California Regional Water Quality Control Board San Diego Region

Response to Comments Report

Tentative Order No. R9 2018-0002 NPDES No. CA0107981

Waste Discharge Requirements
for the City of Escondido,
Hale Avenue Resource Recovery Facility
and Membrane Filtration/Reverse Osmosis Facility
Discharge to the Pacific Ocean
through the San Elijo Ocean Outfall

April 11, 2018

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN DIEGO REGION

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April 11, 2018 Item No. 9 Supporting Document No. 5

Response to Comments Report Tentative Order No. R9 2018-0002

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Introduction

This report contains the San Diego Water Board responses to written comments received on Tentative Order No. R9 2018-0002, Waste Discharge Requirements for the City of Escondido, Hale Avenue Resource Recovery Facility and Membrane Filtration/Reverse Osmosis Facility Discharge to the Pacific Ocean through the San Elijo Ocean Outfall (Tentative Order).

The San Diego Water Board provided public notice of the release of the Tentative Order on January 27, 2018 and provided a period of 30 days for public review and comment. The public comment period ended on February 26, 2018.

Comments received by February 26, 2018 from:	<u>Page No.</u>
City of Escondido and San Elijo Joint Powers Authority	2
California Department of Fish and Wildlife	16

Comments and Responses

The written comments and staff responses are set forth in the table that follows. The table includes the San Diego Water Board's response to the comment, and any actions taken to revise the Tentative Order in response to the comment. The responses display revisions to the Tentative Order in red-underline for added text and red strikeout for deleted text.

N	No. Comment Response						
	Christopher W. McKinney, Director of Utilities, City of Escondido (City) and Michael T. Thornton, General Manager, San Elijo Joint Powers Authority (SEJPA); written comments dated February 26, 2018						
	j t c	San Diego Water Board revisit the best professional judgement (BPJ) to include effluent limitations for chronic	The U.S. Environmental Protection Agency (USEPA) regulations for the NPDES Permit Program at title 40 of the Code of Federal Regulations section 122.44(d)(1)(i) (40 CFR 122.44(d)(1)(i)) and the implementation provisions of the Water Quality Control Plan for Ocean Waters of California, California Ocean Plan (Ocean Plan) require that NPDES 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. The San Diego Water Board has determined that reasonable potential is demonstrated for chronic toxicity to cause or contribute to an exceedance of applicable chronic toxicity water quality objectives. This determination is based on best professional judgement (BPJ) given the possibility of synergistic or added toxicity effects of known and unknown pollutant mixtures in the effluent from the City and SEJPA publiclyowned treatment works (POTW) on the receiving waters. Accordingly, the San Diego Water Board has maintained the effluent limitations in the Tentative Order Nos. R9-2018-0002 and R9 2018-0003 (Tentative Orders) for chronic toxicity based on BPJ. (See section IV.C.3 of the Fact Sheets of the Tentative Orders). Because discharges into a POTW are ever changing, the effluent from POTWs is inconsistent and may have a mixture of known and unknown pollutants that could have synergistic or additive toxic effects on receiving waters. The mixture of known and unknown pollutants may come from nonresidential and residential sources in the City's and the SEJPA's service areas. Even though the toxicity monitoring data for the past several years have been in compliance	None necessary			

No.	Comment	Response	Action Taken
		with toxicity performance goals, increased and/or unknown pollutants could be introduced into the City's and/or the SEJPA's POTW from nonresidential and/or residential sources in the future that have synergistic or additive toxic effects. Additionally, if a toxic effect is discovered in the receiving water, the results of the whole effluent testing (WET) may be useful for identifying the source of the toxicity.	
2	The City and the SEJPA request that the San Diego Water Board revise the Fact Sheets for the Tentative Orders to include the details, required regulations, and possible effects of the San Elijo Lagoon Restoration Project (Project). The City and the SEJPA are concerned that the Project may involve moving considerable quantities of sediment dredged from the lagoon to the immediate area of the San Elijo Ocean Outfall (SEOO), including: • placing approximately 107,000 cubic yards of dredged material approximately 500 feet north of the SEOO diffuser, • placing approximately 297,000 cubic yards of dredged material approximately 500 feet south of the SEOO diffuser, • placing approximately 300,000 cubic yards of dredged material in the nearshore beach area of Cardiff Beach, and • placing approximately 146,000 cubic yards of dredged material in the nearshore beach area of Solana Beach. Approximately 400,000 cubic yards of dredged material that is to be discharged to the vicinity of the SEOO diffuser represents a mass load of slightly more than one trillion pounds of sediment. The City and the SEJPA request that the Fact Sheets to the Tentative Orders be modified to identify sediment chemistry or benthic monitoring being required as part of the San Diego Water Board's regulation of the sediment disposition program to assess impacts of the	The San Diego Water Board regulates the Project referenced in the comment through Clean Water Act Section 401 Water Quality Certification No. R9-2016-0111 (Certification). The Certification does not require sediment chemistry or benthic monitoring within the Pacific Ocean. The San Diego Water Board agrees that the Fact Sheets to the Tentative Orders should acknowledge the potential impact of the Project dredged material disposal operations on benthic community conditions at the SEOO benthic monitoring stations. After discussions with the Project Consultant (Chris Webb Senior Coastal Environmental Scientist, Moffatt & Nichol), the San Diego Water Board determined that the offshore dredged material areas noted in the comment are not accurate. The Project will no longer use the deposit site north of the SEOO and the deposit site south of the SEOO is not in the vicinity of the SEOO diffuser. The deposit site south of SEOO (known as SO-6) is at an ocean depth of approximately 65 feet, while the inshore end of the SEOO diffuser is at a depth of approximately 110 feet. The San Diego Water Board has deleted references in the Fact Sheets to the LA-5 ocean disposal site, which was an alternative dredged material disposal site considered in the Project Environmental Impact Report. The benthic monitoring requirements of the Tentative Orders may be used as a new "baseline" assessment of sediment quality near the SEOO to determine if benthic communities are being degraded as a result of the SEOO discharge. Impacts from deposition of dredged material from	Modified Attachment F section VII.B.3 of the Tentative Orders

No.	Comment	Response	Action Taken
	dredging and sediment relocation on sediment and habitat within the vicinity of the SEOO discharge zone. The City and the SEJPA request that the San Diego Water Board remove any reference to the disposal of any lagoon sediment at the LA-5 disposal site, which is located more than 25 miles south of the SEOO.	the Project could produce degraded benthic community conditions at monitoring stations in the vicinity of the SEOO that are not related to pollutants discharged from the SEOO. However, the sediment deposition from the Project will likely have limited or no impact on the benthic monitoring locations, as these monitoring locations are at a depth of approximately 120 feet as compared to the SO-6 site with a maximum depth of 65 feet. The City and the SEJPA will have the opportunity to demonstrate that physical disturbance from dredged material deposition was a confounding factor in assessing benthic community conditions by conducting the required data assessment in the receiving water monitoring report (see Attachment E section IV.E in the Monitoring and Reporting Programs (MRPs) of the Tentative Orders). The San Diego Water Board will also consider proposals by the City and the SEJPA to temporarily redirect benthic monitoring efforts during dredged material disposal operations to participate in the Southern California Bight Regional Monitoring Program coordinated by the Southern California Coastal Water Research Project (SCCWRP), or other regional monitoring efforts pursuant to the MRPs, Attachment E section V.B of the Tentative Orders.	
		Based on these considerations, the San Diego Water Board has modified the last paragraph of the Fact Sheets in Attachment F section VII.B.3 of the Tentative Orders as follows: Several projects that require dredging, such as the San Elijo Lagoon Restoration Project (Project)9, are planned to take place during the first three years of the five-year permit term. The Project has the potential to generate approximately 750,000 cubic yards (CY) of excess sediment through dredging operations in the San Elijo Lagoon. Dredged material from the Project will be used for onshore beach replenishment at Solana Beach and Cardiff Beach (approximately 450,000 CY) and offshore stockpiling at SO-6 (approximately 300,000 CY). The	

No.	Comment	Response	Action Taken
		SO-6 offshore stockpile site is approximately 500 feet	
		south of SEOO at a maximum depth of 65 feet. Due to	
		the large volume of sediment and close proximity of the	
		SO-6 offshore stockpile site, sediment deposition from	
		the Project has the potential to impact benthic	
		communities and alter chemical and physical properties	
		of seafloor sediments around the SEOO. However, the	
		sediment deposition from the Project will likely have	
		limited or no impact on benthic monitoring locations, as	
		these monitoring locations are at a depth of	
		approximately 120 feet as compared to the SO-6 site	
		with a maximum depth of 65 feet. Benthic monitoring	
		requirements in this Order may be used to establish a	
		new baseline for sediment quality around the SEOO to	
		determine if benthic communities are being degraded as	
		a result of the SEOO discharge. The sediment from	
		these projects will be used for beach replenishment	
		and/or disposed of at the LA-5 offshore disposal site.	
		The LA-5 disposal site is approximately 3 miles	
		northwest of the San Elijo Ocean Outfall at a depth of	
		460-660 feet. To further reduce the potential for physical	
		stressors to the benthic community from interference	
		with the dredging operations, receiving water sediment	
		monitoring may be conducted anytime within the permit	
		term, with the results due at least 180 days before the	
		permit expires. This Order requires the development of	
		a Sediment Monitoring Work Plan, which includes a	
		schedule for completion of sediment sampling and	
		submission of the results, protocols for sediment sample	
		collection and processing, and the proposed methods	
		for analyzing the sediment data and integrating the three	
		lines of evidence.	
		⁹ On June 14, 2017, the San Diego Water Board issued	
		Clean Water Act Section 401 Water Quality Certification	
		and Waste Discharge Requirements for Discharge of	
		Dredged and/or Fill Materials, San Elijo Lagoon	
		Dreugeu and/or Fili Materials, San Elijo Lagoon	

No.	Comment	Response	Action Taken
		Restoration Certification Number R9-2016-0111 WDID: 9000003036.	
3	The City and the SEJPA request the following changes to Attachment E section VI.C, 1st paragraph because "assess" is a more appropriate term, as "map" implies only a geographic plot; and "address" is a more appropriate term, as the term "answer" implies that a definitive result can be achieved within the specified study time period. Plume tracking is an ongoing program designed to assessmap dispersion and fate of the wastewater plume discharged from the San Elijo Ocean Outfall (SEOO). The plume tracking program shall be designed to addressanswer, at a minimum, the following questions:	The San Diego Water Board agrees that "assess" and "address" are appropriate terms for this section. The San Diego Water Board has modified Attachment E section VI.C, 1st paragraph as follows: Plume tracking is an ongoing program designed to assessmap dispersion and fate of the wastewater plume discharged from the San Elijo Ocean Outfall (SEOO). The plume tracking program shall be designed to addressanswer, at a minimum, the following questions:	Modified Attachment E section VI.C, 1st paragraph of the Tentative Orders
4	The City and the SEJPA state that the term "surf zone recreational areas" is preferable to "water contact recreational zones" in Attachment E section VI.C, monitoring question (1), as the Tentative Orders defines water contact recreational zones as including all waters within three nautical miles of the shore. The City and the SEJPA request the following changes to Attachment E section VI.C, monitoring question (1): Are the existing current receiving water stations monitoring-locations and methods adequate for demonstrating that to determine whether the wastewater plume is does not encroaching into surf zone recreational areas on water contact recreational zones?	the San Diego Water Board does not agree with limiting the	Modified Attachment E section VI.C, monitoring question (1) of the Tentative Orders

No.	Comment	Response	Action Taken
		monitoring locations and/or methods are more appropriate?	
5	The City and the SEJPA state that the bacteriological compliance assessments submitted by the City and the SEJPA to the San Diego Water Board which have assessed receiving water quality data collected during the past three National Pollutant Discharge Elimination System (NPDES) permit terms strongly demonstrate that monitoring data from shore stations are useful only for assessing shore-based contamination. Given this, the City and the SEJPA request the following changes to Attachment E section VI.C, monitoring question (2):	The San Diego Water Board does not agree with the modification. The intent of the question was to determine if the removal of the Surf Zone monitoring location S-6 (historical) was appropriate based off the results of the plume tracking study. Surf Zone bacteria monitoring is essential for protecting public health.	None necessary
	Is the removal of the Surf Zone monitoring location S-6 (historical) still appropriate Do any of the existing shore monitoring stations provide data that is instructive or useful relative to operation of the SEOO or the SEOO discharge?		
	The City and the SEJPA state that additional assessment can evaluate how or whether projected changes in SEOO discharge flows and discharge salinity may influence initial dilution (e.g. dilution that occurs as a result of the buoyancy and momentum of the SEOO discharge plume). Given this, the City and the SEJPA request the following changes to Attachment E section VI.C, monitoring question (3): How will the MFRO and future brine discharges (along with increased recycled water use and decreased outfall	The San Diego Water Board agrees that the brine discharges, increased recycled water use, and decreased outfall discharge flows may affect the dynamics of the wastewater plume and initial dilution. The San Diego Water Board does not agree with the removal of the brine discharges from the San Elijo Water Reclamation Facility because this brine, like the MFRO Facility brine, may also affect the dynamics of the wastewater plume and initial dilution.	Modified Attachment E section VI.C, monitoring question (3) of the Tentative Orders
6	discharge flows) affect the dynamics of the wastewater	The San Diego Water Board has modified Attachment E section VI.C, monitoring question (3) as follows: How does the brine discharge from the MFRO Facility and San Elijo Water Reclamation Facility and future brine discharges (along with increased recycled water use and decreased outfall discharge flows) affect the dynamics of the wastewater plume and initial dilution change the effluent quality and the dynamics of the wastewater plume?	

No.	Comment	Response Actio			
7	To account for sediment-laden storm flow from the lagoon during times of significant runoff, the City and the SEJPA request the following changes to Attachment E section VI.C, monitoring question (4): Does the wastewater plume have the potential to interact with wastewater plumes from other ocean outfalls or other sources of pollution-shore-based contamination that may extend outward into the SEOO discharge zone?	The San Diego Water Board agrees that the Tentative Orders should clarify the other possible sources of pollution that may interact with the wastewater plume. However, the San Diego Water Board has retained the assessment of the interaction between ocean outfalls. The Encina Ocean Outfall and the Oceanside Ocean Outfall are approximately 8 miles and 12 miles north of San Elijo Ocean Outfall, respectfully. Given the close proximity, an assessment of whether or not the wastewater plumes from the three outfalls interact with each other is a relevant consideration.	Modified Attachment E section VI.C, monitoring question (4) of the Tentative Orders		
		The San Diego Water Board has modified Attachment E section VI.C, monitoring question (4) in the MRPs of the Tentative Orders as follows:			
		Does the wastewater plume have the potential to interact with wastewater plumes from other ocean outfalls or other sources of pollution, such as storm water and outflows from the San Elijo Lagoon?			
8	The City and the SEJPA request the following changes to Attachment E section VI.C, monitoring question (5): What is the fate of the <u>diluted</u> wastewater plume in typical and atypical oceanographic conditions, <u>and when and under what conditions is the diluted and dispersed plume no longer distinguishable from ambient receiving water?</u>	The San Diego Water Board agrees that it is important to determine when and under what conditions the wastewater plume is no longer distinguishable from ambient receiving water. However, the San Diego Water Board does not agree with the terms "diluted" and "dispersed" as they are inconsistent with the terminology used in the Tentative Orders and the scientific literature, and confuse the question.	Modified Attachment E section VI.C, monitoring question (5) of the Tentative Orders		
		The San Diego Water Board has modified Attachment E section VI.C, monitoring question (5) in the MRPs of the Tentative Orders as follows:			
		What is the fate of the wastewater plume in typical and atypical oceanographic conditions, and when and under what conditions is the wastewater plume no longer distinguishable from ambient receiving water?			
9	The City and the SEJPA state that the first step in the plume tracking work plan will be to identify which monitoring parameters can be useful in tracking the SEOO plume.	The San Diego Water Board agrees that it is important to determine what parameters are most useful for assessing the presence of a wastewater plume and has added this	Added monitoring question (6) to		

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	Because of the nature of the SEOO discharge and flows, it should be noted that parameters useful for tracking the SEOO plume may be different (and perhaps less effective) than parameters used to track plumes from other Southern California outfall discharges that involve higher discharge flows or discharges that are not as highly treated as the SEOO discharge. Given this, the City and the SEJPA request the following additional monitoring question to Attachment E section VI.C. What parameters are most useful for assessing the presence of a diluted wastewater plume? question to Attachment E section VI.C, as monitoring question (6). However, the use of the term "diluted" is inconsistent with the terminology used in the Tentative Orders and in the scientific literature, and confuses the question. The San Diego Water Board has added the following monitoring question to Attachment E section VI.C, as monitoring question. The San Diego Water Board has added the following monitoring question (6) in the MRPs of the Tentative Orders: What parameters are most useful for assessing the presence of a diluted wastewater plume?		
10	oceanographic conditions will allow for improved assessment of (1) the minimum month initial dilution value (representative of atypical oceanographic conditions) assigned by the San Diego Water Board for use in assessing compliance with Ocean Plan Table 1 receiving water standards; and (2) dilution and dispersion conditions that are characteristic of		Added monitoring question (7) to Attachment E section VI.C of the Tentative Orders
11	Attachment E section VI.C.3, 1st paragraph and subsection "a" and "b": Plume Tracking Monitoring Plan (PTMP). The Discharger shall, in consultation with the San Diego Water Board, prepare and submit a PTMP to implement an ongoing program designed to evaluatemap dispersion and fate of the wastewater plume discharged from the	As noted in the response to Comment No. 3, the San Diego Water Board agrees that "assess" is a more appropriate term than "map", as map implies geographic plot. The San Diego Water Board agrees that the feasibility analyses should also include an assessment of advantages, disadvantages, and usefulness of the instillation of a permanent oceanographic mooring system. The San Diego Water Board believes the feasibility analysis should involve a permanent oceanographic mooring system	Modified Attachment E section VI.C.3, 1st paragraph and subsections "a" and "b" of the Tentative Orders

No.	Comment	Response	Action Taken
	SEOO. The PTMP shall include, but is not limited to, the following elements: a. A feasibility analysis, including an assessment of advantages, disadvantages, cost, usefulness and effectiveness for the installation and operation by the Discharger of a permanent, real-time oceanographic mooring system located near the terminal diffuser structure of the SEOO. If determined to be cost-effective and feasible for addressing the plume tracking study goals, tThe mooring system shall be designed to measure, at minimum, direction and velocity of subsurface currents, and ocean stratification. This element shall also, if applicable, include: b. A feasibility analysis, including an assessment of advantages, disadvantages, cost, usefulness and effectiveness for the development of a work plan or pilot study (special study) for utilizing advanced oceanographic sampling technologies such as an autonomous underwater vehicle (AUV) or remotely operated towed vehicle (ROTV) in conjunction with the SEOO real-time mooring system to enhance collection of water quality data in real-time and provide higher resolution maps of plume location and movement. The Discharger may collaborate with other agencies (e.g., the City of San Diego) in the development of a work plan or pilot study.	structure of the SEOO. The mooring system shall be	
		Networking the SEOO system to be compatible with a similar system being deployed by other Dischargers in the San	

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		Diego Region, as well as a third system operated by the University of California San Diego, Scripps Institution of Oceanography in the coastal waters off the City of Del Mar.				
		b. A feasibility analysis, including an assessment of advantages, disadvantages, cost, usefulness and effectiveness for the development of a work plan or pilot study (special study) for utilizing advanced oceanographic sampling technologies such as an autonomous underwater vehicle (AUV) or remotely operated towed vehicle (ROTV) in conjunction with the SEOO real-time mooring system to enhance collection of water quality data in real-time and provide higher resolution maps of plume location and movement. The Discharger may collaborate with other agencies (e.g., the City of San Diego) in the development of a work plan or pilot study.				
	The City and the SEJPA request that the San Diego Water Board delete the stray parenthesis at end of the definition for Toxicity Identification Evaluation (TIE), in Attachment A.	The San Diego Water Board has corrected the typographical error. Attachment A, definition for Toxicity Identification Evaluation (TIE) has been modified as follows:	Modified Attachment A, definition for Toxicity Identification			
12		Toxicity Identification Evaluation (TIE) A set of procedures conducted 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.	Evaluation (TIE) of the Tentative Orders			
13	The City and the SEJPA recommend adding the Water Quality Control Plan for Ocean Waters of California, California Ocean Plan (Ocean Plan) definition for "Zone of Initial Dilution" to Attachment A.	The Ocean Plan does not contain a definition for "Zone of Initial Dilution." However, the Ocean Plan does include a definition for "Initial Dilution," which has already been included in Attachment A of the Tentative Orders.	None necessary			
14	The City and the SEJPA request that the San Diego Water Board change the sampling method for dichlorobromomethane from "24-hour composite" to "grab"	The San Diego Water Board agrees that a grab sample is appropriate for volatile organic compounds and has modified the MRPs, Attachment E section III.B.3, Table E-5	Modified Attachment E section III.B.3, Table E-5 of			

No.	Comment	Response				Action Taken	
	because dichlorobromomethane is a volatile organic compound, assessed using EPA Method 624.		of Tentative Order No. R9-2018-0002 and Table E-3 of Tentative Order No. R9-2018-0003 as requested:			Tentative Order No. R9-2018- 0002 and Table	
			Parameter	Sample Type	E-3 of Tentative		
			Dichlorobromomet hane	μg/L	Grab 24 hour Composite	Order No. R9- 2018-0003	
15	The City and the SEJPA request the following changes to Attachment E section III.C.4, 2 nd paragraph: Species sensitivity rescreening is required every 24 months if there has been discharge during dry weather condition. If the discharge has been intermittent and occurs only during wet weather, rescreening is not required. If rescreening is required, tThe discharger shall rescreen with the marine	does SEC MRF S m	San Diego Water Beson not apply to the Cipo and has modified and has modified pecies sensitivity reports. If there has been andition. If the dischedure only during we required. If rescreening screen with the magnetic screen with the magnetic screen.	Modified Attachment E section III.C.4 of the Tentative Orders			
16	The City and the SEJPA request the following changes to Attachment E section III.C.8.c, because the City and the SEJPA is not in charge of pollution prevention and storm water control programs, and thus cannot always dictate coordination terms: Many recommended TRE elements parallel required or recommended efforts for source control, pollution prevention, and storm water control programs. Whenever possible, TRE efforts should be coordinated with such efforts.	SEJ the f M re p	San Diego Water BPA and has modified MRPs of the Tentation lany recommended ecommended efforts revention, and storn cossible, TRE efforts fforts.	Modified Attachment E section III.C.8.c of the Tentative Orders			
17	In Attachment E section IV.A, Table E-7, the City and the SEJPA request that repeat sampling after a single sample exceedance not be required if the exceedance occurred within 48-hours of a rain event. Historical data indicate that storm water runoff is the cause of bacteriological contamination in the surf zone during and after storm events.	shou rain sect R9-2 No.	uld not be required i event and has mod ion IV.A.1, Table E- 2018-0002 and Tabl R9-2018-0003 as fo a single sample expansimum bacterial si	f the sou ified the 7 footnot le E-4 fo bllows: ceeds andards	rees that repeat sampling arce of the exceedance is a MRPs, Attachment E ate 3 of Tentative Order No. Tentative Order of the single sample as contained in section at sampling at that location	Modified Attachment E section IV.A.1, Table E-7 footnote 3 of Tentative Order No. R9-2018- 0002 and Table E-4 footnote 3 of Tentative	

No.	Comment Response			
		shall be conducted to determine the extent and persistence of the exceedance. Repeat sampling shall be conducted within 24 hours of receiving analytical results and continued until the sample result is less than the single sample maximum standard or until a sanitary survey is conducted to determine the source of the high bacterial densities. When repeat sampling is required because of an exceedance of any one single sample density, results from all samples collected during that 30-day period will be used to calculate the 30-day geometric mean. If the source of the bacterial exceedance is due to a rain event, the Discharger may cite this source in the "sanitary survey" and in such cases not conduct the repeat sampling.	Order No. R9- 2018-0003	
18	The City and the SEJPA request the following correction: remove the reference to "chlorophyll a" in Attachment E section IV.B, Table E-8 footnote 4, first sentence.	The San Diego Water Board has modified MRPs, Attachment E section IV.B, Table E-8 footnote 4 of Tentative Order No. R9-2018-0002 and Table E-5 footnote 4 of Tentative Order No. R9-2018-0003 as requested: Temperature, depth, salinity, dissolved oxygen, light transmittance, and pH, and chlorophyll a profile data shall be measured throughout the entire water column using a CTD profiler during the quarterly sampling events. 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).	Modified Attachment E section IV.B, Table E-8 footnote 4 of Tentative Order No. R9-2018- 0002 and Table E-5 footnote 4 of Tentative Order No. R9- 2018-0003	
19	The City and the SEJPA request that Attachment E section IV.D.1, Table E-10 clarify the exact sampling requirements regarding "grabs" and "cores".	The number of sediment cores is dependent on the number of diver survey transects that are in sandy areas. The San Diego Water Board has clarified the sampling requirements of "4 Transects / Station" in in the MRPs, Attachment E section IV.D.1, Table E-10 of Tentative Order No. R9-2018-0002 and Table E-7 of Tentative Order No. R9-2018-0003 as follows:	Modified Attachment E section IV.D.1, Table E-10 of Tentative Order No. R9-2018- 0002 and Table E-7 of Tentative Order No. R9- 2018-0003	

No.	Comment		Response				Action Taken
			Parameter	Units	Sample Type	Sampling Frequency	
			Biological Transects	Identification and enumeration	4 Grabs Transects / Station	Once During The Permit Term	
20	The City and the SEJPA request the following changes to Attachment E section VI.A, first sentence. The change accounts for existing climate action plan (or plans). The discharger shall prepare and submit a Climate Change Action Plan (CCAP) within three years of the effective date of this order.	c M th	hange is unne IRPs of the Te	Water Board be ecessary. Attach entative Orders a nake use of exis	ment E sectionalready allows	on VI.A in the sthe City and	None necessary
21	The City requests that the San Diego Water Board remove the requirement to maintain in good working order a sufficient alternate power source for operating the Membrane Filtration/Reverse Osmosis (MFRO) Facility, because the MFRO Facility is a "scalping" facility that provides additional treatment for a portion of the Hale Avenue Resource Recovery Facility (HARRF) tertiary-treated wastewater.	re N re fr re th se d N T d d file W th P w	equirement for MFRO Facility estricted section HARRF the egulated througher SEOO. Dureveral episode xceeded the coischarge efflumarch 1995, Jack City applies ischarge tertial uring periods ows from HAFVet Weather Fine effluent limited effluent limited estables.	on of the SEOO prough the Escologh a flow contrologh a flow contrologh a flow contrologh when the Escologh and receive any-treated efflue when significant RF to exceed the ermit)1. The City attaitions in the Escon the City's predido Wet Weather Secondary 1997, and for and receive when significant the Escondary 1997, and for and receive when significant the Escondary 1997, and the Esconda	wer source for Order. To profer rupture, ndido Land O I station prior, the City has uent flows from d the City wadido Creek (ind January/Feled an NPDES ent to Esconding precipitation he outfall systom, however, is condido Wet ferred methoer Permit, the	or operating the otect a pressure-effluent flows utfall (ELO) are to discharge to experienced m HARRF s forced to n January 1993, bruary 2005). Sepermit to ido Creek causes effluent em (Escondido unable to meet Weather d of compliance	None necessary

¹ On June 24, 2015, the San Diego Water Board adopted Order No. R9-2015-0026, NPDES Permit No. CA0108944, *Waste Discharge Requirements for the City of Escondido, Hale Avenue Resource Recovery Facility, Intermittent Wet Weather Discharge to Escondido Creek, San Diego County.*

No.	Comment	Response	Action Taken
		discharge to Escondido Creek (TSO) ² . The MFRO Facility is included in the TSO section B, <i>Compliance Schedule</i> , to terminate discharge to Escondido Creek. Based on this information, the MFRO Facility is a critical facility during wet-weather events and thus must have a sufficient alternate power source in the event of a power outage during a wet-weather event.	
	The City requests that the San Diego Water Board delete section VI.C.5.b.vii of the Tentative Order, because this section is a repeat of section VI.C.5.b.v.	The San Diego Water Board agrees that section VI.C.5.b.vii of the Tentative Order is unnecessary and has deleted the section from the Tentative Order as follows:	Deleted section VI.C.5.b.vii
		v. The Discharger shall provide a written technical evaluation of the need to revise local limits under 40 CFR section 403.5(c)(1) following permit reissuance (40 CFR section 122.44(j)(2)(ii)).	
22		vi. The Discharger shall continue with its implementation of a Non-Industrial Source Control Program, consisting of a public education program designed to minimize the entrance of non-industrial toxic pollutants and pesticides into the sanitary sewer system. The Program shall be reviewed periodically and addressed in the annual report required under Section VI.C.5.c.iv.	
		vii. The Discharger shall provide a written technical evaluation of the need to revise local limits under 40 CFR 403.5(c)(1) following permit reissuance (40 CFR 122.44(j)(2)(ii)).	
23	The City requests that the San Diego Water Board add a footnote to Table E-4, which states that monitoring at Monitoring Location EFF-002 is to commence once MFRO operations are initiated, because the MFRO Facility is not yet constructed.	The San Diego Water Board does not believe that the requested change is necessary, and including such a footnote could cause some confusion as the MFRO Facility is brought on line. Rather than adding the suggested footnote, the San Diego Water Board recommends that the City report zero discharge prior to construction and	None necessary

² On June 24, 2015, the San Diego Water Board adopted Time Schedule Order No. R9-2015-0027 Requiring The City of Escondido Hale Avenue Resource Recovery Facility To Comply With Requirements Prescribed In Order Number R9-2015-0026 NPDES Permit No. CA0108944.

No.	Comment	Action Taken					
		whenever the MFRO Facility is not in operation. Monitoring for the parameters listed in Table E-4 of the Tentative Order is not required when the discharge flow is zero.					
	The City requests the following corrections to Attachment F section II, last sentence:	The San Diego Water Board has modified Attachment F section II of the Tentative Order as requested:	Modified Attachment F				
	agricultural demands, would be blended with a quantity of HARRF disinfected tertiary-treated recycled water to produce	The proposed MFRO Facility would be sized to produce 2 MGD of MFRO product water, which depending on agricultural demands, would be blended with a quantity of HARRF disinfected tertiary-treated recycled water to produce a final agricultural reuse supply that will typically meet an agricultural supply total dissolved solidschloride target criterion of 60080 milligrams per liter or less, when practical.	section II				
	The City requests the following corrections to Attachment F section II.E, sixth bullet item:	The San Diego Water Board has modified Attachment F section II.E of the Tentative Order as requested:	Modified Attachment F				
25	Constructing a <u>1546</u> -inch-diameter brine line to convey RO reject (waste brine) from the proposed MFRO Facility (and from existing or future industrial customers) to the Discharger's Industrial Brine Collection System (IBCS) and then to the SEOO (Phase IV of the TSO).	Constructing a 4615-inch-diameter brine line to convey RO reject (waste brine) from the proposed MFRO Facility (and from existing or future industrial customers) to the Discharger's Industrial Brine Collection System (IBCS) and then to the SEOO (Phase IV of the TSO).	section II.E				
	Robert Win, Environmental Scientist, California Department of Fish and Wildlife; written comment dated February 5, 2018						
26	Mr. Win commented on Attachment E section IV.D.2.c.ii. regarding the species of rockfish targeted for fish tissue analysis. Mr. Win stated that the density of copper rockfish is	The San Diego Water Board has removed copper rockfish (Sebastes caurinus) as a targeted species for fish tissue analysis. To decrease potential bycatch and incidental mortality associated with the increased fishing effort to target a specific species, the language has been modified to	Modified Attachment E section IV.D.2.c.ii of the Tentative Orders				
		The San Diego Water Board has modified Attachment E section IV.D.2.c.ii in the MRPs of the Tentative Orders as follows:					
		ii. Rockfish (Sebastes spp.), excluding species restricted by the California Department of Fish and Wildlife					

No.	Comment	Response	Action Taken
		including but are not limited to the vermilion rockfish (Sebastes miniatus) and the copper rockfish (Sebastes caurinus). If sufficient numbers of these primary species rockfish are not present or cannot be caught in a particular zone, secondary target species (e.g., other rockfish, scorpionfish) may be collected and analyzed as necessary.	