, c
Acrylonitrile	μg/L	grab	semiannually	a, c
Aldrin	μg/L	24-hr composite	monthly	a, c
Benzene	μg/L	grab	semiannually	a, c
Benzidine	μ <b>g</b> /L	24-hr composite	quarterly	a, c
Beryllium	μ <b>g</b> /L	24-hr composite	semiannually	a, c, e
Bis(2-chloroethyl) ether	μg/L	24-hr composite	semiannually	a, c
Bis(2-ethylhexyl) phthalate	μ <b>g/L</b>	24-hr composite	quarterly	a, c, j
Carbon tetrachloride	μg/L	grab	semiannually	a, c
Chlordane	μ <b>g</b> /L	24-hr composite	quarterly	a, c, h
Chlorodibromomethane	μg/L	grab	quarterly	a, c
Chloroform	μg/L	grab	quarterly	a, c
DDT	μg/L	24-hr composite	quarterly	a, c, h
1,4-Dichlorobenzene	μg/L	grab	semiannually	a, c
3,3'-Dichlorobenzidine	μg/L	24-hr composite	quarterly	a, c
1,2-Dichloroethane	μg/L	grab	semiannually	a, c
1,1-Dichloroethylene	μ <b>g</b> /L	grab	semiannually	a, c
Dichlorobromomethane	μg/L	grab	quarterly	a, c
Dichloromethane	μg/L	grab	quarterly	a, c
1,3-Dichloropropene	μg/L	grab	semiannually	a, c
Dieldrin	μg/L	24-hr composite	monthly	a, c
2,4-Dinitrotoluene	μg/L	24-hr composite	semiannually	a, c
1,2-Diphenylhydrazine	μg/L	24-hr composite	semiannually	a, c
Halomethanes	μg/L	grab	semiannually	a, c, h
Heptachlor	μg/L	24-hr composite	semiannually	a, c
Heptachlor epoxide	μg/L	24-hr composite	semiannually	a, c
Hexachlorobenzene	μg/L	24-hr composite	quarterly	a, c
Hexachlorobutadiene	μg/L	24-hr composite	semiannually	a, c
Hexachloroethane	μg/L	24-hr composite	semiannually	a, c
Isophorone	μg/L	24-hr composite	semiannually	a, c
N-Nitrosodimethylamine	μg/L	24-hr composite	quarterly	a, c
N-Nitrosodi-n-propylamine	μg/L	24-hr composite	semiannually	a, c
N-Nitrosodiphenylamine	μg/L	24-hr composite	semiannually	a, c
PAHs	μg/L	24-hr composite	quarterly	a, c, h

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
PCBs as aroclors	μg/L	24-hr composite	quarterly	a, h, k
PCBs as congeners	μg/L	24-hr composite	annually	a, I
TCDD equivalents	pg/L	24-hr composite	quarterly	a, h, j, m
1,1,2,2-Tetrachloroethane	μg/L	grab	semiannually	a, c
Tetrachloroethylene	μg/L	grab	quarterly	a, c
Toxaphene	μg/L	24-hr composite	quarterly	a, c
Trichloroethylene	μg/L	grab	semiannually	a, c
1,1,2-Trichloroethane	μg/L	grab	semiannually	a, c
2,4,6-Trichlorophenol	μg/L	24-hr composite	semiannually	a, c
Vinyl chloride	μg/L	grab	semiannually	a, c
Methyl-tert-butyl-ether	μg/L	grab	semiannually	a, c
Total Chromium	μg/L	grab	quarterly	a, c, e
PFAS	ng/L	grab	annually	n

- a. For Discharge Points 001 and 002 the minimum frequency of analysis shall be once per discharge day, but no more than one analysis is required during the indicated sampling period for those constituents that are monitored less frequently. During routine maintenance activities lasting less than 24 hours at Outfalls 001 and 002, sampling and analyses are not required except for parameters with instantaneous maximum effluent limitations: pH, oil and grease, settleable solids, turbidity, and total chlorine residuals. Compliance with the instantaneous maximum final effluent limitations (with the exception of total residual chlorine) for Outfalls 001 and 002 may be determined at the compliance location for Discharge Points 003 and 004 during routine maintenance as long as there is no plant upset during maintenance and the sample is representative of the final effluent discharged through all points. The maximum daily, average weekly, and average monthly effluent limitations shall apply to flow weighted 24-hour composite samples. They may apply to grab samples if the collection of composite samples for those constituents is not appropriate because of the instability of the constituents.
- b. When continuous monitoring of flow is required, total daily flow, monthly average flow, and instantaneous peak daily flow (24-hour basis) shall be reported. Actual monitored flow shall be reported (not design capacity).
- c. Pollutants shall be analyzed using the analytical methods described in 40 CFR part 136; where no methods are specified for a given pollutant, those methods shall be approved by the Los Angeles Water Board, State Water Board, and USEPA Region 9. For any pollutant whose effluent limitation is lower than all the MLs specified in Appendix II of the 2019 Ocean Plan, the analytical method with the lowest ML must be selected.
- d. Oil and grease, and settleable solids monitoring shall consist of a single grab sample at peak flow over a 24-hour period.

- e. Total recoverable concentrations shall be reported.
- f. USEPA Method 1631E, with a quantification level of 0.5 ng/L, shall be used to analyze total mercury.
- g. Whole effluent toxicity monitoring is required for Discharge Points 001 and 002 using the most sensitive species as the test species, as outlined in section 5 of the MRP.
- h. See section 8 of this Order and Attachment A for definition of terms.
- i. Analyze these radiochemicals by the following USEPA methods: method 900.0 for gross alpha and gross beta, method 903.0 or 903.1 for radium-226, method 904.0 for radium-228, method 906.0 for tritium, method 905.0 for strontium-90, and method 908.0 for uranium. Analysis for combined radium-226 & 228 shall be conducted only if gross alpha and gross beta results for the same sample exceed 15 pCi/L or 50 pCi/L, respectively. If radium-226 & 228 exceeds 5 pCi/L, then analyze for tritium, strontium-90, and uranium.
- j. The 40 CFR Part 136 method for phthalate esters including bis (2-ethylhexyl) phthalate and for TCDD equivalents requires samples to be collected in glass sample containers to avoid interference, which can lead to artifacts and/or elevated baselines in gas chromatograms. Sample collection must be done using glass sample containers for all phthalate esters including bis (2-ethylhexyl) phthalate and TCDD equivalents unless analytical methods for these pollutants in 40 CFR Part 136 specify that other means of sample collection are approved. Grab sample type is recommended, but an automatic sampler (composite sample) can be used to collect samples for all phthalate esters including bis (2-ethylhexyl) phthalate and TCDD equivalents as long as the sample bottles are glassware.
- k. PCBs as aroclors shall be analyzed using USEPA method 608.3.
- I. PCBs as congeners shall be individually quantified (or quantified as mixtures of isomers of a single congener in co-elutions as appropriate) using USEPA proposed method 1668c. PCBs as congeners shall be analyzed using method EPA 1668c for three years and an alternate method may be used if none of the PCB congeners are detected for three years using method EPA 1668c. USEPA recommends that until USEPA proposed method 1668c for PCBs is incorporated into 40 CFR § 136, permittees should use for discharge monitoring reports/State monitoring reports: (1) USEPA method 608 for monitoring data, reported as aroclor results, that will be used for assessing compliance with WQBELs (if applicable) and (2) USEPA proposed method 1668c for monitoring data, reported as 41 congener results, that will be used for informational purposes to help assess concentrations in the receiving water.
- m. USEPA Method 1613 shall be used to analyze TCDD equivalents.
- n. Department of Defense's Quality System Manual (DOD QSM version 5.1 or higher) or other ELAP-accredited methodologies for the analysis of PFAS in wastewaters shall be used to meet the required reporting limit of 50 ng/L. The ELAP accredited method for each group of compounds will specify which specific analytes can be measured. All analytes that can be measured using the selected ELAP-accredited method shall be analyzed.

## **End of Footnotes for Table E-10**

#### 4.2. Mass Emission Benchmarks

Constituents that have been assigned Mass Emission Benchmarks are listed in the NPDES Order under Section 5. The Mass Emission Benchmarks have been established for the discharge through Discharge Points 001 and 002 and shall be reported in metric tons per year (MT/yr). The Discharger shall monitor and report the mass emission rate for all constituents that have mass emission benchmarks. For each constituent, the 12-month average mass emission rate and the concentration and flow used to calculate that mass emission rate shall be reported in the annual NPDES summary report. Mass emission benchmarks are not established for Discharge Points 003 and 004.

#### 5. CHRONIC WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

# 5.1. Discharge In-stream Waste Concentration (IWC) for Chronic Toxicity

The chronic IWC is the concentration of a pollutant or the parameter toxicity in the receiving water after mixing. The chronic toxicity IWC for Outfalls 001 and 002 is 0.60 percent effluent; for Outfall 003 is 0.66 percent and for Outfall 004 is 0.86 percent.

## 5.2. Sample Volume and Holding Time

The total sample volume shall be determined by the specific toxicity test method used. Sufficient sample volume shall be collected to perform the required toxicity test. For the receiving water, sufficient sample volume shall also be collected during accelerated monitoring for subsequent TIE studies, if necessary, at each sampling event. All toxicity tests shall be conducted as soon as possible following sample collection. No more than 36 hours shall elapse before the conclusion of sample collection and test initiation.

# 5.3. Chronic Marine Species and Test Methods

If effluent samples are collected from outfalls discharging to receiving waters with salinity >1 ppt, the Permittee shall conduct the following chronic toxicity tests on effluent samples, at the in-stream waste concentration for the discharge, in accordance with species and test methods in *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms* (EPA/600/R-95/136, 1995). Artificial sea salts or hypersaline brine shall be used to increase sample salinity if needed. In no case shall these species be substituted with another test species unless written authorization from the Los Angeles Water Board Executive Officer is received

- 5.3.1. A static renewal toxicity test with the topsmelt, *Atherinops affinis* (Larval Survival and Growth Test Method 1006.0).
- 5.3.2. A static non-renewal toxicity test with the purple sea urchin, *Strongylocentrotus* purpuratus, and the sand dollar, *Dendraster excentricus* (Fertilization Test Method 1008.0), or a static non-renewal toxicity test with the red abalone, *Haliotis rufescens* (Larval Shell Development Test Method).
- 5.3.3. A static non-renewal toxicity test with the giant kelp, *Macrocystis pyrifera* (Germination and Growth Test Method 1009.0).

#### 5.4. Species Sensitivity Screening

The Permittee may begin a species sensitivity screening for chronic aquatic toxicity at least 18 months prior to the expiration date of this Order. For continuous dischargers, species sensitivity screening includes four sets of valid tests completed in the span of one year, with one set collected in each of the four quarters. In each of the four sets, the Permittee shall collect a single effluent sample to initiate and concurrently conduct three toxicity tests using the fish, an invertebrate, and the alga species previously referenced. This sample shall also be analyzed for the parameters required on a monthly frequency for the discharge, during that given month. As required in the test method for *Atherinops affinis* for off-site tests, a minimum of three samples shall be collected on days one, three, and five with a maximum holding time of 36 hours before the first use. Since the Permittee has conducted a species sensitivity screening prior to the effective date of this Order, the most sensitive species selected during that screening process shall be used for the toxicity testing until a new species sensitivity screening is conducted.

If the results of all 12 valid tests conducted during the species sensitivity screening is "Pass," then the species that exhibited the highest percent effect in any single test shall be used for routine monitoring during the following permit cycle. Likewise, if the results of all 12 valid tests conducted during the species sensitivity screening is "Fail," then the species that exhibited the highest percent effect in any single test shall be used for routine monitoring during the following permit cycle. If the result of only one of the 12 valid tests conducted during the species sensitivity screening is "Fail," then the species used in that test shall be used for routine monitoring during the following permit cycle. If there are multiple valid tests conducted during the species sensitivity screening that result in "Fail," the species that resulted in a "Fail" the most often during the species sensitivity screening shall be used in routine monitoring during the following permit cycle. If two species had the same number of tests that result in "Fail" the species that exhibited the highest percent effect in any single test that resulted in "Fail" shall be used during routine monitoring during the following permit cycle.

During the calendar month, toxicity tests used to determine the most sensitive test species shall be reported as effluent compliance monitoring results for the chronic toxicity MDEL.

# 5.5. Quality Assurance and Additional Requirements

Quality assurance measures, instructions, and other recommendations and requirements are found in the test methods manual previously referenced. Additional requirements are specified below:

5.5.1. The discharge is subject to determination of "Pass" or "Fail" from a chronic toxicity test using the Test of Significant Toxicity (TST) statistical t-test approach described in the *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document* (EPA 833-R-10-003, 2010), Appendix A, Figure A-1, Table A-1 and Appendix B, Table B-1. The null hypothesis (H₀) for the TST statistical approach is: Mean discharge IWC response ≤0.75 × Mean control response. A test result that rejects this null hypothesis is reported as "Pass." A test result that does not reject this null hypothesis is reported as "Fail." The relative "Percent Effect" at the discharge IWC is defined and reported as: [(Mean control response - Mean discharge IWC response) ÷ Mean control response] × 100. This is a t-test (formally

Student's t-Test), a statistical analysis comparing two sets of replicate observations - in the case of WET, only two test concentrations (i.e., a control and IWC). The purpose of this statistical test is to determine if the means of the two sets of observations are different (i.e., if the IWC or receiving water concentration differs from the control (the test result is "Pass" or "Fail")). The Welch's t-test employed by the TST statistical approach is an adaptation of Student's t-test and is used with two samples having unequal variances.

5.5.2. If the effluent toxicity test does not meet all test acceptability criteria (TAC) and all required test conditions specified in the referenced Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (See Table E-12 for TAC below), the Permittee must re-sample and re-test within 14 days. Deviations from recommended test conditions, specified in the referenced Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms, must be evaluated on a case-by-case basis to determine the validity of test results. The Discharger shall consider the degree of the deviation and the potential or observed impact of the deviation on the test results in consultation with Los Angeles Water Board staff before rejecting or accepting a test result as valid, and shall report the results of the validity determination with supporting evidence for that decision in their monthly report.

Table E-11. USEPA Test Methods and Test Acceptability Criteria

Species & USEPA Test Method Number	Test Acceptability Criteria (TAC)
Topsmelt, <i>Atherinops affinis</i> , Larval Survival and Growth Test Method 1006.01. (Table 3 of test method)	80% or greater survival in controls; average dry weight per surviving organism in control chambers equals or exceeds 0.85 mg. LC50 with copper must be ≤205 µg/L, <25% MSD for survival and <50% MSD for growth. If the test starts with 9-day old larvae, the mean weight per larva must exceed 0.85 milligrams in the reference and brine controls; the mean weight of preserved larvae must exceed 0.72 milligrams. (required)
Purple Sea Urchin, Strongylocentrotus purpuratus, and the Sand Dollar, Dendraster excentricus, Fertilization Test Method 1008.0 (Table 7 of test method)	70% or greater egg fertilization in controls, must achieve an MSD of <25%, and appropriate sperm counts. (required)
Red Abalone, <i>Haliotis rufescens</i> , Larval Shell Development Test Method (Table 3 of test method)	80% or greater normal shell development in the controls; must have statistically significant effect at 56 µg/L zinc and achieve an MSD of <20%. (required)

Species & USEPA Test Method Number	Test Acceptability Criteria (TAC)
Giant Kelp, <i>Macrocystis pyrifera</i> , Germination and Growth Test Method 1009.0 (Table 3 of test method)	70% or greater germination in controls, ≥10 µm germ-tube length in controls, No Observed Effect Concentration (NOEC) must be below 35 µg/L in the reference toxicant test, and must achieve an MSD of <20% for both germination and germ-tube length in the reference toxicant. (required)

- 5.5.3. Dilution water and control water, including brine controls, shall be 1-µm-filtered uncontaminated natural seawater, hypersaline brine prepared using uncontaminated natural seawater, or laboratory water prepared and used as specified in the test methods manual. If dilution water and control water is different from test organism culture water, then a second control using culture water shall also be used.
- 5.5.4. Monthly reference toxicant testing is sufficient. All reference toxicant test results should be reviewed and reported using EC25. EC25 is a point estimate of the toxicant concentration that would cause an observable adverse effect (e.g., death, immobilization, or serious incapacitation) in 25 percent of the test organisms.
- 5.5.5. The Permittee shall perform toxicity tests on final effluent samples. Chlorine and ammonia shall not be removed from the effluent sample prior to toxicity testing, unless explicitly authorized under this section of the Monitoring and Reporting Program and the rationale is explained in the Fact Sheet (Attachment F).

# 5.6. Preparation of an Initial Investigation Toxicity Reduction Evaluation (TRE) Work Plan

The Permittee shall prepare and submit a copy of the Permittee's initial investigation TRE work plan to the Los Angeles Water Board Executive Officer for approval within 90 days of the effective date of this permit. If the Executive Officer does not disapprove the work plan within 60 days of being submitted, the work plan shall become effective. The Permittee shall use USEPA manual EPA/833B-99/002 (municipal) as guidance, or most current version, or USEPA manual Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations (EPA/600/2-88/070, April 1989). At a minimum, the TRE Work Plan must contain the provisions in Attachment G. This work plan shall describe the steps that the Permittee intends to follow if toxicity is detected. At minimum, the work plan shall include:

- 5.6.1. A description of the investigation and evaluation techniques that will be used to identify potential causes and sources of toxicity, effluent variability, and treatment system efficiency;
- 5.6.2. A description of the Facility's methods of maximizing in-house treatment efficiency and good housekeeping practices, and a list of all chemicals used in the operation of the Facility; and
- 5.6.3. If a TIE is necessary, an indication of the person who would conduct the TIEs (i.e., an in-house expert or an outside contractor).

# 5.7. Accelerated Monitoring Schedule for Maximum Daily Single Result: "Fail."

The Maximum Daily single result shall be used to determine if accelerated testing needs to be conducted.

Once the Permittee becomes aware of this result, the Permittee shall implement an accelerated monitoring schedule within 5 calendar days of the receipt of the result. However, if the sample is contracted out to a commercial laboratory, the Permittee shall ensure that the first of six accelerated monitoring tests is initiated within seven calendar days of the Permittee becoming aware of the result. The accelerated monitoring schedule shall consist of six toxicity tests (including the discharge IWC), conducted at approximately two-week intervals, over a twelve-week period; in preparation for the TRE process and associated reporting, these results shall also be reported using the EC25. If each of the accelerated toxicity tests results in "Pass," the Permittee shall return to routine monitoring for the next monitoring period. If one of the accelerated toxicity tests results in "Fail," the Permittee shall immediately implement the TRE Process conditions set forth below. During accelerated monitoring schedules, only TST results ("Pass" or "Fail") for chronic toxicity tests shall be reported as effluent compliance monitoring results for the chronic toxicity MDEL.

## 5.8. Toxicity Reduction Evaluation (TRE) Process

The Discharger shall conduct a TRE in accordance with a TRE Work Plan as approved by Los Angeles Water Board. Routine monitoring shall continue during the TRE process and TST results ("Pass" or "Fail") for chronic toxicity tests shall be reported as effluent compliance monitoring results for the chronic toxicity MDEL.

- 5.8.1. Preparation and Implementation of Detailed TRE Work Plan. The Discharger shall immediately initiate a TRE using, according to the type of treatment facility, USEPA manual Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants (EPA/833/B-99/002, 1999) or USEPA manual Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations (EPA/600/2-88/070, April 1989) and, within 30 days of a toxicity event, submit to the Los Angeles Water Board Executive Officer a Detailed TRE Work Plan, which shall follow the initial investigation TRE Work Plan revised as appropriate for this toxicity event. It shall include the following information, and comply with additional conditions set by the Los Angeles Water Board Executive Officer:
  - a. Further actions by the Discharger to investigate, identify, and correct the causes of toxicity;
  - b. Actions the Discharger will take to mitigate the effects of the discharge and prevent the recurrence of toxicity; and
  - c. A schedule for these actions, progress reports, and the final report.
- 5.8.2. **TIE Implementation.** The Discharger may initiate a TIE as part of a TRE to identify the causes of toxicity using the same species and test method and, as guidance, USEPA manuals: *Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures* (EPA/600/6-91/003, 1991); Chronic TIE Manual: *Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I* (EPA/600/6-91/005F, 1992); *Methods for Aquatic Toxicity*

Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity (EPA/600/R-92/080, 1993); Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity (EPA/600/R-92/081, 1993); and Marine Toxicity Identification Evaluation (TIE): Phase I Guidance Document (EPA/600/R-96-054, 1996). The TIE shall be conducted on the species demonstrating the most sensitive toxicity response.

- 5.8.3. Many recommended TRE elements parallel required or recommended efforts for source control, pollution prevention, and stormwater control programs. TRE efforts should be coordinated with such efforts. As toxic substances are identified or characterized, the Discharger shall continue the TRE by determining the sources and evaluating alternative strategies for reducing or eliminating the substances from the discharge. All reasonable steps shall be taken to reduce toxicity to levels consistent with toxicity evaluation parameters.
- 5.8.4. The Discharger shall continue to conduct routine effluent monitoring while the TIE and/or TRE process is taking place. Additional accelerated monitoring and TRE work plans are not required once a TRE has begun.
- 5.8.5. The Los Angeles Water Board recognizes that toxicity may be episodic and identification of causes and reduction of sources of toxicity may not be successful in all cases. However, TREs shall be carried out in accordance with the Executive Officer-approved TRE Work Plan.
- 5.8.6. The Los Angeles Water Board may consider the results of any TIE/TRE studies in an enforcement action.

#### 5.9. Reporting

The Self-Monitoring Report (SMR) shall include a full laboratory report for each toxicity test. This report shall be prepared using the format and content of the test methods manual chapter called Report Preparation, including:

- 5.9.1. The valid toxicity test results for the TST statistical approach, reported as "Pass" or "Fail" and "Percent Effect" at the chronic toxicity IWC for the discharge, using the most sensitive species. All toxicity test results (whether identified as valid or otherwise) conducted during the calendar month shall be reported on the SMR due date specified in Table E-23.
- 5.9.2. A summary of water quality measurements for each toxicity test (e.g., pH, dissolved oxygen, temperature, conductivity, total hardness, salinity, chlorine, and ammonia).
- 5.9.3. The statistical analysis used in *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document* (EPA 833-R-10-003, 2010) Appendix A, Figure A-1, Table A-1, and Appendix B, Table B-1.
- 5.9.4. TRE/TIE results. The Los Angeles Water Board Executive Officer shall be notified no later than 30 days from completion of each aspect of TRE/TIE analyses. Prior to the completion of the final TIE/TRE report, the Permittee shall provide status updates in the monthly monitoring reports, indicating which TIE/TRE steps are underway and which steps have been completed.

- 5.9.5. Statistical program (e.g., TST calculator, CETIS, etc.) output results, including graphical plots, for each toxicity test.
- 5.9.6. Tabular data and graphical plots clearly showing the laboratory's performance for the reference toxicant, for each solution, for the previous 20 tests and the laboratory's performance for the control mean, control standard deviation, and control coefficient of variation, for each solution, for the previous 12-month period.
- 5.9.7. Any additional QA/QC documentation or any additional chronic toxicity-related information, upon request from the Los Angeles Water Board Chief Deputy Executive Officer or the Executive Officer.

#### 5.10. Ammonia Removal

- 5.10.1. Except with prior approval from the Executive Officer of the Los Angeles Water Board, ammonia shall not be removed from bioassay samples. The Discharger must demonstrate the effluent toxicity is caused by ammonia because of increasing test pH when conducting the toxicity test. It is important to distinguish the potential toxic effects of ammonia from other pH sensitive chemicals, such as certain heavy metals, sulfide, and cyanide. The following indicators and actions may be used to demonstrate that the toxicity is caused by ammonia and not other toxicants before the Executive Officer would allow for control of pH in the test.
  - a. There is consistent toxicity in the effluent and the maximum pH in the toxicity test is in the range to cause toxicity due to increased pH.
  - b. Chronic ammonia concentrations in the effluent are greater than 4 mg/L total ammonia.
  - c. Conduct graduated pH tests as specified in the toxicity identification evaluation methods. For example, mortality should be higher at pH 8 and lower at pH 6.
  - d. Treat the effluent with a zeolite column to remove ammonia. Mortality in the zeolite treated effluent should be lower than the non-zeolite treated effluent. Then add ammonia back to the zeolite-treated samples to confirm toxicity due to ammonia.
- 5.10.2. When it has been demonstrated that toxicity is due to ammonia because of increasing test pH, pH may be controlled using appropriate procedures which do not significantly alter the nature of the effluent, after submitting a written request to the Los Angeles Water Board, and receiving written permission expressing approval from the Executive Officer of the Los Angeles Water Board.

#### 5.11. Chlorine Removal

Chlorine may be removed from the JWPCP effluent bioassay sampled from EFF-001 because there are no appropriate sampling locations that reflect dechlorinated conditions at the outfall.

# 6. LAND DISCHARGE MONITORING REQUIREMENTS (NOT APPLICABLE)

### 7. RECYCLING MONITORING REQUIREMENTS (NOT APPLICABLE)

#### 8. RECEIVING WATER MONITORING REQUIREMENTS

All receiving water stations shall be located by state-of-the-art navigational methods (e.g., Global Positioning System [GPS]); other means (e.g., visual triangulation, fathometer readings) may be used to improve the accuracy of locating stations. Water quality measurements are made with a Conductivity, Temperature and Depth Instrument (CTD), which also measures other parameters such as pH and light transmissivity.

# 8.1. Inshore/Offshore Microbiological Monitoring

The inshore and offshore monitoring addresses the question: Are Ocean Plan and Santa Monica Bacteria TMDL compliance standards for bacteriological contamination being met? The data collected at inshore stations will provide the means to determine whether bacteriological standards for water contact and shellfish harvesting are being met in the area of greatest potential water contact and shellfish harvesting most proximal to the point of discharge. The data collected at the offshore sites will provide the means to determine whether bacteriological standards for water contact are being met in the area around the discharge point. Data from both inshore and offshore compliance sampling sites are augmented by the frequent (typical daily) manifold bacterial monitoring collected for plant operational purposes and which provides effluent bacterial densities discharged through the outfall system.

Shoreline, inshore, and offshore microbiological sampling since 2006 demonstrates the bacteria concentrations increase between the outfall and the beaches, contrary to the pattern expected if discharge was adding to bacteria concentrations at the beach. If an inshore or offshore sample exceeds an *Enterococcus* single sample maximum limit when a rain advisory is not in effect, and if an additional confirmatory sample taken within 72 hours also exceeds the limit, these monitoring requirements shall be augmented by one month of weekly *Enterococcus* sampling at eight proximal shoreline sampling locations defined below:

Table E-12. Shoreline Microbiological Monitoring Stations for Discharge Points 001, 002, 003, and 004

Monitoring Station Name	Monitoring Location Name	Coordinates
RW-SL-SB	Bluff Cove	33.79380°, -118.40700°
RW-SL-SM	Malaga Cove	33.80340°, -118.39590°
RW-SL-S1	Long Point	33.73860°, -118.39400°
RW-SL-S2	Abalone Cove	33.74160°, -118.37920°
RW-SL-S3	Portuguese Point	33.73620°, -118.36020°
RW-SL-S5	White Point	33.71770°, -118.32200°
RW-SL-S6	Wilder Addition Park	33.70980°, -118.29900°
RW-SL-S7	Cabrillo Beach	33.70920°, -118.28310°

The shoreline bacteria monitoring for total coliform, fecal coliform, enterococcus, and visual observation at shoreline monitoring stations in Table E-12 above, was required until June 30, 2018, to allow those implementing the Palos Verdes Peninsula and the Santa Monica JG7 Coordinated Integrated Monitoring Programs to establish a sampling program. The Discharger shall submit an annual receiving water summary report containing the shoreline microbiological monitoring results, using the Palos Verdes Peninsula and the Santa Monica JG7 Coordinated Integrated Monitoring Programs for Shoreline Stations of RW-SL-SB, RW-SL-SM, RW-SL-S1, RW-SL-S2, RW-SL-S3, RW-SL-S5, RW-SL-S6, and RW-SL-S7.

The Discharger shall monitor bacteria at six inshore monitoring stations, IL2, IL3, IL4, IL5, IL6 and IL7, and three offshore monitoring stations, RW-OS-6C, RW-OS-8C and RW-OS-9C, located along the 200-foot (60-meter) depth contour (Figure E-1) for the constituents listed in Table E-13 below:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Total coliform	CFU/100 ml (or MPN/100 ml)	grab at 0.5 meters below the surface	monthly	a, b
Fecal coliform	CFU/100 ml (or MPN/100 ml)	grab at 0.5 meters below the surface	monthly	a, b
Enterococcus	CFU/100 ml (or MPN/100 ml)	grab at 0.5 meters below the surface	monthly	a, b
Visual observation			monthly	b, c

Table E-13. Inshore/Offshore Microbiological Monitoring Requirements

- a. Pollutants shall be analyzed using the analytical methods described in 40 CFR part 136; where no methods are specified for a given pollutant, by methods approved by this Los Angeles Water Board or State Water Board. The analytical method with the lowest ML must be selected.
- b. Sampling may be conducted along a deeper depth contour during periods of adverse weather. If a kelp bed is present at any of the six inshore stations, sampling shall be conducted at the outer edge of the kelp bed rather than at the 30-foot (9.1-meter) depth contour.
- c. Receiving water observations shall be recorded concurrently with bacteriological sample collection and shall include a description of any discoloration, turbidity, odor, and unusual or abnormal amounts of floating or suspended matter in the water shall be made and recorded at all stations. The dates, times, and depths of sampling and these observations shall also be reported. Recreational uses (ex. swimming, wading, water skiing, skin diving, surfing, fishing, etc.) at the time of sampling and within a 100-meter radius of each offshore sample location, shall also be recorded and submitted with results.

#### **End of Footnotes for Table E-13**

### 8.2. Nearshore/Offshore Water Quality Monitoring

This monitoring is designed to determine if Ocean Plan objectives for physical and chemical parameters and bacteria (including shellfish standards) are being met. The data collected will provide the information necessary to demonstrate compliance with the standards. In addition, the data collected by the Discharger contribute to the Central Bight Cooperative Water Quality Survey. This regionally coordinated survey provides quarterly integrated water quality surveys and covers more than 200 kilometers of coast in Ventura, Los Angeles, Orange and San Diego Counties from the nearshore zone to approximately 10 kilometers offshore. This cooperative program contributes to a regional understanding of seasonal patterns in the nearshore water column structure. The regional view provides context for determining the significance and causes of locally observed patterns in the area of wastewater outfalls.

# 8.2.1. Nearshore/Offshore Water Quality Monitoring

The Discharger shall monitor the 48 nearshore/offshore stations on the Palos Verdes and San Pedro Shelf (Figure E-2) listed in Table E-4, for the constituents listed in Table E-14 below:

Table E-14. Nearshore/Offshore Water Quality Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Dissolved oxygen	mg/L	continuous profile from surface to bottom (or maximum depth of 100 meters)	quarterly	a, b, c, d
Temperature	°C	continuous profile from surface to bottom (or maximum depth of 100 meters)	quarterly	a, b, c, d
Salinity	ppt	continuous profile from surface to bottom (or maximum depth of 100 meters)	quarterly	a, b, c, d
Transmissivity	% trans- mission	continuous profile from surface to bottom (or maximum depth of 100 meters)	quarterly	a, b, c, d
Chlorophyll a	μg/L	continuous profile from surface to bottom (or maximum depth of 100 meters)	quarterly	a, b, c, d
рН	pH units	continuous profile from surface to bottom (or maximum depth of 100 meters)	quarterly	a, b, c, d
Ammonia (Figure E-2, Table E-1)	μg/L	grab samples from surface to bottom (or maximum depth of 45 meters)	quarterly	b, c, d, e
Visual observations			quarterly	f

- a. Pollutants shall be analyzed using the analytical methods described in 40 CFR part 136; where no methods are specified for a given pollutant, by methods approved by this Los Angeles Water Board or State Water Board. The analytical method with the lowest ML must be selected.
- b. Depth profile measurements shall be obtained using multiple sensors to measure parameters through the entire water column (from the surface to as close to the bottom as practicable).
- c. Water quality methods and protocols shall follow those described in the most current Bight Regional Monitoring Program.
- d. Sampling may be conducted along a deeper depth contour during periods of adverse weather. If a kelp bed is present at any of the six inshore stations, sampling shall be conducted at the outer edge of the kelp bed rather than at the 30-foot (9.1-meter) depth contour. The actual depth of all sampling stations shall be reported in the monthly monitoring reports.
- e. Discrete sampling for ammonia nitrogen shall be performed below the surface within 1 meter (3.1 feet) and at 15 meters (49.2 feet), 30 meters (98.4 feet), and 45 meters (147.6 feet), or as deep as practicable for those stations located in depths less than 45 meters.

f. Receiving water observations shall include a description of any discoloration, turbidity, odor, and unusual or abnormal amounts of floating or suspended matter in the water shall be made and recorded at all stations. The dates, times, and depths of sampling and these observations shall also be reported. Recreational uses (ex. swimming, wading, water skiing, skin diving, surfing, fishing, etc.) at the time of sampling and within a 100-meter radius of each offshore sample location, shall also be recorded and submitted with results.

## **End of Footnotes for Table E-14**

The Discharger shall participate in the Central Bight Cooperative Water Quality Survey steering and technical committees. Recommendations for changes in survey design that significantly alter the Water Quality Survey design described above in Table E-16 shall be submitted to the Executive Officer for approval prior to implementation.

## 8.2.2. Nearshore Light Energy Survey

The Discharger shall monitor the seven nearshore stations (L1, L2, L3, L4, L5, L6, and L7) along the 60-foot (18.3-meter) depth contour (Figure E-3) for the constituent listed in Table E-15 below:

 Parameter
 Units
 Sample Type
 Minimum Sampling Frequency
 Notes

 Photosynthetic light energy
 Quanta/sec/cm
 underwater sensor
 monthly
 a

**Table E-15. Nearshore Light Energy Monitoring Requirements** 

### Footnotes for Table E-15

a. All samples shall be taken between 10 a.m. and 2 p.m., ideally when the sun is not obscured by clouds (a slight haze is permissible). Sampling during a uniform cloud cover is permissible if sampling during clear weather cannot be completed during the month. Measurement of photosynthetic light energy shall be made with a spherical underwater sensor and hemispherical reference cell on deck, both having equal quantum response from 400-700 nanometers.

## **End of Footnotes for Table E-15**

#### 8.3. Benthic Infauna and Sediment Chemistry Monitoring

## 8.3.1. Local Benthic Trends Survey

This survey is designed to determine if benthic conditions under the influence of the discharge are changing over time. The data collected are used for regular assessment of trends in sediment contamination and biological response along a fixed grid of sites within the influence (or historical influence) of the discharge. The resulting physical and chemical data will be used for assessment of trends in sediment contamination and to draw inferences concerning the relationship between effluent-derived alteration of the benthic habitat and patterns in infaunal community structure.

a. Infaunal Community and Habitat Variables Survey

The Discharger shall monitor the 44 bottom stations (Figure E-4) for the constituents listed in Table E-16 below:

**Table E-16. Infauna Monitoring Requirements** 

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Benthic infauna community		0.1 square meter Van Veen grab	annually	a, b
Total organic carbon	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	С
Organic nitrogen	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	С
Grain size	Phi size	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	d

#### Footnotes for Table E-16

- a. Community analysis of benthic infauna shall include the number of species, the number of individuals per species, total numerical abundance per station, benthic response index (BRI) and biological indices, plus utilize appropriate regression analyses, parametric and nonparametric statistics, and multivariate techniques or other appropriate analytical techniques.
- b. One sample shall be collected at each station for benthic infaunal community analysis. The entire contents of each sample shall be passed through a 1.0-millimeter screen to retrieve the benthic organisms. Sampling methods and protocols shall follow those described in the most current Bight Regional Monitoring Program. The following determinations shall be made at each station, where appropriate: Identification of all organisms to the lowest possible taxon based on morphological taxonomy and community analysis including the mean, range, standard deviation, and 95% confidence limits. The resulting data shall be used to describe community structure at each station.
- c. Pollutants shall be analyzed using the analytical methods appropriate for solid matrices such as ELAP-accredited methods from USEPA SW-846 or other methods approved by the Los Angeles Water Board, State Water Board, or USEPA Region 9. The analytical method with the lowest ML must be selected.
- d. Sufficiently detailed to calculate percent weight in relation to phi size.

## **End of Footnotes for Table E-16**

b. Sediment Chemistry Survey

The Discharger shall monitor the 24 Bottom Benthic Sediment Monitoring Stations at the specified depth listed in Table E-17 for the Sediment Chemistry Monitoring Requirements included in Table E-18 for every year of the permit. The remaining Bottom Benthic Sediment Monitoring Stations listed in Table E-6 shall

also be monitored, in the third year following the effective date of this Order for the constituents which are listed below in Table E-18.

**Table E-17. Bottom Benthic Sediment Monitoring Stations** 

Station Type	Monitoring Location Name	Location
Bottom Station	RW-B-0B	152-meter depth
Bottom Station	RW-B-0C	61-meter depth
Bottom Station	RW-B-0D	30-meter depth
Bottom Station	RW-B-1B	152-meter depth
Bottom Station	RW-B-1C	61-meter depth
Bottom Station	RW-B-1D	30-meter depth
Bottom Station	RW-B-3B	152-meter depth
Bottom Station	RW-B-3C	61-meter depth
Bottom Station	RW-B-3D	30-meter depth
Bottom Station	RW-B-5B	152-meter depth
Bottom Station	RW-B-5C	61-meter depth
Bottom Station	RW-B-5D	30-meter depth
Bottom Station	RW-B-6B	152-meter depth
Bottom Station	RW-B-6C	61-meter depth
Bottom Station	RW-B-6D	30-meter depth
Bottom Station	RW-B-7B	152-meter depth
Bottom Station	RW-B-7C	61-meter depth
Bottom Station	RW-B-7D	30-meter depth
Bottom Station	RW-B-8B	152-meter depth
Bottom Station	RW-B-8C	61-meter depth
Bottom Station	RW-B-8D	30-meter depth
Bottom Station	RW-B-9B	152-meter depth
Bottom Station	RW-B-9C	61-meter depth
Bottom Station	RW-B-9D	30-meter depth

**Table E-18. Sediment Chemistry Monitoring Requirements** 

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Dissolved sulfides	mg/L	0.1 square meter Van Veen grab (upper 2 centimeters, porewater)	annually	a, b
Total organic carbon	% dry wt	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b
Organic nitrogen	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Grain size	Phi size	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, c
Arsenic	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b
Cadmium	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b
Chromium	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b
Copper	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b
Lead	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b
Mercury	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b
Nickel	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b
Silver	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b
Zinc	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b
DDT	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b, d
PCBs as Aroclors	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b, d
PCBs as Congeners	μ <b>g/kg</b>	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, b
Acute Sediment Toxicity	% survival	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	a, e
Compounds on 303(d) list for Santa Monica Bay	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	annually	а

#### **Footnotes for Table E-18**

- a. A separate grab sample shall be collected at each station whenever a biological sample is collected. Sub-samples (upper two centimeters) shall be taken from the grab for sediment chemistry analyses.
- b. Pollutants shall be analyzed using the analytical methods appropriate for solid matrices such as ELAP-accredited methods from USEPA SW-846 or other methods approved by the Los Angeles Water Board, State Water Board, or USEPA Region 9. For any pollutant whose effluent limitation is lower than all the minimum levels (MLs) specified in Appendix II of the 2019 Ocean Plan, the analytical method with the lowest ML must be selected.

- c. Sufficiently detailed to calculate percent weight in relation to phi size.
- d. See section 8 of this Order and Attachment A for definition of terms.
- e. Refer to section 8.3.1.c. below.

## **End of Footnotes for Table E-18**

### c. Acute Sediment Toxicity Monitoring

The Discharger shall conduct acute sediment toxicity monitoring as described in Table E-18 at the bottom stations in Table E-17. This testing shall be conducted in year three. Testing shall be conducted using one of the three amphipod species Eohaustorius estuarius, Leptocheirus plumulosus, and Rhepoxynius abronius in accordance with EPA 600/R-94/0925 (USEPA, 1994), Methods for Assessing the Toxicity of Sediment-associated Contaminants with Estuarine and Marine Amphipods, and the Southern California Bight Project sediment toxicity testing guidelines (Bight '13 Toxicology Committee, 2013). Test results shall be reported in percent survival, assessed for the presence of persistent toxicity, and the results shall be included in the annual monitoring report. If persistent toxicity is observed at a sediment sampling location, a Phase I Toxicity Identification Evaluation (TIE) shall be conducted as defined in the Sediment Toxicity Identification (TIE) Phase I, II, and III Guidance Document (EPA/R-07/080). The Discharger shall submit a Sediment Toxicity TIE Work Plan within 90 days of the effective date of this Order. The work plan shall define persistent toxicity and outline the procedures that will take place if persistent toxicity is observed.

# 8.3.2. Regional Benthic Survey

This regional survey is designed to determine the extent, distribution, magnitude and trend of ecological change in soft-bottom benthic habitats within the Southern California Bight and the relationship between biological response and contaminant exposure. The data collected will be used to assess the condition of the sea-floor environment and the health of the biological resources in the Bight.

Sampling Design - The most recent regional survey of benthic conditions within the Southern California Bight took place in 2018 (Bight'18). The final survey design was determined cooperatively by the participants represented on the Regional Steering Committee. The Discharger provided support to the Bight'18 benthic survey by participating in or performing the following activities:

- a. Participation on the Steering Committee
- b. Participation on the relevant Technical Committees (e.g., Information Management, Field Methods and Logistics, Benthos and Chemistry)
- c. Field sampling at sea
- d. Infaunal sample analysis
- e. Sediment chemistry analysis
- f. Data management

This level of participation was consistent with that provided by the Discharger during the 1994, 1998, 2003, 2008, and 2013 Regional Benthic Surveys. The next regional

survey is expected to take place in 2023 and the Discharger's level of participation shall be consistent with that provided in previous survey.

## 8.4. Fish and Macroinvertebrate (Trawl and Rig Fishing) Monitoring

## 8.4.1. Local Demersal Fish and Macroinvertebrate Survey

This survey is designed to determine if the health of demersal fish and epibenthic invertebrate communities in the vicinity of the discharge is changing over time. The data collected will be used for regular assessment of temporal trends in community structure along a fixed grid of sites within the influence of the discharge. Data will also be collected on trash and debris for the Santa Monica Bay Restoration Project's Sources and Loadings program.

The Discharger shall monitor 16 trawling stations along four transects parallel to the shoreline (Table E-8 and Figure E-6) for the constituent listed in Table E-19 below:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Demersal fish and invertebrates		10-minute otter trawl	semiannually (summer and winter)	a, b

Table E-19. Demersal Fish and Invertebrates Monitoring Requirements

## **Footnotes for Table E-19**

- a. Single otter trawls shall be collected at each station, with each trawl running along a line approximately parallel to the isobath. All organisms captured shall be identified to the lowest possible taxon and counted. Fish shall be size classed. Wet-weight biomass shall be estimated for all species. Each individual captured shall be examined for the presence of externally evident signs of disease or anomaly. Estimates of type and quantity of trash in each trawl shall be made. Sampling methods and protocols shall follow those described in the most current Bight Regional Monitoring Program. The resulting data shall be used to describe community structure, stated at Footnote b below, at each station.
- b. Community analysis (including mean, range, standard deviation, and 95% confidence limits) of demersal fish and macroinvertebrate communities shall include wet weight of fish and macroinvertebrate species (when combined weight of individuals of a species is greater than or equal to 0.1 kilogram), number of species, number of individuals per species, total numerical abundance per station, number of individuals in each 1-centimeter size class for each species of fish, species diversity, species evenness, cluster analyses, or other appropriate multivariate statistical techniques approved by the Executive Officer.

### **End of Footnotes for Table E-19**

### 8.4.2. Regional Demersal Fish and Invertebrate Survey

This regional survey is designed to determine the extent, distribution, magnitude and trend of ecological change in demersal fish and epibenthic invertebrate communities within the Southern California Bight and the relationship between biological response and contaminant exposure. The data collected will be used to assess the condition of the seafloor environment and health of biological resources in the Bight.

<u>Sampling Design</u> - The most recent regional survey of trawl-caught demersal fish and epibenthic invertebrates within the Southern California Bight took place in 2018 (Bight'18). The final survey design was determined cooperatively by the participants as represented on the Regional Steering Committee. The Discharger provided support to the Bight'18 surveys by participating in or performing the following activities:

- a. Participation on the Steering Committee
- b. Participation on the relevant Technical Committees (e.g., Information Management, Field Methods and Logistics, Fish and Invertebrates)
- c. Field sampling at sea
- d. Trawl sample analysis
- e. Data management

The level of participation was consistent with that provided by the Discharger during the 1998, 2003, 2008, and 2013 Regional Surveys. The next regional survey is expected to take place in 2023 and the Discharger's level of participation shall be consistent with that provided in previous surveys.

# 8.4.3. Bioaccumulation and Seafood Safety Monitoring

### a. Local Bioaccumulation Survey

This survey is designed to determine if fish tissue contamination in the vicinity of the outfall is changing over time. The data collected will be used for regular assessment of temporal trends in Hornyhead Turbot and White Croaker. The Hornyhead Turbot and White Croaker are the preferred species; however, if the required numbers and sizes of Hornyhead Turbot are not available, the Discharger may substitute English Sole (*Parophrys vetulus*). Hornyhead Turbot and White Croaker within a consistent size shall be targeted.

The Discharger shall monitor 3 zones, listed as Bottom Bioaccumulation Zones in Figure E-5 and Table E-7 for the constituents listed in Table E-20 below:

			•	
Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
DDT	μg/kg	composite of liver tissue from 10 individuals of hornyhead turbot	annually	a, b
DDT	μg/kg	composite of muscle tissue from 10 individuals of hornyhead turbot	annually	a, b
DDT	μg/kg	composite of muscle tissue from 10 individuals of white croaker	annually	a, b
PCB as aroclors	μg/kg	composite of liver tissue from 10 individuals of hornyhead turbot	annually	a, b

Table E-20. Bioaccumulation Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
PCB as aroclors	μg/kg	composite of muscle tissue from 10 individuals of hornyhead turbot	annually	a, b
PCB as aroclors	μg/kg	composite of muscle tissue from 10 individuals of white croaker	annually	a, b
PCB as congeners	μg/kg	composite of liver tissue from 10 individuals of hornyhead turbot	annually	þ
PCB as congeners	μg/kg	composite of muscle tissue from 10 individuals of hornyhead turbot	annually	þ
PCB as congeners	μg/kg	composite of muscle tissue from 10 individuals of white croaker	annually	b
% moisture	%	composite of liver tissue from 10 individuals of hornyhead turbot	annually	b
% moisture	%	composite of muscle tissue from 10 individuals of hornyhead turbot	annually	р
% moisture	%	composite of muscle tissue from 10 individuals of white croaker	annually	b
% lipid	%	composite of liver tissue from 10 individuals of hornyhead turbot	annually	b
% lipid	%	composite of muscle tissue from 10 individuals of hornyhead turbot	annually	b
% lipid	%	composite of muscle tissue from 10 individuals of white croaker	annually	b

## Footnotes for Table E-20

- a. See section 8 of this Order and Attachment A for definition of terms.
- b. Pollutants shall be analyzed using the analytical methods appropriate for solid matrices such as ELAP-accredited methods from USEPA SW-846 or other methods approved by this Los Angeles Water Board, State Water Board, or USEPA Region 9. For any pollutant whose effluent limitation is lower than all the minimum levels (MLs) specified in Appendix II of the 2019 Ocean Plan, the analytical method with the lowest ML must be selected.

#### **End of Footnotes for Table E-20**

b. Local Seafood Safety Survey

This survey is designed to determine 1) if tissue concentrations of contaminants continue to exceed the Advisory Tissue Concentration (ATC) where seafood consumption advisories exist locally, and 2) tissue contaminant trends relative to the ATC in other species and for other contaminants not currently subject to local consumption advisories. The data collected will be used to provide information necessary for the management of local seafood consumption advisories.

A regionally coordinated survey shall be conducted covering Santa Monica Bay, the Palos Verdes shelf and slope, and Los Angeles Harbor employing the

sampling design proposed by the Santa Monica Bay Restoration Commission (SMBRC). The Discharger shall provide field sampling and analysis of tissue from the 3 zones, listed as Bottom Bioaccumulation Stations in Table E-7:

One species from each of five groups of fish (rockfish, kelpbass, sandbass, surfperches and whiter croakers) shall be sampled from each of the three zones in years one, three and five of the permit. For rockfishes, scorpionfish (Scorpaena guttata) is the preferred species, followed by bocaccio (Sebastes paucispinis) and then by any other abundant and preferably benthic rockfish species. For surfperches, black surfperch (Embiotoca jacksoni) is the preferred species, followed by white seaperch (Phanerodon furcatus) and then by walleye surfperch (Hyperprosopon argenteum). For croaker, white croaker (Genyonemus lineatus) is the preferred species, followed by black croaker (Cheilotrema saturnum), and then by white seabass (Atractoscion nobilis). If an insufficient number of croakers are collected and a significant effort has been made to collect the appropriate number of croakers, one of the following alternative species may be substitutes: ocean whitefish (Caulolatilus princeps), opaleye (Girella nigricans), blacksmith (Chromis punctipinnis), or pacific chub mackerel (Scomber japonicus).

For fish tissue analysis, one composite sample of ten individuals of each target shall be collected within each of the three zones. Sampling should take place within the same season of the year (preferably late summer/early fall) and should focus upon a consistent size class of fish. All tissue samples shall be analyzed for the constituents listed in Table E-21 below:

Table E-21. Seafood Safety Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
% moisture	%	composite of muscle tissue from 10 individuals of each of 5 species	annually every other year	a, b, c
% lipid	%	composite of muscle tissue from 10 individuals of each of 5 species	annually every other year	a, b, c
Arsenic	μ <b>g/kg</b>	composite of muscle tissue from 10 individuals of each of 5 species	annually every other year	a, b, c
Mercury	μ <b>g/kg</b>	composite of muscle tissue from 10 individuals of each of 5 species	annually every other year	a, b, c
Selenium	μ <b>g/kg</b>	composite of muscle tissue from 10 individuals of each of 5 species	annually every other year	a, b
DDT	μ <b>g/kg</b>	composite of muscle tissue from 10 individuals of each of 5 species	annually every other year	a, b
PCB as aroclors	μ <b>g/kg</b>	composite of muscle tissue from 10 individuals of each of 5 species	annually every other year	a, b, c
PCB as congeners	μg/kg	composite of muscle tissue from 10 individuals of each of 5 species	annually every other year	а

### **Footnotes for Table E-21**

- a. The year one sampling shall be collected in 2204.
- b. Pollutants shall be analyzed using the analytical methods appropriate for solid matrices such as ELAP-accredited methods from USEPA SW-846 or other methods approved by the Los Angeles Water Board or State Water Board. For any pollutant whose effluent limitation is lower than all the minimum levels (MLs) specified in Appendix II of the 2019 Ocean Plan, the analytical method with the lowest ML must be selected.
- c. See section 8 of this Order and Attachment A for definition of terms.

### **End of Footnotes for Table E-21**

c. Regional Seafood Safety Survey

This regional survey is designed to determine if seafood tissue levels within the Southern California Bight are below levels that ensure public safety. The data collected will be used to assess levels of contaminants in the edible tissue of commercial or recreationally important fish within the Bight relative to Advisory Tissue Concentrations.

A regional survey of edible tissue contaminant levels in fish within the Southern California Bight shall be conducted at least once every ten years, encompassing a broader set of sampling sites and target species than those addressed in the local seafood survey. The objective is to determine whether any unexpected increases or decreases in contaminant levels have occurred in non-target species and/or at unsampled sites. The final survey design may be determined cooperatively by participants represented on a Regional Steering Committee or by the State of California's Office of Environmental Health and Hazard Assessment. The last regional seafood safety survey within the Southern California Bight took place in 2018 (Bight'18). The Discharger provided support to a regional Seafood Safety Survey by participating in or performing the following activities:

- i. Participation on a Steering Committee;
- ii. Participation on relevant Technical Committees (e.g., Information Management, Field Methods & Logistics, and Chemistry);
- iii. Field sampling at sea;
- iv. Tissue chemical analysis; and
- v. Data management.

The Discharger's level of participation shall be consistent with that provided in previous regional seafood safety surveys.

d. Regional Bioaccumulation/Predator Risk Survey

This regional survey is designed to determine if fish body burdens within the Southern California Bight are a health risk to higher trophic levels in the marine food web. The data collected will be used to estimate health risk to marine birds, mammals and wildlife from the consumption of fish tissue.

The most recent regional survey of contaminant bioaccumulation in seabird eggs of the Southern California Bight took place in 2018 (Bight'18). The final survey design was determined cooperatively by participants represented on the Regional Steering Committee. The Discharger provided support to the regional Bight '18 Predator Risk Surveys and the regional Bight '18 Bioaccumulation Survey by participating in the following activities:

- i. participation in the Steering Committee;
- ii. Participation in relevant technical committees (e.g. information management, field methods and logistics, and chemistry); and
- iii. tissue and chemical analyses.

The level of participation was consistent with that provided by the Discharger in previous Regional Bioaccumulation/ Predator Risk Surveys. The next regional survey is expected to occur in 2023 and the Discharger's level of participation shall be consistent with that provided in previous surveys.

### 8.5. Kelp Bed Monitoring

This regional survey is designed to determine if the extent of kelp beds in the Southern California Bight is changing over time and are some beds changing at rates different than others. The data collected in this regional survey will be used to assess status and trends in kelp bed health and spatial extent. The regional nature of the survey will allow the status of beds local to the discharge to be compared to regional trends.

The Discharger shall participate in the Central Region Kelp Survey Consortium (CRKSC) to conduct regional kelp bed monitoring in Southern California coastal waters. The CRKSC design is based upon measures of kelp canopy using aerial imagery, satellite imagery, or other appropriate remote sensing method as determined appropriate by the CRKSC. The Discharger shall provide up to \$10,000 per year in financial support to the CRKSC (annual level of support will depend on the number of participants in the program). The Discharger shall participate in the regional management and technical committees responsible for the development of the survey design and implementation of the assessment of kelp bed resources in the Bight.

Participation in this survey provides data to the SMBRC's Kelp Beds program.

#### 9. OTHER MONITORING REQUIREMENTS

#### 9.1. Outfall and Diffuser Inspection

This survey is designed to ensure that the outfall structures are in serviceable condition and that they can continue to be operated safely. The data collected will be used for a periodic assessment of the integrity of the outfall pipes and ballasting system.

Each ocean outfall (001, 002, 003 and 004) shall be inspected externally a minimum of once per year. Inspections shall include general observations and photographic/videographic records of the exterior outfall pipes and adjacent ballast ocean bottom. The pipes shall be visually inspected by a diver, manned submarine, or remotely operated vehicle. A summary report of the inspection findings shall be submitted by August 1st following the year of inspection. This written report, augmented with videographic and/or photographic images, will provide a description of the

observed condition of the outfall structures from shallow water to their respective termini.

## 9.2 Biosolids and Sludge Management

The Discharger must comply with all Clean Water Act and regulatory requirements of 40 CFR § 257, 258, 501, and 503, including all applicable monitoring, record keeping, and reporting requirements. The Discharger must comply with the requirements in Attachment H of this Order.

## 9.3. Monitoring of Volumetric Data for Wastewater and Recycled Water

The State Water Board adopted the "Water Quality Control Policy for Recycled Water" (Recycled Water Policy) on February 3, 2009 and amended the Recycled Water Policy on January 22, 2013 and December 11, 2018. The most recent amendment became effective on April 8, 2019. The Recycled Water Policy requires wastewater and recycled water dischargers to annually report monthly volumes of influent, wastewater produced, and effluent, including treatment level and discharge type. As applicable, dischargers are additionally required to annually report recycled water use by volume and category of reuse. The State Water Board issued a Water Code Section 13267 and 13383 Order, Order WQ 2019-0037-EXEC, on July 24, 2019 to amend MRPs for all permits of NPDES permits, WDRs, WRRs, Master Recycling permits, and General WDRs. Annual reports are due by April 30 of each year, and the report must be submitted to GeoTracker. This Order implements the Recycled Water Policy by incorporating the volumetric monitoring reporting requirements in accordance with Section 3 of the Recycled Water Policy

(https://www.waterboards.ca.gov/board\_decisions/adopted\_orders/resolutions/2018/121 118\_7\_final\_amendment\_oal.pdf ). The State Water Board's Order WQ 2019-0037-EXEC will no longer be applicable to the Discharger upon the effective date of this Order.

- **9.3.1. Influent**: The Discharger shall monitor monthly total volume of wastewater collected and treated by the wastewater treatment plant.
- **9.3.2. Production**: The Discharger shall monitor monthly volume of wastewater treated, specifying level of treatment.
- **9.3.3. Discharge**: The Discharger shall monitor monthly volume of treated wastewater discharged to specific water bodies as categorized in the Section 3.2.3 of the Recycled Water Policy. The level of treatment shall also be specified.
- **9.3.4. Reuse**: The Discharger shall monitor monthly volume of recycled water distributed, and annual volume of treated wastewater distributed for beneficial use in compliance with California Code of Regulations, title 22 in each of the use categories specified in Section 3.2.4 of the Recycled Water Policy.

### 10. REPORTING REQUIREMENTS

# 10.1. General Monitoring and Reporting Requirements

- 10.1.1. The Permittee shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.
- 10.1.2. If there is no discharge during any reporting period, the report shall so state.

- 10.1.3. Each monitoring report shall contain a separate section titled Summary of Non-Compliance which discusses the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall clearly list all non-compliance with discharge requirements, all excursions of effluent limitations, and other noncompliance issues, including, but not limited to a report of any unresolved odor complaints that demonstrate noncompliance with odor prohibitions (section 7.1.2.b of the Order), a report of any power outage or use or failure of alternate power source (section 7.3.4 of the Order), and the resolution of any non-compliance.
- 10.1.4. The Permittee shall inform the Los Angeles Water Board well in advance of any proposed construction or maintenance activity, or modification to the POTW, including any outfall port modifications, that could potentially affect compliance with applicable requirements.
- 10.1.5. The date and time of sampling (as appropriate) shall be reported with the analytical values determined.
- 10.1.6. The laboratory conducting analyses shall be certified by the State Water Resources Control Board, Division of Drinking Water, Environmental Laboratory Accreditation Program (ELAP), in accordance with CWC section 13176, or approved by the Los Angeles Water Board Executive Officer, in consultation with the State Water Board's Quality Assurance Program, and USEPA for that particular parameter and must include quality assurance/quality control (QA/QC) data in their reports. A copy of the laboratory certification shall be provided each time a new/renewal certification is obtained from ELAP and must be submitted with the annual summary report. Each monitoring report must affirm in writing that: "All analyses were conducted at a laboratory certified for such analyses by the State Water Resources Control Board's Environmental Laboratory Accreditation Program (ELAP) or approved by the Los Angeles Water Board Executive Officer (in consultation with the State Water Board's Quality Assurance Program) and USEPA, and in accordance with current USEPA guideline procedures or as specified in this MRP."
- 10.1.7. The Discharger shall strive for lower analytical detection levels than those specified in Appendix II of the 2019 Ocean Plan to facilitate pollutant load quantification for future DDT and PCBs TMDLs.
- 10.1.8. Upon request by the Discharger, the Los Angeles Water Board, in consultation with the State Water Board's Quality Assurance Program and/or USEPA, may establish an ML that is not contained in Appendix II of the 2019 Ocean Plan, to be included in the Discharger's NPDES permit, in any of the following situations:
  - a. When the pollutant under consideration is not included in Appendix II;
  - When the Discharger agrees to use a test method that is more sensitive than those specified in 40 CFR § 136 (most recent revision);
  - c. When the Discharger agrees to use an ML lower than those listed in Appendix II;
  - d. When the Discharger demonstrates that the calibration standard matrix is sufficiently different from that used to establish the ML in Appendix II and proposes an appropriate ML for their matrix; or

- e. When the Discharger uses a method whose quantification practices are not consistent with the definition of an ML. Examples of such methods are the USEPA-approved method 1613 for dioxins and furans, method 1624 for volatile organic substances, and method 1625 for semi-volatile organic substances. In such cases, the Discharger, Los Angeles Water Board, State Water Board and USEPA shall agree on a lowest quantifiable limit, and that limit will substitute for the ML for reporting and compliance determination purposes.
- 10.1.9. Records and reports of marine monitoring surveys conducted to meet receiving water monitoring requirements shall include, at a minimum, the following information:
  - a. A description of climatic and receiving water characteristics at the time of sampling (weather observations, unusual or abnormal amounts of floating debris, discoloration, wind speed and direction, swell or wave action, time of sampling or measurements, tidal stage and height, etc.).
  - b. The date, exact place and description of sampling stations, including differences unique to each station (e.g., date, time, station location, depth, and sample type).
  - c. A list of the individuals participating in field collection of samples or data and description of the sample collection and preservation procedures used in the various surveys.
  - d. A description of the specific method used for laboratory analysis, the date(s) the analyses were performed and the individuals participating in these analyses.
  - e. An in-depth discussion of the results of the survey. All tabulations and computations shall be explained.
- 10.1.10. 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 this Order.
- 10.1.11. The Discharger shall attach a cover letter to the monitoring reports. The information contained in the cover letter shall clearly identify violations of the Order; 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.

## 10.2. Self-Monitoring Reports (SMRs)

- 10.2.1. The Permittee shall electronically submit SMRs using the State Water Board's California Integrated Water Quality System (CIWQS) Program Web site (http://www.waterboards.ca.gov/ciwqs/index.html). The CIWQS website will provide additional information for SMR submittal in the event there will be a planned service interruption for electronic submittal.
- 10.2.2. The Permittee shall report in the SMR the results for all monitoring specified in this MRP under sections 3 through 9. The Permittee shall submit monthly, quarterly, semiannual, and annual SMRs including the results of all required monitoring using USEPA-approved test methods or other test methods specified in this Order. SMRs must include all new monitoring results obtained since the last SMR was submitted. If the Permittee monitors any pollutant more frequently than required by this Order

(other than for process/operational control, startup, research, or equipment testing), the results of this monitoring shall be included in the calculations and reporting of the data submitted in the SMR.

10.2.3. Monitoring periods and reporting for all required monitoring shall be completed according to the following schedule, except where specific monitoring periods and reporting dates are required elsewhere in the Order:

**Table E-22. Monitoring Periods and Reporting Schedule** 

Sampling Frequency	Monitoring Period Begins On	Monitoring Period	SMR Due Date
Continuous	Order effective date	All	Submit with monthly SMR
Daily	Order effective date	(Midnight through 11:59 PM) or any 24-hour period that reasonably represents a calendar day for purposes of sampling.	Submit with monthly SMR
Weekly	Sunday following Order effective date or on permit effective date if on a Sunday	Sunday through Saturday	Submit with monthly SMR
Monthly	First day of calendar month following Order effective date or on permit effective date if that date is first day of the month	1 <sup>st</sup> day of calendar month through last day of calendar month	By the 15 <sup>th</sup> day of the third month after the month of sampling
Quarterly	Closest of January 1, April 1, July 1, or October 1 following (or on) Order effective date	January 1 to March 31 April 1 to June 30 July 1 to September 30 October 1 to December 31	June 15 September 15 December 15 March 15
Semiannually	Closest of January 1 or July 1 following (or on) Order effective date	January 1 to June 30 July 1 to December 31	September 15 March 15
Annually	January 1 following (or on) Order effective date	January 1 to December 31	April 30
Annually (Volumetric Reporting)	Order effective date	January 1 to December 31	April 30
Annually (Pretreatment Program)	Order effective date	January 1 to December 31	April 30
CEC Monitoring Report	Order effective date	January 1 to December 31	June 30

Sampling Frequency	Monitoring Period Begins On	Monitoring Period	SMR Due Date
Receiving Water Summary Report	Order effective date	January 1 to December 31	August 1
Receiving Water Biennial Report	Order effective date	January 1 to December 31 of the following year	August 1
Outfall Inspection Report	Order effective date	January 1 to December 31	August 1

- 10.2.4. **Reporting Protocols.** The Permittee shall report with each sample result the applicable Minimum Level (ML) and the current Method Detection Limit (MDL), as determined by the procedure in 40 CFR part 136. The Permittee 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 ML shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).
  - b. Sample results less than the 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 (± 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. Permittees 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 Permittee to use analytical data derived from extrapolation beyond the lowest point of the calibration curve.
- 10.2.5. **Compliance Determination.** Compliance with effluent limitations for priority pollutants shall be determined using sample reporting protocols defined above and Section 8 of this Order. For purposes of reporting and administrative enforcement by the Los Angeles Water Board and State Water Board, the Permittee shall be deemed out of compliance with effluent limitations if the concentration of the priority pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reported ML.
- 10.2.6. Multiple Sample Data. When determining compliance with a measure of central tendency (arithmetic mean, geometric mean, median, etc.) of multiple sample analyses the data set contains one or more reported determinations of "DNQ" or "ND," the Permittee 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.
- 10.2.7. The Permittee 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 Permittee 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 Permittee shall electronically submit the data in a tabular format as an attachment.

### 10.3. Discharge Monitoring Reports (DMRs)

DMRs are USEPA 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:

http://www.waterboards.ca.gov/water issues/programs/discharge monitoring.

## 10.4. Other Reports

#### 10.4.1. Annual Pretreatment Report

The Discharger shall electronically submit annual pretreatment reports via CIWQS to the Los Angeles Water Board and to USEPA Region 9 via email (repretreatment@epa.gov) by April 30 of each year, covering data collected during the previous calendar year, in accordance with Pretreatment Reporting Requirements (Attachment I).

10.4.2. The Permittee shall report the results of any special studies, chronic toxicity testing, TRE/TIE, PMP, and Pollution Prevention Plan required by Special Provisions – section 7.3 of this Order. The Permittee shall submit reports in compliance with SMR reporting requirements described in subsection 10.2. above.

#### 10.4.3. Hauling Reports

- a. In the event wastes are transported to a different disposal site during the reporting period, the following shall be reported:
  - i. Types of wastes and quantity of each type;
  - ii. Name and either the address or the State registration number for each hauler of wastes (or the method of transport if other than by hauling); and
  - iii. Location of the final point(s) of disposal for each type of wastes.

b. If no wastes are transported off site during the reporting period, a statement to that effect shall be submitted.

## 10.4.4. Annual Summary Report

By April 30 of each year, the Permittee shall submit an annual report containing a discussion of the previous year's influent/effluent analytical results, a recycled water progress report describing any updates to the development of increased recycled water production, and food waste slurry report describing hauler and quantities treated at the JWPCP. The annual report shall contain an overview of any plans for upgrades to the treatment plant's collection system, the treatment processes, the outfall system, or any changes that may affect the quality of the final effluent. The Permittee shall submit annual report to the Los Angeles Water Board in accordance with the requirements described in subsection 10.2.7 above.

Each annual monitoring report shall contain a separate section titled *Reasonable Potential Analysis* which discusses whether reasonable potential was triggered for pollutants which do not have a final effluent limitation in the NPDES permit. This section shall contain the following statement: "The analytical results for this sampling period did/did not trigger reasonable potential." If reasonable potential was triggered, then the following information should also be provided:

- a. A list of the pollutant(s) that triggered reasonable potential.
- b. The Ocean Plan criteria that was exceeded for each given pollutant.
- c. The concentration of the pollutant(s).
- d. The test method used to analyze the sample.
- e. The date and time of sample collection.

### 10.4.5. Receiving Water Monitoring Report

An annual summary of the receiving water monitoring data collected during each sampling year (January-December) shall be prepared and submitted so that it is received by the Los Angeles Water Board by August 1st of the following year. This annual summary shall include a compliance summary and discussion of plant performance over the year as well as a brief discussion of the monitoring results.

A detailed Receiving Water Monitoring Biennial Assessment Report of the data collected during the two previous calendar sampling years (January-December) shall be prepared and submitted so that it is received by the Los Angeles Water Board by August 1st of every other year. Any effluent compliance issues during that period shall also be discussed. This report shall include a description of the nearfield zone and an in-depth analysis of the biological and chemical data following recommendations in the *Design of 301(h) Monitoring Programs for Municipal Wastewater Discharges to Marine Water* (USEPA, November 1982; 430/982-010; pages 74-91) and the Model Monitoring Program Guidance Document (Schiff, K.C., J.S. Brown and S.B. Weisberg, 2001. *Model Monitoring Program for Large Ocean Dischargers in Southern California*. SCCWRP Tech. Rep #357. Southern California Coastal Water Research Project, Westminster, CA. 101 pp.). Data shall be tabulated, summarized, graphed where appropriate, analyzed, interpreted, and generally presented in such a way as to facilitate ready understanding of its

significance. Spatial and temporal trends shall be examined and compared. The relationship of physical and chemical parameters shall be evaluated. See also Section VIII of this MRP. All receiving water monitoring data shall be submitted in accordance with the California Environmental Data Exchange Network (CEDEN), when the system accepts data such as bioassessment /taxonomic data and continuous data. The Discharger shall submit all receiving water monitoring data in accordance with CEDEN, when feasible.

The first assessment report shall be due September 1, 2024, and cover the sampling periods of January-December 2022 and January-December 2023. Subsequent reports shall be due September 1, 2026, and September 1, 2028, to cover sampling periods from January 2024 to December 2025, and January 2026 to December 2027, respectively.

- 10.4.6. The Permittee shall submit to the Los Angeles Water Board, together with the first monitoring report required by this Order, a list of all chemicals and proprietary additives which could affect this waste discharge, including quantities of each. Any subsequent changes in types and/or quantities shall be reported promptly.
- 10.4.7. Santa Monica Bay Bacteria Total Maximum Daily Load Reporting Requirement

The Discharger monitors bacteria at the Santa Monica Bay shoreline stations described in the *Santa Monica Bay Beaches Bacteria TMDLs*, as required under the Los Angeles County MS4 permit (Order Number R4-2012-0175, NPDES Number CAS004001). This monitoring requirement is necessary to meet the requirements outlined in the Santa Monica Bay Beaches Bacteria TMDLs. Although duplicative sampling is not required, the Permittee shall upload monthly and annual Portable Document Format (PDF) reports to the California Integrated Water Quality System (CIWQS) summarizing the Santa Monica Bay Beaches Bacteria TMDL-based monitoring results and confirming that the final effluent has not contributed to any shoreline exceedances. The PDF reports shall be submitted concurrently with the NPDES monthly and annual reports.

#### 10.4.8. Outfall Inspection Report

By August 1 of each year, a summary report of the outfall Inspection findings for the previous calendar year shall be prepared and submitted to the Los Angeles Water Board. This written report, augmented with videographic and/or photographic images, shall provide a description of the observed external condition of the discharge pipes from shallow water to their respective termini.

The first summary report shall be due August 1, 2023, covering the monitoring period from January 2022 – December 2022.

## 10.4.9. Technical Report on Preventive and Contingency Plans

The Los Angeles Water Board requires the Discharger to file with the Los Angeles Water Board, within 90 days after the effective date of this Order, a technical report on its preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. The technical report shall:

a. Identify the possible sources of accidental loss, untreated waste bypass, and contaminated drainage. 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 state when they become operational.
- c. Describe facilities and procedures needed for effective preventive and contingency plans.
- d. Predict the effectiveness of the proposed facilities and procedures and provide an implementation schedule contingent interim and final dates when they will be constructed, implemented, or operational.

## 10.4.10. Discharge Points 003 and 004 Outfall Reports

The Discharger shall electronically submit to the Los Angeles Water Board a report summarizing flows conveyed to Discharge Points 003 and 004 within 5 days of the completion of the discharge. Each report shall include at a minimum, the rationale for the discharge; the date, time, and duration of the discharge; the flow rate and volume discharged; the type of water discharged; and confirmation that the required monitoring was conducted during the discharge event. If the discharge endangers human health or the environment, the report shall be submitted within 24 hours of the completion of the discharge.

## 10.4.11. Climate Change Effects Vulnerability Assessment and Mitigation Plan:

The Permittee shall consider the impact of climate change as they affect the operation of the treatment facility due to flooding, wildfires, or other climate-related changes. The Permittee shall develop a Climate Change Effects Vulnerability Assessment and Mitigation Plan (Climate Change Plan) to assess and manage climate change-related effects that may impact the wastewater treatment facility's operation, water supplies, its collection system, and water quality, including any projected changes to the influent water temperature and pollutant concentrations, and beneficial uses. The permittee shall also identify new or increased threats to the sewer system resulting from climate change that may impact desired levels of service in the next 50 years. The permittee shall project upgrades to existing assets or new infrastructure projects, and associated costs, necessary to meet desired levels of service. Climate change research also indicates the overarching driver of climate change is increased atmospheric carbon dioxide from human activity. The increased carbon dioxide emissions trigger changes to climatic patterns, which increase the intensity of sea level rise and coastal storm surges, lead to more erratic rainfall and local weather patterns, trigger a gradual warming of freshwater and ocean temperatures, and trigger changes to ocean water chemistry. As such, the Climate Change Plan shall also identify steps being taken or planned to address greenhouse gas emissions attributable to wastewater treatment plants, solids handling, and effluent discharge processes. For facilities that discharge to the ocean including desalination plants, the Climate Change Plan shall also include the impacts from sea level rise. The Climate Change Plan is due 12 months after the effective date of this Order.

10.4.12. Annual Volumetric Reporting of Wastewater and Recycled Water

The Discharger shall electronically submit annual volumetric reports to the State Water Board by April 30 each year covering data collected during the previous calendar year using the <a href="State Water Board's GeoTracker website">State Water Board's GeoTracker website</a> (geotracker.waterboards.ca.gov) under site-specific global identification number NPD100051648. The annual volumetric report shall include information specified in section 9.4, above. A report upload confirmation from the GeoTracker data system, or other indication of completed submittals, shall be included in the annual report, which shall be submitted into CIWQS, by the annual volumetric report due date, to demonstrate compliance with this reporting requirement.

## 10.4.13. Initial Investigation TRE Work Plan

The Permittee shall prepare and submit a copy of the Permittee's initial investigation TRE work plan to the Executive Officer of the Los Angeles Water Board for approval within 90 days of the effective date of this permit. If the Executive Officer does not disapprove the work plan within 60 days, the work plan shall become effective. The Permittee shall use USEPA manual EPA/833B-99/002 (municipal) as guidance, or the most current version, or the USEPA manual *Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations* (EPA/600/2-88/070, April 1989). At a minimum, the TRE Work Plan must contain the provisions in Attachment G. This work plan shall describe the steps that the Permittee intends to follow if toxicity is detected. Refer to MRP section 5.6 for detailed requirements.

### 10.4.14. Sediment Toxicity TIE Work Plan

The Permittee shall conduct acute sediment toxicity monitoring. If persistent toxicity is observed at a sediment sampling location, a Phase I TIE shall be conducted as defined in the Sediment Toxicity Identification (TIE) Phase I, II, and III Guidance Document (EPA/R-07/080). The Permittee shall submit a Sediment Toxicity TIE Work Plan within 90 days of the effective date of this Order. Refer to MRP section 8.3.1.c for detailed requirements.

## ATTACHMENT F. FACT SHEET

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#### ATTACHMENT F - FACT SHEET

As described in section 2.2 of this Order, the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) incorporates this Fact Sheet as findings of the Los Angeles 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.

## 1. PERMIT INFORMATION

The following table summarizes administrative information related to the facility.

**Table F-1. Facility Information** 

WDID	4B190107013
Discharger	Joint Outfall System
Name of Facility	Joint Water Pollution Control Plant
Facility Address	24501 South Figueroa Street Carson, CA 90745 Los Angeles County
Facility Contact, Title and Phone	Lysa Gaboudian, Supervising Engineer, (562) 908-4288
Authorized Person to Sign and Submit Reports	Lysa Gaboudian, Supervising Engineer, (562) 908-4288
Mailing Address	1955 Workman Mill Road, Whittier, CA 90601
Billing Address	Same as Mailing Address
Type of Facility	Publicly-Owned Treatment Works
Major or Minor Facility	Major
Threat to Water Quality	1
Complexity	A
Pretreatment Program	Yes
Recycling Requirements	Producer
Facility Permitted Flow	400 million gallons per day
Facility Design Flow	400 million gallons per day
Watershed	Santa Monica Bay Watershed Management Area
Receiving Water	Pacific Ocean
Receiving Water Type	Ocean waters

1.1. The Joint Outfall System (hereinafter JOS, Discharger, or Permittee) owns and operates a Publicly Owned Treatment Works (POTW) comprised of the Joint Water Pollution Control Plant (hereinafter JWPCP or Facility) and its associated wastewater

collection system and outfalls. The JOS was formerly referred to as the County Sanitation Districts of Los Angeles County. Ownership and operation of the JOS is proportionally shared among the signatory parties to the amended Joint Outfall Agreement effective July 1, 1995. The parties include the County Sanitation Districts of Los Angeles County Nos. 1, 2, 3, 5, 8, 15, 16, 17, 18, 19, 21, 22, 23, 28, 29, and 34, and South Bay Cities Sanitation District of Los Angeles County. 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.

1.2. The Facility discharges wastewater to the Pacific Ocean, a water of the United States. The Permittee was previously regulated by Order R4-2017-0180 and NPDES Permit Number CA0053813, adopted by the Los Angeles Water Board on September 7, 2017. This Order expired on October 31, 2022.

Regulations at 40 CFR 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 California Code of Regulations, 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. The Permittee filed a report of waste discharge and applied for reissuance of its WDRs and NPDES permit on May 4, 2022. Supplemental information was requested on May 27, 2022 and received on June 30, 2022. The application was deemed complete on July 6, 2022. A site visit was conducted on January 6, 2023, to observe operations and collect additional data to develop permit limitations and conditions. The terms and conditions of the current NPDES order have been automatically continued and remain in effect until the new WDRs and NPDES permit are adopted pursuant to this Order. Attachment B provides a map of the area around the Facility. Attachment C provides a flow schematic of the Facility.

1.3. The Permittee is authorized to discharge subject to waste discharge requirements in this Order at the discharge location described in Table 1 of this Order.

#### 1.4. Dilution Credits.

The most recent dilution study submitted in 2016 used water quality data from 2001 to 2011. Since there have not been any significant changes to the quality of the discharge or the ambient conditions since Order No. R4-2017-0180 was adopted on September 7, 2017, this Order includes the same dilution ratios included in Order No. R4-2017-0180: a dilution ratio of 166:1 for Discharge Points 001 and 002, a dilution ratio of 1:150 for Discharge Point 003, and a dilution ratio of 1:115 for Discharge Point 004.

#### 2. FACILITY DESCRIPTION

## 2.1. Description of Wastewater and Biosolids Treatment and Controls

2.1.1. The Discharger owns and operates the JWPCP, located at 24501 South Figueroa Street in Carson, California. The JWPCP has a monthly average daily dry weather secondary treatment capacity of 400 million gallons per day (MGD) and a dry weather peak secondary treatment design capacity of 540 MGD. The wet weather

peak hydraulic capacity is 675 MGD. During storms, peak flows at JWPCP approached the hydraulic capacity of 675 MGD, with maximum flows of 548 MGD and 539 MGD recorded on February 2, 2019 and December 30, 2021, respectively. For the period from November 2017 to June 2022, monthly secondary effluent discharge flow from JWPCP averaged 251 MGD (163 MGD at Outfall 001 and 88 MGD at Outfall 002).

JWPCP is part of an integrated network of facilities, known as the JOS, which incorporates JWPCP and six upstream water reclamation plants - La Cañada, Whittier Narrows, San Jose Creek, Pomona, Los Coyotes and Long Beach. The six upstream plants are connected to 1,241 miles of interceptors and a common sewer system, which allows for the diversion of flows into or around each upstream plant. The flow from the six upstream plants can be bypassed, to a limited extent, to JWPCP. Some stormwater flows and dry weather runoff from other cities are also directed to JWPCP's headworks for treatment. The biosolids generated from the upstream plants are returned to the joint outfall trunk sewers and conveyed to JWPCP for further treatment. The JOS serves an urban area of 656 square miles and includes all or part of 73 cities in addition to multiple communities and unincorporated areas. The JOS provides wastewater treatment services to much of Los Angeles County. There are approximately 4.87 million people in the JOS service area. In 2021, the JWPCP received 17.3% of the influent flow as industrial wastewater, the rest (82.7%) was from commercial/residential sources.

2.1.2. The treatment system at JWPCP consists of screening, grit removal, primary sedimentation, pure oxygen activated sludge reactors, secondary clarification, and chlorination (Attachment C). Effluent from the primary sedimentation tanks is biologically treated in pure oxygen activated sludge reactors. The secondary treated effluent is then clarified, chlorinated and pumped into the outfall manifold. The secondary treated effluent from JWPCP is routinely discharged through Discharge Points 001 and 002 to the Pacific Ocean, a water of the United States, at White Point within the Palos Verdes Peninsula Sub-Watershed that is part of the Santa Monica Bay Watershed.

Solid fractions recovered from wastewater treatment processes include grit, primary screenings, primary biosolids and skimmings, thickened waste activated sludge, digested sludge screenings and digester cleaning solids. The fine solids (grit, primary screenings, digested sludge screenings, digester cleaning solids) which are primarily inorganic materials are hauled away to a landfill. The remaining solid fractions (primary sludge and skimmings, thickened waste activated sludge) are anaerobically digested on-site. The digested solids are screened and dewatered using scroll centrifuges. JWPCP generates approximately 98,000 dry metric tons of Class B biosolids per year. The biosolids are hauled off-site for use in composting and land application, combined with municipal solid waste for co-disposal, or processed into a renewable fuel for cement kilns.

Methane gas generated in the anaerobic digestion process is used to produce power and digester heating steam in a total energy facility that utilizes gas turbines and waste-heat recovery steam generators. The on-site generation of electricity permits the JWPCP to produce its own electricity.

Each treatment process is described in more detail below:

- a. Primary Treatment: Primary treatment begins with two inlet works that receive flow from three influent sewers. Inlet Works No. 1 receives approximately 70% of the total JWPCP flow and Inlet Works No. 2 receives the remaining 30%. Six bar screens for Inlet Works No. 1 and three bar screens for Inlet Works No. 2 remove solids by capturing large debris through bars spaced approximately 1 inch apart. Captured debris is continuously removed from each bar screen, by five equally spaced rakes, and deposited into a trough. The trough delivers the debris to one of two dewatering compactors. Water removed in the compactors is returned to the treatment process upstream of the bar screens while the dewatered debris is disposed of in a landfill. Wastewater effluent from the bar screens is directed to one of six grit chambers, which remove heavy inorganic material. Grit slurry is pumped from the chambers and dewatered with the use of cyclones and clarifiers. The water is returned to the inlet of the grit chambers and the dewatered grit is disposed of in a landfill. Wastewater from the grit chambers is then directed to the sedimentation tanks for settleable and floatable solids removal. The JWPCP has 52 primary sedimentation tanks arranged into three sedimentation tank batteries. The wastewater enters each tank through three inlet gates with diffusers. Flow is reduced from roughly 3 feet per second to 3 feet per minute to allow suspended solids to settle. Biosolids are directed through draw off lines and pumped to raw sludge transfer stations before transfer to anaerobic digesters. Floatable solids are pushed to the effluent end of the tank where they are pulled up into a skimmings trough, then conveyed to one of four skimmings wet wells. Ultimately the skimmings are directed to one of 24 circular anaerobic digesters, each with a volume of approximately 500,000 cubic feet, for final processing. Anaerobic digestion of the biosolids reduces the concentration of pathogens, offensive odors, and the overall amount of solids to be dewatered. It also produces methane as a by-product, which is used to power the JWPCP.
- b. Secondary Treatment: A secondary influent pumping station pumps primary effluent to the secondary treatment facilities. Eight biological reactors, each with a design capacity of 50 MGD, convert finely divided and dissolved organic matter that passes through primary treatment into settleable solids that are removed by final clarification. Each reactor is subdivided into four stages, each stage with three aerators/mixers to facilitate oxygen dissolution and mixing. The first stage of the reactors is operated as an anaerobic selector, with limited exposure to oxygen to suppress the growth of certain organisms in the activated sludge. In the following three stages, the activated sludge consumes organic matter in the mixed liquor and produces more organisms. The fourth stage of some of the reactors also functions as a pH adjustment stage. The reactors are covered to retain the high purity oxygen gas introduced into the system and permit a high degree of oxygen utilization by the activated sludge.

After passing through the biological reactors, wastewater flows into the final clarifiers to separate the activated sludge solids from the biological reactor's mixed liquor. Each reactor has a bank of 26 sedimentation tanks where floatable material is skimmed off the top, collected, and directed to a sewer line. Solids

that settle to the bottom are scraped to two hoppers where the sludge is collected and drawn off to return sludge pumping stations. There is one pumping station per reactor, each consisting of three pumps, that pumps activated sludge to the inlet of the reactors to keep an effective concentration of microorganisms in the reactors. However, a portion of the activated sludge is wasted from the reactor/clarifier system to maintain the desired population of microorganisms in the reactors.

A dissolved air flotation thickening system is used to concentrate the waste activated biosolids produced in secondary treatment. Solids on the surface of the flotation tank are collected using skimmers and then pumped to the anaerobic digestion system, located with the primary treatment facilities. The clarified effluent is returned to the secondary influent force main. Secondary effluent is disinfected using a bleach solution to achieve a chlorine residual of approximately 1-2 mg/L and then is either pumped or gravity fed, depending on tidal conditions, to the Pacific Ocean.

- c. Solids Processing: Discharge from the 24 circular digesters is diverted into three pump station wet wells, one of which is the central wet well for transfer of digested biosolids to solids processing. The central wet well consists of three individual structures, each with a capacity of 822,800 gallons and equipped with two gas blowers that pump digester gas into the wet well to provide mixing. Biosolids are pumped using three digested sludge pumps through rotary screens and into centrifuge feed pumping station wet wells, housing a total of five pumps. The pumps are used to deliver digested sludge to the centrifuges, which are used to separate water from the suspended solids. There are currently 31 lowspeed and 8 high-speed centrifuges. The high-speed centrifuges are capable of increasing gravity up to a factor of 3,000, while the low-speed centrifuges increase gravity by a factor of approximately 1,000. Diluted cationic polymer is used in the process to enhance flocculation. The dewatered cake (biosolids) drops through a hopper below each elevated centrifuge onto a conveyor belt, while the waste concentrate is collected through a second hopper into a central drainage system. Eighteen storage silos, each of which can hold up to 510 tons, store the biosolids prior to conveyance to truck loading stations. Centrate from the centrifuges is collected and gravity flows to the Centrate Treatment System Facility, where solids are concentrated using dissolved air flotation. The clarified effluent from the Centrate Treatment Facility discharges to a wet well, where it flows by gravity to mix with the secondary effluent after the secondary influent pump station prior to entering the biological reactors.
- d. Food Waste Slurry System: On July 16, 2021, the Discharger submitted a letter to the Los Angeles Water Board indicating that operation of the Food Waste Receiving and Co-Digestion System at JWPCP has commenced and standard operating procedures are in place. Separated food waste is unloaded at the Puente Hills Materials Recovery Facility located in the City of Industry, California. The food waste is prescreened to remove large inert contaminants. The food waste is then loaded into a food waste slurry processor through a feeder/hopper. During processing, inorganic inert contaminants are separated from the food waste slurry. The inert contaminants are stored in bins and disposed as refuse.

- The main inert contaminants are plastic bags, containers, glass and metals. The food waste slurry is stored in tanks at the Material Recovery Facility. The solid food waste slurry is then transported to the JWPCP digestors where it is anaerobically digested, and liquid food waste slurry is added to the headworks.
- e. Power Generation: The JWPCP is self-reliant with respect to power generation. All the power and most of the heating steam requirements for the JWPCP are provided by three digester gas fired turbines, each equipped with a 9.9 MW electric generator, and one steam turbine. Utility power is available whenever the on-site power facility is out of service.
  - Digester gas must be dewatered and scrubbed of particulate matter prior to combustion. Digester gas is first scrubbed, using two Venturi scrubbers and nonpotable water, and particulate matter is regularly blown down from the scrubber storage tanks. Two mist eliminators downstream of the Venturi scrubbers remove water droplets from the gas stream, and the digester gas is then further treated using two chillers that condense water vapor. From there, digester gas is directed to a surge tank prior to compression. Natural gas is used to boost the heat input during periods of low digester gas production. Three compressors are used to compress the digester gas, or a mixture of digester gas and natural gas, from approximately 10 inches of water column to approximately 350 pounds per square inch (psig). Prior to combustion in the gas turbine, the high-pressure digester gas is chilled to 40 degrees Fahrenheit, using a refrigeration system, to remove any remaining water vapor. Typically, only two gas turbines are in operation while one acts as a standby. During periods when the gas turbines are not operational, digester gas can be burned at two different flare stations, with the South Flare Station consisting of five waste gas flares and the North Flare Station consisting of seven waste gas flares. Waste heat from the gas turbine exhaust is used to produce steam, using heat recovery steam generators, and directed to a steam turbine for power production and digester heating steam. The gas turbines are operated without waste heat recovery. Digester heating steam is provided by means of four digester gas-fired boilers, along with an additional natural gas-fired boiler for emergencies. These boilers both supplement and serve as a backup to the waste heat steam generation.
- 2.1.3. Recycled Water: Approximately 20 MGD of JWPCP effluent is recycled for internal uses within the treatment processes and for maintenance. However, due to the plant's influent sources, salt levels are too high for reuse in irrigation for most industrial processes. More importantly, JWPCP serves a critical role in facilitating regional water reclamation by handling waste streams (e.g., solids and concentrates from reverse osmosis systems) from local and the upstream water recycling facilities (Whittier Narrows, San Jose Creek, Pomona, Los Coyotes and Long Beach). The recycled water from the upstream water reclamation plants is individually permitted.

The Metropolitan Water District (MWD) and the Discharger have been developing Pure Water Southern California since 2010. Pure Water Southern California provides an opportunity to develop a local and sustainable water supply for Los Angeles and Orange Counties, with the objective of providing water to replenish the Central, West Coast, Main San Gabriel, and Orange County Groundwater Basins. MWD and the Discharger plan to construct a new Advanced Water Treatment

Facility (AWTF) including membrane bioreactors, reverse osmosis, and ultraviolet/advanced oxidation processes at the JWPCP to ultimately produce 150 MGD or 168,000 acre-feet per year (AFY) of purified water for beneficial reuse including replenishing groundwater basis, industrial uses, and eventually direct potable reuse.

The first step towards developing this project was pilot testing conducted between 2010 and 2012, which demonstrated that it is technically feasible for the secondary effluent from JWPCP to be advanced treated to meet the water quality required for groundwater recharge. In September 2019, the Sanitation Districts and the MWD completed construction of a 0.5 MGD advanced treatment demonstration plant to demonstrate the effectiveness of various treatment strategies. A Notice of Preparation for the full-scale system was distributed in September 2022 and the final Environmental Impact Report is expected to be complete in early 2024. Once approved, design and construction will follow with an estimated completion date of 2032 to produce up to 100 MGD purified water and 2036 to produce up to 150 MGD purified water.

# 2.2. Discharge Points and Receiving Waters

- 2.2.1. After chlorination, the secondary treated effluent travels about 6 miles through tunnels to the outfall manifold and then is discharged to the Pacific Ocean, at White Point off the Palos Verdes Peninsula. (Refer to the Flow Schematic, Attachment C).
- 2.2.2. The JWPCP has four outfalls (terminating at Discharge Points 001 through 004) located at White Point, off the Palos Verdes Peninsula. All effluent from the JWPCP travels through two tunnels under the Palos Verdes Peninsula to the shoreline of the Pacific Ocean, where an underground manifold system of valves connects the tunnels to four ocean outfalls. The manifold and the starting point for the four outfalls are located near White Point, on the Palos Verdes Peninsula. The 120-inch outfall (terminating at Discharge Point 001) lies to the south of the manifold and continuously discharges approximately 65% of the treated wastewater. The 90-inch outfall (terminating at Discharge Point 002) lies southwest of the manifold and continuously discharges approximately 35% of the treated wastewater. The 72-inch outfall (terminating at Discharge Point 003) is located between the 120-inch and 90-inch outfalls and is used during times of heavy rains to provide hydraulic relief for flow in the outfall system. The 60-inch outfall (terminating at Discharge Point 004) is also located between the 90-inch and 120inch outfalls and serves as a standby outfall to provide additional hydraulic relief during the very heaviest flows. All four of these outfalls terminate in diffuser sections that contain multiple ports with opposing discharge direction from a minimum depth of 100 feet for the 60-inch diffuser to the maximum diffuser depth of 210 feet at the end of the 90-inch outfall. The diffusers lie at the outer edge of a narrow shelf offshore of the Palos Verdes peninsula.

These four outfalls are described as follows:

**Table F-2 Outfall Descriptions** 

Discharge Point	Description			
001	White Point 120-inch ocean outfall (33.6892°, -118.3167°) Approximately 65% of the effluent from JWPCP is discharged from this outfall. It discharges south of the shoreline off White Point, San Pedro. The outfall is 7440 ft. long to the beginning of a single L-shaped diffuser leg which is 4440 ft. long. Depth at the beginning of the diffuser is 167 ft. and at the end of the diffuser is 190 ft.			
002	White Point 90-inch ocean outfall (33.7008°, -118.3381°) Approximately 35% of the effluent from JWPCP is discharged from this outfall. It discharges southwest of the shoreline off White Point, San Pedro. The outfall is 7982 ft. long to the beginning of a y-shaped diffuser with two legs. Each leg is 1208 ft. long. Depth at the beginning of the diffusers is 196 ft. and at the end of the diffusers is 210 ft.			
003	White Point 72-inch ocean outfall (33.7008°, -118.3300°) This outfall is used only during times of heavy flow to provide hydraulic relief in the outfall system. When used, it discharges off the White Point shoreline between Discharge Points 001 and 002 and about 160 ft. below the ocean surface. The outfall is about 6500 ft. long and connects to a diffuser with two legs, each approximately 200 ft. long.			
004	White Point 60-inch ocean outfall (33.7061°, -118.3283°) This outfall is used as a standby to provide additional hydraulic relief during the heaviest flow. When used, it discharges off the White Point shoreline between Discharge Serial Nos. 002 and 003 and about 110 ft. below the ocean surface. The outfall is about 5000 ft. long and connects to a single, very short diffuser.			

2.2.3. In addition to the JWPCP effluent, the waste brine generated by the West Basin Municipal Water Districts' Carson Regional Water Recycling Plant is also discharged to the ocean through the JWPCP's outfalls via a waste brine line connected to the JWPCP effluent tunnel. The Royal Palms Restroom at the Royal Palms State Beach also discharges treated effluent to the JWPCP outfall at manhole J204. The discharge of waste brine from West Basin and treated effluent from the Royal Palms Restroom are regulated under separate waste discharge requirements and NPDES permits.

# 2.3. Summary of Existing Requirements and Self-Monitoring Report (SMR) Data

Effluent limitations contained in the previous Order No. R4-2017-0180 for discharges from Discharge Point 001 (Monitoring Locations EFF-001) and Discharge Point 002 (EFF-002) and representative monitoring data from the term of the previous Order collected from November 1, 2017 to June 30, 2022 are summarized in Tables F-3. There were four occasions during which discharge through Discharge Point 003 occurred during this timeframe.

Table F-3 Effluent Limitations in Order No. R4-2017-0180 and Historical Monitoring Data at EFF-001 and EFF-002

Parameter	Units	Average Monthly Limit	Average Weekly Limit	Maximum Daily Limit	Instan- taneous Minimum & Maximum Limit	Maximum Monthly Average	Maximum Weekly Average	Maximum Daily	Instan- taneous Minimum & Maximum	Note
Biochemical Oxygen Demand (BOD₅20°C)	mg/L	30	45			19.7	20.7			
BOD <sub>5</sub> 20°C Removal Percentage	%	85				>95%				а
Total Suspended Solids (TSS)	mg/L	30	45			17	37			
TSS Removal Percentage	%	85				>95%				а
Oil & Grease	mg/L	15	22.5	45	75	3.0	19	38.1		
Settleable Solids	mL/L	0.5	0.75	1.5	3.0	0.12	0.2	0.2	0.2	
рН	pH Unit		1		6.0 - 9.0	1	1	-	6.7-7.4	
Temperature	°F			100				88.2		
Turbidity	NTU	75	100		225	6.5	-		14	
Residual Chlorine	mg/L	0.33	ŀ	1.34	10	<0.33	1	0.7	0.7	
Chronic Toxicity	TUc	-	-	pass		pass				
Benzidine	μg/L	0.012				<7.2		<7.2		
Chlordane	μg/L	0.0038				<0.1		<0.1		
DDT	μg/L	0.0158				-	-	0.01		
3,3'-Dichlorobenzidine	μg/L	1.4				<5		<5		
Hexachlorobenzene	μg/L	0.035				<2.4		<2.4		
Total Polychlorinated Biphenyls (PCBs)	μg/L	0.00035	-			<0.5		<0.5		
TCDD equivalents	pg/L	0.65						0.017		
Toxaphene	μg/L	0.035				<0.3		<0.3		

# **Footnotes for Table F-3**

a. This is a minimum average monthly effluent limitation.

## **End of Footnotes for Table F-3**

## 2.4. Compliance Summary

Data collected from November 1, 2017 to June 30, 2022 indicate that there were no exceedances of effluent limitations in Order Number R4-2017-0180. However, there were deficient monitoring violations due to quality control failures throughout the monitoring period. The Discharger conducted corrective actions to prevent deficient monitoring violations including: (1) providing additional staff training; (2) adding additional labels of samples; (3) reviewing backlog checking protocols; (4) updating laboratory QA/QC protocols; and (5) daily email update with details on which outfalls are used. Since implementation of these corrective actions, the Discharger has not reported any additional deficient monitoring violations related to those described above.

## 2.5. Receiving Water Description

JWPCP discharges to the Santa Monica Bay watershed, which is home to unique wetland, sand dune, and open ocean ecosystems that support a rich diversity of wildlife and serve as migration stopovers for marine mammals and birds. The Santa Monica Bay and its beaches are invaluable recreational resources and important sources of revenue for the region. The Santa Monica Bay is heavily used for fishing, swimming, surfing, diving, and other activities classified as water contact and noncontact recreation.

Over the years, the beneficial uses of the Santa Monica Bay have been impaired to various degrees due to pollution, resource over-exploitation, and habitat destruction. The primary problems of concern include acute health risk associated with swimming in runoff-contaminated surf zone waters, chronic (cancer) risk associated with consumption of certain sport fish species in areas impacted by DDT, contaminants of emerging concerns (CECs), harmful algal blooms (HABs), and PCBs contamination, pollutant loading from point sources, urban runoff, and other nonpoint sources in light of projected population increases and their impacts on marine ecosystem, health of fishery resources, and degradation of natural habitats, and population decline of key species. (SMBRC. 2004. "State of the Bay: 2004 Progress and Challenges", 45 pages; Santa Monica Bay Restoration Project. 1998. "Taking the Pulse of the Bay - State of the Bay 1998").

Section 403 of the Clean Water Act (CWA) requires dischargers to comply with specific Ocean Discharge Criteria established to address impacts on marine resources, including fisheries and endangered species. The Discharger submitted the *2018-2019 Biennial Receiving Water Monitoring Report* on August 27, 2020, to demonstrate compliance with the section 403 Ocean Discharge Criteria. Based upon an evaluation of previous receiving water monitoring data and reports from other agencies, the Discharger concluded that the environmental impacts associated with the current effluent discharge are insignificant and compliant with applicable numeric standards and narrative objectives as defined in the California Ocean Plan and the previous Order No. R4-2017-0180. The Discharger further concluded that the analysis of temporal trends also indicate that residual impacts from historical discharges are lessening in magnitude and spatial extent with time and clearly documents the dramatic improvements and continuing recovery of this ecosystem as a result of improvements in JWPCP effluent quality since the early 1970s. Los Angeles Water Board staff confirmed that

concentrations of pollutants with water quality objectives listed in the 2021 annual report between the 1970s to 2021 are trending downward, except for ammonia. Although ammonia concentrations in effluent are trending upward, the discharge did not have reasonable potential to contribute to or exceed the water quality of objectives for ammonia in the Ocean Plan.

## 2.6. Planned Changes

Environmental planning for the full-scale system of the AWTF started in 2021 and is expected to end in 2024. Once approved, design and construction will follow with an estimated completion date of 2032 to produce up to 100 MGD purified water and 2036 to produce up to 150 MGD purified water.

In addition, JWPCP uses an 8-foot diameter tunnel constructed in 1937 and a 12-foot tunnel constructed in 1958 to convey the secondary-treated effluent to the ocean. A multi-year planning and environmental review effort began in 2006 and identified the need for a new 18-foot diameter tunnel to ensure the reliability and provide sufficient future capacity. A new 18-foot tunnel is being constructed under the Clearwater Project and it addresses the following concerns with the existing tunnels:

- 2.6.1. **Aging infrastructure concerns** The existing tunnels cannot be taken out of service because they must continuously carry flow.
- 2.6.2. **Earthquake concerns** The existing tunnels are not built to current earthquake standards, even though they cross two earthquake faults.
- 2.6.3. Overflow concerns The capacity of the existing tunnels was almost exceeded twice during major rainstorms, including the rainstorm in January 2017. If the combined tunnel capacity is exceeded, partially treated or untreated wastewater would be discharged to surrounding waterways, resulting in degradation of water quality.

Attachment B.2. shows the alignment of the new and existing tunnels. The Clearwater Project construction started at the JWPCP in 2019 and will be competed in 2027 at White Point near Royal Palms Beach. This new 18-foot diameter tunnel will connect to the current manifold located at White Point, but the permitted discharge volume and dilution credits at Discharge Points 001 through 004 will remain the same.

#### 3. APPLICABLE PLANS, POLICIES, AND REGULATIONS

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

#### 3.1. 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 USEPA and chapter 5.5, division 7 of the Water Code (commencing with section 13370). It shall serve as an NPDES permit authorizing the Discharger to discharge into waters of the United States at the discharge locations described in Table 2 subject to the WDRs in this Order.

## 3.2. California Environmental Quality Act (CEQA)

Under Water Code section 13389, this action to adopt an NPDES permit for an existing facility is exempt from CEQA, (commencing with section 21100) of Division 13 of the Public Resources Code. Additionally, the Facility is exempt from CEQA pursuant to 14 Cal. Code Reg. § 15301, Existing Facilities.

## 3.3. State and Federal Laws, Regulations, Policies, and Plans

### 3.3.1. Water Quality Control Plan

The Water Quality Control Plan for the Los Angeles Region (Basin Plan) designates beneficial uses, establishes water quality objectives (WQOs), and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. Requirements in this Order implement the Basin Plan.

Beneficial uses applicable to the receiving water are as follows:

Water Body Designation	Receiving Water Name	Beneficial Use(s)
180701040500 (Formerly Hydro. Unit No. 405.12)	Point Vicente Beach, Royal Palms Beach, and White Point County Beach	Existing: Navigation (NAV), contact water recreation (REC-1), non-contact water recreation (REC-2), commercial and sport fishing (COMM), marine habitat (MAR), wildlife habitat (WILD), and shellfish harvesting (SHELL).  Potential: Spawning, reproduction, and/or early development of fish (SPWN).
	Pacific Ocean Nearshore Zone (Note a)	Existing: Industrial service supply (IND), NAV, REC-1, REC-2, COMM, MAR, WILD, preservation of biological habitats (BIOL) (Note b), preservation of rare, threatened, or endangered species (RARE) (Note c), migration of aquatic organisms (MIGR) (Note d), SPWN (Note d), and SHELL (Note e).
	Pacific Ocean Offshore Zone	Existing: IND, NAV, REC-1, REC-2, COMM, MAR, WILD, RARE (Note c), MIGR (Note d), SPWN (Note d), and SHELL.

Table F-4. Basin Plan Beneficial Uses

#### Footnotes for Table F-4

- a. The zone bounded by the shoreline and a line 1000 feet from the shoreline or the 30-foot depth contours, whichever is further from the shoreline.
- b. Areas of Special Biological Significance (along coast from Latigo Point to Laguna Point) and Big Sycamore Canyon and Abalone Cove Ecological Reserves and Point Fermin Marine Life Refuge.

- c. One or more rare species utilize all ocean, bays, estuaries, and coastal wetlands for foraging and/or nesting.
- d. Aquatic organisms utilize all bays, estuaries, lagoons and coastal wetlands, to a certain extent, for spawning and early development. This may include migration into areas which are heavily influenced by freshwater inputs.
- e. Areas exhibiting large shellfish populations include Malibu, Point Dume, Point Fermin, White Point and Zuma Beach.

### **End of Footnotes for Table F-4**

#### 3.3.2. California 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 temperature objectives for coastal and inland surface waters. Requirements of this Order implement the Thermal Plan.

#### 3.3.3. California Ocean Plan

The State Water Board adopted the *Water Quality Control Plan for Ocean Waters of California* (Ocean Plan) in 1972, as amended. 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 waters of the State. The Ocean Plan identifies beneficial uses of ocean waters of the State to be protected as summarized below:

Discharge PointReceiving WaterBeneficial Use(s)001, 002, 003 and 004Pacific Ocean Significance, RARE, MAR, MIGR, SPWN, and SHELL.

**Table F-5 Ocean Plan Beneficial Uses** 

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 as amended in 2019 (2019 Ocean Plan).

# 3.3.4. Santa Monica Bay Comprehensive Conservation Management Plan

The JWPCP discharges to Santa Monica Bay, one of the most heavily used recreational areas in California. Recognizing the importance of the Bay as a national resource, the State of California and USEPA nominated Santa Monica Bay to the National Estuary Program, and Congress subsequently included Santa Monica Bay in the program. The Santa Monica Bay National Estuary Program, with support from the USEPA, developed a Comprehensive Conservation and Management Plan (CCMP), which serves as a blueprint for restoring and enhancing the Bay. The Los Angeles Water Board plays a lead role in the implementation of the plan through adoption and enforcement of NPDES permits. Three of the CCMP actions address

reducing pollutants of concern at the source (including municipal wastewater treatment plants), recycling water at the City of Los Angeles' Hyperion WRP and the County Sanitation Districts of Los Angeles County's Joint Water Pollution Control Plant, and improving water quality (e.g., CECs and HABs)).

## 3.3.5. Compliance Schedule Policy

On April 15, 2008, the State Water Board adopted Resolution No. 2008-0025, Policy for Compliance Schedule in National Pollutant Discharge Elimination System Permits (Compliance Schedule Policy). The Compliance Schedule Policy became effective on December 17, 2008. Compliance Schedule Policy is a statewide water quality control policy that authorizes compliance schedules in NPDES permits that implement Clean Water Act section 301(b)(1)(C). The Compliance Schedule Policy supersedes all existing provisions authorizing NPDES compliance schedules with the exception of: (1) existing compliance schedule provisions in Total Maximum Daily Load (TMDL) implementation plans in Regional Water Quality Control Plans; and (2) the provisions authorizing compliance schedules for the 2019 Ocean Plan. Existing compliance schedules in NPDES permits are generally not required to be modified to comply with the Compliance Schedule Policy.

#### 3.3.6. Alaska Rule

On March 30, 2000, USEPA revised its regulation that specifies when new and revised state and tribal water quality standards become effective for CWA purposes (40 CFR § 131.21, 65 Federal Register 24641 (April 27, 2000)). Under the revised regulation (also known as the Alaska Rule), new and revised standards submitted to USEPA after May 30, 2000, must be approved by USEPA before being used for CWA purposes. The final rule also provides that standards already in effect and submitted to USEPA by May 30, 2000, may be used for CWA purposes, whether or not approved by USEPA.

### 3.3.7. Stringency of Requirements for Individual Pollutants.

This Order contains both technology-based effluent limitations (TBELs) and water quality-based effluent limitations (WQBELs) for individual pollutants. The TBELs consist of restrictions on BOD, TSS, and percent removal of BOD and TSS, which implement the minimum applicable federal technology-based requirements for POTWs. In addition, effluent limitations more stringent than federal technology-based requirements consisting of restrictions on oil and grease, settleable solids, turbidity, and pH are necessary to implement State treatment standards in Table 4 of the 2019 Ocean Plan. This Order's technology-based pollutant restrictions implement the minimum, applicable federal technology-based requirements.

WQBELs for chlorine residual, aldrin, and dieldrin have been scientifically derived to implement WQOs that protect beneficial uses. Both the beneficial uses and the WQOs have been approved pursuant to federal law and are the applicable federal water quality standards. All beneficial uses and WQOs contained in the Basin Plan and the 2019 Ocean Plan were approved under state law and submitted to and approved by USEPA prior to May 30, 2000. Any WQOs and beneficial uses submitted to USEPA prior to May 30, 2000, but not approved by USEPA before that

date, are nonetheless "applicable water quality standards for purposes of the CWA" pursuant to 40 CFR section 131.21(c)(1).

WQBELs for DDT and PCBs as aroclors have also been established through the Santa Monica Bay TMDL for DDT and PCBs. Details can be found in section 3.5.8.c of this Fact Sheet.

# 3.3.8. Antidegradation Policy

Federal regulations at 40 CFR section 131.12 requires that the 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 68-16 ("Statement of Policy with Respect to Maintaining High Quality of Waters in California"). Resolution 68-16 is deemed to incorporate the federal antidegradation policy where the federal policy applies under federal law. Resolution 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Los Angeles Water Board's Basin Plan implements, and incorporates by reference, both the state and federal antidegradation policies. The permitted discharges are consistent with the antidegradation provision at 40 CFR section 131.12 and State Water Board Resolution 68-16 and is further described in section 4.4.2 of the Fact Sheet.

### 3.3.9. Anti-Backsliding Requirements

Sections 402(o) and 303(d)(4) of the CWA and federal regulations at 40 CFR 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. The applicability of these requirements to this Order is discussed in detail in section 4.4.1 of this Fact Sheet.

## 3.3.10. 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 (ESA) (Fish and Game Code, sections 2050 to 2097) or the Federal Endangered Species Act (16 U.S.C.A. 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 and endangered species. The Discharger is responsible for meeting all requirements of the applicable ESA.

## 3.3.11. Water Recycling

In accordance with statewide policies concerning water reclamation [See, e.g., CWC sections 13000 and 13550-13557, State Water Board Resolution Number 77-1 (Policy with Respect to Water Reclamation in California), and State Water Board Resolution Numbers. 2009-0011, 2013-0003, and 2018-0057 (*Water Quality Control Policy for Recycled Water* (Recycled Water Policy))], the Los Angeles Water Board strongly encourages, wherever practicable, water recycling, water conservation, and use of stormwater and dry-weather urban runoff. The Discharger shall investigate the feasibility of recycling, conservation, and/or alternative disposal methods of

wastewater (such as groundwater injection), and/or the use of stormwater and dryweather runoff.

Section 4.3 of the Order requires the Discharger to submit an update to this feasibility study as part of the submittal of the Report of Waste Discharge (ROWD) for the next permit renewal.

The State Water Board adopted the Recycled Water Policy on February 3, 2009 and amended it most recently on December 11, 2018. The most recent amendments became effective on April 8, 2019. The Recycled Water Policy requires wastewater and recycled water dischargers to annually report monthly volumes of influent, wastewater produced, and effluent, including treatment level and discharge type. As applicable, dischargers are additionally required to annually report recycled water use by volume and category of reuse. The State Water Board issued a Water Code Section 13267 and 13383 Order, Order WQ 2019-0037-EXEC, on July 24, 2019 to amend MRPs for all NPDES permits, WDRs, WRRs, Master Recycling permits, and General WDRs. Annual reports are due by April 30 of each year, and the report must be submitted to GeoTracker. This Order implements the Recycled Water Policy by incorporating the volumetric monitoring reporting requirements in accordance with Section 3 of the Recycled Water Policy

(https://www.waterboards.ca.gov/board\_decisions/adopted\_orders/resolutions/2018/121118\_7\_final\_amendment\_oal.pdf) in section 10.4.12 of the MRP in this Order. Accordingly, upon the effective date of this Order, the State Water Board's Order WQ 2019-0037-EXEC will no longer be applicable to the Discharger.

## 3.3.12. Monitoring and Reporting

40 CFR section 122.48 requires that all NPDES permits specify requirements for recording and reporting monitoring results. Water Code section 13383 authorizes the Los Angeles Water Board to require technical and monitoring reports. The Monitoring and Reporting Program (MRP) establishes monitoring and reporting requirements to implement federal and state requirements. This MRP is provided in Attachment E.

# 3.3.13. Sewage Sludge/Biosolids Requirements

This Order does not authorize any act that results in violation of requirements administered by USEPA to implement 40 CFR 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 Permittee Is responsible for meeting all applicable requirements of 40 CFR Part 503 that are under USEPA's enforcement authority.

### 3.3.14. Domestic Water Quality

In compliance with Water Code section 106.3, it is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes.

## 3.3.15. Pretreatment Requirements

The application of pretreatment requirements is monitored by the Discharger and the permit will be reopened when additional pretreatment requirements are determined to be applicable to the discharge. The Discharger has developed and is implementing a Pretreatment Program that was previously approved by USEPA. This Order requires implementation of the approved Pretreatment Program. JWPCP receives wastewater from 183 categorical industrial user (CIU) permittees, 343 significant industrial user (SIU) permittees, and 667 other industrial users. Any change to the Pretreatment Program shall be reported to the Los Angeles Water Board in writing and shall be approved in accordance with procedures established in 40 CFR § 403.18. The Discharger shall comply with requirements contained in Attachment I – Pretreatment Reporting Requirements.

## 3.3.16. Standard and Special Provisions

Standard Provisions, which apply to all NPDES permits in accordance with 40 CFR § 122.41, and additional conditions applicable to POTWs in accordance with 40 CFR § 122.42, are provided in Attachment D. The Los Angeles Water Board also included in this Order Special Provisions applicable to the Discharger. The rationale for the Special Provisions contained in this Order is provided in section 8 of this Fact Sheet.

## 3.4. Impaired Water Bodies on CWA Section 303(d) List

The State Water Board adopted the California 2020 – 2022 Integrated Report based on a compilation of the Regional Water Boards' Integrated Reports. These Integrated Report contain both the Clean Water Act (CWA) section 305(b) water quality assessment and section 303(d) list of impaired waters. In developing the Integrated Reports, the Water Boards solicit data, information, and comments from the public and other interested persons. On January 19, 2022, the State Water Board approved the CWA Section 303(d) List portion of the State's 2020 – 2022 Integrated Report (State Water Board Resolution Number 2022-0006). On May 11, 2022, USEPA approved California's 2020 – 2022 Integrated Report. The CWA section 303(d) list can be found at the following link:

https://www.waterboards.ca.gov/water\_issues/programs/water\_quality\_assessment/202 0\_2022\_integrated\_report.html.

Santa Monica Bay (Offshore and Nearshore) is on the 303(d) list for the following pollutants/stressors from point and non-point sources: DDT (tissue & sediment), arsenic, mercury, PCBs (tissue & sediment), and trash. Arsenic and mercury are the only pollutants on the 303(d) list without Total Maximum Daily Loads (TMDLs). The Santa Monica Bay Beaches Bacteria TMDLs were approved by USEPA in 2003, as described in section 3.5.6.a. of this Fact Sheet. The Santa Monica Bay Nearshore and Offshore Debris TMDL was approved by USEPA on March 20, 2012, and more details are provided in section 3.5.8.b. of this Fact Sheet. The Santa Monica Bay TMDL for DDT and PCBs was approved and adopted by USEPA on March 26, 2012 and is further described in section 3.5.8.c of the Fact Sheet.

## 3.5. Other Plans, Polices and Regulations

## 3.5.1. Climate Change Adaptation and Mitigation

On March 7, 2017, the State Water Board adopted a resolution in recognition of the challenges posed by climate change that requires a proactive approach to climate change in all State Water Board actions, including drinking water regulation, water quality protection, and financial assistance (Resolution Number 2017-0012). The resolution lays the foundation for a response to climate change that is integrated into all State Water Board actions, by giving direction to the State Water Board divisions and encouraging coordination with the Los Angeles Water Board. The Los Angeles Water Board also adopted "A Resolution to Prioritize Actions to Adapt to and Mitigate the Impacts of Climate Change on the Los Angeles Region's Water Resources and Associated Beneficial Uses" (Resolution Number R18-004) on May 10, 2018. The resolution summarizes the steps taken so far to address the impacts of climate change within the Los Angeles Water Board's programs, and lists a series of additional steps, including the identification of potential regulatory adaptation and mitigation measures that could be implemented on a short-term and long-term basis by each of the Los Angeles Water Board's programs to mitigate the effects of climate change on water resources and associated beneficial uses where possible. This kind of study and management is an important part of planning for the future, as "[m]unicipalities across the country are facing the challenging obligation to manage their aging sewer and stormwater systems at a time of urban population growth, more stringent water quality protection requirements, and increased exposure to climate change-related risks." USEPA, Asset Management: Incorporating Asset Management Planning Provisions into NPDES Permits (December 2014). This Order contains provisions to require planning and actions to address climate change impacts in accordance with both the State and Los Angeles Water Board' resolutions.

The Permittee shall develop a Climate Change Effects Vulnerability Assessment and Management Plan (Climate Change Plan) and submit the Climate Change Plan to the Los Angeles Water Board for the Executive Officer's approval no later than 12 months after the effective date of this Order. The Climate Change Plan shall include an assessment of short and long term vulnerabilities of the facility and operations as well as plans to address vulnerabilities of collection systems, facilities, treatment systems, and outfalls for predicted impacts in order to ensure that facility operations are not disrupted, compliance with permit conditions is achieved, and receiving waters are not adversely impacted by discharges. Control measures shall include. but are not limited to, emergency procedures, contingency plans, alarm/notification systems, training, backup power and equipment, and the need for planned mitigations to ameliorate climate-induced impacts including, but not limited to, changing influent and receiving water quality and conditions, as well as the impact of rising sea level (where applicable), wildfires, storm surges and back-to-back severe storms, which are expected to become more frequent. The Permittee shall also identify new or increased threats to the sewer system resulting from climate change that may impact desired levels of service in the next 50 years. The permittee shall project upgrades to existing assets or new infrastructure projects, and associated costs, necessary to meet desired levels of service. Climate change research also

indicates the overarching driver of climate change is increased atmospheric carbon dioxide from human activity. The increased carbon dioxide emissions trigger changes to climatic patterns, which increase the intensity of sea level rise and coastal storm surges, lead to more erratic rainfall and local weather patterns, trigger a gradual warming of freshwater and ocean temperatures, and trigger changes to ocean water chemistry. As such, the Climate Change Plan shall also identify steps being taken or planned to address greenhouse gas emissions attributable to wastewater treatment plants, solids handling, and effluent discharge processes.

These requirements are consistent with 40 CFR section 122.41(e), requiring permittees to ensure compliance through proper operation and maintenance of facilities, including installation and operation of appropriate auxiliary and backup facilities; and they are authorized pursuant to Water Code section 13383. (*In re the City of Oceanside, Fallbrook Public Utilities Dist. And the Southern California Alliance of Publicly Owned Treatment Works*, State Water Board Order WQ 2021-0005, February 12, 2021 at p. 26.) The Los Angeles Water Board understands that the cost of preparing such a plan could be significant (estimated cost range of \$25,000-\$60,000), but "the costs of ensuring resilient infrastructure to protect water quality against the effects of climate change is warranted." (*Fallbrook,* at p. 27.).

# 3.5.2. Secondary Treatment Regulations

40 CFR part 133 establishes the minimum levels of effluent quality to be achieved by secondary treatment. These limitations, established by USEPA, are incorporated into this Order, except where more stringent limitations are required by other applicable plans, policies, or regulations or to prevent backsliding.

#### 3.5.3. Stormwater

CWA section 402(p), as amended by the Water Quality Act of 1987, requires NPDES permits for stormwater discharges. Pursuant to this requirement, in 1990, USEPA promulgated 40 CFR section 122.26 that established requirements for stormwater discharges under an NPDES program. To facilitate compliance with federal regulations, on November 1991, the State Water Board issued a statewide general permit, *General Permit for Storm Water Discharges Associated with Industrial Activities* (Order Number 2014-0057-DWQ amended by Order 2015-0122-DWQ and Order 2018-0028-DWQ, NPDES No. CAS000001). General NPDES Permit Number CAS000001 has been amended and reissued several times since 1991, and most recently on November 6, 2018. The latest amendment became effective on July 1, 2020.

General NPDES No. CAS000001 is applicable to stormwater discharges from JWPCP's premises. The Discharger certified a Notice of Intent (WDID 4 19I007080) to comply with the requirements of General NPDES No. CAS000001, which became effective July 1, 2015.

Stormwater runoff from JWPCP is collected and discharged to JWPCP's headworks or the sewer during normal operation and potentially to the Wilmington Drain flood control channel during heavy rainfall. The Discharger developed and currently implements a Storm Water Pollution Prevention Plan (SWPPP) to comply with the requirements of NPDES Permit No. CAS000001.

## 3.5.4. Sanitary Sewer Overflows (SSOs)

The CWA prohibits the discharge of pollutants from point sources to surface waters of the United States unless authorized under an NPDES permit. (33 United States Code (USC) sections 1311 and 1342). On December 6, 2022, the State Water Board issued the Statewide *General Waste Discharge Requirements for Sanitary Sewer Systems* (SSS WDRs, State Water Board Order No. WQ 2022-0103-DWQ). Order No. WQ 2022-0103-DWQ supersedes the previous SSS WDRs (Order 2006-0003-DWQ and its subsequent amendments). The SSS WDRs require public agencies that own or operate sanitary sewer systems with greater than one mile of sewer lines to enroll for coverage, comply with requirements to develop and implement sewer system management plans, and report all SSOs to the State Water Board's online SSO database. In October 2006, the Permittee enrolled in the SSS WDRs.

Regardless of the coverage obtained under the SSS WDRs, the Discharger's collection system is part of the POTW that is subject to this NPDES permit. As such, pursuant to federal regulations, the Discharger must properly operate and maintain its collection system (40 CFR section 122.41 (e)), report any noncompliance (40 CFR section 122.41(1)(6) and (7)), and mitigate any discharge from the collection system in violation of this NPDES permit (40 CFR section 122.41(d)).

The requirements contained in this Order in sections 7.3.3.b (Spill Cleanup Contingency Plan section), 7.3.4 (Construction, Operation and Maintenance Specifications section), and 7.3.6 (Spill Reporting Requirements section) are consistent with the requirements of the SSS WDRs. The Los Angeles Water Board recognizes that there may be some overlap between these NPDES permit provisions and SSS WDRs requirements, related to the collection systems. The requirements of the SSS WDRs are considered the minimum thresholds. To encourage efficiency, the Los Angeles Water Board will accept the documentation prepared by the permittees under the SSS WDRs for compliance purposes as satisfying the requirements in sections 7.3.3.b, 7.3.4, and 7.3.6, provided the more stringent provisions contained in this NPDES permit are also addressed in the SSS WDRs submission. Pursuant to the SSS WDRs, Order No. WQ 2022-0103-DWQ section 6.2, the provisions of this NPDES permit supersede the SSS WDRs, for all purposes, including enforcement, to the extent the requirements may be deemed duplicative. The requirements of this Order are more stringent than the SSS WDRs because in addition to the SSS WDRs requirements, this NPDES permit requires water quality monitoring of the receiving water when a spill reaches the surface water.

## 3.5.5. Watershed Management

This Los Angeles Water Board has been implementing a Watershed Management Approach (WMA) to address water quality protection in the Los Angeles Region, as detailed in the Watershed management initiative (WMI). The WMI is designed to integrate various surface and groundwater regulatory programs while promoting cooperative, collaborative efforts within a watershed. It is also designed to focus limited resources on key issues and use sound science. Information about watersheds in the region can be obtained at the Los Angeles Water Board's website

at

http://www.waterboards.ca.gov/losangeles/water\_issues/programs/regional\_program /watershed/index.shtml. The WMA emphasizes cooperative relationships between regulatory agencies, the regulated community, environmental groups, and other stakeholders in the watershed to achieve the greatest environmental improvements with the resources available.

This Order fosters implementation of the WMA by protecting beneficial uses in the watershed and requiring the Discharger to participate with other stakeholders in the development and implementation of a watershed-wide monitoring program. The Monitoring and Reporting Program requires the discharger to participate in regional monitoring programs in the Southern California Bight.

## 3.5.6. Relevant TMDLs

Section 303(d) of the CWA requires states to identify water bodies that do not meet water quality standards and then to establish TMDLs for each waterbody for each pollutant of concern. TMDLs identify the maximum amount of pollutants that can be discharged to waterbodies without causing violations of water quality standards.

a. Santa Monica Bay Beaches Bacteria Total Maximum Daily Loads (TMDLs). The Los Angeles Water Board has adopted two TMDLs to reduce bacteria at Santa Monica Bay beaches during dry and wet weather. The Los Angeles Water Board adopted the Dry Weather and Wet Weather TMDLs on January 24, 2002 and December 12, 2002, respectively (Resolution Nos. 2002-004 and 2002-022). These TMDLs were approved by the State Water Board, State OAL and USEPA Region 9 and became effective on July 19, 2003. These TMDLs were revised by the Los Angeles Water Board on June 7, 2012. The revisions were approved by State Water Board, State OAL, and USEPA Region 9 and became effective on July 2, 2014. The TMDLs are included in Chapter 7-4 of the Basin Plan.

In these TMDLs, waste load allocations (WLAs) are expressed as the number of sample days at a shoreline monitoring site that may exceed the single sample targets for total coliform, fecal coliform, and *Enterococcus* identified under "Numeric Target" in the TMDLs. WLAs are expressed as allowable exceedance days because the bacterial density and frequency of single sample exceedances are the most relevant to public health protection at beaches. The final shoreline compliance point for the WLAs in the TMDLs is the wave wash where there is a freshwater outlet (i.e., publicly owned storm drains or natural creek) to the beach, or at ankle depth at beaches without a freshwater outlet.

The JOS, as the owner of JWPCP, is identified as a responsible jurisdiction in these TMDLs. In these TMDLs, JWPCP is assigned a WLA of zero days of exceedance of the single sample bacterial objectives during all three identified periods – summer dry weather, winter dry weather and wet weather. JWPCP's WLA of zero exceedance days requires that no discharge from its outfalls cause or contribute to any exceedances of the single sample bacteria objectives at the shoreline compliance points identified in the TMDL and subsequently approved Coordinated Shoreline Monitoring Plan (dated April 7, 2004) submitted by responsible agencies and jurisdictions under the TMDLs. The shoreline monitoring data collected as part of the Los Angeles County MS4 Order Number

R4-2012-0175 will be used to demonstrate compliance with the WLAs in these TMDLs.

- b. Santa Monica Bay Inshore and Offshore Debris TMDL. The Los Angeles Water Board adopted the Santa Monica Bay Inshore and Offshore Debris TMDL on November 04, 2010, to eliminate trash in the Santa Monica Bay. The WLAs assigned in this TMDL are applicable to Municipal Separate Storm Sewer System (MS4) permittees. These WLAs are implemented through the Regional MS4 Permit (Order Number R4-2021-0105).
- c. Santa Monica Bay TMDL for DDTs and PCBs. The USEPA adopted the Santa Monica Bay Total Maximum Daily Loads for DDT and PCBs on March 26, 2012. The concentrations of DDT and PCBs in the wastewater effluent are currently at or near the detection limits; however, due to historic discharges of DDT and PCBs to the Santa Monica Bay, these constituents continue to persist in the environment, particularly in the ocean sediments. The concentrations of PCBs and DDT in surface sediments have decreased substantially since the 1970s as much of the contamination has been carried away by currents, buried below the active sediment layer, or degraded as a result of natural processes. Despite the decreasing trend, the concentrations of DDT and PCBs in surface sediments today are at levels that can still accumulate in fish tissues at levels of concern for safe human health consumption. JWPCP is identified as a responsible jurisdiction in this TMDL and as such, the TMDL sets Average Monthly and Average Annual WLAs for DDT and PCBs for JWPCP. These WLAs have been incorporated into this Order as final effluent limitations.

# 3.5.7. Environmental Justice and Advancing Racial Equity

When issuing or reissuing individual waste discharge requirements or waivers of waste discharge requirements that regulate activity or a facility that may impact a disadvantaged or tribal community, and that includes a time schedule in accordance with subdivision (c) of Section 13263 for achieving an applicable water quality objective, an alternative compliance path that allows time to come into compliance with water quality objectives, or a water quality variance, the regional board shall make a finding on potential environmental justice, tribal impact, and racial equity considerations. (Water Code § 13149.2, effective Jan. 1, 2023) This Order does not include a time schedule. Nevertheless, in accordance with the Water Boards' efforts to advance racial equity, the Order requires all Permittees to meet water quality standards to protect public health and the environment, thereby benefitting all persons and communities within the Region. The Los Angeles Water Board is committed to developing and implementing policies and programs to advance racial equity and environmental justice so that race can no longer be used to predict life outcomes, and outcomes for all groups are improved.

### 4. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

The CWA requires point source dischargers to control the amount of 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: 1) 40

CFR section 122.44(a) requires that permits include applicable technology-based limitations and standards (TBELs) and standards; and 2) 40 CFR section 122.44(d) requires that permits include WQBELs to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water. Where numeric water quality objectives have not been established, 40 CFR § 122.44(d) specifies that WQBELs may be established using USEPA criteria guidance under CWA section 304(a); proposed State criteria or a State policy interpreting narrative criteria supplemented with other relevant information may be used; or an indicator parameter may be established.

The variety of potential pollutants present in the Facility discharge presents a potential for aggregate toxic effects to occur. Whole effluent toxicity (WET) is an indicator of the combined effect of pollutants contained in the discharge. Chronic toxicity is a more stringent requirement than acute toxicity. Therefore, chronic toxicity is considered a pollutant of concern for protection and evaluation of narrative Basin Plan Water Quality Objectives for toxicity.

# 4.1. Discharge Prohibitions

This permit implements discharge prohibitions that are applicable under section III.I of the 2019 Ocean Plan.

### 4.2. Technology-Based Effluent Limitations (TBELs)

## 4.2.1. Scope and Authority

Technology-based effluent limits require a minimum level of treatment for industrial/municipal point sources based on currently available treatment technologies while allowing the Permittee to use any available control techniques to meet the effluent limits. The 1972 CWA required POTWs to meet performance requirements based on available wastewater treatment technology. Section 301 of the CWA established a required performance level (referred to as "secondary treatment") that all POTWs were required to meet by July 1, 1977. More specifically, section 301(b)(1)(B) of the CWA required that USEPA develop secondary treatment standards for POTWs as defined in section 304(d)(1). Based on this statutory requirement, USEPA developed national secondary treatment regulations which are specified in 40 CFR part 133. These technology-based regulations apply to all POTWs and identify the minimum level of effluent quality to be attained by secondary treatment in terms of BOD520°C, TSS, and pH.

# 4.2.2. Applicable TBELs

Section 301(b) of the CWA and implementing USEPA permit regulations at 40 CFR  $\S$  122.44 require that permits include conditions meeting applicable technology-based requirements at a minimum, and more stringent effluent limitations necessary to meet minimum federal technology-based requirements based on Secondary Standards at 40 CFR  $\S$  133 and Best Professional Judgment (BPJ) in accordance with 40 CFR  $\S$  125.3. Secondary treatment is defined in terms of three parameters – BOD $_520^{\circ}$ C, TSS, and pH. The removal efficiency for BOD $_520^{\circ}$ C and TSS is set at the minimum level attainable by secondary treatment technology. The following table summarizes the technology-based requirements for secondary treatment, which are applicable to the Facility:

Table F-6. Summary of TBELs in 40 CFR §133.102

Parameter	Units	30-Day Average	7-Day Average	Instan. Min.	Instan. Max.
BOD₅20°C	mg/L	30	45		
TSS	mg/L	30	45		
Removal Efficiency for BOD and TSS	%	≥85		1	
pH	pH Unit			6.0	9.0

Also, Table 4 of the 2019 Ocean Plan establishes the following TBELs, which are applicable to JWPCP:

Table F-7. Summary of TBELs for POTWs Established by the 2019 Ocean Plan

Parameter	Units	AMEL	AWEL	Instan. Min.	Instan. Max.	Note
Oil & Grease	mg/L	25	40		75	
Settleable Solids	mL/L	1.0	1.5		3.0	
Turbidity	NTU	75	100		225	
Removal Efficiency for TSS	%	75				а
рН	pH Unit			6.0	9.0	

### **Footnotes for Table F-7**

a. Dischargers shall, as a 30-day average, remove 75% of suspended solids from the influent stream before discharging wastewaters to the ocean, except that the effluent limitation to be met shall not be lower than 60 mg/L.

#### **End of Footnotes for Table F-7**

All TBELs from Order Number R4-2017-0180 for BOD<sub>5</sub>20°C, TSS, oil and grease, settleable solids, pH, and turbidity, are retained in this Order. Limitations for BOD<sub>5</sub>20°C, TSS, and pH are based on secondary treatment standards established by the USEPA at 40 CFR § 133. Limitations for oil and grease, settleable solids, pH and turbidity are based on requirements in the 2019 Ocean Plan. Since the average monthly, average weekly, and maximum daily limitations for settleable solids and oil and grease in Order No. R4-2017-0180 are more stringent than those established by the 2019 Ocean Plan, these limitations in Order No. R4-2017-0180 are carried over to this Order to prevent backsliding. All TBELs are independent of the dilution ratio for the discharge outfall. In addition to the concentration-based effluent limitations, mass-based effluent limitations based on a flow rate of 385 MGD, which was used in Orders R4-2011-0151 and R4-2017-0180, are also included in this Order to prevent backsliding.

The following table summarizes the TBELs for the discharger from the JWPCP:

Table F-8. Summary of TBELs for Discharge Point 001 and 002

Parameter	Units	AMEL	AWEL	MDEL	Instan. Min.	Instan. Max.	Note
BOD <sub>5</sub> 20°C	mg/L	30	45				
BOD₅20°C	lbs/day	96,300	144,500				а
BOD₅20°C	% removal	85					
TSS	mg/L	30	45				
TSS	lbs/day	96,300	144,500				а
TSS	% removal	85					
Oil and Grease	mg/L	15	22.5	45		75	
Oil and Grease	lbs/day	48,200	72,200	144,500		240,800	а
Settleable Solids	mL/L	0.5	0.75	1.5		3.0	
Turbidity	NTU	75	100			225	
рН	pH unit				6.0	9.0	

## **Footnotes for Table F-8**

a. The mass emission rates are calculated using the 1997 average influent design flow of 385 MGD, consistent with the water quality-based limits in the previous permit: lbs/day =  $0.00834 \times C_e$  (effluent concentration, ug/L) x Q (flow rate, MGD).

#### **End of Footnotes for Table F-8**

### 4.3. Water Quality-Based Effluent Limitations (WQBELs)

### 4.3.1. Scope and Authority

CWA Section 301(b) and 40 CFR 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. This Order contains more stringent requirements than technology-based requirements, including secondary-treatment requirements, which are necessary to meet applicable water quality standards. The rationale for these requirements is discussed beginning in section 4.3.2. of this Fact Sheet.

40 CFR section 122.44(d)(1)(i) 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) USEPA 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). WQBELs must also be consistent with the assumptions and requirements of TMDL WLAs approved by USEPA.

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 WQOs and criteria that are contained in other state plans and policies, or any applicable water quality criteria contained in the 2019 Ocean Plan.

## 4.3.2. Applicable Beneficial Uses and Water Quality Criteria and Objectives

The Basin Plan and Ocean Plan establish the beneficial uses and WQOs for ocean waters of the State. The beneficial uses of the receiving waters affected by the discharge have been described previously in this Fact Sheet. The Basin Plan contains Water Quality Objectives for bacteria for water bodies designated for water contact recreation and the Ocean Plan contains water quality objectives for bacterial, physical, chemical, and biological characteristics, and radioactivity. The WQOs from the Ocean Plan and Basin Plan were incorporated into this Order as either final effluent limitations (based on reasonable potential) or receiving water limitations.

# 4.3.3. Expression of WQBELs

Pursuant to 40 CFR § 122.45(d)(2) for POTW continuous discharges, all permit effluent limitations, standards, and prohibitions, including those necessary to achieve water quality standards, shall, unless impracticable, be stated as average weekly and average monthly discharge limitations. It is impracticable to include only average weekly and average monthly effluent limitations in the Order because a single daily discharge of certain pollutants, in excess amounts, can cause violations of WQOs. The effects of pollutants on aquatic organisms are often rapid. For many pollutants, an average weekly or average monthly effluent limitation alone is not sufficiently protective of beneficial uses. As a result, maximum daily effluent limitations, as referenced in 40 CFR § 122.45(d), are included in the Order for certain constituents.

The WQBELs for marine aquatic life toxics contained in this Order are based on Table 3 Water Quality Objectives contained in the 2019 Ocean Plan that are expressed as six-month median, daily maximum, and instantaneous maximum water quality objectives. However, in the existing Order (Order Number R4-2017-0180), many of the calculated effluent limitations based on 6-month median objectives for marine aquatic life toxics in the 2019 Ocean Plan were prescribed as monthly average limitations. Applying the anti-backsliding regulations, this Order retains the same approach and sets effluent limitations derived from six-month median water quality objectives for marine aquatic life toxics in the 2019 Ocean Plan as average monthly limitations for those pollutants that previously had average monthly limitations and continue to have reasonable potential to cause or contribute to exceedances of water quality objectives. In addition, the 2019 Ocean Plan specifies

that for the six-month median for intermittent discharges, the daily value shall be considered to equal zero for days on which no discharge occurred. To be consistent with the 2019 Ocean Plan, maximum daily and instantaneous maximum limitations are also prescribed in this Order.

## 4.3.4. Determining the Need for WQBELs

Order Number R4-2017-0180 contains effluent limitations for non-conventional and toxic pollutant parameters in Table 3 of the 2019 Ocean Plan. For this Order, the need for effluent limitations based on water quality objectives in Table 3 of the 2019 Ocean Plan was reevaluated in accordance with the Reasonable Potential Analysis (RPA) procedures contained in Appendix VI of the 2019 Ocean Plan. This statistical RPA method (using RPcalc version 2.2) accounts for the averaging period of the water quality objective, accounts for and captures the long-term variability of the pollutant in the effluent, accounts for limitations associated with sparse data sets. accounts for uncertainty associated with censored data sets, and assumes a lognormal distribution of the facility-specific effluent data. RPcalc calculates the upper confidence bound (UCB) of an effluent population percentile after complete mixing. The UCB is calculated as the one-sided, upper 95 percent confidence bound for the 95th percentile of the effluent distribution after complete mixing. The calculated UCB95/95 is then compared to the appropriate objective to determine the potential for an exceedance of that objective and the need for an effluent limitation. For constituents that have an insufficient number of monitoring data or a substantial number of non-detected data with a reporting limit higher than the respective water quality objective, the RPA result is likely to be inconclusive. The 2019 Ocean Plan requires that the existing effluent limitations for these constituents be retained in the new Order, otherwise the permit shall include a reopener clause to allow for subsequent modification of the permit 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 WQO.

For Discharge Points 001 and 002, all data was not detected and below the water quality objective; therefore inconclusive results were reported for endosulfan, endrin, HCH, acrolein, bis(2-chloroethoxy)methane, bis(2-chloroisopropyl)ether, chlorobenzene, di-n-butyl-phthalate, dichlorobenzenes, diethyl phthalate, dimethyl phthalate, 2-methyl-4,6-dinitrophenol, 2,4-dinitrophenol, ethylbenzene, fluoranthene, hexachlorocyclopentadiene, nitrobenzene, toluene, tributyltin, 1,1,1-trichloroethane, acrylonitrile, benzene, bis(2-chloroethyl)ether, bis(2-ethylexyl)phthalate, carbon tetrachloride, 1,4-dichlorobenzene, 1,2-dichloroethane, 1,1-dichloroethylene, 1,3dichloropropene, 2,4-dinitrotoluene, 1,2-diphenylhydrazine, halomethanes, heptachlor, heptachlor epoxide, hexachlorobutadiene, hexachloroethane, isophorone, n-nitrosodiphenylamine, PAHs1,1,2,2-tetrachloroethane, tetrachloroethylene, trichloroethylene, 1,1,2-trichloroethane, 2,4,6-trichlorophenol, and vinyl chloride. Since the previous permit did not include effluent limits for these pollutants and this Order includes a reopener clause, no effluent limits were included in this Order for these pollutants. The final effluent limitations for benzidine, chlordanes, 3,3'dichlorobenzidine, hexachlorobenzene, TCDD equivalents, and toxaphene (Discharge Points 001 and 002) were carried over from the previous permit because all data was not detected, and the detection limits used for these

pollutants were greater than their Ocean Plan water quality objectives. This is consistent with the Ocean Plan, Appendix VI. The pollutants have not been detected in the final effluent, and the Discharger has made, and continues to make, an effort to achieve lower detection limits than are required in the 2019 Ocean Plan or 40 CFR part 136. The Los Angeles Water Board developed WQBELs for DDT and PCBs as aroclors that have available wasteload allocations under the *Santa Monica Bay Total Maximum Daily Loads for DDTs and PCBs* established for the JWPCP. The Los Angeles Water Board developed WQBELs for these pollutants pursuant to 40 CFR section 122.44(d)(1)(vii), which does not require or contemplate a separate reasonable potential analysis at the permitting stage.

Los Angeles Water Board staff used RPCalc to calculate reasonable potential using the procedure described above. The analysis included effluent data provided by the Discharger from November 2017 to June 2022 for the four outfalls, and minimum initial dilution ratios of 166:1 for Outfalls 001 and 002, 150:1 for Outfall 003, and 115:1 for Outfall 004. Los Angeles Water Board staff determined that the following constituents have reasonable potential to exceed 2019 Ocean Plan Water Quality Objectives and therefore require effluent limitations for the following pollutants at each discharge point: chlorine residual, aldrin, total DDT, dieldrin, and PCBs as aroclors.

In general, for those constituents that have no reasonable potential to cause, or contribute to excursions of water quality objectives, no numeric limits are prescribed; instead, a narrative statement to comply with all 2019 Ocean Plan requirements is provided and the Discharger is required to monitor for these constituents to gather data for use in RPAs for future Order renewals and/or updates. Refer to Attachment H of this Order for more details about the RPA results.

#### 4.3.5. WQBEL Calculations

From the Table 3 water quality objectives in the 2019 Ocean Plan, effluent limitations are calculated according to the following equation for all pollutants, except for acute toxicity (if applicable) and radioactivity:

Ce = Co + Dm (Co - Cs)

Where

Ce is the effluent limitation (µg/L);

Co is the WQO to be met at the completion of initial dilution ( $\mu g/L$ );

Cs is the background seawater concentration (µg/L) (see Table F-12 below); and

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

The Dm is based on observed waste flow characteristics, receiving water density structure, and the assumption that there are no currents of sufficient strength to influence the initial dilution process flow across the discharge structure. In this Order, dilution ratios of 166:1, 150:1, and 115:1 have been applied to Outfalls 001 and 002, Outfall 003, and Outfall 004, respectively.

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 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. As site-specific water quality data is not available for pollutants without TMDLs, in accordance with 2019 Ocean Plan Table 3 implementing procedures, Cs equals zero for all pollutants, except the following:

 Waste Constituent
 Background Seawater Concentrations (Cs)

 Arsenic
 3

 Copper
 2

 Mercury
 0.0005

 Silver
 0.16

 Zinc
 8

 For all other Table 3 parameters
 0

Table F-9. Background Seawater Concentrations (Cs)

The Santa Monica Bay Total Maximum Daily Loads for DDTs and PCBs (USEPA, 2012) includes estimated background concentrations for DDTs and PCBs of 0.057 ng/L and 0.016 ng/L, respectively. These concentrations were used in the development of Waste Load Allocations for these pollutants.

The effluent data collected between November 2017 and June 2022 used for RPcalc indicated that chlorine residual, aldrin, and dieldrin contributed to an exceedance of the ocean water quality objectives specified in the 2019 California Ocean Plan. Effluent limitations must be developed for chlorine residual, aldrin, and dieldrin. Therefore, the calculation of WQBELs for chlorine residual, aldrin, and dieldrin are provided below for Discharge Points 001 and 002.

Constituent	Unit	6-Month Median	30-Day Average	Daily Maximum	Instan. Maximum
Chlorine Residual	μg/L	2		8	60
Aldrin	μg/L		0.000022		
Dieldrin	μg/L	-	0.00004		

Table F-10. 2019 Ocean Plan WQOs (C₀)

Using the equation, **Ce=Co + Dm (Co-Cs)**, effluent limitations are calculated as follows for discharge through Discharge Points 001 and 002, with a dilution ratio (Dm) of 166:1. A similar procedure is followed for calculating additional limits, when necessary, for Discharge Points 003 and 004.

#### **Chlorine Residual**

Ce = 2 + 166 (2-0) = 334  $\mu$ g/L≈ 330  $\mu$ g/L (6 Month Median as Monthly Average)

Ce = 8 + 166 (8-0) = 1,340  $\mu$ g/L  $\approx$  1,300  $\mu$ g/L (Daily Maximum) Ce = 20 + 166 (60-0) = 10,020  $\approx$  10,000  $\mu$ g/L (Instantaneous Maximum)

### <u>Aldrin</u>

Ce =  $0.000022 + 166 \times (0.000022 - 0) = 0.003674 \,\mu\text{g/L} \approx 0.0037 \,\mu\text{g/L}$  (Monthly Average)

### Dieldrin

Ce =  $0.00004 + 166 \times (0.00004 - 0) = 0.00668 \,\mu\text{g/L} \approx 0.0067 \,\mu\text{g/L}$  (Monthly Average)

Based on the implementing procedures described above, effluent limitations have been calculated for all Table 3 pollutants (excluding radioactivity and chronic toxicity) from the 2019 Ocean Plan that have reasonable potential to cause, or contribute to an excursion above the WQOs, and the calculated effluent limitations are incorporated into this Order when applicable.

### 4.3.6. Whole Effluent Toxicity (WET)

Whole effluent toxicity (WET) testing protects receiving waters from the aggregate toxic effect of a mixture of pollutants in the effluent or pollutants that are not typically monitored. An acute toxicity test is conducted over a short time period and measures mortality. A chronic toxicity test is conducted over a longer time period and may measure mortality, reproduction, and growth. Chronic toxicity is a more stringent requirement than acute toxicity. A constituent present at low concentrations may exhibit a chronic effect; however, a higher concentration of the same constituent may be required to produce an acute effect.

A total of 56 chronic WET tests were conducted on JWPCP effluent between November 2017 and June 2022. No exceedances of the MDEL were reported for chronic toxicity. However, because of the nature of industrial discharges into the POTW sewershed, it is possible that toxic constituents could be present in the JWPCP influent or could have synergistic or additive effects. As previously stated in this Order, the JWPCP receives wastewater from 1,240 total industrial users with active permits, including 193 CIUs, 356 noncategorical SIUs, and 691 non-SIUs. Los Angeles Water Board staff determined that, pursuant to Step 13 of the RPA procedures in the 2019 Ocean Plan (i.e., best professional judgement), reasonable potential exists for chronic toxicity. Thus, this Order carries over the chronic toxicity MDEL for Discharge Point 001 and Discharge Point 002 from the existing permit.

The 2019 Ocean Plan addresses the application of chronic and acute toxicity requirements based on minimum probable dilutions (Dm) for ocean discharges. Following the 2019 Ocean Plan, dischargers are required to conduct chronic toxicity monitoring for ocean discharges with Dm factors ranging from 99 to 349 and the Los Angeles Water Board may require acute toxicity monitoring in addition to chronic toxicity monitoring. Dischargers with Dm factors below 99 are required to conduct only chronic toxicity testing. The Dm for Discharge Points 001 and 002 is 166, for Discharge Point 003 is 150 and for Discharge Point 004 is 115. The Dm is more than 99 for all outfalls, and because the discharge does exhibit reasonable potential to exceed the water quality objectives for chronic toxicity, a chronic toxicity final effluent

limitation has been assigned to Discharge Points 001 and 002. No acute toxicity final effluent limitations have been assigned to Discharge Point 001 or Discharge Point 002 consistent with 40 CFR § 122.44(d)(1)(v), and because the chronic toxicity final effluent limitation is protective of both chronic and acute toxicity.

The 2019 Ocean Plan establishes a daily maximum chronic toxicity objective of 1.0  $TU_c$  ( $TU_c$ =100/(No Observed Effect Concentration (NOEC))), using a 5-concentration hypothesis test, and a daily maximum acute toxicity objective of 0.3  $TU_a$  ( $TU_a$  = 100/LC50), using a point estimate model. This Order includes final effluent limitations using the Test of Significant Toxicity (TST) hypothesis testing approach. This statistical approach is consistent with the 2019 Ocean Plan in that it provides maximum protection to the environment since it more reliably identifies acute and chronic toxicity than the current NOEC hypothesis-testing approach (See 2019 California Ocean Plan, Section III.F and Appendix I).

Compliance with the chronic toxicity requirements contained in this Order shall be determined in accordance with section 8.10 of this Order. Nevertheless, this Order contains a reopener to allow the Los Angeles Water Board to modify the permit in the future, if necessary, to make it consistent with any new policy, plan, law, or regulation.

For this Order, chronic toxicity in the discharge is evaluated using a maximum daily effluent limitation that utilizes USEPA's 2010 TST hypothesis testing approach. The chronic toxicity effluent limitations are expressed as "Pass" for each maximum daily individual result.

In January 2010, USEPA published a guidance document titled *EPA Regions 8, 9 and 10 Toxicity Training Tool*, which among other things discusses permit limit expression for chronic toxicity. The document acknowledges that NPDES regulations at 40 CFR § 122.45(d) require that all permit limits be expressed, unless impracticable, as an Average Weekly Effluent Limitation (AWEL) and an Average Monthly Effluent Limitation (AMEL) for POTWs. Following Section 5.2.3 of the Technical Support Document (TSD), the use of an AWEL is not appropriate for WET. In lieu of an AWEL for POTWs, USEPA recommends establishing a Maximum Daily Effluent Limitation (MDEL) for toxic pollutants and pollutants in water quality permitting, including WET. For an ocean discharge, this is appropriate because the 2019 Ocean Plan only requires a MDEL and does not include AMELs or AWELs for chronic toxicity (See 2019 California Ocean Plan, section II.D.7.).

The MDEL is the highest allowable value for the discharge measured during a calendar day or 24-hour period representing a calendar day. The AMEL is the highest allowable value for the average of daily discharges obtained over a calendar month. For WET, this is the average of individual WET test results for that calendar month. In June 2010, USEPA published another guidance document titled *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document* (EPA 833-R-10-003, June 2010), in which they recommend the following: "Permitting authorities should consider adding the TST approach to their implementation procedures for analyzing valid WET data for their current NPDES WET Program." The TST approach is another statistical option for analyzing valid WET test data. Use of the TST approach does not result in any changes to USEPA's

WET test methods. Section 9.4.1.2 of *USEPA's Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms* (EPA/600/R-95/0136,1995), recognizes that, "the statistical methods recommended in this manual are not the only possible methods of statistical analysis." The TST approach can be applied to acute (survival) and chronic (sublethal) endpoints and is appropriate to use for both freshwater and marine USEPA WET test methods.

The interpretation of the measurement result from USEPA's TST statistical approach (Pass/Fail) for effluent and receiving water samples is, by design, independent from the concentration-response patterns of the toxicity tests for samples when it is required. Therefore, when using the TST statistical approach, application of USEPA's 2000 guidance on effluent and receiving waters concentration-response patterns will not improve the appropriate interpretation of TST results as long as all Test Acceptability Criteria and other test review procedures – including those related to Quality Assurance for effluent and receiving water toxicity tests, reference toxicant tests, and control performance (mean, standard deviation, and coefficient of variation) - described by the WET test methods manual and TST guidance, are followed. The 2000 guidance may be used to identify reliable, anomalous, or inconclusive concentration-response patterns and associated statistical results to the extent that the guidance recommends review of test procedures and laboratory performance already recommended in the WET test methods manual. The guidance does not apply to single concentration (IWC) and control statistical t-tests and does not apply to the statistical assumptions on which the TST is based. The Los Angeles Water Board and USEPA will not consider a concentration-response pattern as sufficient basis to determine that a TST t-test result for a toxicity test is anything other than valid, absent other evidence. In a toxicity laboratory, unexpected concentration-response patterns should not occur with any regular frequency and consistent reports of anomalous or inconclusive concentration-response patterns or test results that are not valid will require an investigation of laboratory practices.

Any Data Quality Objectives or Standard Operating Procedure used by the toxicity testing laboratory to identify and report valid, invalid, anomalous, or inconclusive effluent or receiving water toxicity test measurement results from the TST statistical approach which include a consideration of concentration-response patterns and/or Percent Minimum Significant Differences (PMSDs) must be submitted for review by the Los Angeles Water Board, in consultation with USEPA and the State Water Board's Quality Assurance Officer and Environmental Laboratory Accreditations Program (40 CFR § 122.44(h)). The PMSD criteria only apply to compliance for NOEC and the sublethal endpoints of the NOEC, and therefore are not used to interpret TST results.

#### 4.4. Final Effluent Limitation Considerations

### 4.4.1. Anti-Backsliding Requirements

In conformance with reasonable potential analysis procedures identified in State Water Board and USEPA documents, effluent limitations for some constituents are not carried forward in this Order because there is no reasonable potential for the constituents to cause or contribute to an exceedance of water quality standards.

Without reasonable potential, there is no longer a need to maintain prior WQBELs under NPDES regulations, anti-backsliding provisions, and antidegradation policies. The accompanying monitoring and reporting program requires continued data collection and if monitoring data show reasonable potential for a constituent to cause or contribute to an exceedance of water quality standards, the Order may be reopened to incorporate WQBELs. Such an approach ensures that the discharge will adequately protect water quality standards for designated beneficial uses and conform with antidegradation policies and anti-backsliding provisions.

The final effluent limitations in this Order are at least as stringent as the effluent limitations in the previous Order, Order Number R4-2017-0180.

### 4.4.2. Antidegradation Policies

CWA section 403(c) and implementing regulations at 40 CFR part 125, subpart M, establish ocean discharge criteria for preventing unreasonable degradation of the marine environment of the territorial seas, contiguous zones, and oceans. The regulations at 40 CFR section 125.122(b) allow a permitting authority to presume that a discharge will not cause unreasonable degradation for specific pollutants or conditions if the discharge complies with state water quality standards. This Order implements State water quality standards for discharges from Discharge Points 001, 002, 003, and 004. This Order's requirements are consistent with the Ocean Plan, except for the units for chronic toxicity. In all other respects, the Los Angeles Water Board presumes that the discharge will not cause unreasonable degradation.

This Order includes both narrative and numeric final effluent limitations, receiving water limitations, performance goals, and mass emission benchmarks to maintain the chemical, physical, and biological characteristics, and to protect the beneficial uses of the receiving water. These requirements ensure that all water quality objectives are being met outside the zone of initial dilution, thereby maintaining the beneficial uses. The Ocean Plan allows for minimal degradation within the zone of initial dilution if the water quality objectives are maintained just outside the zone of initial dilution. The State Water Board has already determined that the minimal degradation permitted by the Ocean Plan is consistent with the antidegradation policy because it maintains maximum benefit to the people of the State, it will not unreasonably affect the present and anticipated beneficial uses, and it will not result in water quality less than that prescribed in the policies.

This Order includes a reopener provision that permits the Los Angeles Water Board to reopen the Order if the effluent exhibits reasonable potential to exceed the objectives during the Order cycle. The Los Angeles Water Board may modify the terms of this Order to prevent degradation of high-quality waters based on any change in the concentration of these constituents in the effluent or receiving water that indicates that a degradation of receiving water quality may occur. The treatment required by this Order is the best practicable treatment or control of the discharge necessary to assure that a pollution or nuisance will not occur and the highest water quality consistent with maximum benefit to the people of the State will be maintained.

The mass-based final effluent limitations and mass emission benchmarks continue to be based on the 1997 average design flow rate of 385 MGD, even though the design flow rate has been 400 MGD since full secondary treatment was implemented. The increased treatment capacity was accompanied by a significant improvement in the final effluent quality; therefore, the treatment plant was able to continue meeting the mass-based final effluent limitations. Since the mass-based final effluent limitations continue to be based on a lower flow rate than is permitted to be discharged, the quantity of pollutants discharged, and the quality of the discharge are expected to remain relatively constant or improve during the permit term. No additional degradation is expected based on the stringent limits in this Order.

The mass emission benchmarks are an additional incentive for the Discharger to maintain the current treatment quality since they set final effluent targets for the Discharger to meet based on current performance. Most mass emission benchmarks in this Order are more or as stringent due to improved performance; however, the mass emission benchmarks for some constituents have increased. Since the mass emission benchmarks are based on performance and do not exceed the water quality objectives for the receiving water, the increase of any mass emission benchmarks is not expected to result in additional degradation.

# 4.4.3. 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 BOD₅20°C, TSS, and pH. Restrictions on BOD₅20°C, TSS, and pH are discussed in section 4.2.2 of this Fact Sheet. This Order's technology-based pollutant restrictions implement the minimum, applicable federal technology-based requirements.

Water quality-based effluent limitations have been scientifically derived to implement water quality objectives that protect beneficial uses. Both the beneficial uses and the water quality objectives have been approved pursuant to federal law and are the applicable federal water quality standards. The scientific procedures for calculating individual water quality-based effluent limitations for priority pollutants are based on the 2019 Ocean Plan, which became effective on February 4, 2019. All beneficial uses and water quality objectives contained in the Basin Plan and Ocean Plan were approved under State law and approved by USEPA. Collectively, this Order's restrictions on individual pollutants are no more stringent than required to implement the requirements of the CWA and applicable water quality standards.

Table F-11. Summary of Final Effluent Limitations for Discharge Points 001 and 002

Parameter	Units	AMEL	AWEL	MDEL	Instan. Min.	Instan. Max.	Annual Avg.	Performance Goal	Basis	Notes
BOD₅20°C	mg/L	30	45						Existing, Secondary treatment standard	а
BOD₅20°C	lbs/day	96,300	145,000						Existing, Secondary treatment standard	b
BOD₅20°C	% removal	≥85	1	1	I				Existing, Secondary treatment standard	
TSS	mg/L	30	45	1	1				Existing, Secondary treatment standard	а
TSS	lbs/day	96,300	144,500	I	I				Existing, Secondary treatment standard	b
TSS	% removal	≥85	I	1	I				Existing, Secondary treatment standard	
рН	pH Unit		1	-	6.0	9.0			Existing, Secondary treatment standard	С
Oil and Grease	mg/L	15	22.5	45		75			Existing, Ocean Plan	a, c
Oil and Grease	lbs/day	48,200	72,200	144,500		240,800			Existing, Ocean Plan	b
Settleable Solids	ml/L	0.5	0.75	1.5		3.0			Existing, Ocean Plan	a, c
Turbidity	NTU	75	100	-		225			Existing, Ocean Plan	a, c
Arsenic	μg/L				-			2.6	No RP	d, e
Cadmium	μg/L				-			1	No RP	d, e
Chromium (VI)	μg/L				-			0.12	No RP	d, e
Copper	μg/L		1	-	ł			3	No RP	d, e
Lead	μg/L		1	-	ł			2.5	No RP	d, e
Mercury	μg/L							1	No RP	d, e
Nickel	μg/L							5	No RP	d, e
Selenium	μg/L							6.1	No RP	d, e
Silver	μg/L							0.21	No RP	d, e
Zinc	μg/L		ŀ	ŀ	ŀ			18	No RP	d, e

Parameter	Units	AMEL	AWEL	MDEL	Instan. Min.	Instan. Max.	Annual Avg.	Performance Goal	Basis	Notes
Cyanide	μg/L							7.4	No RP	d
Chlorine Residual	μg/L	330		1,300		10,000		-	RP, Ocean Plan	a, c, f
Chlorine Residual	lbs/day	1,100		4,300		32,200			RP, Ocean Plan	b
Ammonia as N	mg/L							49	No RP	d
Phenolic compounds (non-chlorinated)	μg/L							2.2	No RP	d, g
Phenolic compounds (chlorinated)	μg/L							1	No RP	d, g
Endosulfans	μg/L							0.05	No RP	d, g
Endrin	μg/L							0.05	No RP	d
Hexachlorocyclo- hexane (HCH)	μg/L							0.02	No RP	d, g
Chronic toxicity (TST)  Macrocystis pyrifera	Pass or Fail			Pass					RP, Existing, Ocean Plan	f, h
Gross alpha	pCi/L							10.9	No RP	i
Gross beta	pCi/L							30.5	No RP	i
Acrolein	μg/L							10	No RP	d
Antimony	μg/L							2.7	No RP	d, e
Bis (2-chloroethoxy) methane	μg/L							25	No RP	d
Bis (2-chloro-isopropyl) ether	μg/L							10	No RP	d
Chlorobenzene	μg/L							2.5	No RP	d
Chromium (III)	μg/L							2.4	No RP	d, e
Di-n-butyl-phthalate	μg/L							50	No RP	d
Dichlorobenzenes	μg/L							10	No RP	d
Diethyl phthalate	μg/L							10	No RP	d
Dimethyl phthalate	μg/L							10	No RP	d
2-Methyl-4,6- dinitrophenol	μg/L							25	No RP	d

Parameter	Units	AMEL	AWEL	MDEL	Instan. Min.	Instan. Max.	Annual Avg.	Performance Goal	Basis	Notes
2,4-Dinitrophenol	μg/L							25	No RP	d
Ethylbenzene	μg/L							2.5	No RP	d
Fluoranthene	μg/L							5	No RP	d
Hexachlorocyclo- pentadiene	μg/L							25	No RP	d
Nitrobenzene	μg/L		1					5	No RP	d
Thallium	μg/L							5	No RP	d, e
Toluene	μg/L							0.74	No RP	d
Tributyltin	μg/L							0.01	No RP	d
1,1,1-Trichloroethane	μg/L							2.5	No RP	d
Acrylonitrile	μg/L							10	No RP	d
Aldrin	μg/L	0.0037							RP, Ocean Plan	a, f
Aldrin	lbs/day	0.012							RP, Ocean Plan	b
Benzene	μg/L							2.5	No RP	d
Benzidine	μg/L	0.012							Existing, Ocean Plan	a, f
Benzidine	lbs/day	0.039							Existing, Ocean Plan	b
Beryllium	μg/L							2.5	No RP	d
Bis (2-chloroethyl) ether	μg/L							5	No RP	d
Bis (2-ethylhexyl) phthalate	μg/L							25	No RP	d
Carbon tetrachloride	μg/L							2.5	No RP	d
Chlordane	μg/L	0.0038							Existing, Ocean Plan	a, f, g
Chlordane	lbs/day	0.012							Existing, Ocean Plan	b
Chlorodibromomethane	μg/L		-					0.56	No RP	d
Chloroform	μg/L		-					20	No RP	d
DDT	μg/L	0.0158						0.00017	TMDL	a, g
DDT	g/yr						8,717		TMDL	j
1,4-Dichlorobenzene	μg/L							2.5	No RP	d

Parameter	Units	AMEL	AWEL	MDEL	Instan. Min.	Instan. Max.	Annual Avg.	Performance Goal	Basis	Notes
3,3'dichlorobenzidine	μg/L	1.4							Existing, Ocean Plan	a, f
3,3'dichlorobenzidine	lbs/day	4.5							Existing, Ocean Plan	b
1,2-Dichloroethane	μg/L							2.5	No RP	d
1,1-Dichloroethylene	μg/L							2.5	No RP	d
Bromodichloroethane	μg/L							1.1	No RP	d
Dichloromethane	μg/L							2.8	No RP	d
1,3-Dichloropropene	μg/L							25	No RP	d
Dieldrin	μg/L	0.0067							RP, Ocean Plan	a, f
Dieldrin	lbs/day	0.021							RP, Ocean Plan	b
2,4-Dinitrotoluene	μg/L							25	No RP	d
1,2-Diphenylhydrazine	μg/L							5	No RP	d
Halomethanes	μg/L							10	No RP	d, g
Heptachlor	μg/L							0.05	No RP	d
Heptachlor epoxide	μg/L							0.05	No RP	d
Hexachlorobenzene	μg/L	0.035							Existing, Ocean Plan	a, f
Hexachlorobenzene	lbs/day	0.11							Existing, Ocean Plan	b
Hexachlorobutadiene	μg/L							5	No RP	d
Hexachloroethane	μg/L							5	No RP	d
Isophorone	μg/L		-					5	No RP	d
N- Nitrosodimethylamine	μg/L		1					25	No RP	d
N-Nitrosodi-N- propylamine	μg/L		-					0.33	No RP	d
N- Nitrosodiphenylamine	μg/L							5	No RP	d
PAHs	μg/L							0.95	No RP	d, g
PCBs	μg/L	0.000351							TMDL	a, g
PCBs	g/yr						194		TMDL	j

Parameter	Units	AMEL	AWEL	MDEL	Instan. Min.	Instan. Max.	Annual Avg.	Performance Goal	Basis	Notes
TCDD equivalents	pg/L	0.65							Existing, Ocean Plan	a, f, g
TCDD equivalents	lbs/day	2.1x10 <sup>-6</sup>							Existing, Ocean Plan	b
1,1,2,2- Tetrachloroethane	μg/L							2.5	No RP	d
Tetrachloroethylene	μg/L							0.55	No RP	d
Toxaphene	μg/L	0.035							Existing, Ocean Plan	a, f
Toxaphene	lbs/day	0.11							Existing, Ocean Plan	b
Trichloroethylene	μg/L							2.5	No RP	d
1,1,2-Trichloroethane	μg/L							2.5	No RP	d
2,4,6-Trichlorophenol	μg/L							0.29	No RP	d
Vinyl chloride	μg/L							2.5	No RP	d

### **Footnotes for Tables F-11**

- a. The maximum daily, average weekly and average monthly effluent limitations shall apply to flow weighted 24-hour composite samples. They may apply to grab samples if the collection of composite samples for those constituents is not appropriate because of the instability of the constituents.
- b. The mass emission rates are calculated using 385 MGD, consistent with the water-quality based limits in the previous permit:  $lbs/day = 0.00834 \times Ce$  (effluent concentration in  $\mu g/L$ ) x Q (flow rate in MGD).
- c. The instantaneous effluent limitations shall apply to grab samples.
- d. The performance goals are based upon the actual performance data from JWPCP and are specified only as an indication of treatment efficiency of the plant. They are not considered effluent limitations or standards for the treatment plant. The Permittee shall make best efforts to maintain, if not improve, the effluent quality at the level of these performance goals.
- e. Values expressed as total recoverable concentrations.
- f. The minimum dilution ratios used to calculate effluent limitations for nonconventional and toxic pollutants for Discharge Points 001 and 002 are 166:1 (i.e., 166 parts seawater to one-part effluent) for all pollutants.
- g. See Attachment A for definitions of terms.

- h. The Chronic Toxicity final effluent limitation is protective of both the numeric acute and chronic toxicity 2019 Ocean Plan water quality objectives. The final effluent limitation will be implemented using *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms* (EPA/600/R-95/136, 1995), current USEPA guidance in the *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document* (EPA 833-R-10-003, June 2010) (http://www3.epa.gov/npdes/pubs/wet\_final\_tst\_implementation2010.pdf) and *EPA Regions 8, 9, and 10, Toxicity Training Tool* (January 2010).
- i. Not to exceed limits specified in Title 17, division 1, chapter 5, subchapter 4, group 3, article 3, section 30253 of the California Code of Regulations (CCR). Reference to section 30253 is prospective, including future changes to any incorporated provisions of federal law, as the changes take effect.
- j. Consistent with the Santa Monica Bay TMDL for DDTs and PCBs, the calculation of the annual mass emissions shall be calculated using the arithmetic average of available monthly mass emissions as follows:

$$Annual\ \textit{Mass Emission, g/year} = \left(\frac{\sum \textit{Monthly Mass Emission, g/month}}{\textit{Number of Monthly Mass Emissions Calculated}}\right) * 12\ \textit{months/year}$$

$$Monthly \; Mass \; Emission, \\ kg/month = \left(\frac{3{,}785}{N}\right) * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.115425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \;$$

C<sub>i</sub> = DDT or PCB concentration of each individual sample (ng/L)

Q<sub>i</sub> = discharger flow rate on date of sample (mgd)

N = number of samples collected during the month.

## **End of Footnotes for Tables F-11**

Table F-12. Summary of Final Effluent Limitations for Discharge Point 003

Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instan- taneous Minimum	Instan- taneous Maximum	Annual Average	Basis	Notes
Chlorine Residual	μg/L	300		1,200		9,100		RP, Ocean Plan	a, b, c, d
Chlorine Residual	lbs/day	960		3,900		29,200		RP, Ocean Plan	е
Aldrin	μg/L	0.0033	-					RP, Ocean Plan	a, b, d
Aldrin	lbs/day	0.011	-					RP, Ocean Plan	е
Benzidine	μ <b>g</b> /L	0.01						Existing, Ocean Plan	a, b, d
Benzidine	lbs/day	0.033						Existing, Ocean Plan	е
Chlordane	μg/L	0.003						Existing, Ocean Plan	a, b, d, f
Chlordane	lbs/day	0.011						Existing, Ocean Plan	е
DDT	μg/L	0.0158						TMDL	a, b, f
DDT	g/yr						8,717	TMDL	f, g
3,3'-Dichlorobenzidine	μg/L	1.2						Existing, Ocean Plan	a, b, d
3,3'-Dichlorobenzidine	lbs/day	3.9						Existing, Ocean Plan	е
Dieldrin	μg/L	0.0060	-					RP, Ocean Plan	a, b, d
Dieldrin	lbs/day	0.019	-					RP, Ocean Plan	е
Hexachlorobenzene	μg/L	0.032						Existing, Ocean Plan	a, b, d
Hexachlorobenzene	lbs/day	0.10						Existing, Ocean Plan	е
PCBs as aroclors	μg/L	0.00351						TMDL	a, b, f
PCBs as aroclors	g/yr						194	TMDL	f, g
TCDD equivalents	pg/L	0.59						Existing, Ocean Plan	a, b, d, f
TCDD equivalents	lbs/day	1.9x10 <sup>-6</sup>						Existing, Ocean Plan	е
Toxaphene	μ <b>g</b> /L	0.032						Existing, Ocean Plan	a, b, d
Toxaphene	lbs/day	0.10						Existing, Ocean Plan	е

# **Footnotes for Tables F-12**

a. For intermittent discharges, the daily value used to calculate these average monthly and average weekly values shall be considered to equal zero for days on which no discharge occurred.

- b. The maximum daily, average weekly and average monthly effluent limitations shall apply to flow weighted 24-hour composite samples. They may apply to grab samples if the collection of composite samples for those constituents is not appropriate because of the instability of the constituents.
- c. The instantaneous effluent limitations shall apply to grab samples.
- d. The minimum dilution ratios used to calculate effluent limitations for nonconventional and toxic pollutants for Discharge Point 003 is 150:1 for all (i.e., 150-parts seawater to one-part effluent).
- e. The mass emission rates are calculated using 385 MGD, consistent with the water-quality based limits in the permit: lbs/day = 0.00834 x Ce (effluent concentration in  $\mu$ g/L) x Q (flow rate in MGD).
- f. See Attachment A for definitions of terms.
- g. Consistent with the Santa Monica Bay TMDL for DDTs and PCBs, the calculation of the annual mass emissions shall be calculated using the arithmetic average of available monthly mass emissions as follows:

$$Annual\ \textit{Mass Emission, g/year} = \left(\frac{\sum \textit{Monthly Mass Emission, g/month}}{\textit{Number of Monthly Mass Emissions Calculated}}\right) * 12\ \textit{months/year}$$

$$Monthly \; Mass \; Emission, \\ kg/month = \left(\frac{3{,}785}{N}\right) * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} C_{i}\right) * \; 30.$$

C<sub>i</sub> = DDT or PCB concentration of each individual sample (ng/L)

Q<sub>i</sub> = discharger flow rate on date of sample (mgd)

N = number of samples collected during the month.

## **End of Footnotes for Tables F-12**

Table F-13. Summary of Final Effluent Limitations for Discharge Point 004

Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instan- taneous Minimum	Instan- taneous Maximum	Annual Average	Basis	Notes
Chlorine Residual	μg/L	230		930		7,000		RP, Ocean Plan	a, b, c, d
Chlorine Residual	lbs/day	740		3,000		22,500		RP, Ocean Plan	е
Aldrin	μg/L	0.0026	-				-	RP, Ocean Plan	a, b, d
Aldrin	lbs/day	0.0083	-				-	RP, Ocean Plan	е
Benzidine	μg/L	0.008						Existing, Ocean Plan	a, b, d
Benzidine	lbs/day	0.026						Existing, Ocean Plan	е
Chlordane	μg/L	0.003						Existing, Ocean Plan	a, b, d, f
Chlordane	lbs/day	0.0086						Existing, Ocean Plan	е
DDT	μg/L	0.0158						TMDL	a, b, f
DDT	g/yr						8,717	TMDL	f, g
3,3'-Dichlorobenzidine	μg/L	0.93						Existing, Ocean Plan	a, b, d
3,3'-Dichlorobenzidine	lbs/day	3.0						Existing, Ocean Plan	е
Dieldrin	μg/L	0.0046	-				-	RP, Ocean Plan	a, b, d
Dieldrin	lbs/day	0.0015	-				-	RP, Ocean Plan	е
Hexachlorobenzene	μg/L	0.024						Existing, Ocean Plan	a, b, d
Hexachlorobenzene	lbs/day	0.078						Existing, Ocean Plan	е
PCBs as aroclors	μg/L	0.00351	-				-	TMDL	a, b, f
PCBs as aroclors	g/yr						194	TMDL	f, g
TCDD equivalents	pg/L	0.45					-	Existing, Ocean Plan	a, b, d, f
TCDD equivalents	lbs/day	1.5x10 <sup>-6</sup>					-	Existing, Ocean Plan	е
Toxaphene	μg/L	0.024						Existing, Ocean Plan	a, b, d
Toxaphene	lbs/day	0.078						Existing, Ocean Plan	е

# **Footnotes for Tables F-13**

a. For intermittent discharges, the daily value used to calculate these average monthly and average weekly values shall be considered to equal zero for days on which no discharge occurred.

- b. The maximum daily, average weekly and average monthly effluent limitations shall apply to flow weighted 24-hour composite samples. They may apply to grab samples if the collection of composite samples for those constituents is not appropriate because of the instability of the constituents.
- c. The instantaneous effluent limitations shall apply to grab samples.
- d. The minimum dilution ratios used to calculate effluent limitations for nonconventional and toxic pollutants for Discharge Point 004 is 115:1 for all (i.e., 115-parts seawater to one part effluent).
- e. The mass emission rates are calculated using 385 MGD, consistent with the water-quality based limits in the permit: lbs/day = 0.00834 x Ce (effluent concentration in  $\mu$ g/L) x Q (flow rate in MGD).
- f. See Attachment A for definitions of terms.
- g. Consistent with the Santa Monica Bay TMDL for DDTs and PCBs, the calculation of the annual mass emissions shall be calculated using the arithmetic average of available monthly mass emissions as follows:

$$Annual\ \textit{Mass Emission, g/year} = \left(\frac{\sum \textit{Monthly Mass Emission, g/month}}{\textit{Number of Monthly Mass Emissions Calculated}}\right) * 12\ \textit{months/year}$$

$$Monthly \; Mass \; Emission, \\ kg/month = \left(\frac{3{,}785}{N}\right) * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \; 30.5 = \\ \frac{0.115425}{N} * \left(\sum_{i=1}^{N} Q_{i} \, C_{i}\right) * \;$$

C<sub>i</sub> = DDT or PCB concentration of each individual sample (ng/L)

Q<sub>i</sub> = discharger flow rate on date of sample (mgd)

N = number of samples collected during the month.

## **End of Footnotes for Tables F-13**

### 4.5. Interim Effluent Limitations – Not Applicable

## 4.6. Land Discharge Specifications - Not Applicable

# 4.7. Recycling Specifications

Approximately 20 MGD of JWPCP effluent is recycled for internal uses for treatment processes and maintenance.

The Discharger has been developing Pure Water Southern California with the Metropolitan Water District (MWD) since 2010. This program includes construction of a new Advanced Water Treatment Facility (AWTF) with a membrane bioreactor, reverse osmosis, and ultraviolet/advanced oxidation processes at JWPCP and will produce 150 MGD or 168,000 acre-feet per year (AFY) of purified water recharged at the Central, West Coast, Main San Gabriel, and Orange County Groundwater Basins.

The Permittee shall continue to investigate the feasibility of recycling, conservation, and/or alternative disposal methods for wastewater (such as groundwater injection), and/or beneficial use of stormwater and dry-weather urban runoff. The Permittee shall submit an update to this feasibility study as part of the submittal of the Report of Waste Discharge (ROWD) for the next permit renewal.

### 5. PERFORMANCE GOALS

Section III.F.1, of the 2019 Ocean Plan allows the Los Angeles Water Board to establish more restrictive water quality objectives and effluent limitations than those set forth in the 2019 Ocean Plan as necessary for the protection of the beneficial uses of ocean waters.

Pursuant to this provision and to implement the recommendation of the Water Quality Advisory Task Force (Working Together for an Affordable Clean Water Environment, A final report presented to the California Water Quality Control Board, Los Angeles Region by Water Quality Advisory Task Force, September 30, 1993) that was adopted by the Los Angeles Water Board on November 1, 1993, performance goals that are more stringent than those based on Ocean Plan objectives are prescribed in this Order. This approach is consistent with the antidegradation policy in that it requires the Discharger to maintain its treatment level and effluent quality, recognizing normal variations in treatment efficiency and sampling and analytical techniques. However, this approach does not address substantial changes in treatment plant operations that could significantly affect the quality of the treated effluent.

While performance goals were previously placed in many POTW permits in the Region, they have been discontinued for inland surface water discharges. For inland surface waters, the California Toxics Rule (40 CFR § 131.38) has resulted in effluent limitations as stringent as many performance goals. However, the Ocean Plan allows for significant dilution, and the continued use of performance goals serves to maintain existing treatment levels and effluent quality and supports State and federal antidegradation policies.

The performance goals are based upon the actual performance of JWPCP and are specified only as an indication of the treatment efficiency of the Facility. Performance goals are intended to minimize pollutant loading (primarily for toxics), while maintaining the incentive for future voluntary improvement of water quality whenever feasible, without the imposition of more stringent limits based on improved performance. Performance goals for

Discharge Points 001 and 002 are prescribed in this Order. The performance goals are not enforceable effluent limitations or standards. The Discharger shall maintain, if not improve, its treatment efficiency. Any two exceedances of the performance goals shall trigger an investigation into the cause of the exceedance. If the exceedance persists in three successive monitoring periods, the Discharger shall submit a written report to the Los Angeles Water Board on the nature of the exceedance, the results of the investigation as to the cause of the exceedance, and the corrective actions taken or proposed corrective measures with timetable for implementation, if necessary.

# 5.1. Procedures for the Determination of Performance Goals (PGs)

For constituents that have been routinely detected in the effluent (at least 20 percent detectable data), performance goals are based on the one-sided, upper 95 percent confidence bound for the 95th percentile of the effluent performance data (UCB<sub>95/95</sub>) from November 2017 through June 2022 using the RPA protocol contained in the 2019 Ocean Plan. Effluent data are assumed log normally distributed. Performance goals are calculated according to the equation  $C_{PG} = C_o + D_m (C_o-C_s)$  and setting  $C_o = UCB_{95/95}$ .

- 5.1.1 If the maximum detected effluent concentration (MEC) is greater than the calculated performance goal, then the calculated performance goal is used as the performance goal;
- 5.1.2. If the maximum detected effluent concentration is less than the calculated performance goal, then the MEC is used as the performance goal; or
- 5.1.3. If the performance goal determined in part 1 or 2 is greater than the WQO in the 2019 Ocean Plan after considering dilution, then the WQO is used as the performance goal.

Table F-14 summarizes the performance goal determinations for Discharge Points 001 and 002, based on criteria section 5.1.1 to 5.1.3. specified above.

For example, the performance goals for arsenic, copper, and chromium III for Discharge Points 001 and 002 are calculated as follows:

#### **Arsenic**

 $C_o$  = UCB<sub>95/95</sub> = 2.9989 μg/L; D<sub>m</sub> = 166;  $C_s$  = background seawater concentration = 3 μg/L; MEC = 2.62 μg/L; C<sub>PG</sub> = Performance Goal = (2.9989 μg/L) + 166 × (2.9989 μg/L - 3 μg/L) = 2.8163 μg/L. Since the MEC of 2.62 μg/L is less than the calculated C<sub>PG</sub> of 2.8163 μg/L and arsenic water quality objective of 8 μg/L, the prescribed performance goal for Arsenic is 2.6 μg/L.

#### Copper

 $C_o$  = UCB<sub>95/95</sub> = 2.0201 μg/L;  $D_m$  = 166;  $C_s$  = background seawater concentration = 2 μg/L; MEC = 4.96 μg/L;  $C_{PG}$  = Performance Goal = (2.0201 μg/L) + 166 × (2.0201 μg/L - 2 μg/L) = 5.3567 μg/L. Since the MEC of 4.96 μg/L and  $C_{PG}$  of 5.3567 μg/L are greater than the copper water quality objective of 3 μg/L, the prescribed performance goal for copper is 3 μg/L.

### **Chromium III**

 $C_o$  = UCB<sub>95/95</sub> = 0.0143 μg/L; D<sub>m</sub> = 166;  $C_s$  = background seawater concentration = 0 μg/L; MEC = 2.54 μg/L; C<sub>PG</sub> = Performance Goal = (0.0143 μg/L) + 166 × (0.0143 μg/L - 0 μg/L) = 2.3881 μg/L. Since the MEC of 2.54 μg/L and chromium III water quality objective of 190,000 μg/L are greater than C<sub>PG</sub> of 2.3881 μg/L, the prescribed performance goal for chromium III is 2.4 μg/L.

The three pollutants represent the lowest MEC, WQO, and C<sub>PG</sub> as Performance Goal for arsenic, copper, and chromium, respectively.

Table F-14. Summary of Performance Goals for Discharge Points 001 and 002 (Detected Data with 20% at Least)

Pollutant	Detected Rate	UCB <sub>95/95</sub>	Cs	WQO (µg/L)	MEC (µg/L)	Calculated PG (µg/L)	MEC > Calculated PG	MEC or Calculated PG > WQO	Final PG (µg/L)
Arsenic	100%	2.9989	3	8	2.62	2.8163	No	No	2.6
Chromium VI	30%	0.0008	0	2	0.12	0.1336	No	No	0.12
Copper	100%	2.0201	2	3	4.96	5.3567	No	Yes	3
Nickel	100%	0.0775	0	5	15.4	12.9425	Yes	Yes	5
Selenium	100%	0.0396	0	15	6.08	6.6132	No	No	6.1
Zinc	100%	8.0640	8	20	18.3	18.6880	No	No	18
Ammonia	100%	293.7517	0	600	50000	49056	Yes	Yes	49000
Nonchlorinated Phenols	80%	0.0226	0	30	2.17	3.7742	No	No	2.2
Chlorinated Phenols	60%	0.0167	0	1	1.7	2.7889	No	Yes	1
Antimony	100%	0.0191	0	1200	2.65	3.1897	No	No	2.7
Chromium III	95%	0.0143	0	190,000	2.54	2.4	Yes	No	2.4
Chloroform	100%	0.1584	0	130	20	26.4528	No	No	20
Dichlorobromomethane	33%	0.0088	0	6.2	1.1	1.4696	No	No	1.1
Dichloromethane	100%	0.0209	0	450	2.8	3.4903	No	No	2.8
N-Nitrosodimethylamine	56%	0.0024	0	7.3	0.33	0.4008	No	No	0.33

5.2. For constituents where monitoring data have consistently shown nondetectable levels (less than 20 percent detectable data), performance goals are set at five times the Minimum Levels (MLs) listed in the 2019 Ocean Plan for the specific method. If the maximum detected effluent concentration is less than the calculated value based on ML, then the MEC is used as the performance goal. If the Ocean Plan does not include an ML for the pollutant, the performance goal from the previous permit was carried over.

Table F-16 summarizes the performance goal determinations for Discharge Points 001 and 002, based on criteria section 5.2. specified above.

Table F-15. Summary of Performance Goals for Discharge Points 001 and 002 (Nondetected Data Greater Than 80%)

Pollutant	Non- Detected Rate	MEC (μg/L)	ML (µg/L)	5 X ML (μg/L)	Final PG (µg/L)	Notes
Cadmium	100%		0.2	1.0	1.0	
Lead	100%		0.5	2.5	2.5	
Mercury	100%		0.2	1	1	
Silver	95%	0.21	0.2	1	0.21	
Cyanide	89%	7.42	5	25	7.4	
Residual Chlorine	98%	700				а
Endosulfans, Sum	100%		0.01	0.05	0.05	
Endrin	100%		0.01	0.05	0.05	
HCH	80%	0.02	0.005	0.025	0.02	
Acrolein	100%		2	10	10	
Bis(2-Chloroethoxy) methane	100%		5	25	25	
Bis(2-Chloroisopropyl) ether	100%		2	10	10	
Chlorobenzene	100%		0.5	2.5	2.5	
Di-n-butyl Phthalate	100%		10	50	50	
Dichlorobenzene	100%		2	10	10	
Diethyl Phthalate	100%		2	10	10	
Dimethyl Phthalate	100%		2	10	10	
4,6-Dinitro-2-methylphenol	100%		5	25	25	
2,4-Dinitrophenol	100%		5	25	25	
Ethylbenzene	100%		0.5	2.5	2.5	
Fluoranthene	100%		1	5	5	
Hexachlorocyclopentadiene	100%		5	25	25	
Nitrobenzene	100%		1	5	5	
Thallium, Total Recoverable	100%		1	5	5	
Toluene	92%	0.74	2	10	0.74	
Tributyltin (TBT)	100%				0.01	b
1,1,1-Trichloroethane	100%		0.5	2.5	2.5	
Acrylonitrile	100%		2	10	10	
Aldrin	80%	0.008	0.005	0.025		а
Benzene	100%		0.5	2.5	2.5	

Pollutant	Non- Detected Rate	MEC (μg/L)	ML (µg/L)	5 X ML (µg/L)	Final PG (µg/L)	Notes
Benzidine	100%	1	5	25		а
Beryllium, Total Recoverable	100%	i	0.5	2.5	2.5	-
Bis(2-Chloroethyl) ether	100%		1	5	5	-
Bis(2-Ethylhexyl) phthalate	90%	75	5	25	25	-
Carbon Tetrachloride	100%	1	0.5	2.5	2.5	1
Chlordane	100%	-	0.1	0.5		а
Chlorodibromomethane	89%	0.56	2	10	0.56	
DDT	100%		0.01	0.05	0.00017	С
1,4-Dichlorobenze	100%		0.5	2.5	2.5	
3,3-Dichlorobenzidine	100%		5	25		а
1,2-Dichloroethane	100%		0.5	2.5	2.5	
1,1-Dichloroethylene	100%		0.5	2.5	2.5	
1,3-Dichloropropene	100%		5	25	25	
Dieldrin	90%	0.01	0.01	0.05	0.01	
2,4-Dinitrotoluene	100%		5	25	25	
1,2-Diphenylhydrazine	100%		1	5	5	
Halomethanes	100%		2	10	10	
Heptachlor	100%		0.01	0.05	0.05	
Heptachlor Epoxide	100%		0.01	0.05	0.05	
Hexachlorobenzene	100%		1	5		а
Hexachlorobutadiene	100%		1	5	5	
Hexachloroethane	100%		1	5	5	
Isophorone	100%	-	1	5	5	
N-Nitrosodi-n-Propylamine	100%		5	25	25	
N-Nitrosodiphenylamine	100%	-	1	5	5	-
PAHs	90%	0.021			0.95	b
PCBs	100%		0.5	2.5		а
TCDD Equivalent	90%	1.7x10 <sup>-7</sup>				а
1,1,2,2-Tetrachloroethane	100%	-	0.5	2.5	2.5	
Tetrachloroethene	92%	0.55	2	10	0.55	
Toxaphene	100%		0.5	2.5		а
Trichloroethene	100%		0.5	2.5	2.5	
1,1,2-Trichloroethane	100%		0.5	2.5	2.5	
2,4,6-Trichlorophenol	100%		10	50	0.29	С
Vinyl Chloride	100%		0.5	2.5	2.5	-

# **Footnotes for Tables F-15**

- a. There is no PG proposed, because the PG is greater than monthly average effluent limitation.
- b. ML is not available in the Ocean Plan. PG is carried over from the previous Order Number R4-2017-0180.

c. The Ocean Plan water quality objective is used as the Performance Goal.

# **End of Footnotes for Tables F-15**

#### 6. RATIONALE FOR RECEIVING WATER LIMITATIONS

#### 6.1. Surface Water

The Ocean Plan and Basin Plan contain numeric and narrative water quality standards applicable to surface waters within the Los Angeles Region. Water quality objectives include a policy to maintain high-quality waters pursuant to federal regulations (40 CFR § 131.12) and State Water Board Resolution No. 68-16. Receiving water limitations in section 6 of the Order are included to ensure protection of beneficial uses of the receiving water

#### 6.2. Groundwater - Not Applicable

#### 7. MASS EMISSION BENCHMARKS

To address the uncertainty due to potential increases in toxic pollutant loadings from the JWPCP discharge to the marine environment during the permit term and to establish a framework for evaluating the need for an antidegradation analysis to determine compliance with State and federal antidegradation requirements at the time of permit reissuance, 12-month average mass emission benchmarks have been established for effluent discharged through the 90-inch and 120-inch Outfalls (Discharge Points 001 and 002). These mass emission benchmarks are not enforceable water quality-based effluent limitations; however, they are a requirement of Section III of the Ocean Plan. They may be re-evaluated and revised during the five-year permit term. The mass emission benchmarks (in metric tons per year; MT/yr) for the JWPCP discharge were determined using the same procedure as described in section 5 of this Fact Sheet for the calculation of the Performance Goals. The concentration-based Performance Goals were calculated using data from November 2017 through June 2022 and were converted to mass-based Benchmarks using the 1997 average design flow rate of 385 MGD. The following equation was used for the calculation of the Mass Emission Benchmarks:

MT/yr = (Prescribed Performance Goal,  $\mu$ g/L) x (Flow, Q, 10<sup>6</sup> gal/day) x (3.785 L/gal) x (365 days/yr) x (1 MT/10<sup>12</sup>  $\mu$ g/L).

#### 8. RATIONALE FOR PROVISIONS

#### 8.1. Standard Provisions

Standard Provisions, which apply to all NPDES permits in accordance with 40 CFR section 122.41, and additional conditions applicable to specified categories of permits in accordance with 40 CFR section 122.42, are provided in Attachment D of the Order. Sections 122.41(a)(1) and (b) through (n) of 40 CFR 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. Section 123.25(a)(12) of 40 CFR allows the state to omit or modify conditions to impose more stringent requirements. In accordance with 40 CFR section 123.25, this Order omits federal conditions that address enforcement authority specified in 40 CFR section 122.41(j)(5) and (k)(2)

because the enforcement authority under the Water Code is more stringent. In lieu of these conditions, this Order incorporates by reference Water Code section 13387(e).

# 8.2. Special Provisions

# 8.2.1. Reopener Provisions

These provisions are based on 40 CFR part 123.25. The Los Angeles Water Board may reopen the permit to modify permit conditions and requirements. Causes for modifications include the promulgation of new regulations, modification in sludge/biosolids use or disposal practices, or adoption of new regulations by the State Water Board or Los Angeles Water Board, including revisions to the Ocean Plan and Basin Plan.

# 8.2.2. Special Studies and Additional Monitoring Requirements

- a. Antidegradation Analysis and Engineering Report for Any Proposed Plant Expansion. This provision is based on the State Water Board Resolution Number 68-16, which requires the Los Angeles Water Board in regulating the discharge of waste to maintain high quality waters of the state. The Discharger must demonstrate that it has implemented adequate controls (e.g., adequate treatment capacity) to ensure that high quality waters will be maintained. This provision requires that if the Discharger increases plant capacity, the Discharger must demonstrate that treatment systems are effective in preventing violations of effluent limitations. This provision requires the Discharger to report specific time schedules for JWPCP's projects. This provision requires the Discharger to submit a report to the Los Angeles Water Board for approval.
- **b.** Operations Plan for Proposed Expansion. This provision is based on section 13385(j)(1)(D) of the Water Code and allows a time period not to exceed 90 days in which the Discharger may adjust and test the treatment system(s). This provision requires the Permittee to submit an Operations Plan describing the actions the Discharger will take during the period of adjusting and testing to prevent violations.
- **c. Treatment Plant Capacity.** The treatment plant capacity study required by this Order shall serve as an indicator for the Los Angeles Water Board regarding Facility's increasing hydraulic capacity and growth in the service area.
- d. Toxicity Reduction Evaluation (TRE) Requirements. If the discharge consistently exceeds an effluent limitation for toxicity as specified in this Order, the Permittee shall conduct a TRE as detailed in section 5 of the MRP (Attachment E). The TRE will help the Permittee identify the possible source(s) of toxicity. The Permittee shall take all reasonable steps to reduce toxicity to the required level.

# 8.2.3. Best Management Practices and Pollution Prevention

a. Spill Clean-Up Contingency Plan (SCCP): Since spills or overflows are a common event at the POTW, this Order requires the Discharger to review and update, if necessary, its SCCP after each incident. The Discharger shall ensure that the up-to-date SCCP is readily available to the sewage system personnel at all times and that the sewage personnel are familiar with it.

b. **Pollutant Minimization Program (PMP).** This provision is based on the requirements of section III.C.9 of the 2019 Ocean Plan.

# 8.2.4. Construction, Operation, and Maintenance Specifications

This provision is based on the requirements of 40 CFR section 122.41(e) and the previous Order. 40 CFR section 122.41(e) also requires the operation of back-up or auxiliary facilities or similar systems when the operation is necessary to achieve compliance with the conditions of the Order. For proper and effective operation of such facilities or systems, routine maintenance and operational testing of emergency infrastructure/equipment is necessary. Major sewage spills can cause harm to residents of the Los Angeles Region, such as the closure of beaches, and harm to wildlife and benthic life. The impact of any such incident to the receiving waters can be minimized or prevented if the operation of emergency infrastructure occurs unimpeded by operational challenges and in a timely fashion. Thus, this Order contains requirements for routine maintenance and operational testing of emergency infrastructure/equipment in section 7.3.4.d.

# 8.2.5. Special Provisions for Municipal Facilities (POTWs Only)

- a. Biosolids Requirements. To implement CWA section 405(d), on February 19, 1993, USEPA promulgated 40 CFR part 503 to regulate the use and disposal of municipal sewage sludge. This regulation was amended on September 3, 1999. The regulation requires that producers of sewage sludge meet certain reporting, handling, and disposal requirements. It is the responsibility of the Discharger to comply with said regulations that are enforceable by USEPA, because California has not been delegated the authority to implement this program. The Discharger is also responsible for compliance with WDRs and NPDES permits for the generation, transport and application of biosolids issued by the State Water Board, other Los Angeles Water Boards, Arizona Department of Environmental Quality or USEPA, to whose jurisdiction the Facility's biosolids will be transported and applied.
- b. Pretreatment Requirements. This Order contains pretreatment requirements consistent with applicable effluent limitations, national standards of performance, and toxic and performance effluent standards established pursuant to sections 208(b), 301, 302, 303(d), 304, 306, 307, 403, 404, 405, and 501 of the CWA, and amendments thereto. This permit contains requirements for the implementation of an effective pretreatment program pursuant to section 307 of the CWA; 40 CFR 35 and 403; and/or Title 23, CCR section 2233.
- **c. Spill Reporting Requirements.** This Order establishes a reporting protocol for how different types of spills, overflow or bypasses of raw or partially treated sewage from its collection system or treatment plant covered by this Order shall be reported to regulatory agencies.
  - As discussed in section 3.5.4. of the Fact Sheet, the Permittee is required to comply with the SSS WDRs. The SSS WDRs require public agencies that own or operate sanitary sewer systems with greater than one mile of pipes or sewer lines to enroll for coverage under the SSS WDRs. The SSS WDRs requires

agencies to develop sanitary sewer management plans (SSMPs) and report all sanitary sewer overflows (SSOs), among other requirements and prohibitions.

Furthermore, the SSS WDRs contain requirements for operation and maintenance of collection systems and for reporting and mitigating sanitary sewer overflows. Inasmuch that the Discharger's collection system is part of the system that is subject to this Order, certain standard provisions are applicable as specified in Provisions, section 7.3.5. For instance, the 24-hour reporting requirements in this Order are not included in the SSS WDRs. The Discharger must comply with both the SSS WDRs and this Order. The Discharger and public agencies that are discharging wastewater into the Facility were required to obtain enrollment for regulation under the SSS WDRs by December 1, 2006.

In the past, the Los Angeles Water Board has experienced loss of recreational use in coastal beaches and in recreational areas as a result of major sewage spills. The SSS WDRs requirements are intended to prevent or minimize impacts to receiving waters as a result of spills.

The requirements of this Order are more stringent that the SSS WDRs because in addition to the SSS WDRs requirements, this NPDES permit requires water quality monitoring of the receiving water when the spill reaches the surface water.

#### 9. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

CWA section 308(a) and 40 CFR sections 122.41(h), (j)-(l), 122.44(i), and 122.48 require that all NPDES permits specify monitoring and reporting requirements. Water Code section 13383 also authorizes the Los Angeles Water Board to establish monitoring, reporting, and recordkeeping requirements. The MRP 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.

# 9.1. Influent Monitoring

Influent monitoring is required to determine compliance with the permit conditions, to assess treatment plant performance, and to assess the effectiveness of the Pretreatment Program. Influent monitoring in this Order follows the influent monitoring requirements in the previous Order with minor changes. The monitoring frequencies for some parameters have been increased due to RP for those parameters.

# 9.2. Effluent Monitoring

The Discharger is required to conduct monitoring of the permitted discharges in order to evaluate compliance with permit conditions. Monitoring requirements are given in the MRP Attachment E. This provision requires compliance with the MRP, and is based on 40 CFR sections 122.44(i), 122.62, 122.63, and 124.5. The MRP is a standard requirement in almost all NPDES permits (including this Order) issued by the Los Angeles Water Board. In addition to containing definition of terms, it specifies general sampling/analytical protocols and the requirements of reporting spills, violation, and routine monitoring data in accordance with NPDES regulations, the Water Code, and Los Angeles Water Board policies. The MRP also contains a sampling program specific

for the Permittee's wastewater treatment plant. It defines the sampling stations and frequency, pollutants to be monitored, and additional reporting requirements. Pollutants to be monitored include all pollutants for which effluent limitations are specified.

Monitoring for those pollutants expected to be present in the discharge from the Facility, will be required as set forth in the MRP and as required in the 2019 Ocean Plan.

Monitoring frequency for the constituents is based on historic monitoring frequency, Best Professional Judgment, and the following criteria:

<u>Criterion 1:</u> Monthly monitoring will be considered for those pollutants with reasonable potential to exceed water quality objectives (monitoring has shown an exceedance of the objectives);

<u>Criterion 2</u>: Quarterly monitoring will be considered for those pollutants in which some or all the historic effluent monitoring data detected the pollutants, but without reasonable potential to exceed water quality objectives; and

<u>Criterion 3</u>: Semiannual monitoring will be considered for those pollutants in which all the historic effluent monitoring data have had non-detected concentrations of the pollutants and without current reasonable potential to exceed water quality objectives.

The proposed monitoring requirements for PFAS compounds are consistent with EPA's PFAS Action Plan (dated June 15, 2022), PFAS Strategic Roadmap (October 2021) that describe that EPA's goals of reducing PFAS discharges to waterways, and USEPA's memo dated December 5, 2022 updating guidance for addressing PFAS discharges in NPDES permits and/or in pretreatment programs.

Table F-16. Monitoring Frequency Comparison

Parameter	Monitoring Frequency (2017 Permit)	Monitoring Frequency (2023 Permit)	Notes
Flow	continuous	no change	-
BOD₅20°C	weekly	no change	-
Total Suspended Solids	weekly	no change	
рН	weekly	no change	-
Oil and Grease	weekly	no change	-
Temperature	daily	continuous	а
Settleable Solids	weekly	no change	-
Total Residual Chlorine	daily	no change	1
Turbidity	weekly	no change	-
Total coliform	daily	no change	-
Enterococcus	daily	no change	1
Fecal coliform	5 times/month	no change	-
Total Organic Carbon	monthly	no change	
Ammonia Nitrogen	weekly	no change	
Toxicity, Chronic	monthly	no change	

Parameter	Monitoring Frequency (2017 Permit)	Monitoring Frequency (2023 Permit)	Notes
Cyanide	quarterly	no change	
Nitrate Nitrogen	quarterly	no change	
Nitrite Nitrogen		quarterly	b
Organic nitrogen	quarterly	no change	
Total Nitrogen		quarterly	b
Total Phosphorus (as P)	quarterly	no change	
Radioactivity (including gross alpha, gross beta, combined radium-226 & radium-228, tritium, strontium-90 and uranium)	quarterly	no change	
Arsenic	quarterly	no change	
Cadmium	quarterly	no change	
Chromium (VI)	quarterly	no change	
Copper	quarterly	no change	
Lead	quarterly	semiannually	С
Mercury	quarterly	semiannually	С
Nickel	quarterly	no change	
Selenium	quarterly	no change	
Silver	quarterly	no change	
Zinc	quarterly	no change	
Phenolic Compounds (non-chlorinated)	semiannually	quarterly	d
Phenolic Compounds (chlorinated)	semiannually	quarterly	d
Endosulfan	semiannually	no change	
Endrin	semiannually	no change	
HCH	semiannually	quarterly	d
Acrolein	semiannually	no change	
Antimony	quarterly	no change	
Bis(2-chloroethoxy) methane	semiannually	no change	
Bis(2-chloroisopropyl) ether	semiannually	no change	
Chlorobenzene	semiannually	no change	
Chromium (III)	quarterly	no change	
Di-n-butyl-phthalate	semiannually	no change	
Dichlorobenzenes	semiannually	no change	
Diethyl phthalate	semiannually	no change	
Dimethyl phthalate	semiannually	no change	
4,6-dinitro-2-methylphenol	semiannually	no change	
2,4-Dinitrophenol	semiannually	no change	
Ethylbenzene	semiannually	no change	

Parameter	Monitoring Frequency (2017 Permit)	Monitoring Frequency (2023 Permit)	Notes
Fluoranthene	semiannually	no change	
Hexachlorocyclopentadiene	semiannually	no change	
Nitrobenzene	semiannually	no change	
Thallium	semiannually	no change	
Toluene	semiannually	quarterly	d
Tributyltin	semiannually	no change	
1,1,1-Trichloroethane	semiannually	no change	
Acrylonitrile	semiannually	no change	
Aldrin	semiannually	monthly	е
Benzene	semiannually	no change	
Benzidine	quarterly	no change	f
Beryllium	semiannually	no change	
Bis(2-chloroethyl) ether	semiannually	no change	
Bis(2-ethylhexyl) phthalate	semiannually	quarterly	d
Carbon tetrachloride	semiannually	no change	
Chlordane	semiannually	quarterly	f
Chlorodibromomethane	quarterly	no change	
Chloroform	semiannually	quarterly	d
DDT	quarterly	no change	
1,4-Dichlorobenzene	semiannually	no change	
3,3'-Dichlorobenzidine	semiannually	quarterly	f
1,2-Dichloroethane	semiannually	no change	
1,1-Dichloroethylene	semiannually	no change	
Dichlorobromomethane	semiannually	quarterly	d
Dichloromethane	semiannually	quarterly	d
1,3-Dichloropropene	semiannually	no change	
Dieldrin	semiannually	monthly	е
2,4-Dinitrotoluene	semiannually	no change	
1,2-Diphenylhydrazine	semiannually	no change	
Halomethanes	semiannually	no change	
Heptachlor	semiannually	no change	
Heptachlor epoxide	semiannually	no change	
Hexachlorobenzene	semiannually	quarterly	f
Hexachlorobutadiene	semiannually	no change	
Hexachloroethane	semiannually	no change	
Isophorone	semiannually	no change	
N-Nitrosodimethylamine	semiannually	quarterly	d

Parameter	Monitoring Frequency (2017 Permit)	Monitoring Frequency (2023 Permit)	Notes
N-Nitrosodi-N-propylamine	semiannually	no change	
N-Nitrosodiphenylamine	semiannually	no change	
PAHs	semiannually	quarterly	d
PCBs as Aroclors	quarterly	no change	
PCBs as Congeners	annually	no change	
TCDD Equivalents	semiannually	quarterly	f
1,1,2,2-Tetrachloroethane	semiannually	no change	
Tetrachloroethylene	semiannually	quarterly	d
Toxaphene	quarterly	no change	f
Trichloroethylene	semiannually	no change	-
1,1,2-Trichloroethane	semiannually	no change	1
2,4,6-Trichlorophenol	semiannually	no change	-
Vinyl chloride	semiannually	no change	
Methyl-tert-butyl-ether	semiannually	no change	-
PFAS		annually	b

#### **Footnotes for Tables F-16**

- a. A temperature recorder is used to continuously monitor temperature variations in effluent.
- b. New monitoring requirement.
- c. Based on Criterion 3 specified in section 9.2 above.
- d. Based on Criterion 2 specified in section 9.2 above.
- e. Based on Criterion 1 specified in section 9.2 above.
- f. The reasonable potential analysis was inconclusive but since there is uncertainty as to whether the pollutant is present at concentrations above the water quality objective, an effluent limitation is carried over in the permit for the pollutant.

#### **End of Footnotes for Tables F-16**

# 9.3. Whole Effluent Toxicity Requirements

The rationale for WET has been discussed extensively in section 4.3.6 of this Fact Sheet.

# 9.4. Receiving Water Monitoring

#### 9.4.1. Surface Water

Receiving water monitoring is required to determine compliance with receiving water limitations and to characterize the water quality of the receiving water. Requirements are based on the 2019 Ocean Plan and the Basin Plan. The conceptual framework for the receiving water program has three components that comprise a range of spatial and temporal scales: (a) core monitoring; (b) regional monitoring; and (c)

special studies. Detailed information can be found in Section 1.8 of the attachment E.

The receiving water monitoring program contains the following core and regional components: Inshore and offshore water quality monitoring; benthic infauna and sediment chemistry monitoring; fish and macroinvertebrate (trawl and rig fishing) monitoring, including bioaccumulation/seafood safety; and kelp bed monitoring. Local and regional survey questions, sampling designs, monitoring locations, and other specific monitoring requirements are detailed in the MRP.

# 9.4.2. Groundwater – (Not Applicable)

# 9.5. Other Monitoring Requirements

# 9.5.1. Outfall and Diffuser Inspection

This survey investigates the condition of the outfall structures to determine if the structures are in serviceable condition to ensure their continued safe operation. The data collected will be used for a periodic assessment of the integrity of the outfall pipes and ballasting system.

# 9.5.2. Biosolids and Sludge Management

Attachment H establishes monitoring and reporting requirements for the storage, handling and disposal practices of biosolids/sludge generated from the operation of this POTW.

# 9.5.3. Discharge Monitoring Report-Quality Assurance (DMR-QA) Study Program

Under the authority of section 308 of the CWA (33 U.S.C. § 1318), USEPA requires major and selected minor dischargers under the NPDES Program to participate in the annual DMR-QA Study Program. The DMR-QA Study evaluates the analytical ability of laboratories that routinely perform or support self-monitoring analyses required by NPDES permits. There are two options to satisfy the requirements of the DMR-QA Study Program: (1) The Discharger can obtain and analyze a DMR-QA sample as part of the DMR-QA Study; or (2) Per the waiver issued by USEPA to the State Water Board, the Discharger can submit the results of the most recent Water Pollution Performance Evaluation Study from its own laboratories or its contract laboratories. A Water Pollution Performance Evaluation Study is similar to the DMR-QA Study. Thus, it also evaluates a laboratory's ability to analyze wastewater samples to produce quality data that ensure the integrity of the NPDES Program. The Discharger shall ensure that the results of the DMR-QA Study or the results of the most recent Water Pollution Performance Evaluation Study are submitted annually to the State Water Board. The State Water Board's Quality Assurance Program Officer will send the DMR-QA Study results or the results of the most recent Water Pollution Performance Evaluation Study to USEPA's DMR-QA Coordinator and Quality Assurance Manager.

# 10. CONSIDERATION OF NEED TO PREVENT NUISANCE AND WATER CODE SECTION 13241 FACTORS.

One of the provisions/requirements in this Order (section 4.3 of the Order) is included to implement state law. This provision/requirement is not required or authorized under the

federal CWA; consequently, violations of this provision/requirement are not subject to the enforcement remedies that are available for NPDES violations. As required by Water Code section 13263, the Los Angeles Water Board has considered the need to prevent nuisance and the factors listed in Water Code section 13241 in establishing the state law provisions/requirements. The Los Angeles Water Board finds, on balance, that the state law requirements in this Order are reasonably necessary to prevent nuisance and to protect beneficial uses identified in the Basin Plan, and the section 13241 factors are not sufficient to justify failing to protect those beneficial uses.

- 10.1. Need to prevent pollution or nuisance: In establishing effluent limitations in this Order, the Los Angeles Water Board has considered state law requirements to prevent pollution or nuisance as defined in section 13050, subdivisions (/) and (m), of the Water Code. The only requirement in this Order that is based on State law is a study to investigate the feasibility of recycling, conservation, and/or alternative disposal methods for wastewater (such as groundwater injection), and/or capture and treatment of dryweather urban runoff and stormwater on a permissive basis for beneficial reuse. This report will allow the Los Angeles Water Board to determine if and how to prevent pollution from any recycling or conservation program that might be implemented in the future.
- 10.2. Past, present, and probable future beneficial uses of water: Chapter 2 of the Basin Plan identifies designated beneficial uses for water bodies in the Los Angeles Region. Beneficial uses of water relevant to this Order are also identified above in Table F-6. The Los Angeles Water Board has taken this factor into account in establishing effluent limitations in the Order, including the requirement set forth in section 4.3. The feasibility study will not affect the past or present beneficial uses of water, but it could affect the future beneficial uses of water. Should the Discharger be required to implement the feasibility study, any recycled water that may be produced will have to meet all legal requirements, including those set forth in Title 22 to protect beneficial uses. The requirements herein protect the past, present and probable future beneficial uses of the water.
- 10.3. Environmental characteristics of the hydrographic unit under consideration, including the quality of water available thereto: The environmental characteristics are discussed in the Region's Watershed Management Initiative Chapter, as well as available in State of the Watershed reports and the State's CWA Section 303(d) List of impaired waters. The environmental characteristics of the hydrographic unit, including the quality of available water, will be improved by compliance with the requirements of this Order. Additional information on the Santa Monica Bay Watershed Management Area is available at: Los Angeles Regional Water Quality Control Board (ca.gov).
- 10.4. Water quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area: The water quality standards necessary to protect beneficial uses of the Santa Monica Bay Watershed Management Area can reasonably be achieved through the coordinated control of all factors that affect water quality in the area, including the conservation of water and/or the production of recycled water contemplated in the feasibility study. For example, the water quality in the watershed could be improved through the addition of recycled water which meets Title 22 standards. The Los Angeles Water Board has taken this factor into account in establishing effluent limitations in the Order.

- 10.5. Economic considerations: The Permittee did not present any evidence regarding economic considerations related to this Order. However, the Los Angeles Water Board has considered the economic impact of requiring certain provisions pursuant to state law, which would be the cost of conducting the feasibility study for recycling, conservation, and/or alternative disposal methods for wastewater (such as groundwater injection), and/or capture and treatment of dry-weather urban runoff and stormwater on a permissive basis for beneficial reuse. Any additional costs associated with producing the study are reasonably necessary to prevent nuisance and protect beneficial uses identified in the Basin Plan, and to increase the water supply. The failure to consider conservation or recycled water could result in the loss of, or impacts to, beneficial uses would have a detrimental economic impact, particularly given the effects on beneficial uses and supplies of water from the drought and climate change. Economic considerations related to costs of compliance are therefore not sufficient, in the Los Angeles Water Board's determination, to justify failing to prevent nuisance and protect beneficial uses.
- 10.6. Need for developing housing within the region: The Los Angeles Water Board does not anticipate that the state law requirements in this Order will adversely impact the need for housing in the area. The region generally relies on imported water to meet many of its water resource needs. Imported water makes up a vast majority of the region's water supply, with local groundwater, local surface water, and reclaimed water making up the remaining amount. This Order helps address the need for housing by controlling pollutants in discharges, which will improve the quality of local surface and ground water, as well as water available for recycling and reuse. This in turn may reduce the demand for imported water thereby increasing the region's capacity to support continued housing development. A reliable water supply for future housing development is required by law, and with less imported water available to guarantee this reliability, an increase in local supply is necessary. Therefore, the potential for developing housing in the area will be facilitated by the conservation of water, or reuse or production of, recycled water that may result from the feasibility study.
- 10.7. Need to develop and use recycled water: The State Water Board's Recycled Water Policy requires the Los Angeles Water Board to encourage the use of recycled water. In addition, as discussed immediately above, a need to develop and use recycled water exists within the region, especially during times of drought. To encourage recycling, the Permittee is required by this Order to continue to explore the feasibility of recycling to maximize the beneficial reuse of tertiary treated effluent and to report on its recycled water production and use. The Discharger shall submit an update to this feasibility study as part of the submittal of the Report of Waste Discharge (ROWD) for the next permit renewal.

#### 11. PUBLIC PARTICIPATION

The Los Angeles Water Board has considered the issuance of WDRs that will serve as an NPDES permit for JWPCP. As a step in the WDRs adoption process, the Los Angeles Water Board staff has developed tentative WDRs and has encouraged public participation in the WDRs adoption process.

#### 11.1. Notification of Interested Parties

The Los Angeles Water Board notified the Permittee and interested agencies and persons of its intent to prescribe WDRs for the discharge and provided an opportunity to submit written comments and recommendations. The public notice and Tentative Order were posted on the Los Angeles Water Board's website at <a href="Tentative Orders/Permits">Tentative Orders / Permits</a> Los Angeles Regional Water Quality Control Board (ca.gov). Permittee notification was provided through the following: In addition, interested agencies and persons were notified through a transmittal email to the Discharger, being included in the email transaction, of the Los Angeles Water Board's intention to prescribe WDRs for the discharge.

The public had access to the agenda and any changes in dates and locations through the Los Angeles Water Board's website at:

http://www.waterboards.ca.gov/losangeles/board\_info/agenda/.

#### 11.2. Written Comments

Interested persons were invited to submit written comments concerning the tentative WDRs as provided through the notification process. Comments were due either in person or by mail to the Los Angeles Water Board Executive Officer at the address on the cover page of this Order, or by <a href="mailto:em

To be fully responded to by staff and considered by the Los Angeles Water Board, the written comments were due at the Los Angeles Water Board office by **5:00 p.m. on May 1, 2023**.

# 11.3. Public Hearing

The Los Angeles Water Board 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 25, 2023 Time: 9:00 a.m.

Location: 320 W. 4<sup>th</sup> Street, Carmel Room

Los Angeles, California 90013

A virtual platform was also available for those who wanted to join online. The directions were provided in the agenda to register or to view the Board meeting.

Additional information about the location of the hearing and options for participating were available 10 days before the hearing. Any person desiring to receive future notices about any proposed Board action regarding this Discharger, please contact Don Tsai at <a href="mailto:Don.Tsai@waterboards.ca.gov">Don.Tsai@waterboards.ca.gov</a>, to be included on the email list.

Interested persons were invited to attend. At the public hearing, the Los Angeles Water Board heard testimony pertinent to the discharge, WDRs, and NPDES permit. For accuracy of the record, important testimony was requested in writing.

# 11.4. Review of Waste Discharge Requirements

Any person aggrieved by this action of the Los Angeles Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, Title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., within 30 calendar days of the date

of adoption of this Order at the following address, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day:

State Water Resources Control Board
Office of Chief Counsel
P.O. Box 100, 1001 I Street
Sacramento, CA 95812-0100
Or by email at waterqualitypetitions@waterboards.ca.gov

For instructions on how to file a petition for review, see <a href="http://www.waterboards.ca.gov/public notices/petitions/water quality/wqpetition instr.s">http://www.waterboards.ca.gov/public notices/petitions/water quality/wqpetition instr.s</a> <a href="http://www.waterboards.ca.gov/public notices/petitions/water quality/wqpetition instr.s">httml</a>. Filing a petition does not automatically stay any of the requirements of this Order.

# 11.5. Information and Copying

The ROWD, other supporting documents, and comments received are on file and may be inspected at the address below by appointment between 8:30 a.m. and 4:45 p.m., Monday through Friday. Copying of documents may be arranged through the Los Angeles Water Board at the address below or by calling (213) 576-6600.

Los Angeles Regional Water Quality Control Board 320 W. 4th Street, Suite 200 Los Angeles, CA 90013-2343

# 11.6. 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 Los Angeles Water Board, reference this facility, and provide a name, address, and phone number.

#### 11.7. Additional Information

Requests for additional information or questions regarding this Order should be directed to Don Tsai via <a href="mailto:email

# ATTACHMENT G. TOXICITY REDUCTION EVALUATION (TRE) WORK PLAN

- 1. Gather and Review Information and Data
  - 1.1. POTW Operations and Performance
  - 1.2. POTW Influent and Pretreatment Program
  - 1.3. Effluent Data, including Toxicity Results
  - 1.4. Sludge (Biosolids) Data
- 2. Evaluate Facility Performance
- 3. Conduct Toxicity Identification Evaluation (TIE)
- 4. Evaluate Sources and In-Plant Controls
- 5. Implement Toxicity Control Measures
- 6. Conduct Confirmatory Toxicity Testing

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(Note: "Biosolids" refers to non-hazardous sewage sludge as defined in 40 CFR §503.9. Sewage sludge that is hazardous, as defined in 40 CFR part 261, must be disposed of in accordance with the Resource Conservation and Recovery Act (RCRA).)

ATTACHMENT H. BIOSOLIDS AND SLUDGE MANAGEMENT

#### 1. GENERAL REQUIREMENTS

- 1.1. All biosolids generated by the Permittee shall be reused or disposed of in compliance with the applicable portions of:
  - 1.1.1. 40 CFR part 503: for biosolids that are land applied, placed in surface disposal sites (dedicated land disposal sites or monofills), or incinerated; 40 CFR § 503 Subpart B (land application) applies to biosolids placed on the land for the purposes of providing nutrients or conditioning the soil for crops or vegetation. 40 CFR § 503 Subpart C (surface disposal) applies to biosolids placed on land for the purpose of disposal.
  - 1.1.2. 40 CFR part 258: for biosolids disposed of in a municipal solid waste landfills.
  - 1.1.3. 40 CFR part 257: for all biosolids use and disposal practices not covered under 40 CFR parts 258 or 503.
- 1.2. The Permittee is responsible for assuring that all biosolids from its facility are used or disposed of in accordance with 40 CFR part 503, whether the Permittee uses or disposes of the biosolids itself or transfers their biosolids to another party for further treatment, reuse, or disposal. The Permittee is responsible for informing subsequent preparers, appliers, and disposers of requirements they must meet under 40 CFR part 503.
- 1.3. Duty to mitigate: The Permittee shall take all reasonable steps to prevent or minimize any biosolids use or disposal which may adversely impact human health or the environment.
- 1.4. No biosolids shall be allowed to enter wetland or other waters of the United States.
- 1.5. Biosolids treatment, storage, and use or disposal shall not contaminate groundwater.
- 1.6. Biosolids treatment, storage, use or disposal shall not create a nuisance such as objectionable odors or flies.
- 1.7. The Permittee shall assure that haulers transporting biosolids off site for further treatment, storage, reuse, or disposal take all necessary measures to keep the biosolids contained.
- 1.8. If biosolids are stored for over two years from the time they are generated, the Permittee must ensure compliance with all the requirements for surface disposal under 40 CFR part 503 Subpart C, or must submit a written request to USEPA with the information in part 503.20(b), requesting permission for longer temporary storage.

- 1.9. Sewage sludge containing more than 50 mg/kg PCBs shall be disposed of in accordance with 40 CFR part 761.
- 1.10. Any off-site biosolids treatment, storage, use, or disposal site operated by the Permittee within Region 4 (Los Angeles Region of RWQCB) that is not subject to its own Waste Discharge Requirements shall have facilities adequate to divert surface runoff from the adjacent area, to protect the site boundaries from erosion, and to prevent any conditions that would cause drainage from the materials in the disposal site to escape from the site. Adequate protection is defined as protected from a storm or flood having a 1-percent chance of occurring in a 24-hour period in any given year and from the highest tidal stage that may occur.
- 1.11. There shall be adequate screening at the plant headworks and/or at the biosolids treatment units to ensure that all pieces of metal, plastic, glass, and other inert objects with a diameter greater than 3/8 inches are removed.

#### 2. INSPECTION AND ENTRY

The Los Angeles Water Board, USEPA, or an authorized representative thereof, upon the presentation of credentials, shall be allowed by the Permittee, directly or through contractual arrangements with their biosolids management contractors, to:

- 2.1. Enter upon all premises where biosolids are produced by the Permittee and all premises where Permittee biosolids are further treated, stored, used, or disposed, either by the Permittee or by another party to whom the Permittee transfers the biosolids for further treatment, storage, use, or disposal;
- 2.3. Have access to and copy any records that must be kept under the conditions of this permit or of 40 CFR part 503, by the Permittee or by another party to whom the Permittee transfers the biosolids for further treatment, storage, use, or disposal; and
- 2.4. Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations used in the production of biosolids and further treatment, storage, use, or disposal by the Permittee or by another party to whom the Permittee transfers the biosolids for further treatment, storage, use, or disposal.

#### 3. MONITORING

3.1. Biosolids shall be monitored for the metals required in 40 CFR § 503.16 (for land application) or § 503.26 (for surface disposal), using the methods in "Test Methods for Evaluating Solids Waste, Physical/Chemical Methods" (SW-846), as required in 503.8(b)(4), at the following minimum frequencies:

Amount of Sewage Sludge (Metric Tons per 365 days)	Frequency
	Once per year
Greater than 0 but less than 290	
Equal to or greater than 290 but less than 1,500	Once per quarter

Amount of Sewage Sludge (Metric Tons per 365 days)	Frequency
Equal to or greater than 1,500 but less than 15,000	Once per 60 days
Equal to or greater than 15,000	Once per month

For accumulated, previously untested biosolids, the Permittee shall develop a representative sampling plan, which addresses the number and location of sampling points, and collect representative samples.

Test results shall be expressed in milligrams pollutant per kilogram biosolids on a 100% dry weight basis.

Biosolids used for land application shall be tested for organic nitrogen, ammonia nitrogen, and nitrate nitrogen at the frequencies required above.

- 3.2. Biosolids shall be monitored for the following constituents at the frequency stipulated in 40 CFR § 503.16: arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, organic nitrogen, ammonia nitrogen, and total solids. If biosolids are removed for use or disposal on a routine basis, sampling should be scheduled for regular intervals throughout the year. If biosolids are stored for an extended period prior to use or disposal, sampling may occur at regular intervals, or samples of the accumulated stockpile may be collected prior to use or disposal, corresponding to the tons accumulated in the stockpile for that period.
- 3.3. Class 1 facilities (facilities with pretreatment programs or others designated as Class 1 by the Regional Administrator) and Federal facilities with >5 MGD influent flow shall sample biosolids for pollutants listed under section 307 (a) of the Clean Water Act (as required in the pretreatment section of the permit for POTWs with pretreatment programs). Class 1 facilities and Federal Facilities with >5 MGD influent flow shall test dioxins/dibenzofurans using a detection limit of <1 pg/g during their next sampling period if they have not done so within the past 5 years and once per 5 years thereafter.</p>
- 3.4. The biosolids shall be tested annually or more frequently if necessary, to determine hazardousness in accordance with California Law.

#### 4. PATHOGEN AND VECTOR CONTROL

- 4.1. Prior to land application, the Permittee shall demonstrate that the biosolids meet Class A or Class B pathogen reduction levels by one of the methods listed in 40 CFR § 503.32. Prior to disposal in a surface disposal site, the Permittee shall demonstrate that the biosolids meet Class B levels or shall ensure that the site is covered at the end of each operating day.
- 4.2. If pathogen reduction is demonstrated using a "Process to Further Reduce Pathogens," the Permittee shall maintain daily records of the operating parameters used to achieve this reduction. If pathogen reduction is demonstrated by testing for fecal coliform and/or pathogens, samples must be collected at the frequency specified in Table 1 of 40 CFR § 503.16. If Class B is demonstrated using fecal coliform, at least seven grab samples must be collected during each

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monitoring period and a geometric mean calculated from these samples. The following holding times between sample collection and analysis shall not be exceeded: fecal coliform – 6 hours when cooled to <4 degrees Celsius (extended to 24 hours when cooled to <4 degrees Celsius for Class A composted, Class B aerobically digested, and Class B anaerobically digested sample types); Salmonella spp. Bacteria – 24 hours when cooled to <4 degrees Celsius (unless using Method 1682 – 6 hours when cooled to 10 degrees Celsius); enteric viruses – 6 hours when cooled to <10 degrees Celsius (extended to one month when cooled to <4 degrees Celsius).

4.3. For biosolids that are land applied or placed in a surface disposal site, the Permittee shall track and keep records of the operational parameters used to achieve Vector Attraction Reduction requirements in 40 CFR § 503.33 (b).

#### 5. LAND APPLICATION

The Permittee shall ensure that Class A thermophilically digested biosolids are applied at a rate not to exceed the agronomic rate for the crop that is grown.

#### 6. SURFACE DISPOSAL

If biosolids are placed in a surface disposal site (dedicated land disposal site or monofill), a qualified groundwater scientist shall develop a groundwater monitoring program for the site or shall certify that the placement of biosolids on the site will not contaminate an aquifer.

#### 7. NOTIFICATION

The Permittee, either directly or through contractual arrangements with their biosolids management contractors, shall comply with the following 40 CFR part 503 notification requirements.

#### 7.1. Notification of Non-compliance

The Permittee shall require appliers of their biosolids to notify USEPA Region 9 and their state permitting agency of any noncompliance within 24 hours if the non-compliance may seriously endanger health or the environment. For other instances of non-compliance, the Permittee shall require appliers of their biosolids to notify USEPA Region 9 and their state permitting agency of the noncompliance in writing within 10 working days of becoming aware of the noncompliance.

#### 7.2. Interstate Notification

If bulk biosolids are shipped to another State or to Indian Lands, the Permittee must send written notice within 60 days of the shipment and prior to the initial application of bulk biosolids to the permitting authorities in the receiving State or Indian Land (the USEPA Regional Office for the area and the State/Indian authorities).

#### 7.3. Land Application Notification

A reuse/disposal plan shall be submitted to USEPA Region 9 Coordinator and, in the absence of other state or regional reporting requirements, to the state permitting agency, prior to the use or disposal of any biosolids from this facility to a new or previously unreported site. The plan shall be submitted by the land applier of the biosolids and shall include a description and a topographic map of the proposed site(s) for reuse or disposal, names and addresses of the applier(s) and site owner(s), and a list of any state or local permits which must be obtained. For land application sites, the plan shall include a description of the crops or vegetation to be grown, proposed nitrogen loadings to be used for the crops, a determination of agronomic rates, and a groundwater monitoring plan or a description of why groundwater monitoring is not required.

If the biosolids do not meet 40 CFR § 503.13 Table 3 metals concentration limits, the Permittee must require their land applier to contact the state permitting authority to determine whether bulk biosolids subject to the cumulative pollutant loading rates in 40 CFR § 503.12(b)(2) have been applied to the site since July 20, 1993, and, if so, the cumulative amount of pollutants applied to date, and background concentration, if known. The Permittee shall then notify USEPA Region 9 Coordinator of this information.

For biosolids that are land applied, the Permittee shall notify the applier in writing of the nitrogen content of the biosolids, and the applier's requirements under 40 CFR part 503, including the requirements that the applier certify that the requirement to obtain information in Subpart A, and that the management practices, site restrictions, and any applicable vector attraction reduction requirements Subpart D have been met. The Permittee shall require the applier to certify at the end of 38 months following application of Class B biosolids that those harvesting restrictions in effect for up to 38 months have been met.

# 7.4. Surface Disposal Notification

Prior to disposal at a new or previously unreported site, the Permittee shall notify USEPA and the State. The notice shall include a description and topographic map of the proposed site, depth to groundwater, whether the site is lined or unlined, site operator and site owner, and any state or local permits. It shall also describe procedures for ensuring grazing and public access restrictions for three years following site closure. The notice shall include a groundwater monitoring plan or description of why groundwater monitoring is not required.

#### 8. REPORTING

The Permittee shall submit an annual biosolids report to USEPA Region 9 Biosolids Coordinator and the Los Angeles Regional Water Quality Control Board by February 19 of each calendar year. The report shall include:

8.1. The amount of biosolids generated that year, in dry metric tons, and the amount accumulated from previous years.

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- 8.2. Results of all pollutant monitoring required in the Monitoring Section above. Results must be reported on a 100% dry weight basis.
- 8.3. Descriptions of pathogen reduction methods, and vector attraction reduction methods, as required in 40 CFR § 503.17 and 503.27, and certifications.
- 8.4. Results of any groundwater monitoring or certification by a groundwater scientist that the placement of biosolids in a surface disposal site will not contaminate an aquifer.
- 8.5. Names and addresses of land appliers and surface disposal site operators, and volumes applied (dry metric tons).
- 8.6. Names and addresses of persons who received biosolids for storage, further treatment, disposal in a municipal waste landfill, deep well injection, or other reuse/disposal methods not covered above, and volumes delivered to each.
- 8.7. The Permittee shall submit, or require all parties contracted to manage their biosolids to submit, an annual biosolids report to USEPA Region 9 Biosolids Coordinator by February 19 of each year for the period covering the previous calendar year. The report shall include:
  - Names and addresses of land appliers and surface disposal site operators, name, location (latitude/longitude), and size (hectares) of site(s), volumes applied/disposed (dry metric tons), results of any groundwater monitoring; for land application: biosolids loading rates (metric tons per hectare), nitrogen loading rates (kg/ha),calculated plant available nitrogen, dates of applications, crops grown, dates of seeding and harvesting and certifications that the requirement to obtain information in 40 CFR § 503.12(e)(2), management practices in §503.14, site restrictions in § 503.32(b)(5) have been met; for biosolids exceeding 40 CFR §503.13 Table 3 metals concentrations, the locations of sites where the biosolids were applied and cumulative metals loading at the sites to date; and for closed sites, the date of site closure and certifications of management practiced for three years following site closure.
- 8.8. The annual biosolids report shall be submitted to USEPA using USEPA's NPDES Central Data Exchange (CDX) and can be accessed at <a href="https://cdx.epa.gov/">https://cdx.epa.gov/</a>.

#### ATTACHMENT I. PRETREATMENT REPORTING REQUIREMENTS

The Permittee is required to submit annual Pretreatment Program Compliance Reports (Report) to the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) and United States Environmental Protection Agency, Region 9 (USEPA). This Attachment outlines the minimum reporting requirements of the Report. If there is any conflict between requirements stated in this attachment and provisions stated in the Waste Discharge Requirements (WDRs), those contained in the WDRs will prevail.

#### 1. PRETREATMENT REQUIREMENTS

- 1.1. The Permittee shall be responsible and liable for the performance of all Control Authority pretreatment requirements contained in Title 40 of the Code of Federal Regulations (40 CFR) part 403, including any subsequent regulatory revisions to 40 CFR part 403. Where 40 CFR part 403 or subsequent revision places mandatory actions upon the Permittee as Control Authority but does not specify a timetable for completion of the actions, the Permittee shall complete the required actions within six months from the issuance date of this permit or the effective date of the revisions to 40 CFR part 403, whichever is later. For violations of pretreatment requirements, the Permittee shall be subject to enforcement actions, penalties, fines and other remedies by the USEPA or other appropriate parties, as provided in the Clean Water Act (CWA). The Los Angeles Water Board or USEPA may initiate enforcement action against a nondomestic user for noncompliance with applicable standards and requirements as provided in the CWA and/or the California Water Code.
- 1.2. The Permittee shall implement and enforce in its entire service area, including contributing jurisdictions, its approved pretreatment program, and all subsequent revisions which are hereby made enforceable conditions of this Order. The Permittee shall enforce the requirements promulgated under sections 307(b), 307(c), 307(d) and 402(b) of the CWA with timely, appropriate and effective enforcement actions. The Permittee shall cause all nondomestic users subject to federal categorical standards to achieve compliance no later than the date specified in those requirements or, in the case of a new nondomestic user, upon commencement of the discharge.
- 1.3. The Permittee shall perform the pretreatment functions as required in 40 CFR part 403 including, but not limited to:
  - 1.3.1. Implement the necessary legal authorities as provided in 40 CFR § 403.8(f)(1);
  - 1.3.2. Enforce the pretreatment requirements under 40 CFR § 403.5 and 403.6;
  - 1.3.3. Implement the programmatic functions as provided in 40 CFR § 403.8(f)(2); and
  - 1.3.4. Provide the requisite funding and personnel to implement the pretreatment program as provided in 40 CFR § 403.8(f)(3).
- 1.4. The Permittee shall submit an annual report to the Los Angeles Water Board, State Water Resources Control Board (State Water Board), and USEPA Region 9, describing its pretreatment activities over the previous year. In the event the Permittee is not in compliance with any conditions or requirements of this Order, or any pretreatment compliance inspection/audit requirements, then the Permittee shall also include the reasons for noncompliance and state how and when the Permittee shall comply with

such conditions and requirements. This annual report shall cover operations from January 1 through December 31 and is due on April 30 of each year. The report shall contain, but not be limited to, the following information:

- 1.4.1. A summary of analytical results from representative sampling of the publicly-owned treatment works (POTW) influent and effluent, as described in Attachment E Monitoring and Reporting Program, for those pollutants USEPA has identified under section 307(a) of the CWA which are known or suspected to be discharged by nondomestic users. Representative grab sampling shall be conducted for pollutants that may degrade after collection, or where the use of automatic sampling equipment may otherwise result in unrepresentative sampling. Such pollutants include, but are not limited to, cyanide, oil and grease, volatile organic compounds, chlorine, phenol, sulfide, pH, and temperature. Sludge sampling and analysis are covered in the sludge section of this permit. The Permittee shall also provide any influent or effluent monitoring data for nonpriority pollutants which the Permittee believes may be causing or contributing to interference or pass through. Sampling and analysis shall be performed with the techniques described in 40 CFR part 136.
- 1.4.2. A discussion of upset, interference or pass-through incidents, if any, at the treatment plant which the Permittee knows or suspects were caused by nondomestic users of the POTW system. The discussion shall include the reasons why the incidents occurred, the corrective actions taken and, if known, the name and address of the nondomestic user(s) responsible. The discussion shall also include a review of the applicable pollutant limitations to determine whether any additional limitations, or changes to existing requirements, may be necessary to prevent pass through or interference.
- 1.4.3. An updated list of the Permittee's Significant Industrial Users (SIUs) including their names and addresses, and a list of deletions, additions and SIU name changes keyed to the previously submitted list. The Permittee shall provide a brief explanation for each change. The list shall identify the SIUs subject to federal categorical standards by specifying which set(s) of standards are applicable to each SIU. The list shall also indicate which SIUs are subject to local limitations.
- 1.4.4. The Permittee shall characterize the compliance status of each SIU by providing a list or table which includes the following information:
  - a. Name of the SIU;
  - b. Category, if subject to federal categorical standards;
  - c. The type of wastewater treatment or control processes in place;
  - The number of samples collected, and inspections conducted by the Permittee during the year;
  - e. The number of samples taken by the SIU during the year;
  - f. For an SIU subject to discharge requirements for total toxic organics, whether all required certifications were provided;
  - g. A list of the standards violated during the year. Identify whether the violations were for categorical standards or local limits;

- h. Whether the facility is in significant noncompliance (SNC) as defined at 40 CFR § 403.8(f)(2)(viii) at any time during the year; and
- i. A summary of enforcement or other actions taken during the year to return the SIU to compliance. Describe the type of action, final compliance date, and the number of fines and penalties collected, if any. Describe any proposed actions for bringing the SIU into compliance.
- 1.4.5. A brief description of any programs the Permittee implements to reduce pollutants from nondomestic users that are not classified as SIUs.
- 1.4.6. A brief description of any changes in operating the pretreatment program which differ from the previous year including, but not limited to, changes concerning the program's administrative structure, local limits, monitoring program or monitoring frequencies, legal authority, enforcement policy, funding levels, or staffing levels.
- 1.4.7. A summary of the annual pretreatment budget, including the cost of pretreatment program functions and equipment purchases.
- 1.4.8. A summary of activities to involve and inform the public of the program including a copy of the newspaper notice, if any, required under 40 CFR § 403.8(f)(2)(viii).
- 1.4.9. A description of any changes in sludge disposal methods.
- 1.4.10. A discussion of any concerns not described elsewhere in the annual report.
- 1.5. Any substantial modifications to the approved Pretreatment Program, as defined in 40 CFR § 403.18(b), shall be submitted in writing to the Los Angeles Water Board and USEPA and shall not become effective until the Los Angeles Water Board and/or USEPA approval is attained.
- 1.6. Non-industrial Source Control and Public Education Programs. The Permittee shall continue to develop and implement its non-industrial source control program and public education program. The purpose of these programs is to reduce nonindustrial toxic pollutants and pesticides into the POTW. These programs shall be periodically reviewed and addressed in the annual report.

#### 2. LOCAL LIMITS EVALUATION

In accordance with 40 CFR § 122.44(j)(2)(ii), the Permittee shall provide a written technical evaluation of the need to revise local limits under 40 CFR § 403.5(c)(1) within 180 days of issuance or reissuance of this Order. This written technical evaluation shall be consistent with local limits reviews described in section 7.1 of USEPA's Local Limits Development Guidance (EPA 833-R-04-002A, July 2004). Local limits shall be calculated to be protective of mass emission benchmarks in addition to water quality standards.

#### 3. SIGNATORY REQUIREMENTS AND REPORT SUBMITTAL

# 3.1. Signatory Requirements

The annual report must be signed by a principal executive officer, ranking elected official or other duly authorized employee if such employee is responsible for the overall

operation of the POTW. Any person signing these reports must make the following certification [40 CFR § 403.6(a)(2)(ii)]:

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.

# 3.2. Report Submittal

The Annual Pretreatment Report shall be submitted electronically using the State Water Board's <u>California Integrated Water Quality System (CIWQS) Program website</u> (http://www.waterboards.ca.gov/ciwqs/index.html). The CIWQS website will provide additional information for SMR submittal in the event there will be a planned service interruption for electronic submittal.

A copy of the Annual Report must be sent to USEPA electronically to the following address: R9Pretreatment@epa.gov. The maximum file size is 20 megabytes.

# ATTACHMENT J. REASONABLE POTENTIAL ANALYSIS SUMMARY FOR DISCHARGE POINTS 001 AND 002

Parameters	Unit	Max. Effluent Conc.	Ocean Plan 6- Month Median Objective	Ocean Plan Daily Max. Objective	Ocean Plan Instan- taneous Max.	Ocean Plan 30- Day Average Objective	Lowest C <sub>o</sub>	Cs	With Monitoring Data	%Data Detected <20%	UCB <sub>95/95</sub>	RPA Result- Need Limit?	Rationale	Note
Arsenic	μg/L	2.62	8	32	80		8	3	Yes	No	2.9989	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
Cadmium	μg/L	0.062	1	4	10		1	0	Yes	No	0.0005	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
Chromium (VI)	μg/L	0.12	2	8	20		2	0	Yes	No	0.0008	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
Copper	μg/L	4.96	3	12	30		3	2	Yes	No	2.0201	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
Lead	μg/L		2	8	20		2	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
Mercury	μg/L		0.04	0.16	0.4		0.04	0.0005	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
Nickel	μg/L	15.4	5	20	50		5	0	Yes	No	0.0775	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
Selenium	μg/L	6.08	15	60	150		15	0	Yes	No	0.0396	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
Silver	μg/L	0.21	0.7	2.8	7		0.7	0.16	Yes	No		No	Conclusive non- exceedances of the Co	
Zinc	μg/L	18.3	20	80	200		20	8	Yes	No	8.0640	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
Cyanide, Total	μg/L	7.42	1	4	10		1	0	Yes	No		No	Conclusive non- exceedances of the Co	
Chlorine, Total Residual	μg/L	700	2	8	60		2	0	Yes	Yes		Yes	Conclusive non- exceedances of the C <sub>o</sub>	
Ammonia (As N)	μg/L	50000	600	2400	6000		600	0	Yes	No	293.7514	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
Phenols, Non- Chlorinated	μg/L	2.17	30	120	300		30	0	Yes	No	0.0226	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	а
Phenols, Chlorinated	μg/L	0.91	1	4	10		1	0	Yes	No	0.0167	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	а
Endosulfans	μg/L		0.009	0.018	0.027		0.009	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	а
Endrin	μg/L		0.002	0.004	0.006		0.002	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
нсн	μg/L	0.02	0.004	0.008	0.012		0.004	0	Yes	No		No	Conclusive non- exceedances of the Co	а
Acrolein	μg/L					220	220	0	Yes	Yes		No	Conclusive non- exceedances of the Co	

Parameters	Unit	Max. Effluent Conc.	Ocean Plan 6- Month Median Objective	Ocean Plan Daily Max. Objective	Ocean Plan Instan- taneous Max.	Ocean Plan 30- Day Average Objective	Lowest C <sub>o</sub>	Cs	With Monitoring Data	%Data Detected <20%	UCB <sub>95/95</sub>	RPA Result- Need Limit?	Rationale	Note
Antimony	μg/L	2.65				1200	1200	0	Yes	No	0.0191	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
Bis(2-Chloroethoxy) Methane	μg/L					4.4	4.4	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Bis(2-Chloroisopropyl) Ether	μg/L					1200	1200	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Chlorobenzene	μg/L					570	570	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Chromium (III)	μg/L	2.54				190000	190000	0	Yes	No	0.0143	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
Di-N-Butyl Phthalate	μg/L	1.7				3500	3500	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Dichlorobenzenes	μg/L					5100	5100	0	Yes	Yes		No	Conclusive non- exceedances of the Co	а
Diethyl Phthalate	μg/L	0.65				33000	33000	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Dimethyl Phthalate	μg/L					820000	820000	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
4,6-Dinitro-2-Methyl- phenol	μg/L					220	220	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
2,4-Dinitrophenol	μg/L					4	4	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Ethylbenzene	μg/L					4100	4100	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Fluoranthene	μg/L					15	15	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Hexachlorocyclopen- tadiene	μg/L					58	58	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Nitrobenzene	μg/L					4.9	4.9	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Thallium	μg/L					2	2	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Toluene	μg/L	0.74				85000	85000	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Tributyltin	μg/L					0.0014	0.0014	0	Yes	Yes		No	Conclusive non- exceedances of the Co	

Parameters	Unit	Max. Effluent Conc.	Ocean Plan 6- Month Median Objective	Ocean Plan Daily Max. Objective	Ocean Plan Instan- taneous Max.	Ocean Plan 30- Day Average Objective	Lowest C <sub>o</sub>	Cs	With Monitoring Data	%Data Detected <20%	UCB <sub>95/95</sub>	RPA Result- Need Limit?	Rationale	Note
1,1,1-Trichloroethane	μg/L					540000	540000	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Acrylonitrile	μg/L					0.1	0.1	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
Aldrin	μg/L	0.008				0.000022	0.000022	0	Yes	No		Yes	Detections > Lowest C <sub>o</sub> after complete mixing	
Benzene	μg/L					5.9	5.9	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
Benzidine	μg/L					0.000069	0.000069	0	Yes	Yes		Yes	No conclusive non- exceedances of the C <sub>o</sub>	
Beryllium	μg/L					0.033	0.033	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
Bis(2-Chloroethyl) Ether	μg/L					0.045	0.045	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Bis(2-Ethylhexyl) Phthalate	μg/L	75				3.5	3.5	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Carbon Tetrachloride	μg/L					0.9	0.9	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
Chlordane	μg/L					0.000023	0.000023	0	Yes	Yes		Yes	No conclusive non- exceedances of the C <sub>o</sub> C	а
Chlorodibromo- methane	μg/L	0.56				8.6	8.6	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
Chloroform	μg/L	20				130	130	0	Yes	No	0.1584	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
DDT	μg/L	0.004				0.00017	0.00017	0.0000 57	Yes	Yes		Yes	With TMDL	а
1,4-Dichlorobenzene	μg/L					18	18	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
3,3-Dichlorobenzidine	μg/L					0.0081	0.0081	0	Yes	Yes		Yes	No conclusive non- exceedances of the Co	
1,2-Dichloroethane	μg/L					28	28	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
1,1-Dichloroethylene	μg/L					0.9	0.9	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	

Parameters	Unit	Max. Effluent Conc.	Ocean Plan 6- Month Median Objective	Ocean Plan Daily Max. Objective	Ocean Plan Instan- taneous Max.	Ocean Plan 30- Day Average Objective	Lowest C <sub>o</sub>	Cs	With Monitoring Data	%Data Detected <20%	UCB <sub>95/95</sub>	RPA Result- Need Limit?	Rationale	Note
Dichlorobromo- methane	μg/L	1.1				6.2	6.2	0	Yes	No	0.0088	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
Dichloromethane	μg/L	2.8				450	450	0	Yes	No	0.0209	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
1,3-Dichloropropene	μg/L					8.9	8.9	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
Dieldrin	μg/L	0.01		1	1	0.00004	0.00004	0	Yes	Yes		Yes	Detection > Lowest C <sub>o</sub> after complete mixing	
2,4-Dinitrotoluene	μg/L			1	1	2.6	2.6	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
1,2-Diphenylhydrazine	μg/L			-		0.16	0.16	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Halomethanes	μg/L			-		130	130	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	а
Heptachlor	μg/L					0.00005	0.00005	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Heptachlor Epoxide	μg/L					0.00002	0.00002	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Hexachlorobenzene	μg/L					0.00021	0.00021	0	Yes	Yes		Yes	No conclusive non- exceedances of the C <sub>o</sub>	
Hexachlorobutadiene	μg/L			1	1	14	14	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
Hexachloroethane	μg/L					2.5	2.5	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
Isophorone	μg/L					730	730	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
N- Nitrosodimethylamine	μg/L	0.33				7.3	7.3	0	Yes	No	0.0024	No	UCB <sub>95/95</sub> < Lowest C <sub>o</sub>	
N-Nitrosodi-N- Propylamine	μg/L			1	-	0.38	0.38	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
N- Nitrosodiphenylamine	μg/L					2.5	2.5	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	
PAHs	μg/L	0.021				0.0088	0.0088	0	Yes	Yes		No	Conclusive non- exceedances of the C <sub>o</sub>	а

Parameters	Unit	Max. Effluent Conc.	Ocean Plan 6- Month Median Objective	Ocean Plan Daily Max. Objective	Ocean Plan Instan- taneous Max.	Ocean Plan 30- Day Average Objective	Lowest C <sub>o</sub>	Cs	With Monitoring Data	%Data Detected <20%	UCB <sub>95/95</sub>	RPA Result- Need Limit?	Rationale	Note
PCBs Arochlors	μg/L					0.000019	0.000019	0.0000 16	Yes	Yes		Yes	With TMDL	а
TCDD Equivalents	μg/L					3.9E-09	3.9E-09	0	Yes	Yes		Yes	No conclusive non- exceedances of the C <sub>o</sub>	а
1,1,2,2- Tetrachloroethane	μg/L					2.3	2.3	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Tetrachloroethylene	μg/L	0.55		1		2	2	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Toxaphene	μg/L					0.00021	0.00021	0	Yes	Yes		Yes	No conclusive non- exceedances of the C <sub>o</sub>	
Trichloroethylene	μg/L					27	27	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
1,1,2-Trichloroethane	μg/L					9.4	9.4	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
2,4,6-Trichlorophenol	μg/L					0.29	0.29	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Vinyl Chloride	μg/L					36	36	0	Yes	Yes		No	Conclusive non- exceedances of the Co	

# Footnotes for Discharge Point 002 RPA

C<sub>o</sub> – 2019 Ocean Plan objectives

C<sub>s</sub> – 2019 Ocean Plan background concentrations

RPA – Reasonable Potential Analysis

UCB<sub>95/95</sub> - upper 95 percent confidence bound for the 95th percentile of the effluent performance data

a. See Attachment A of this Order for definition of terms.