

Item No. \*6

October 30, 2015

**ERRATA SHEET**

**CHANGES TO ORDER NO. R8-2015-0027  
NPDES NO. CA0105619**

**WASTE DISCHARGE REQUIREMENTS AND MASTER RECLAMATION PERMIT  
FOR THE  
YUCAIPA VALLEY WATER DISTRICT  
HENRY N. WOCHHOLZ REGIONAL WATER RECYCLING FACILITY  
SAN BERNARDINO COUNTY**

(Language deleted is ~~struck through~~)  
(Language added is **bold and shaded**)

A. Based on the October 22, 2015 and October 23, 2015 e-mails and supporting documentation submitted by the Yucaipa Valley Water District (attached), staff recommends the following modifications:

1. Order No. R8-2015-0027, page 7 of 28 – Modify the first paragraph of section IV.A.1.d as follows:

For flows up to 1.6<sup>1</sup> million gallons per day (MGD), the annual volume- weighted average TDS concentration of the discharge shall not exceed 400 mg/L. ~~The Discharger is obligated to maintain 1.6 mgd annual average discharge to the Creek to support existing riparian habitat (State Board Order No. WW-26).~~ The Discharger shall notify the Regional Board when the habitat monitoring program adaptive management action levels are triggered that require discharge in excess of 1.6 mgd **MGD** annual average.

2. Order No. R8-2015-0027, page 8 of 28 – Modify the first paragraph of section IV.A.1.e as follows:

For flows up to 1.6 MGD, the annual volume weighted average TIN concentration of the discharge shall not exceed 6.7 mg/L. ~~The Discharger is obligated to maintain 1.6 mgd annual average discharge to the Creek to support existing riparian habitat (State Board Order No. WW-26).~~ The Discharger shall notify the Regional Board when the habitat monitoring

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<sup>1</sup> A baseline annual average of 1.6 mgd will be released as part of adaptive management activities pursuant to the Habitat Monitoring Program for San Timoteo Creek, Yucaipa Valley Water District, Dudek & Associates, October 2005.

program adaptive management action levels are triggered that require discharge in excess of the 1.6 mgd **MGD** annual average.

3. Order No. R8-2015-0027, Attachment F – Fact Sheet, page F-6 - Modify the second and third paragraphs of section II.B.1 as follows:

The Discharger is obligated to maintain **release an annual average of 1.6 mgd MGD** discharge to the Creek to support existing riparian habitat (~~State Board Order No. WW-26~~) **(Habitat Monitoring Program for San Timoteo Creek, Yucaipa Valley Water District, Dudek & Associates , October 2005)** The Discharger may fulfill this obligation by using either groundwater or imported State Project Water.

The Discharger is implementing a habitat monitoring program that identifies conditions that may require discharges to the Creek ~~beyond the 1.6 mgd annual average~~. The Discharger is required to notify the Regional Board when adaptive management measures are triggered that requires release in excess of the 1.6 mgd annual average. Discharges into San Timoteo Creek consistent with the habitat monitoring program may not exceed the maximum benefit objectives for TDS and TIN.

4. Order No. R8-2015-0027, Attachment F – Fact Sheet, page F-7 - Modify the second paragraph of section II.B.2 as follows:

This Order regulates the use of recycled water for landscape irrigation of golf courses, parks, schools, highways, agricultural crops, etc. The use of recycled water for groundwater recharge has also been proposed. However, this Order will need to be modified, or a new Order will need to be considered by the Regional Water Board before any groundwater recharge projects utilizing recycled water can be implemented. ~~Currently, recycled water is delivered only to a few orchards near the Facility.~~ **The Discharger's recycled water system currently serves numerous customers in Yucaipa and Calimesa.**

5. Order No. R8-2015-0027, Attachment F – Fact Sheet, page F-25 - Modify section IX.B.5.c as follows:

Pretreatment: The treatment plant capacity is ~~6.7~~ **8.0** mgd **MGD** and there are significant industrial users within the service areas. Consequently, this Order contains requirements for the implementation of an effective pretreatment program pursuant to Section 307 of the Federal Clean Water Act; Parts 35 and 403 of Title 40, Code of Federal Regulations (40 CFR 35 and 40 CFR 403); and/or Section 2233, Title 23, California Code of Regulations.

- B. The requirements in YVWD's previous permit, R8-2007-0012, regarding effluent limitations for secondary treated surface water discharges under conditions of 20:1 dilution of the wastewater by natural receiving water for Discharge Point 001 (DP-

001) were inadvertently omitted in previous drafts of the tentative Order. Based on the October 23, 2015 e-mail submitted by the Yucaipa Valley Water District (attached), staff recommends the following modifications to re-instate the previous permit specifications for 20:1 dilution at Discharge Point 001 (DP-001) and allow similar provisions for Discharge Point 003 (DP-003):

6. Order No. R8-2015-0027, pages 6 and 7 of 28 – Add Section IV.A.1.b as follows:

**b. Physical/Biological/Chemical Limitations (Under Conditions of 20:1 or More Dilution in the Receiving Water):**

- 1) Whenever the flow in San Timoteo Creek, measured at monitoring locations M-001A and M-001B, as described in the MRP (Attachment E), results in a dilution of 20:1 (receiving water flow : wastewater flow) or more, the Discharger shall comply with the following effluent limitations in lieu of those specified in Effluent Limitation IV.A.1.a, above:

**Table 6. Effluent Limitations at DP-001 and DP-003 With 20:1 Dilution**

Parameter	Units	Effluent Limitations		
		Average Monthly	Average Weekly	Daily Maximum
Biochemical Oxygen Demand 5-day @ 20°C	mg/L (lbs/day)	30 (2002)	45 (3002)	--
Total Suspended Solids	mg/L (lbs/day)	30 (2002)	45 (3002)	--
Ammonia-Nitrogen	mg/L (lbs/day)	4.5 (300)	--	--
Bis(2-ethylhexyl) phthalate	µg/L (lbs/day)	5.9 (.39)	--	11.8 (0.79)

- 2) The weekly median number of coliform bacteria shall not exceed a median of 23 per 100 milliliters as determined from the daily coliform bacteria values for the last seven (7) days. To comply with this limit, the 7-day median MPN must not exceed 23 per 100 milliliters on any day during the week. However, only one violation is recorded for each calendar week, even if the 7-day median MPN value is greater than 23 for more than one day in the week.

7. Order No. R8-2015-0027, Attachment E – Monitoring and Reporting Program, page E-8 – Add the following paragraph as section IV.B:

**B. Secondary Effluent Monitoring Location for DP-001 and DP-003 with 20:1 Dilution**

**If the Discharger wants to take credit for the 20:1 dilution, the Discharger should record the start and end time of the secondary treated effluent discharge and the flow rate upstream of the discharge point. The effluent monitoring shall be the same as specified in Table 4, above.**

8. Order No. R8-2015-0027, Attachment E – Monitoring and Reporting Program, page E-11 – Add the following paragraph as section VIII.A:

**A. Monitoring During 20:1 Dilution:**

**The Discharger shall make provisions for the measurement of the receiving water flow at a suitable location in the San Timoteo Creek and determine whether a 20:1 dilution exists at the point of discharge before discharging secondary treated effluent. A dilution of 20: 1 or more exclusive of discharges to surface waters from upstream publicly owned treatment works is required at the point of discharge for discharge of secondary effluent. Flow measurements shall be made prior to any direct discharge to the creek and shall continue on a daily basis until the discharge is terminated.**

9. Order No. R8-2015-0027, Attachment F – Fact Sheet, page F-14 - Modify section IV.B.2. as follows:

~~As noted in section IV.C.2.4., below, tertiary treatment is required to protect beneficial uses of San Timoteo Creek. The technology-based limits, more restrictive than the above-mentioned federal standards for BOD5 and TSS, which are based on BPJ for levels achievable with tertiary treatment, summarized in the Table below are applicable.~~

**This Facility meets the technology-based regulations for the minimum level of effluent quality attainable by secondary treatment in terms of BOD5, total suspended solids, percent removal rate, and pH as summarized in Table 7, below. These effluent limitations are applicable for discharges to Discharge Point 001 and Discharge Point 003 under conditions of 20:1 dilution provided by natural flow in San Timoteo Creek.**

**Table 7. Summary of Technology-Based Effluent Limits for Tertiary Secondary Treatment**

Constituent	Average Weekly (mg/L)	Average Monthly (mg/L)	Average Monthly Removal Rate %
Biochemical Oxygen Demand, 5-day 20°C	45 <del>30</del>	30 <del>20</del>	85
Total Suspended Solids	45 <del>30</del>	30 <del>20</del>	85

The federal secondary treatment standard for pH to be in the range of 6 – 9 su and the removal rate requirement of 85% of the BOD<sub>5</sub> and TSS from the influent flow are also applicable to this discharge.

10. Order No. R8-2015-0027, Attachment F – Fact Sheet, page F-15 – Add the following as second paragraph to section IV.C.1:

**As noted in section IV.C.2.c., below, tertiary treatment is required to protect beneficial uses of San Timoteo Creek when 20:1 dilution conditions are not present. The technology-based limits, more restrictive than the above-mentioned federal standards for BOD<sub>5</sub> and TSS, which are based on BPJ for levels achievable with tertiary treatment, summarized in the Table below are applicable.**

**Table 8. Summary of Technology-Based Effluent Limits for Tertiary Treatment**

Constituent	Average Weekly (mg/L)	Average Monthly (mg/L)	Average Monthly Removal Rate %
Biochemical Oxygen Demand, 5-day 20°C	30	20	85
Total Suspended Solids	30	20	85

11. Order No. R8-2015-0027, Attachment F – Fact Sheet, page F-17 – Add section IV.C.2.d as follows:

**d. Discharge of secondary treated and disinfected wastewater when the natural flows in the Creek provide at least 20:1 dilution:**

**The Department of Health Services has determined that public health and water contact recreation (REC-1) beneficial uses will be protected provided that at least 20:1 dilution of secondary treated and disinfected wastewater discharges by natural receiving waters is achieved ("Wastewater Disinfection Guidelines Feb. 1987; these guidelines are based on sound**

science and are widely used as guidance to assure public health and beneficial use protection).

San Timoteo Creek and the Santa Ana River are not naturally perennial. In dry weather, flow in the Creek and Santa Ana River is comprised predominantly of effluent discharges from municipal wastewater treatment facilities (POTWs), and very little natural flow exists. Under storm conditions, 20:1 (natural receiving waters to effluent) dilution of the effluent by storm flows may be provided. These storm conditions may also threaten the operational safety of the wastewater treatment facility through influx of infiltrated storm flows into the sanitary sewer system. The discharge of secondary effluent when 20:1 dilution is provided by the receiving waters may be necessary to protect the integrity of these facilities.

Based on best professional judgment of the effluent limitations necessary to prevent nuisance and to assure public health and REC-1 use protection, and taking into consideration the need to protect the integrity of the treatment works, it is appropriate to implement these guidelines in this Order. Accordingly, this Order specifies requirements based on secondary treatment for surface water discharges under conditions of 20:1 dilution of the wastewater by natural receiving waters.

(October 30, 2015, Item 6)

**RESPONSE TO COMMENTS  
ON THE  
TENTATIVE WASTE DISCHARGE REQUIREMENTS ORDER NO. R8-2015-0027  
AND  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT  
(NPDES NO. CA0105619),  
FOR THE  
YUCAIPA VALLEY WATER DISTRICT  
HENRY N. WOCHHOLZ REGIONAL WATER RECYCLING FACILITY  
SAN BERNARDINO COUNTY**

Comments were received from the following entities:

1. Yucaipa Valley Water District (YVWD)
2. Orange County Water District (OCWD)

**1. Yucaipa Valley Water District Comments:**

Comments from YVWD were received via electronic mail on October 22, October 23, and October 27, 2015. The e-mails and supporting information are attached. Most of the comments that were addressed via an Errata Sheet and recommended for incorporation into the Order do not require a response to comment except for the comment received on October 27, 2015.

**Comment:**

While the maximum benefit objectives and permit limits are based on a discharge of 1.6 million gallons per day for TDS compliance, the adaptive management plan for the habitat in San Timoteo Creek does not specifically require the discharge of 1.6 million gallons per day.

**Response:**

The Adaptive Management Plan, page 23, Section 6, item 4, of the Habitat Monitoring Program for San Timoteo Creek, Yucaipa Valley Water District, Dudek & Associates, October 2005 specifies that an annual average of 1.6 MGD will be released. However, the document also states that the daily volume discharge may vary based on certain conditions. The errata sheet will clarify that the 1.6 MGD discharge is an annual average.

**2. Orange County Water District Comments:**

Comments from OCWD were transmitted via electronic mail on October 27, 2015 and are attached.

**Comment Summary: Order, Section IV.B.2:**

OCWD is concerned that a 10-year averaging period for TDS concentration could be viewed as setting a new precedent for how other discharge permits in the Santa Ana Watershed are structured. OCWD is concerned that a 10- year averaging period could result in an exceedance of the annual water quality objective and thus could conflict and result in compliance problems with the Regional Board's Basin Plan.

**Response**

The requirement in the Order for Total Dissolved Solids (TDS) discharges into San Timoteo Creek is consistent with the TDS averaging period for TDS specified for YVWD (and the City of Beaumont) in Table 5-9b, San Timoteo Groundwater Management Zone Maximum Benefit Commitments, Attachment to Resolution No, 2014-0005. Specifically, Table 5-9b states, "The recharge of recycled water in the San Timoteo Groundwater Management Zone or discharge to San Timoteo Creek to maintain the riparian habitat shall be limited to the amount that can be blended with other recharge sources or reverse osmosis diluent to achieve a 10-year running average equal to or less than the 400 mg/L "maximum benefit" TDS objective and less than or equal to the 5 mg/L nitrate-nitrogen "maximum benefit" objective (taking the nitrogen loss coefficient into consideration)."

## **Gaslan, Milasol@Waterboards**

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**From:** Joseph Zoba <jzoba@yvwd.dst.ca.us>  
**Sent:** Tuesday, October 27, 2015 9:39 AM  
**To:** Gaslan, Milasol@Waterboards; Kevin King  
**Cc:** Smythe, Hope@Waterboards; Amin, Najah@Waterboards; Jack Nelson  
**Subject:** RE: YVWD permit  
**Attachments:** R8-2015-0027-YVWD-Errata.pdf

Milasol – Thank you again for your assistance with our permit.

I would recommend one slight change to the Errata Sheet on page 1. While the maximum benefit objectives and permit limits are based on a discharge of 1.6 million gallons for TDS compliance, the adaptive management plan for the habitat in San Timoteo Creek does not specifically require the 1.6 million gallons per day.

Therefore, I deleted the term “1.6 mgd discharge” since it was directly related to the habitat mitigation. However, I understand that this flow rate will be used to calculate the TDS objectives for the operation of the desalination facility.

Thank you again for your help.

Joe

**Joseph B. Zoba, General Manager**

Yucaipa Valley Water District  
12770 Second Street  
Yucaipa, California 92399  
(909) 797-5119 x2

## **Gaslan, Milasol@Waterboards**

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**From:** Kevin King <kking@yvwd.dst.ca.us>  
**Sent:** Friday, October 23, 2015 8:08 AM  
**To:** Gaslan, Milasol@Waterboards; Joseph Zoba  
**Cc:** Smythe, Hope@Waterboards; Amin, Najah@Waterboards; Jack Nelson  
**Subject:** RE: YVWD permit

Good Morning Milasol

Could we please add the language for discharges to DP-001 and DP-003 for conditions of 20:1 or more dilution to this permit. The language for this in our current permit is on page 17 item number 4.

Thank You  
Kevin

## Gaslan, Milasol@Waterboards

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**From:** Joseph Zoba <jzoba@yvwd.dst.ca.us>  
**Sent:** Thursday, October 22, 2015 9:59 AM  
**To:** Gaslan, Milasol@Waterboards  
**Cc:** Smythe, Hope@Waterboards; Amin, Najah@Waterboards; Jack Nelson; Kevin King  
**Subject:** RE: YVWD permit  
**Attachments:** YVWD Comments - R8-2015-0027.pdf

Milasol – I would appreciate your review and consideration of the following modifications to the Yucaipa Valley Water District permit prior to the adoption of R8-2015-0027 :

1. **Page 7 of 29** – Please delete the sentence regarding the obligation to maintain 1.6 mgd annual average discharge to San Timoteo Creek. The District will be implementing an adaptive management program, but the District needs to maintain the ability to eliminate the discharge of recycled water to the Creek (pursuant to WW-26) and replace the flows with other sources of water. Supporting documentation of WW-26 is attached for your review.
2. **Page F-6** – Please delete the reference to the 1.6 mgd annual discharge.
3. **Page F-7** – The District's recycled water system currently serves numerous customers in Yucaipa and Calimesa.
4. **Page F-25** – The capacity of the wastewater treatment plant is 8.0 mgd.

Thank you for your assistance with this permit.

Joe

**Joseph B. Zoba, General Manager**

Yucaipa Valley Water District  
12770 Second Street  
Yucaipa, California 92399  
(909) 797-5119 x2

#### IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

##### A. Effluent Limitations – Discharge Points 001 and 003

Unless otherwise specifically specified hereinafter, compliance with the following effluent limitations is measured at monitoring location M-001 as described in the attached Monitoring and Reporting Program (Attachment E).

##### 1. Effluent Limitations

The Discharger shall comply with the following:

##### a. Physical/Biological/Chemical Limitations

**Table 5. Effluent Limitations at DP-001 and DP-003**

Parameter	Units	Effluent Limitations		
		Average Monthly	Average Weekly	Daily Maximum
Biochemical Oxygen Demand 5-day @ 20°C	mg/L (lbs/day)	20 (1334)	30 (2002)	--
Total Suspended Solids	mg/L (lbs/day)	20 (1334)	30 (2002)	--
Ammonia-Nitrogen	mg/L (lbs/day)	4.5 (300)	--	--
Bis(2-ethylhexyl) phthalate	µg/L (lbs/day)	5.9 (.39)	--	11.8 (0.79)

##### b. Percent Removal:

The average monthly percent removal of BOD 5-day 20°C and total suspended solids shall not be less than 85 percent.

##### c. Total Dissolved Solids (TDS) Limitations

For flows up to 1.6<sup>1</sup> million gallons per day (MGD), the annual volume-weighted average TDS concentration of the discharge shall not exceed 400 mg/L. ~~The Discharger is obligated to maintain 1.6 mgd annual average discharge to the Creek to support existing riparian habitat (State Board Order No. WW-26). The Discharger shall notify the Regional Board when the habitat monitoring program~~

Delete Sentence ->

<sup>1</sup> A baseline annual average of 1.6 mgd will be released as part of adaptive management activities pursuant to the Habitat Monitoring Program for San Timoteo Creek, Yucaipa Valley Water District, Dudek & Associates, October 2005, #

This is the supporting text for WW-26 that does not require 1.6 MGD in the creek. The adaptive management plan may use other sources of water instead of a discharge of recycled water to San Timoteo Creek.

STATE OF CALIFORNIA  
STATE WATER RESOURCES CONTROL BOARD  
**DIVISION OF WATER RIGHTS**

**ORDER**

Application WW-26 Permit \_\_\_\_\_ License \_\_\_\_\_

**ORDER APPROVING CHANGE IN POINT OF DISCHARGE,  
PLACE OF USE, PURPOSE OF USE  
OF TREATED WASTEWATER**

**WHEREAS:**

1. Treated Wastewater change petition WW-26 was filed by the Yucaipa Valley Water District (District) on March 14, 1995 pursuant to Sections 1210 and 1211 of the California Water Code.
2. The change petition was filed with the State Water Resources Control Board (SWRCB) to obtain approval under Sections 1211 and 1700 of the California Water Code to change the point of discharge, place of use and purpose of use of up to 6,723 acre-feet of treated wastewater discharged from the Henry N. Wochholz Wastewater Treatment Plant to San Timoteo Creek tributary to Santa Ana River in San Bernardino and Riverside Counties.
3. In order to protect downstream riparian wildlife habitat in San Timoteo Creek, terms and conditions should be included in this Order.
4. The SWRCB has determined that the petitioned changes do not constitute the initiation of a new right nor operate to the injury of any other lawful user of water.
5. The SWRCB has determined that good cause for the change(s) has been shown.

**NOW, THEREFORE, IT IS ORDERED THAT:**

1. The source of treated wastewater is the Henry N. Wochholz Wastewater Treatment Plant discharging to San Timoteo Creek tributary to Santa Ana River in San Bernardino and Riverside Counties, within the NW¼ of NW¼ of Section 19, T2S, R2W, SBB&M; California Coordinate System, Zone 6, North 663,250, East 1,732,000. (0000001)  
(0000002)
2. The Purpose of Use shall be Irrigation. (0000003)
3. The Place of Use shall be within the areas set forth in the Yucaipa Valley Water District's Reclamation Master Plan, dated November 1993. (0000004)
4. For the protection of downstream riparian wildlife habitat in San Timoteo Creek, District shall implement the following mitigation measures:
  - a. During the period of five consecutive 12-month periods following the month this Order was approved, the District shall make a gradual reduction in the minimum amount of treated wastewater effluent

discharged to San Timoteo Creek from the Henry N. Wochholtz Waste Water Treatment facility. The discharge reduction shall meet the following criteria:

<u>12-Month Period Following Month this Order Approved</u>	<u>Minimum 7-Day Average Discharge for the 12-Month Period</u>
First	1.9 mgd (2.9 cfs)
Second	1.0 mgd (1.6 cfs)
Third	0.5 mgd (0.8 cfs)
Fourth	0.2 mgd (0.3 cfs)
Fifth	0.1 mgd (0.2 cfs)
 <u>61 Months Following Month this Order Approved</u>	 0.0 mgd (0.0 cfs)

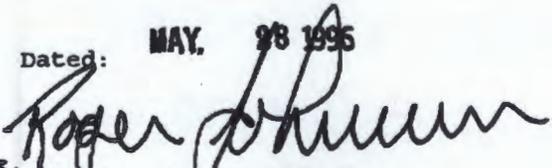
Furthermore, at no time during this consecutive five-year period shall the minimum daily discharge be allowed to drop below 0.1 mgd (0.2 cfs). Within 60 days after the completion of each 12-month period, the District shall submit a report to the Chief, Division of Water Rights, confirming that the above criteria have been met. At the completion of sixty (60) months after this Order is approved by the Division of Water Rights, the District shall not be required to maintain a minimum flow to San Timoteo Creek.

- b. Within 90 days from the date of this Order, the District shall submit to the Chief, Division of Water Rights and the Department of Fish and Game (DFG), a report which provides a quantitative, baseline assessment of the riparian wildlife habitat existing in San Timoteo Creek between the point of discharge from the Henry N. Wochholtz Waste Water Treatment facility and Alessandro Road. The report shall place particular emphasis on the riparian habitat that may be utilized by the endangered least Bell's Vireo (*Vireo bellii pusillus*). The report shall be prepared by a qualified biologist acceptable to the Chief, Division of Water Rights. Within 90 days after the completion of each of the 12-month periods identified in part a. above, the District shall submit to the Chief, Division of Water Rights and the DFG a subsequent report which repeats the quantitative, riparian wildlife habitat assessment conducted for the first (baseline) report and determine whether or not the riparian wildlife habitat has been significantly reduced below the baseline level established in the first report. The subsequent reports shall be prepared by a qualified biologist acceptable to the Chief, Division of Water Rights. If any of the subsequent reports indicate that available riparian wildlife habitat has been reduced significantly below the baseline level due to the gradual reduction in the amount of effluent discharged as stated above, the District shall confer with the DFG to consider feasible additional measures the District could undertake to restore the lost riparian wildlife habitat. Thereafter, the District shall advise the Chief, Division of Water Rights on any additional measures it undertakes to restore the lost riparian wildlife habitat.

(0400500)  
(0490500)

Dated:

MAY. 28 1995

  
Edward C. Anon, Chief  
Division of Water Rights

The Discharger is obligated to maintain 1.6 mgd discharge to the Creek to support existing riparian habitat (State Board Order No. WW-26). The Discharger may fulfill this obligation by using either groundwater or imported State Project Water.

The Discharger is implementing a habitat monitoring program<sup>1</sup> that identifies conditions that may require discharges to the Creek ~~beyond the 1.6 mgd annual average~~. The Discharger is required to notify the Regional Board when adaptive management measures are triggered that requires release in excess of the 1.6 mgd annual average. Discharges into San Timoteo Creek consistent with the habitat monitoring program may not exceed the maximum benefit objectives for TDS and TIN.

**Table 4. Summary of Discharge Points**

Discharge Point	Latitude	Longitude	Description and Receiving Waters	Flow & Frequency
001 & 003	33°59'11"N 34°00'08"N	117°08'04"W 117°09'52"W	To San Timoteo Creek (Reach 3), then to Reach 5 of Santa Ana River; (Recharge from the Creek affects the San Timoteo Groundwater Management Zone)	Tertiary treated and disinfected Continuous (existing); current flow averages 3.72 mgd
002	34°00'27"N	117°05'53"W	Recycled Water Pump Station to the Non-potable Water Distribution System; Yucaipa, San Timoteo, and Beaumont Groundwater Management Zones	Recycled Water Varies

**2. Recycled Water Uses:**

The Discharger plans to use recycled water within the Discharger's service area as well as in neighboring areas. Potential future recycled water users include the City of Redlands, City of Loma Linda, Eastern Municipal Water District, and Beaumont-Cherry Valley Water District. A watershed-scale water resources management plan has been developed by the Discharger and former members of the San Timoteo Watershed Management Authority (City of Beaumont, Beaumont-Cherry Valley Water District and South Mesa Water Company) to assure reliable water supply. The Discharger is in the process of implementing this plan, which will include enhanced use of recycled water, as well as recharge of stormwater, optimizing direct use of recycled water and imported water, and conjunctive use.

This Order regulates the use of recycled water for landscape irrigation of golf courses, parks, schools, highways, agricultural crops, etc. The use of recycled water for groundwater recharge has also been proposed. However, this Order will need to be

<sup>1</sup> *Habitat Monitoring Program for San Timoteo Creek, Yucaipa Valley Water District, Dudek & Associates, October 2005,*

modified, or a new Order will need to be considered by the Regional Water Board before any groundwater recharge projects utilizing recycled water can be implemented.

Delete sentence -> ~~Currently, recycled water is delivered only to a few orchards near the Facility.~~

### C. Compliance Summary

Based on a review of effluent monitoring data submitted by the Discharger for the period from 2008 to present, the wastewater discharged from the wastewater treatment facility was generally in compliance with the effluent limitations specified in the current waste discharge requirements, Order No. R8-2007-0012. However, YVWD had a number of violations during the plant expansion. The violations are tabulated in the following table.

**Table 5**  
**Effluent Limit Violations of Order No. R8-2007-0012, NPDES No. CA0105619**  
**Yucaipa Valley Water District**

Month and Year	Violations						
	Coliform Average Weekly	Coliform Daily Maximum	Turbidity	TIN	NH <sub>3</sub> -N	pH	Bis(2-Ethylhexyl) Phthalate
December, 2007	3		4	1			
January, 2008	4	1		2		2	
February, 2008	4	1		2		13	
March, 2008	5	1		2		8	
April, 2008	4	1		2		4	
May, 2008	1	2		2			
June, 2008				2			
July, 2008				2			
August, 2008				2			
September, 2008				2			
October, 2008				1			
November, 2008				2			
December, 2008				2			
January, 2009				1			
February, 2009				1			
March, 2009				1	1		
April, 2009				1			
May, 2009				1			
June, 2009				1			
July, 2009				1			
August, 2009	4			1			
February, 2010					1		
May, 2010					1		
June, 2011					1		
August, 2011					1		
November, 2013							1
February, 2014*		1					

**NOTES:**

\*No violations noted after February 2014.

- b. Biosolids: On February 19, 1993, the USEPA issued a final rule for the use and disposal of sewage sludge, 40 CFR, Part 503. This rule requires that producers of sewage sludge meet certain reporting, handling, and disposal requirements. The State of California has not been delegated the authority to implement this program, therefore, the U.S. Environmental Protection Agency is the implementing agency.
- c. Pretreatment: The treatment plant capacity is ~~6.7~~<sup>8.0</sup> mgd and there are significant industrial users within the service areas. Consequently, this Order contains requirements for the implementation of an effective pretreatment program pursuant to Section 307 of the Federal Clean Water Act; Parts 35 and 403 of Title 40, Code of Federal Regulations (40 CFR 35 and 40 CFR 403); and/or Section 2233, Title 23, California Code of Regulations.

## X. PUBLIC PARTICIPATION

The California Regional Water Quality Control Board, Santa Ana Region (Regional Water Board) is considering the issuance of waste discharge requirements (WDRs) that will serve as a National Pollutant Discharge Elimination System (NPDES) permit for the Regional Water Recycling Plants. As a step in the WDR adoption process, the Regional Water Board staff has developed tentative WDRs. The Regional Water Board encourages public participation in the WDR adoption process.

### A. Notification of Interested Parties

The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Notification was provided through the posting of Notice of Public Hearing in the area of the discharge, in a local newspaper, and at the Regional Water Board website.

### B. Written Comments

The staff determinations are tentative. Interested persons are invited to submit written comments concerning these tentative WDRs. Comments must be submitted either in person or by mail to the Executive Office at the Regional Water Board at the address above on the cover page of this Order.

To be fully responded to by staff and considered by the Regional Water Board, written comments should be received at the Regional Water Board offices by 5:00 p.m. on August 21, 2015.

## Gaslan, Milasol@Waterboards

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**From:** Westropp, Marsha <MWestropp@ocwd.com>  
**Sent:** Tuesday, October 27, 2015 2:38 PM  
**To:** Gaslan, Milasol@Waterboards; jzoba@ywwd.dts.ca.us; kking@ywwd.dst.ca.us  
**Cc:** Woodside, Greg  
**Subject:** Order No. R8-2015-0027 comment letter  
**Attachments:** R8-2015-0027 comment letter.pdf

Ms. Gaslan,

Please accept the attached comment letter on Order No. R-8-2015-0027, Waste Discharge Requirements for Yucaipa Valley Water District. We offer our apologies for the lateness in submitting these comments. Please take note that we do not intend for our comments to interfere with the schedule for the adoption of the permit, as stated in our comment letter.

Marsha Westropp

### **Marsha Westropp**

#### **Senior Planner**

Orange County Water District  
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**ORANGE COUNTY WATER DISTRICT**  
ORANGE COUNTY'S GROUNDWATER AUTHORITY

October 27, 2015

Ms. Mirasol Gaslan  
California Regional Water Quality Control Board  
Santa Ana Region  
3737 Main Street, Suite 500  
Riverside, CA 92501-3348

**RE: ORDER NO. R8-2015-0027 NPDES NO. CA0105619 WASTE DISCHARGE REQUIREMENTS AND MASTER RECLAMATION PERMIT FOR THE YUCAIPA VALLEY WATER DISTRICT HENRY N. WOCHHOLZ REGIONAL WATER RECYCLING FACILITY SAN BERNARDINO COUNTY**

Dear Ms. Gaslan:

Thank you for the opportunity to provide comments on the subject tentative discharge permit.

OCWD is a special district formed in 1933 by an act of the California Legislature. The District manages the groundwater basin that underlies north and central Orange County. Water produced from the basin is the primary water supply for approximately 2.4 million residents living within the District's boundaries. OCWD maintains and operates facilities in the cities of Anaheim and Orange to recharge Santa Ana River water into the groundwater basin. Santa Ana River baseflows and stormflows provide the majority of the water supply used to recharge the basin.

Section IV.B.2 of the tentative order specifies the following:

The 10-year flow weighted running average TDS concentration of recycled water applied to use areas overlying the groundwater management zones shown below shall not exceed concentrations specified in Table 7. (Table 7. TDS Limitations for Recycled Water Groundwater Management Zone TDS, mg/L).

Ms. Mirasol Gaslan

October 27, 2015

Page 2 of 2

OCWD is concerned that a 10-year averaging period for TDS concentration could be viewed as setting a new precedent for how other discharge permits in the Santa Ana Watershed are structured. For dischargers that provide water that affects Reach 3 of the Santa Ana River, a 10-year averaging period could result in compliance problems with the Regional Board's Basin Plan objectives. For example, the TDS water quality objective for Reach 3 of the Santa Ana River is evaluated on an annual basis using data that are collected each summer. The comparison of measured water quality data to the water quality objective is done on an annual basis. We are concerned that using a 10-year averaging period in discharge permits that affect surface water quality could result in an exceedance of the annual water quality objective and in such situations may be in conflict with the Regional Board's Basin Plan.

We do not wish to hold up approval of the subject discharge permit over this issue; however, this issue needs to be addressed before multi-year averaging compliance options are considered for other discharge permits.

Sincerely,

A handwritten signature in black ink that reads "Mauska Westrupp for". The signature is written in a cursive, flowing style.

Greg Woodside, P.G., C.Hg.

Executive Director of Planning and Natural Resources

State of California  
California Regional Water Quality Control Board  
Santa Ana Region

October 30, 2015

**ITEM:** \*6

**SUBJECT:** Renewal of Waste Discharge Requirements and Master Reclamation Permit for Yucaipa Valley Water District's Henry N. Wochholz Regional Water Recycling Facility, Order No. R8-2015-0027, NPDES No. CA0105619, San Bernardino County

**DISCUSSION:**

See attached Fact Sheet

**RECOMMENDATIONS:**

Adopt Order No. R8-2015-0027, NPDES No. CA0105619 as presented.

**COMMENT SOLICITATION:**

Comments were solicited from the discharger and the following agencies:

US Environmental Protection Agency, Permits Issuance Section (WTR-5) –  
Dr. Peter Kozelka  
US Army District, Los Angeles, Corps of Engineers – Regulatory Branch  
US Fish and Wildlife Service, Carlsbad  
State Water Resources Control Board, Office of the Chief Counsel – David Rice  
State Water Resources Control Board, Division of Water Quality – Phil Isorena  
State Department of Water Resources, Glendale  
State Department of Fish and Wildlife, Ontario  
State Water Resources Control Board, Division of Drinking Water, San Bernardino –  
Sean McCarthy  
Santa Ana Watershed Project Authority – Celeste Cantu  
Santa Ana River Dischargers Association – Edward Filadelfia  
Orange County Water District - Nira Yamachika/Marsha Westropp  
San Bernardino County Flood Control – Annesley Ignatius  
City of San Bernardino, Municipal Water Department – Stacey Aldstadt  
San Bernardino County Environmental Health – Corwin Porter  
City of Beaumont – Kyle Warsinski  
Beaumont-Cherry Valley Water District – Eric Fraser  
San Gorgonio Pass Water Agency – Jeffrey W. Davis  
City of Banning – Art Vela  
Inland Empire Waterkeeper – Megan Brousseau  
Orange County Coastkeeper – Garry Brown  
Lawyers for Clean Water – Daniel Cooper  
Wildermuth Environmental, Inc. - Mark Wildermuth

**State of California**  
**California Regional Water Quality Control Board**  
**Santa Ana Region**

3737 Main Street, Suite 500, Riverside, California 92501-3348  
 Phone (951) 782-4130 - FAX (951) 781-6288– TDD (951) 782-3221  
<http://www.waterboards.ca.gov/santaana>

**ORDER NO. R8-2015-0027**  
**NPDES NO. CA0105619**

**WASTE DISCHARGE REQUIREMENTS AND MASTER RECLAMATION PERMIT**  
**FOR THE**  
**YUCAIPA VALLEY WATER DISTRICT**  
**HENRY N. WOCHHOLZ REGIONAL WATER RECYCLING FACILITY**  
**SAN BERNARDINO COUNTY**

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

**Table 1. Discharger Information**

<b>Discharger</b>	Yucaipa Valley Water District
<b>Mailing Address</b>	P.O. Box 730, Yucaipa, CA 92399
<b>Name of Facility</b>	Henry N. Wochholz Regional Water Recycling Facility
The U.S. Environmental Protection Agency (USEPA) and the Regional Water Quality Control Board have classified this discharge as a <b>major</b> discharge.	

Discharges by the Yucaipa Valley Water District from the discharge points identified below are subject to waste discharge requirements as set forth in this Order:

**Table 2. Discharge Locations**

<b>Discharge Point</b>	<b>Effluent Description</b>	<b>Discharge Point (Latitude)</b>	<b>Discharge Point (Longitude)</b>	<b>Receiving Water</b>
001	Tertiary treated wastewater	33°59'11"N	117°08'04"W	Reach 3 of San Timoteo Creek, San Timoteo Groundwater Management Zone
002	Tertiary treated recycled water	34°00'27"N	117°05'53"W	Yucaipa, San Timoteo, and Beaumont Groundwater Management Zones
003	Tertiary treated wastewater	34°00'08"N	117°09'52"W	Reach 3 of San Timoteo Creek, San Timoteo Groundwater Management Zone

**Table 3. Administrative Information**

This Order was adopted by the Regional Water Board on:	<b>October 30, 2015</b>
This Order shall become effective on:	<b>November 1, 2015</b>
This Order shall expire on:	<b>October 31, 2020</b>
The Discharger shall file a Report of Waste Discharge in accordance with Title 23, California Code of Regulations, as application for issuance of new waste discharge requirements no later than:	<b>May 2, 2020</b>

IT IS HEREBY ORDERED, that this Order supersedes and rescinds Order No. R8-2007-0012 and Cease and Desist Order No. R8-2007-0010, except for enforcement purposes, and, in order to meet the provisions contained in Division 7 of the California Water Code (CWC) (commencing with section 13000) and regulations adopted thereunder, and the provisions of the federal Clean Water Act (CWA) and regulations and guidelines adopted thereunder, the Discharger shall comply with the requirements in this Order. The Discharger is hereby authorized to discharge treated wastewater and recycled water in accordance with the terms and conditions specified in this Order.

I, Kurt V. Berchtold, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on October 30, 2015.

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Kurt V. Berchtold, Executive Officer

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## I. DISCHARGER/FACILITY INFORMATION

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

**Table 4. Discharger/Facility Information**

<b>Discharger</b>	Yucaipa Valley Water District
<b>Discharger Contact</b>	Joseph Zoba, General Manager (909) 797-5117
<b>Mailing Address</b>	P.O. Box 730, Yucaipa, CA 92399
<b>Facility</b>	Henry N. Wochholz Regional Water Recycling Facility
<b>Facility Location</b>	880 West County Line Road, Yucaipa, CA
<b>Facility Contact</b>	J. Kevin King, Wastewater Superintendent, (909) 795-2491
<b>Type of Facility</b>	Publicly Owned Treatment Works (POTW)
<b>Facility Design Flow</b>	8 million gallons per day

## II. FINDINGS

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Water Board), finds:

- A. Legal Authorities.** This Order serves as Waste Discharge Requirements (WDRs) pursuant to Article 4, Chapter 4 of California Water Code (CWC) commencing with Section 13260 and serves as a Master Reclamation permit pursuant to Article 4, Chapter 7 CWC commencing with Section 13523.1. This Order shall also serve as a National Pollutant Discharge Elimination System (NPDES) permit pursuant to Section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. Environmental Protection Agency (USEPA) and Chapter 5.5, Division 7 of the CWC for point source discharges from this facility to surface waters.
- B. Background and Rationale for Requirements.** The Regional 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 Order requirements, is hereby incorporated into this Order and, thus constitutes part of the Findings for this Order. Attachments A through E and G, H, and I are also incorporated into this Order.
- C. Pretreatment:** The Regional Water Board approved the Discharger's regional pretreatment program on September 20, 2002. The approved pretreatment program and its components, such as Regional Wastewater Ordinance No. 54, local limits (adopted by the Discharger in August 2010), and control mechanisms, among others, are hereby made an enforceable condition of this Order.

- D. California Environmental Quality Act (CEQA).** Under CWC section 13389, the action to adopt these waste discharge requirements is exempt from the provisions of CEQA, Public Resources Code section 21000 et seq. (County of Los Angeles v. California State Water Resources Control Board (2006) 143 Ca. App.4th 985. Mod. (Nov 6, 2006, B184034) 50 Cal.Rptr.3d 619, 632-636). This action also involves the re-issuance of waste discharge requirements for an existing facility that discharges treated wastewater and as such, is exempt from the provisions of the California Environmental Quality Act (Commencing with Section 21100) in that the activity is exempt pursuant to Title 14 of the California Code of Regulations Section 15301.
- E. Notification of Interested Parties.** The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe Waste Discharge Requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Details of notification are provided in the Fact Sheet (Attachment F) of this Order.
- F. Consideration of Public Comment.** The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge. Details of the Public Hearing are provided in the Fact Sheet (Attachment F) of this Order.

### III. DISCHARGE PROHIBITIONS

- A.** The discharge of wastewater at a location or in a manner different from that described in this Order is prohibited.
- B.** 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 I. G. of Attachment D, Federal Standard Provisions.
- C.** The discharge of any substances in concentrations toxic to animal or plant life is prohibited.
- D.** The discharge of any radiological, chemical, or biological warfare agent or high level radiological waste is prohibited.

#### IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

##### A. Effluent Limitations – Discharge Points 001 and 003

Unless otherwise specifically specified hereinafter, compliance with the following effluent limitations is measured at monitoring location M-001 as described in the attached Monitoring and Reporting Program (Attachment E).

##### 1. Effluent Limitations

The Discharger shall comply with the following:

##### a. Physical/Biological/Chemical Limitations

**Table 5. Effluent Limitations at DP-001 and DP-003**

Parameter	Units	Effluent Limitations		
		Average Monthly	Average Weekly	Daily Maximum
Biochemical Oxygen Demand 5-day @ 20°C	mg/L (lbs/day)	20 (1334)	30 (2002)	--
Total Suspended Solids	mg/L (lbs/day)	20 (1334)	30 (2002)	--
Ammonia-Nitrogen	mg/L (lbs/day)	4.5 (300)	--	--
Bis(2-ethylhexyl) phthalate	µg/L (lbs/day)	5.9 (.39)	--	11.8 (0.79)

##### b. Percent Removal:

The average monthly percent removal of BOD 5-day 20°C and total suspended solids shall not be less than 85 percent.

##### c. Total Dissolved Solids (TDS) Limitations

For flows up to 1.6<sup>1</sup> million gallons per day (MGD), the annual volume-weighted average TDS concentration of the discharge shall not exceed 400 mg/L. The Discharger is obligated to maintain 1.6 mgd annual average discharge to the Creek to support existing riparian habitat (State Board Order No. WW-26). The Discharger shall notify the Regional Board when the habitat monitoring program

<sup>1</sup> A baseline annual average of 1.6 mgd will be released as part of adaptive management activities pursuant to the Habitat Monitoring Program for San Timoteo Creek, Yucaipa Valley Water District, Dudek & Associates, October 2005,

adaptive management action levels are triggered that require discharge in excess of 1.6 mgd annual average.

For flows in excess of 1.6 MGD, where maximum benefit is not demonstrated, the annual volume-weighted average TDS concentration of the discharge shall not exceed 300 mg/L.

d. Total Inorganic Nitrogen (TIN) Limitations:

For flows up to 1.6 MGD, the annual volume weighted average TIN concentration of the discharge shall not exceed 6.7 mg/L. The Discharger is obligated to maintain 1.6 mgd annual average discharge to the Creek to support existing riparian habitat (State Board Order No. WW-26). The Discharger shall notify the Regional Board when the habitat monitoring program adaptive management action levels are triggered that require discharge in excess of the 1.6 mgd annual average.

For flows in excess of 1.6 MGD, where maximum benefit is not demonstrated, the annual volume-weighted average TIN concentration of the discharge shall not exceed 3.6 mg/L.

**2. Tertiary Treated Wastewater:**

The discharge shall at all times be a filtered and subsequently disinfected wastewater and shall meet the following limitations:

- a. "Filtered wastewater" means an oxidized wastewater that has been coagulated and passed through a bed of filter media pursuant to the following:
  - 1) At a rate that does not exceed 5 gallons per minute per square foot of surface area in mono, dual, or mixed media gravity, upflow or pressure filtration systems, or does not exceed 2 gallons per minute per square foot of surface area in traveling bridge automatic backwash filters; and
  - 2) The turbidity of the filtered wastewater shall not exceed any of the following:
    - a) An average of 2 NTU within a 24-hour period;
    - b) 5 NTU more than 5 percent of the time within a 24-hour period; and
    - c) 10 NTU at any time
  - 3) When filtration is through microfiltration, ultrafiltration, nanofiltration, or reverse osmosis membrane the turbidity of the filtered wastewater shall not exceed any of the following:
    - a) 0.2 NTU more than 5 percent of the time within a 24-hour period; and

b) 0.5 NTU at any time

b. Disinfection: The discharge shall meet the following:

- 1) When a disinfection process combined with the filtration process is utilized, the combined process shall demonstrate inactivation and/or removal of 99.999 percent of the plaque-forming units of F-specific bacteriophage MS2, or polio virus in the wastewater. A virus that is at least as resistant to disinfection as polio virus may be used for purposes of the demonstration.
- 2) Where ultraviolet (UV) disinfection is used for disinfection, UV disinfection shall meet the requirements specified in the Ultraviolet Disinfection Guidelines for Drinking Water and Water Reuse, published by the National Water Research Institute, Third Edition, and/or the acceptance conditions specified by the California State Water Resources Control Board's (SWRCB's) Division of Drinking Water (DDW) in a letter dated February 25, 2015 addressed to this Regional Water Board's Executive Officer, which is included in this Order as Attachment L, and/or modified acceptance conditions specified by the SWRCB's DDW that partially or completely supersede the acceptance conditions specified in the February 25, 2015 letter. The facility must be operated and maintained in accordance with a SWRCB's DDW approved operations plan, which is part of the Title 22 Engineering Report. The acceptance conditions and approved operations plan included in the Title 22 Engineering Report shall become an enforceable part of this Order.

a.

c. Coliform: The disinfected wastewater shall meet the following:

- 1) The weekly median concentration of total coliform bacteria shall not exceed a Most Probable Number (MPN) of 2.2 total coliform bacteria per 100 milliliters (ml). To comply with the limit, the 7-day median MPN must not exceed 2.2 per 100 milliliters on any day during the week. However, only one violation is recorded for each calendar week, even if the 7-day median MPN value is greater than 2.2 for more than one day in the week,
- 2) The number of total coliform bacteria shall not exceed an MPN of 23 total coliform bacteria per 100 ml in more than one sample in any 30-day period, and
- 3) No total coliform bacteria sample shall exceed an MPN of 240 total coliform bacteria per 100 ml.

3. pH: The discharge shall meet the following:

The pH of the discharge at shall be maintained between 6.5 to 8.5 pH units. Compliance with pH limits shall be determined as follows:

- a. The total time during which the pH is outside the range of 6.5-8.5 pH units shall not exceed 7 hours and 26 minutes in any calendar month; and
- b. No individual excursion from the above range shall exceed 60 minutes.

4. Toxicity Requirements: The discharge shall meet the following:

- 1) There shall be no acute or chronic toxicity in the discharge nor shall the discharge cause any acute or chronic toxicity in the receiving water. All waters shall be maintained free of substances in concentrations which are toxic to, or which produce detrimental physiological responses in human, plant, animal, or indigenous aquatic life. This Order contains no numeric limitation for toxicity. However, the Discharger shall conduct chronic toxicity monitoring.
- 2) The Discharger shall implement the accelerated monitoring as specified in Attachment E when the result of any single chronic toxicity test of the effluent exceeds 1.0 TUc.

**B. Recycled Water Specifications – Discharge Point 002**

Unless otherwise specified hereinafter, compliance with the following effluent limitations shall be measured at monitoring location REC-001 as described in the attached Monitoring and Reporting Program (Attachment E).

The Discharger shall comply with the following limitations for the production and use of recycled water supplied for landscape irrigation, or other similar uses:

**1. Physical/Biological Limitations:**

**Table 6. Recycled Water Effluent Limitations**

Parameter	Units	Effluent Limitations	
		Average Monthly	Average Weekly
Biochemical Oxygen Demand 5-day @ 20°C	mg/L	20	30
Total Suspended Solids	mg/L	20	30

**2. Total Dissolved Solids (TDS):**

The 10-year<sup>2</sup> flow weighted running average TDS concentration of recycled water applied to use areas overlying the groundwater management zones shown below shall not exceed concentrations specified in Table 7.

**Table 7. TDS Limitations for Recycled Water**

Groundwater Management Zone	TDS, mg/L
San Timoteo	400
Yucaipa	370
Beaumont	330

<sup>2</sup> Resolution No. R8-2014-0005 specifies 10 year averaging period for discharges that affect the underlying groundwater management zones.

### 3. Disinfected Tertiary Recycled Water:

Recycled Water shall at all times be a filtered and subsequently disinfected wastewater and shall meet the following limitations:

- a. "Filtered wastewater" means an oxidized wastewater that has been coagulated and passed through a bed of filter media pursuant to the following:
  - 1) At a rate that does not exceed 5 gallons per minute per square foot of surface area in mono, dual, or mixed media gravity, upflow or pressure filtration systems, or does not exceed 2 gallons per minute per square foot of surface area in traveling bridge automatic backwash filters; and
  - 2) The turbidity of the filtered wastewater shall not exceed any of the following:
    - a) An average of 2 NTU within a 24-hour period;
    - b) 5 NTU more than 5 percent of the time within a 24-hour period; and
    - c) 10 NTU at any time
  - 3) The turbidity of disinfected tertiary recycled water that is passed through microfiltration, ultrafiltration, nanofiltration, or reverse osmosis membrane shall not exceed any of the following:
    - a) 0.2 NTU more than 5 percent of the time within a 24-hour period; and
    - b) 0.5 NTU at any time
- b. Disinfection: Recycled Water shall meet the following:
  - 1) When a disinfection process combined with the filtration process is utilized, the combined process shall demonstrate inactivation and/or removal of 99.999 percent of the plaque-forming units of F-specific bacteriophage MS2, or polio virus in the wastewater. A virus that is at least as resistant to disinfection as polio virus may be used for purposes of the demonstration.
  - 2) Where ultraviolet (UV) disinfection is used for disinfection, UV disinfection shall meet the requirements specified in the Ultraviolet Disinfection Guidelines for Drinking Water and Water Reuse, published by the National Water Research Institute, Third Edition, and/or the acceptance conditions specified by the California State Water Resources Control Board's (SWRCB's) Division of Drinking Water (DDW) in a letter dated February 25, 2015 addressed to this Regional Water Board's Executive Officer, which is included in this Order as Attachment L, and/or modified acceptance conditions specified by the SWRCB's DDW that partially or completely supersede the acceptance conditions specified in the February 25, 2015 letter. The facility must be

operated and maintained in accordance with a SWRCB's DDW approved operations plan, which is part of the Title 22 Engineering Report. The acceptance conditions and approved operations plan included in the Title 22 Engineering Report shall become an enforceable part of this Order.

c. Coliform: The disinfected recycled water shall meet the following:

- 1) The weekly median concentration of total coliform bacteria shall not exceed a Most Probable Number (MPN) of 2.2 total coliform bacteria per 100 milliliters (ml). To comply with the limit, the 7-day median MPN must not exceed 2.2 per 100 milliliters on any day during the week. However, only one violation is recorded for each calendar week, even if the 7-day median MPN value is greater than 2.2 for more than one day in the week,
- 2) The number of total coliform bacteria shall not exceed an MPN of 23 total coliform bacteria per 100 ml in more than one sample in any 30-day period, and
- 3) No total coliform bacteria sample shall exceed an MPN of 240 total coliform bacteria per 100 ml.

d. There shall be no visible oil and grease in the discharge.

4. For new reuse sites, the use of recycled water shall only commence after the California State Water Resources Control Board's (SWRCB's) Division of Drinking Water (DDW) grants final approval for such use. If SWRCB's DDW does not respond or does not explicitly disapprove the use of recycled water at new reuse sites within 30 days of receipt of the information required in IV.C.10, below, then the Discharger may assume final approval by SWRCB's DDW and may commence distribution of recycled water at the new site(s). The Discharger shall provide the Regional Water Board with a copy of the SWRCB's DDW approval letter, if provided, within 30 days of the approval notice.
5. The Discharger shall be responsible for assuring that recycled water is delivered and utilized in conformance with this Order and the recycling criteria contained in Title 22, Division 4, Chapter 3, Sections 60301 through 60355, California Code of Regulations. The Discharger shall conduct periodic inspections of the facilities of the recycled water users to monitor compliance by the users with this Order.
6. The Discharger shall update, as necessary, and enforce Rules and Regulations for Recycled Water Use, governing the design and construction of recycled water use facilities and the use of recycled water in accordance with the uniform statewide recycling criteria established pursuant to the California Water Code Section 13521 contained in Title 22, Division 4, Chapter 3, Sections 60301 through 60355, California Code of Regulations. The discharger shall ensure that the use of recycled water by each user is consistent with its Rules and Regulations for Recycled Water Use.

7. Any revisions made to the Rules and Regulations shall be subject to the review of the Executive Officer of the Regional Water Board, State Water Board's Division of Drinking Water and the San Bernardino County Environmental Health Department.
8. Within 60-days of the effective date of this Order, the Discharger shall review and update as necessary its program to conduct compliance inspections of recycled water use sites. Inspections shall determine the status of compliance with the Discharger's Rules and Regulations for Recycled Water Use. The Discharger shall review and update the inspection program, as necessary, with the addition of each new user.
9. The storage, delivery, or use of recycled water shall not individually or collectively, directly or indirectly, result in a pollution or nuisance, or adversely affect water quality, as defined in the California Water Code.
10. Prior to delivering recycled water to any new user, the Discharger shall submit to the Regional Water Board, the State Water Board's Division of Drinking Water and the San Bernardino County Environmental Health Department a report containing the following information for review and approval:
  - a. The average number of persons estimated to be served at each use site area on a daily basis.
  - b. The specific boundaries of the proposed use site area, including a map showing the location of each facility, drinking water fountain, and impoundment to be used.
  - c. The person or persons responsible for operation of the recycled water system at each use area.
  - d. The specific use to be made of the recycled water at each use area.
  - e. The methods to be used to assure that the installation and operation of the recycled system will not result in cross connections between the recycled water and potable water piping systems. This shall include a description of the pressure, dye or other test methods to be used to test the system.
  - f. Plans and specifications which include following:
    - 1) Proposed piping system to be used.
    - 2) Pipe locations of both the recycled and potable systems.
    - 3) Type and location of the outlets and plumbing fixtures that will be accessible to the public.
    - 4) The methods and devices to be used to prevent backflow of recycled water into the potable water system.
    - 5) Plan notes relating to specific installation and use requirements.

11. The Discharger shall require each user of recycled water to designate an on-site supervisor responsible for the operation of the recycled water distribution system within the recycled water use area. The supervisor shall be responsible for enforcing this Order, prevention of potential hazards, the installation, operation and maintenance of the distribution system, maintenance of the distribution and irrigation system plans in "as-built" form, and for the distribution of the recycled wastewater in accordance with this Order.
12. Recycled water shall at all times be maintained within the property lines of any user. There shall be no direct or indirect discharge of recycled water into drainage systems that could affect surface water quality standards.

## **V. RECEIVING WATER LIMITATIONS**

### **A. Surface Water Limitations**

1. Receiving water limitations are based upon water quality objectives contained in the Basin Plan. As such, they are a required part of this Order. The discharge shall not cause the following in San Timoteo Creek, the Santa Ana River, Reach 5, or in downstream Reaches of the Santa Ana River:
  - a. Coloration of the receiving waters, which causes a nuisance or adversely affects beneficial uses.
  - b. Deposition of oil, grease, wax or other materials in the receiving waters in concentrations which result in a visible film or in coating objects in the water, or which cause a nuisance or affect beneficial uses.
  - c. An increase in the amounts of suspended or settleable solids in the receiving waters, which will cause a nuisance or adversely affect beneficial uses as a result of controllable water quality factors.
  - d. Taste or odor-producing substances in the receiving waters at concentrations, which cause a nuisance or adversely affect beneficial uses.
  - e. The presence of radioactive materials in the receiving waters in concentrations, which are deleterious to human, plant or animal life.
  - f. The depletion of the dissolved oxygen concentration below 5.0 mg/l.
  - g. The temperature of the receiving waters to be raised above 90°F (32°C) during the period of June through October, or above 78°F (26°C) during the rest of the year.
  - h. The concentration of pollutants in the water column, sediments, or biota to adversely affect the beneficial uses of the receiving water. The discharge shall not result in the degradation of inland surface water communities and populations, including vertebrate, invertebrate, and plant species.
2. The discharge of wastes shall not cause a violation of any applicable water quality standards for receiving waters adopted by the Regional Water Board or State Water Board, as required by the Clean Water Act and regulations adopted thereunder.

3. Pollutants not specifically mentioned and limited in this Order shall not be discharged at levels that will bioaccumulate in aquatic resources to levels, which are harmful to human health.
4. The discharge shall not contain constituent concentrations of mercury that will result in the bioaccumulation of methylmercury in fish flesh tissue greater than 0.3 milligram methylmercury/kilogram. (See also Section VI.C.1.e. and VI.C.2.a, below).

## **B. Groundwater Limitations**

The use of recycled water shall not cause the underlying groundwater to be degraded, to exceed water quality objectives, unreasonably affect beneficial uses, or cause a condition of pollution or nuisance.

## **VI. PROVISIONS**

### **A. Standard Provisions**

1. The Discharger shall comply with all Federal Standard Provisions included in Attachment D of this Order.
2. 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.
3. In the event the Discharger does not comply or will be unable to comply for any reason with any prohibition, discharge limitations (e.g., maximum daily effluent limitation), or receiving water limitation of this Order that could pose an immediate danger to public health and/or the environment, the Discharger shall notify the Regional Water Board by telephone (951) 782-4130 or by email: [info8@waterboards.ca.gov](mailto:info8@waterboards.ca.gov) within 24 hours of having knowledge of such noncompliance, and shall confirm this notification in writing within five days, unless the Regional 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. Other noncompliance requires written notification as above at the time of the normal monitoring report.
4. Neither the treatment nor the discharge of pollutants shall create a pollution, contamination, or nuisance as defined by Section 13050 of the CWC.

5. The Discharger shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Order, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the noncomplying discharge.
6. This Order may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following.
  - a. Violation of any terms or conditions of this Order;
  - b. Obtaining this Order by misrepresentation or failure to disclose fully all relevant facts, or;
  - c. In addition to any other grounds specified herein, this permit may be modified or revoked at any time if, on the basis of any data, the Regional Water Board determines that continued discharges may cause unreasonable degradation of the aquatic environment.
7. If an effluent standard or discharge prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307 (a) of the Clean Water Act for a toxic pollutant which is present in the discharge, and such standard or prohibition is more stringent than any limitation for that pollutant in this Order, this Order may be modified or revoked and reissued to conform to the effluent standard or discharge prohibition.
8. The Discharger shall file with the Regional Water Board a Report of Waste Discharge at least 180 days before making any material change in the character, location, or volume of the discharge. A material change includes, but is not limited to, the following:
  - a. Adding a major industrial waste discharge to a discharge of essentially domestic sewage, or adding a new process or product by an industrial facility resulting in a change in the character of the waste.
  - b. Significantly changing the disposal method or location, such as changing the disposal to another drainage area or water body.
  - c. Significantly changing the method of treatment.
  - d. Increasing the treatment plant design capacity beyond that specified in this Order.
9. The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provisions to other circumstances, and the remainder of this Order, shall not be affected thereby.
10. The Discharger shall maintain a copy of this Order at the site so that it is available to site operating personnel at all times. Key operating personnel shall be familiar with its content.

11. The Discharger shall optimize chemical additions needed in the treatment process to meet waste discharge requirements so as to minimize total dissolved solid increases in the treated wastewater.
12. Collected screenings, sludge, and other solids removed from liquid wastes shall be disposed of in a manner approved by the Regional Water Board's Executive Officer.
13. In the event of any change in control or ownership of land or waste discharge facility presently owned or controlled by the Discharger, the Discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to the Regional Water Board.
14. The treatment facilities shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods with a 100-year return frequency.
15. The Discharger shall file a written report with the Regional Board within ninety (90) days after the average dry-weather waste flow for any month equals or exceeds 75 percent of the design capacity of the waste treatment and/or disposal facilities. The Discharger's senior administrative officer shall sign a letter which transmits that report and certifies that the policy making body is adequately informed about it. The report shall include:
  - a. Average daily flow for the month, the date on which instantaneous peak flow occurred, the rate of that peak flow, and the total flow for the day.
  - b. The Discharger's best estimate of when the average daily dry-weather flow rate will equal or exceed the design capacity of the treatment and/or disposal facilities.
  - c. The Discharger's intended schedule for studies, design, and/or other steps needed to provide additional capacity for the waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units.

## **B. Monitoring and Reporting Program Requirements**

The Discharger shall comply with the Monitoring and Reporting Program, and future revisions thereto, in Attachment E of this Order. This monitoring and reporting program may be modified by the Executive Officer at any time during the term of this Order, and may include an increase in the number of parameters to be monitored, the frequency of the monitoring or the number and size of samples to be collected. Any increase in the number of parameters to be monitored, the frequency of the monitoring or the number and size of samples to be collected may be reduced back to the levels specified in the original monitoring and reporting program at the discretion of the Executive Officer.

## **C. Special Provisions**

## 1. Reopener Provisions

- a. This Order will be reopened to address any changes in State or federal statutes, plans, policies or regulations that would affect the quality requirements for the discharges.
- b. This Order may be reopened to include effluent limitations for pollutants determined to be present in the discharge in concentrations that pose a reasonable potential to cause or contribute to violations of water quality objectives.
- b. This Order may be reopened and modified in accordance with the requirements set forth at 40 CFR 122 and 124, to include the appropriate conditions or limits to address demonstrated effluent toxicity based on newly available information, or to implement any EPA-approved new State water quality standards applicable to effluent toxicity.
- c. This Order may be reopened for modification, or revocation and reissuance, as a result of the detection of a reportable priority pollutant generated by special conditions included in this Order. These special conditions may be, but are not limited to, fish tissue sampling, whole effluent toxicity, monitoring requirements on internal waste stream(s), and monitoring for surrogate parameters. Additional requirements may be included in this Order as a result of the special condition monitoring data.
- d. This Order may be reopened to include an appropriate bioaccumulation based effluent limit for mercury if test results (as required in Attachment E of this Order) show that the concentration levels of methylmercury in the fish tissue are at or above 0.3 milligrams per kilogram.
- e. This Order may be reopened to incorporate appropriate biosolids requirements if the State Water Board and the Regional Water Board are given the authority to implement regulations contained in 40 CFR 503.

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

- a. Toxicity Reduction Requirements.
  - 1) The Discharger shall update, as necessary, its Initial Investigation Toxicity Reduction Evaluation (IITRE) work plan that describes the steps the Discharger intends to follow if required by Toxicity Reduction Requirement a. 2), below. The work plan shall include at a minimum:
    - a) A description of the investigation and evaluation techniques that will be used to identify potential causes/sources of the exceedance, effluent variability, and/or efficiency of the treatment system in removing toxic

- substances. This shall include a description of an accelerated chronic toxicity testing program.
- b) A description of the methods to be used for investigating and maximizing in-house treatment efficiency and good housekeeping practices.
  - c) A description of the evaluation process to be used to determine if implementation of a more detailed TRE/TIE is necessary.
- 2) The Discharger shall implement the IITRE work plan whenever the results of chronic toxicity tests of the effluent exceed:
    - a) A two month median value of 1.0 TUc for survival or reproduction endpoint or,
    - b) Any single test value of 1.7 TUc for survival endpoint.
  - 3) The Discharger shall update, as necessary, its detailed Toxicity Reduction Evaluation and Toxicity Identification Evaluation (TRE/TIE) work plan that describes the steps the Discharger intends to follow if the implemented IITRE fails to identify the cause of, or to rectify, the toxicity.
  - 4) The Discharger shall use as guidance, at a minimum, EPA manuals EPA/600/2-88/070 (industrial), EPA/600/4-89-001A (municipal), EPA/600/6-91/005F (Phase I), EPA/600/R-92/080 (Phase II), and EPA-600/R-92/081 (Phase III) to identify the cause(s) of toxicity. If during the life of this Order the aforementioned EPA manuals are revised or updated, the revised/updated manuals may also be used as guidance. The detailed TRE/TIE work plan shall include:
    - a) Further actions to investigate and identify the cause of toxicity;
    - b) Actions the Discharger will take to mitigate the impact of the discharge and to prevent the recurrence of toxicity; and
    - c) A schedule for these actions.
  - 5) The Discharger shall implement the TRE/TIE workplan if the IITRE fails to identify the cause of, or rectify, the toxicity, or if in the opinion of the Executive Officer the IITRE does not adequately address an identified toxicity problem.
  - 6) The Discharger shall assure that adequate resources are available to implement the required TRE/TIE.

### **3. Best Management Practices and Pollution Prevention**

#### **a. Pollutant Minimization Program**

- 1) The Discharger shall develop and conduct a Pollutant Minimization Program (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, results of benthic or aquatic organism tissue sampling) that a priority pollutant is present in the effluent above an effluent limitation and either:

- a) A sample result is reported as DNQ and the effluent limitation is less than the RL; or
  - b) A sample result is reported as ND and the effluent limitation is less than the MDL.
- 2) The PMP shall include, but not be limited to, the following actions and submittals acceptable to the Regional Water Board:
- a) An annual review and semi-annual monitoring of potential sources of the reportable priority pollutant(s), which may include fish tissue monitoring and other bio-uptake sampling;
  - b) Quarterly monitoring for the reportable priority pollutant(s) in the influent to the wastewater treatment system;
  - c) Submittal of a control strategy designed to proceed toward the goal of maintaining concentrations of the reportable priority pollutant(s) in the effluent at or below the effluent limitation;
  - d) Implementation of appropriate cost-effective control measures for the reportable priority pollutant(s), consistent with the control strategy; and
  - e) An annual status report that shall be sent to the Regional Water Board including:
    - (1) All PMP monitoring results for the previous year;
    - (2) A list of potential sources of the reportable priority 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.

#### **4. Construction, Operation and Maintenance Specifications**

- a. The Discharger's wastewater treatment plant shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Title 23, Division 3, Chapter 14, California Code of Regulations.
- b. The Discharger shall provide safeguards to assure that should there be reduction, loss, or failure of electric power, the Discharger will comply with the requirements of this Order.
- c. The Discharger shall update as necessary, the "Operation and Maintenance Manual (O&M Manual)" which it has developed for the treatment facility to conform to latest plant changes and requirements. The O&M Manual shall be

readily available to operating personnel onsite. The O&M Manual shall include the following:

- 1) Description of the treatment plant table of organization showing the number of employees, duties and qualifications and plant attendance schedules (daily, weekends and holidays, part-time, etc). The description should include documentation that the personnel are knowledgeable and qualified to operate the treatment facility so as to achieve the required level of treatment at all times.
- 2) Detailed description of safe and effective operation and maintenance of treatment processes, process control instrumentation and equipment.
- 3) Description of laboratory and quality assurance procedures.
- 4) Process and equipment inspection and maintenance schedules.
- 5) Description of safeguards to assure that, should there be reduction, loss, or failure of electric power, the Discharger will be able to comply with requirements of this Order.
- 6) Description of preventive (fail-safe) and contingency (response and cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. These plans shall identify the possible sources (such as loading and storage areas, power outage, waste treatment unit failure, process equipment failure, tank and piping failure) of accidental discharges, untreated or partially treated waste bypass, and polluted drainage.

## 5. Special Provisions for Municipal Facilities

### a. Sewer 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 C.F.R. § 122.41(e)). The Discharger must report any non-compliance (40 C.F.R. § 122.41(l)(6) and (7)) and mitigate any discharge from the collection system in violation of this Order (40 C.F.R. § 122.41(d)). See the Order at Standard Provision VI.A.2.b. and Attachment D, subsections I.D, V.E, V.H, and I.C.

Furthermore, the Statewide General Waste Discharge Requirements for Sanitary Sewer System, Order No. 2006-0003 DWQ (General Order), as amended by Order Nos. WQ 2008-0002-EXEC and WQ-2013-0058-EXEC, contains requirements for operation and maintenance of sanitary sewer systems and for reporting and mitigating sanitary sewer overflows. While the Discharger must comply with both the General Order and this Order, the General Order more clearly and specifically stipulates requirements for operation and maintenance and for reporting and mitigating sanitary sewer overflows. The Discharger and other governmental agencies that are discharging wastewater into the facility are required to obtain enrollment for regulation under the General Order. The Discharger has enrolled under the General Order.

### b. Biosolids Disposal Requirements:

- 1) Collected screenings, sludge, and other solids removed from liquid wastes shall be disposed of in a manner that is consistent with State Water Resources Control Board and Integrated Waste Management Board's joint regulations (Title 27) of the California Code of Regulations and approved by the Regional Water Board's Executive Officer.
- 2) The use and disposal of biosolids shall comply with existing Federal and State laws and regulations and local government ordinances, including conditions in 40 CFR 503, which include pollutant, pathogen reduction, and vector attraction reduction requirements for the use or disposal practice selected.
- 3) Any proposed change in biosolids use or disposal practice from a previously approved practice should be reported to the Executive Officer and EPA Regional Administrator at least 90 days in advance of the change.
- 4) The Discharger shall take all reasonable steps to minimize or prevent any discharge or biosolids use or disposal that has the potential of adversely affecting human health or the environment.

### c. Pretreatment Program

- 1) The Discharger shall update as necessary and implement an acceptable pretreatment program.

- 2) The Discharger shall update as necessary the appropriate contractual agreements with all governmental agencies<sup>3</sup>. The contractual agreements shall give the Discharger the authority to implement and enforce the EPA approved pretreatment program within the sewer service areas of the treatment facility. The Discharger shall assure that any other steps necessary to provide this implementation and enforcement authority (e.g. adoption of ordinances, etc.) are taken by all governmental agencies. If a governmental agency has an EPA approved pretreatment program for any portion of the service area of the treatment facility, the Discharger's pretreatment program shall contain provisions ensuring that that governmental agency's program is implemented. In the event that any agency discharging to Discharger's facility fails to effectively implement its individual EPA approved pretreatment program, the Discharger shall implement and enforce its approved program within that agency's service area.
  
- 3) The Discharger shall ensure that the POTW<sup>4</sup> pretreatment program for all contributory agencies discharging to the Discharger's treatment facility are implemented and enforced. The Discharger shall be responsible and liable for the performance of all Control Authority pretreatment requirements contained in 40 CFR 403, including any subsequent regulatory revisions to Part 403. Where Part 403 or subsequent revisions place mandatory actions upon the Discharger as Control Authority but does not specify a timetable for completion of the actions, the Discharger shall submit for approval of the Regional Water Board's Executive Officer, a schedule for implementation of the required actions and shall implement the approved schedule. The schedule for implementation shall be submitted within six months from the date that such mandatory actions are established. For violations of pretreatment requirements, the Discharger shall be subject to enforcement actions, penalties, fines and other remedies by the EPA, or other appropriate parties, as provided in the CWA, as amended (33 USC 1351 et seq.). The EPA or the Regional Water Board may also initiate enforcement action against an industrial user (IU) for non-compliance with applicable standards and requirements as provided in the CWA.
  
- 4) The Discharger shall perform the pretreatment functions as required in 40 CFR Part 403 including, but not limited to:
  - a) Enforce the pretreatment requirements under 40 CFR 403.5 and 403.6;
  - b) Implement the necessary legal authorities as provided in 40 CFR 403.8(f)(1);
  - c) Implement the programmatic functions as provided in 40 CFR 403.8(f)(2);

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<sup>3</sup> Member agencies and sewerage agencies discharging wastewater into the facility.

<sup>4</sup> Publicly owned treatment works.

- d) Publish a list of significant non-compliance as required by 40 CFR 403.8(f)(2)(vii); and
  - e) Provide the requisite funding and personnel to implement the pretreatment program as provided in 40 CFR 403.8(f)(3).
- 5) The following wastes shall not be introduced into the treatment works:
- a) Wastes which create a fire or explosion hazard in the treatment works;
  - b) Wastes which will cause corrosive structural damage to treatment works, but, in no case, wastes with a pH lower than 5.0 unless the works are designed to accommodate such wastes;
  - c) Wastes at a flow rate and/or pollutant discharge rate which is excessive over relatively short time periods so that there is a treatment process upset and subsequent loss of treatment efficiency;
  - d) Solid or viscous wastes in amounts that would cause obstruction to the flow in sewers or otherwise interfere with the proper operation of the treatment works.
- 6) The Discharger shall ensure compliance with any existing or future pretreatment standard promulgated by EPA under Section 307 of the CWA or amendments thereto for any discharge to the municipal system.
- 7) The Discharger shall comply with effluent standards or prohibitions established under Section 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.
- 8) The Discharger shall require each user not in compliance with any pretreatment standard to submit periodic notice (over intervals not to exceed nine months) of progress toward compliance with applicable toxic and pretreatment standards developed pursuant to the CWA or amendments thereto. The Discharger shall forward a copy of such notice to the Regional Water Board and to the EPA Regional Administrator.

## VII. COMPLIANCE DETERMINATION

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

### A. General.

Compliance with effluent limitations for 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).

**B. Average Monthly Effluent Limitation (AMEL).**

If the average (or when applicable, the median determined by Section X.B.5. of Attachment E of this Order for multiple sample data) of daily discharges over a calendar month exceeds the AMEL for a given parameter, this will represent a single violation, 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). 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. 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 taken, no compliance determination can be made for that calendar month.

**C. Average Weekly Effluent Limitation (AWEL).**

If the average (or when applicable, the median determined by subsection B above for multiple sample data) of daily discharges over a calendar week exceeds the AWEL for a given parameter, this will represent a single violation, though the Discharger may be considered out of compliance for each day of that week for that parameter, resulting in 7 days of non-compliance. If only a single sample is taken during the calendar week and the analytical result for that sample exceeds the AWEL, the Discharger may be considered out of compliance for that calendar week. The Discharger will only be considered out of compliance for days when the discharge occurs. For any one calendar week during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar week.

**D. Maximum Daily Effluent Limitation (MDEL).**

If a daily discharge (or when applicable, the median determined by subsection B above for multiple sample data of a daily discharge) exceeds the MDEL for a given parameter, the Discharger will be considered out of compliance for that parameter for that 1 day only within the reporting period. For any 1 day during which no sample is taken, no compliance determination can be made for that day.

**E. Instantaneous Minimum Effluent Limitation.**

If the analytical result of a single grab sample is lower than the instantaneous minimum effluent limitation for a parameter, 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 taken 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).

**F. Instantaneous Maximum Effluent Limitation.**

If the analytical result of a single grab sample is higher than the instantaneous maximum effluent limitation for a parameter, the Discharger may 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 taken 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).

**G. Multiple Sample Data.**

When determining compliance with an AMEL for priority pollutants and more than one sample result is available, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of “Detected, but Not Quantified” (DNQ) or “Not Detected” (ND). In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:

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

**H. Average Annual Volume- Weighted Effluent Limitation.**

Compliance with the annual volume-weighted average limits under Discharge Specifications IV.A.1.c. and IV.A.1.d. shall be determined by adding the volume discharged multiplied by the concentration for each discharge event during a 12 month period and dividing the sum by the total volume discharged over the 12 month period.

**I. 120-Month Flow Weighted Running Average Effluent Limitation (120-MRAEL).**

Pre-compliance evaluation with the 10 year flow-weighted running average limits under Discharge Specifications IV.B.2 shall be determined by the arithmetic mean of the last one hundred twenty monthly averages starting with data available from 10 years prior to adoption of this permit. Compliance with the 10-year flow-weighted running average shall be determined by June, 2020<sup>5</sup> and every year thereafter.

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<sup>5</sup> Corresponds to the end of the 10<sup>th</sup> year after initiation of operation of recycled water/groundwater desalter.

### **M. Priority Pollutants.**

The Discharger shall be deemed out of compliance with an effluent limitation if the concentration of the priority pollutant in the monitoring sample is greater than the effluent limitation.

1. Compliance determination shall be based on the reporting level selected from minimum level (ML)<sup>6</sup> specified in Attachment "I" of this Order, unless an alternative reporting level is approved by the Regional Water Board's Executive Officer. When there is more than one ML value for a given substance, the Discharger shall select the ML value that is below the calculated effluent limitation, and use its associated analytical method, listed in Attachment "I" of this Order. If no ML value is below the effluent limitation, then the Regional Water Board will select as the reporting level the lowest ML value and its associated analytical method.
2. When determining compliance with an average monthly limit and more than one sample result is available in a month, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of detected but not quantified (DNQ) or not detected (ND). In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:
  - a. The data set shall be ranked from low to high, 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. If a sample result, or the arithmetic mean or median of multiple sample results, is below the reporting level, and there is evidence that the priority pollutant is present in the effluent above an effluent limitation and the Discharger conducts a pollutant minimization program (PMP)<sup>7</sup> the Discharger shall not be deemed out of compliance.

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<sup>6</sup> Minimum level is the concentration at which the entire analytical system must give a recognizable signal and acceptable point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.

<sup>7</sup> 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.

**O. Compliance Determination**

Compliance determinations shall be based on available analyses for the time interval associated with the effluent limitation. Where only one sample analysis is available in a specified time interval (e. g., monthly or weekly average), that sample shall serve to characterize the discharge for the entire interval. If quarterly sample results show noncompliance with the average monthly limit and that sample result is used for compliance determinations for each month of the quarter, then three separate violations of the average monthly limit shall be deemed to have occurred.

Compliance with a single effluent limitation which applies to a group of chemicals (e.g., PCBs), based on a single sample shall be determined by considering the concentrations of individual members of the group to be zero if the analytical response for the individual chemical falls below the method detection limit (MDL) for that chemical.

## ATTACHMENT A – DEFINITIONS

**Arithmetic Mean ( $\mu$ )**, 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 =  $\mu = \Sigma x / n$  where:  $\Sigma x$  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.

**Best Management Practices (BMPs)** are methods, measures, or practices designed and selected to reduce or eliminate the discharge of pollutants to surface waters from point and nonpoint source discharges including storm water. BMPs include structural and non-structural controls, and operation and maintenance procedures, which can be applied before, during, and/or after pollution producing activities.

**Bioaccumulative pollutants** are 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.

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

**Coefficient of Variation (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.

**Criteria Continuous Concentration (CCC)** equals the highest concentration of a pollutant to which aquatic life can be exposed for an extended period of time (4 days) without deleterious effects.

**Criteria Maximum Concentration (CMC)** equals the highest concentration of a pollutant to which aquatic life can be exposed for a short period of time without deleterious effects.

**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.

**Detected, but Not Quantified (DNQ)** are those sample results less than the RL, but greater than or equal to the laboratory's MDL.

**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.

**Dilution Ratio** is the critical low flow of the upstream receiving water divided by the flow of the effluent discharged.

**Effluent Concentration Allowance (ECA)** is a value derived from the water quality criterion/objective, dilution credit, and ambient background concentration that is used, in conjunction with the coefficient of variation for the effluent monitoring data, to calculate a long-term average (LTA) discharge concentration. The ECA has the same meaning as waste load allocation (WLA) as used in U.S. EPA guidance (Technical Support Document For Water Quality-based Toxics Control, March 1991, second printing, EPA/505/2-90-001).

**Estimated Chemical Concentration** is the estimated chemical concentration that results from the confirmed detection of the substance by the analytical method below the ML value.

**Existing Discharger** means any discharger that is not a new discharger. An existing discharger includes an "increasing discharger" (i.e., an existing facility with treatment systems in place for its current discharge that is or will be expanding, upgrading, or modifying its existing permitted discharge after the effective date of this Policy).

**Infeasible** means not capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social, and technological factors.

**Inland Surface Waters** are all surface waters of the State that do not include the ocean, enclosed bays, or estuaries.

**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).

**Load Allocation (LA)** is the portion of receiving water's total maximum daily load that is allocated to one of its nonpoint sources of pollution or to natural background sources.

**Maximum Daily Flow** is the maximum flow sample of all samples collected in a calendar day.

**Maximum Daily Effluent Limitation (MDEL)** means the highest allowable daily discharge of a pollutant, over a calendar day (or 24-hour period). For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the arithmetic mean measurement of the pollutant over the day.

**MEC:** Maximum Effluent Concentration.

**Median** is 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)** is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero, as defined in 40 CFR 136, Appendix B, revised as of May 14, 1999.

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

**Mixing Zone** is a limited volume of receiving water that is allocated for mixing with a wastewater discharge where water quality criteria can be exceeded without causing adverse effects to the overall water body.

**New Discharger** includes any building, structure, facility, or installation from which there is, or may be, a discharge of pollutants, the construction of which commenced after the effective date of this Policy.

**Not Detected (ND)** are those sample results less than the laboratory's MDL.

**Objectionable Bottom Deposits** are an accumulation of materials or substances on or near the bottom of a water body, which creates conditions that adversely impact aquatic life, human health, beneficial uses, or aesthetics. These conditions include, but are not limited to, the accumulation of pollutants in the sediments and other conditions that result in harm to benthic organisms, production of food chain organisms, or fish egg development. The presence of such deposits shall be determined by RWQCB(s) on a case-by-case basis.

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

**Pollutant Minimization Program (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 Regional 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** means 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 SWRCB or RWQCB.

**Process Optimization** means minor changes to the existing facility and treatment plant operations that optimize the effectiveness of the existing treatment processes.

**Public Entity** includes the federal government or a state, county, city and county, city, district, public authority, or public agency.

**Reporting Level (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. The MLs included in this Order correspond to approved analytical methods for reporting a sample result that are selected by the Regional Water Board either from Appendix 4 of the SIP in accordance with section 2.4.2 of the SIP or established in accordance with section 2.4.3 of the SIP. 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 RL.

**Source of Drinking Water** is any water designated as municipal or domestic supply (MUN) in a RWQCB basin plan.

**Standard Deviation ( $\sigma$ )** is a measure of variability that is calculated as follows:

$$\sigma = \left( \frac{\sum[(x - \mu)^2]}{(n - 1)} \right)^{0.5}$$

where:

x is the observed value;

$\mu$  is the arithmetic mean of the observed values; and

n is the number of samples.

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

**Use Attainability Analysis** is a structured scientific assessment of the factors affecting the attainment of the use which may include physical, chemical, biological and economic factors as described in 40 CFR 131.10(g) (40 CFR 131.3, revised as of July 1, 1997).

**Water Effect Ratio (WER)** is an appropriate measure of the toxicity of a material obtained in a site water divided by the same measure of the toxicity of the same material obtained simultaneously in a laboratory dilution water.

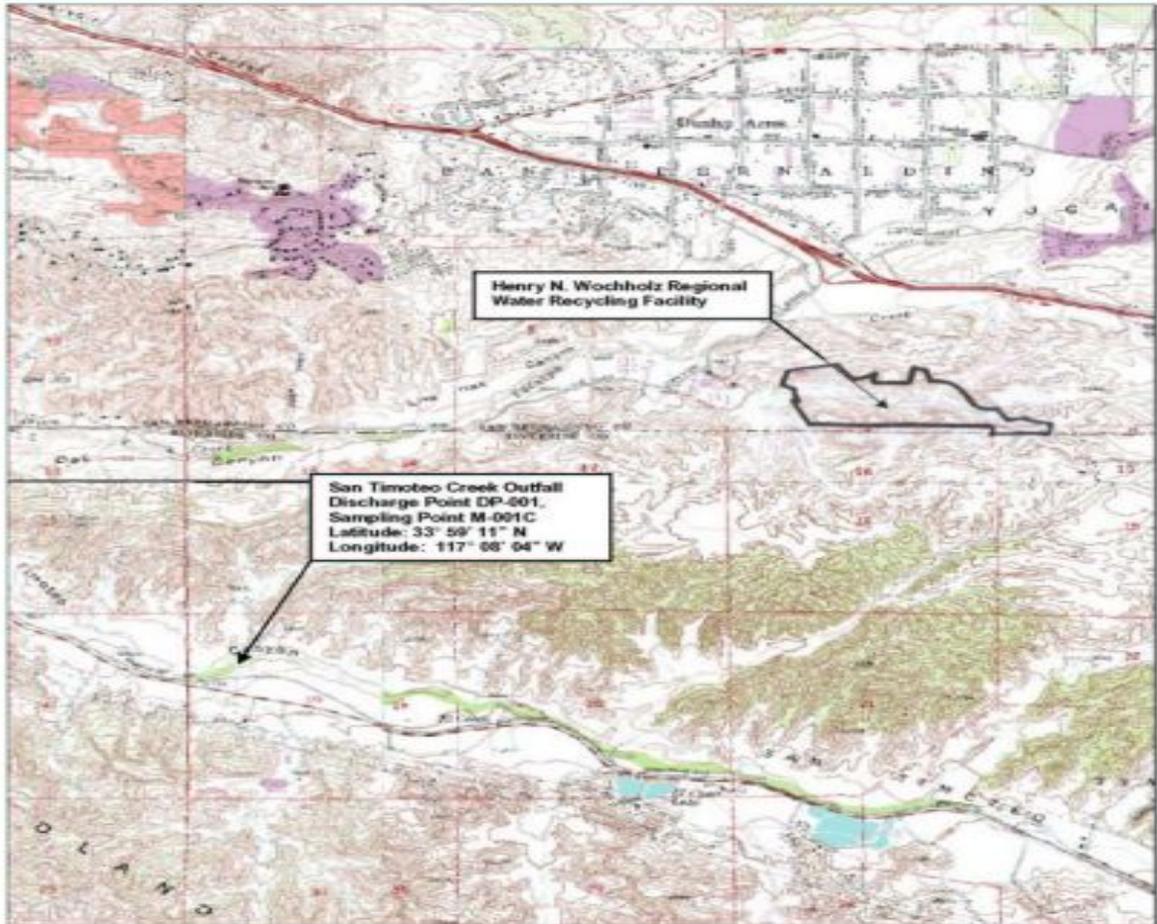
**12-Month Running Average Effluent Limitation (12-MRAEL):** the highest allowable average of monthly discharges over the last twelve months, calculated as the sum of all monthly discharges measured during last twelve months divided by the number of monthly discharges measured during that time period.

**Annual Volume-Weighted Average Effluent Limitation:** the highest allowable annual average concentration, calculated as the sum of volume discharged multiplied by the concentration for each discharge event during a 12 month period divided by the sum by the total volume discharged over the 12 month period.

**120-Month Running Average Effluent Limitation (120-MRAEL):** the highest allowable average of monthly discharges over the last 120 months, calculated as the sum of all monthly discharges measured during last 120 months divided by the number of monthly discharges measured during that time period.

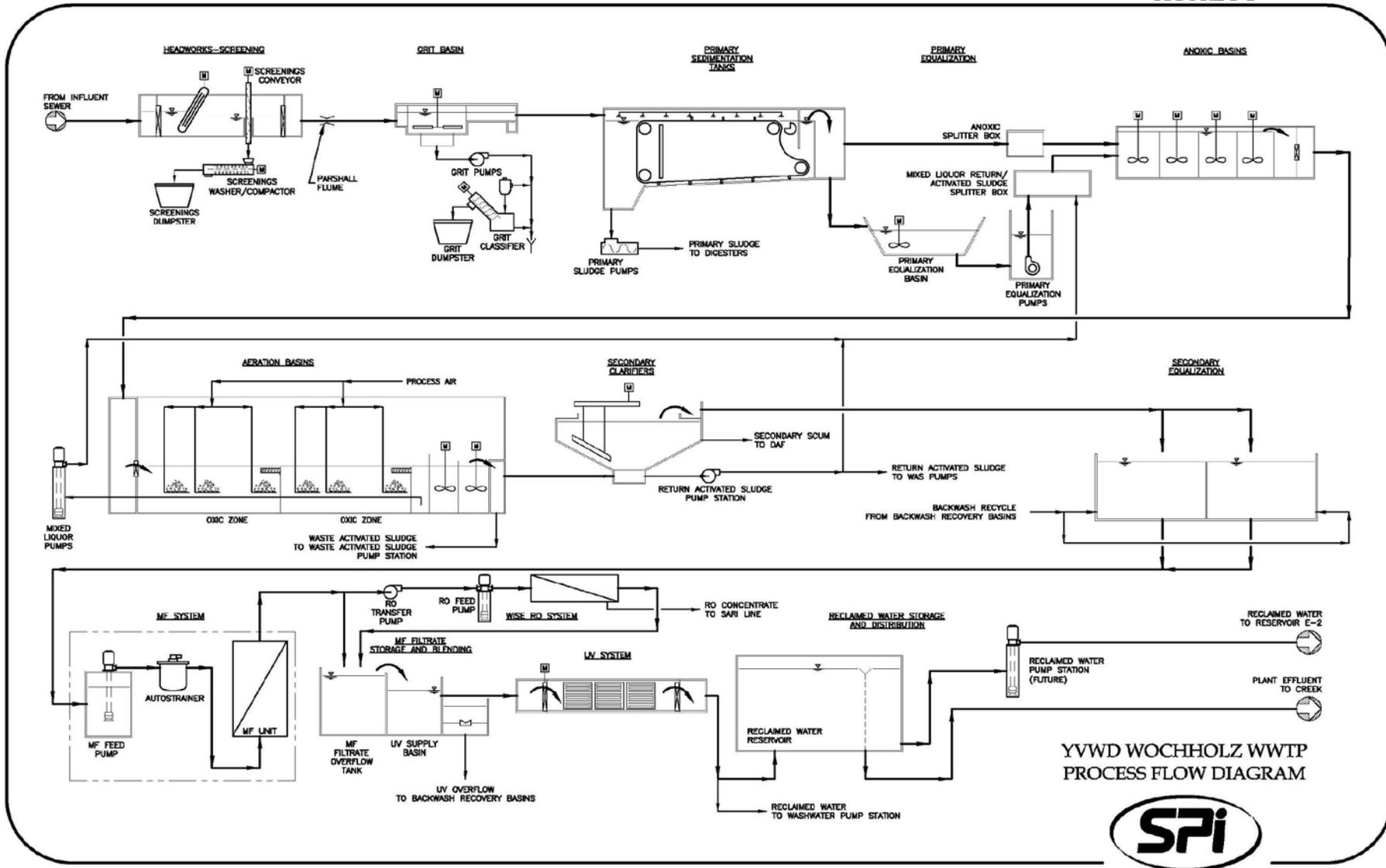
**ATTACHMENT B – LOCATION MAP**

**WOCHHOLZ REGIONAL WATER RECYCLING FACILITY**  
**Location Map**



**ATTACHMENT C – FLOW SCHEMATIC**

FIGURE 1-4



YVWD WOCHHOLZ WWTP  
PROCESS FLOW DIAGRAM



## **ATTACHMENT D – FEDERAL STANDARD PROVISIONS**

### **I. STANDARD PROVISIONS – PERMIT COMPLIANCE**

#### **A. Duty to Comply**

1. The Discharger must comply with all of the conditions of this Order. Any noncompliance constitutes a violation of the Clean Water Act (CWA) and the California Water Code (CWC) and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application [40 CFR §122.41(a)].
2. The Discharger shall comply with effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions, even if this Order has not yet been modified to incorporate the requirement [40 CFR §122.41(a)(1)].

#### **B. Need to Halt or Reduce Activity Not a Defense**

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

#### **C. Duty to Mitigate**

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

#### **D. Proper Operation and Maintenance**

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

#### **E. Property Rights**

1. This Order does not convey any property rights of any sort or any exclusive privileges [40 CFR §122.41(g)].

2. The issuance of this Order does not authorize any injury to persons or property or invasion of other private rights, or any infringement of State or local law or regulations [40 CFR §122.5(c)].

## **F. Inspection and Entry**

The Discharger shall allow the Regional Water Quality Control Board (RWQCB), State Water Resources Control Board (SWRCB), United States Environmental Protection Agency (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 [40 CFR §122.41(i)] [CWC 13383(c)]:

1. Enter upon the Discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order [40 CFR §122.41(i)(1)];
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order [40 CFR §122.41(i)(2)];
3. Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order [40 CFR §122.41(i)(3)];
4. Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the CWC, any substances or parameters at any location [40 CFR §122.41(i)(4)].

## **G. Bypass**

1. Definitions
  - a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility [40 CFR §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 §122.41(m)(1)(ii)].
2. Bypass not exceeding limitations – The Discharger may allow any bypass to occur which does not cause exceedances of effluent limitations, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions – Permit Compliance I.G.3, I.G.4, and I.G.5 below [40 CFR §122.41(m)(2)].

3. Prohibition of bypass – Bypass is prohibited, and the Regional Water Board may take enforcement action against a Discharger for bypass, unless [40 CFR §122.41(m)(4)(i)]:
  - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage [40 CFR §122.41(m)(4)(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 §122.41(m)(4)(B)]; and
  - c. The Discharger submitted notice to the Regional Water Board as required under Standard Provisions – Permit Compliance I.G.5 below [40 CFR §122.41(m)(4)(C)].
4. The Regional Water Board may approve an anticipated bypass, after considering its adverse effects, if the Regional Water Board determines that it will meet the three conditions listed in Standard Provisions – Permit Compliance I.G.3 above [40 CFR §122.41(m)(4)(ii)].
5. Notice
  - a. Anticipated bypass. If the Discharger knows in advance of the need for a bypass, it shall submit a notice, if possible at least 10 days before the date of the bypass [40 CFR §122.41(m)(3)(i)].
  - b. Unanticipated bypass. The Discharger shall submit notice of an unanticipated bypass as required in Standard Provisions - Reporting V.E below (24-hour notice) [40 CFR Section 122.41(m)(3)(ii)].

## H. Upset

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the 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 §122.41(n)(1)].

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

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

## II. STANDARD PROVISIONS – PERMIT ACTION

### A. General

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

### B. Duty to Reapply

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

### C. Transfers

This Order is not transferable to any person except after notice to the Regional Water Board. The Regional Water Board may require modification or revocation and reissuance of the Order to change the name of the Discharger and incorporate such other requirements as may be necessary under the CWA and the CWC [40 CFR §122.41(l)(3)] [40 CFR §122.61].

### III. STANDARD PROVISIONS – MONITORING

- A. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity [40 CFR §122.41(j)(1)].
- B. 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 C.F.R. subchapters N or O. Monitoring must be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 C.F.R. part 136 for the analysis of pollutants or pollutant parameters or required under 40 C.F.R. chapter 1, subchapter N or O. For the purposes of this paragraph, a method is sufficiently sensitive when:
1. The method minimum level (ML) is at or below the level of the 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 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 a facility's discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge; or
  2. The method has the lowest ML of the analytical methods approved under 40 C.F.R. part 136 or required under 40 C.F.R. chapter 1, subchapter N or O for the measured pollutant or pollutant parameter.

In the case of pollutants for which there are no approved methods under 40 C.F.R. part 136 or otherwise required under 40 C.F.R. subchapters N or O, monitoring must be conducted according to a test procedure specified in this Order for such pollutants. Monitoring for sludge use or disposal, must be conducted under test procedures approved under 40 CFR Part 136, unless otherwise specified in 40 CFR Part 503 unless other test procedures have been specified in this Order (40 C.F.R. §§ 122.21(e)(3), 122.41(j)(4), 122.44(i)(1)(iv).)

### IV. STANDARD PROVISIONS – RECORDS

- A. Except for records of monitoring information required by this Order related to the Discharger's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), the Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Regional Water Board Executive Officer at any time [40 CFR §122.41(j)(2)].

**B. Records of monitoring information shall include:**

1. The date, exact place, and time of sampling or measurements [40 CFR §122.41(j)(3)(i)];
2. The individual(s) who performed the sampling or measurements [40 CFR §122.41(j)(3)(ii)];
3. The date(s) analyses were performed [40 CFR §122.41(j)(3)(iii)];
4. The individual(s) who performed the analyses [40 CFR §122.41(j)(3)(iv)];
5. The analytical techniques or methods used [40 CFR §122.41(j)(3)(v)]; and
6. The results of such analyses [40 CFR §122.41(j)(3)(vi)].

**C. Claims of confidentiality for the following information will be denied [40 CFR §122.7(b)]:**

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

## **V. STANDARD PROVISIONS – REPORTING**

### **A. Duty to Provide Information**

The Discharger shall furnish to the Regional Water Board, SWRCB, or USEPA within a reasonable time, any information which the Regional Water Board, SWRCB, 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 Discharger shall also furnish to the Regional Water Board, SWRCB, or USEPA copies of records required to be kept by this Order [40 CFR §122.41(h)] [CWC 13267].

### **B. Signatory and Certification Requirements**

1. All applications, reports, or information submitted to the Regional Water Board, State Water Board, and/or USEPA shall be signed and certified in accordance with Standard Provisions – Reporting V.B.2, V.B.3, V.B.4, and V.B.5 below [40 CFR Section 122.41(k)].
2. All permit applications shall be signed by either a principal executive officer or ranking elected official. For purposes of this provision, a principal executive officer of a federal agency includes: (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of USEPA) [40 CFR Section 122.22(a)(3)].

3. All reports required by this Order and other information requested by the Regional Water Board, State Water Board, or USEPA shall be signed by a person described in Standard Provisions – Reporting V.B.2 above, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
  - a. The authorization is made in writing by a person described in Standard Provisions – Reporting V.B.2 above [*40 CFR Section 122.22(b)(1)*];
  - b. The authorization specified 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 Regional Water Board and State Water Board [*40 CFR Section 122.22(b)(3)*].

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

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

### **C. Monitoring Reports**

1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program (Attachment E) in this Order [40 CFR §122.41(l)(4)].
2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Regional Water Board or SWRCB for reporting results of monitoring of sludge use or disposal practices [40 CFR §122.41(l)(4)(i)].
3. If the Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, or as specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Regional Water Board [40 CFR §122.41(l)(4)(ii)].
4. Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order [40 CFR §122.41(l)(4)(iii)].

### **D. Compliance Schedules**

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

## E. Twenty-Four Hour Reporting

1. The Discharger shall report any noncompliance that may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the Discharger becomes aware of the circumstances. The written submission 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 [40 CFR §122.41(l)(6)(i)].
2. The following shall be included as information that must be reported within 24 hours under this paragraph [40 CFR §122.41(l)(6)(ii)]:
  - a. Any unanticipated bypass that exceeds any effluent limitation in this Order [40 CFR §122.41(l)(6)(ii)(A)].
  - b. Any upset that exceeds any effluent limitation in this Order [40 CFR §122.41(l)(6)(ii)(B)].
3. The Regional 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 §122.41(l)(6)(iii)].

## F. Planned Changes

The Discharger shall give notice to the Regional 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 §122.41(l)(1)]:

1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR §122.29(b) [40 CFR §122.41(l)(1)(i)]; or
2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in this Order nor to notification requirements under 40 CFR Part 122.42(a)(1) (see Additional Provisions—Notification Levels VII.A.1) [40 CFR §122.41(l)(1)(ii)].
3. The alteration or addition results in a significant change in the Discharger'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 §122.41(l)(1)(iii)].

## **G. Anticipated Noncompliance**

The Discharger shall give advance notice to the Regional Water Board or SWRCB of any planned changes in the permitted facility or activity that may result in noncompliance with General Order requirements [40 CFR §122.41(l)(2)].

## **H. Other Noncompliance**

The Discharger shall report all instances of noncompliance not reported under Standard Provisions – Reporting V.C, V.D, and V.E above at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting V.E above [40 CFR Section 122.41(l)(7)].

## **I. Other Information**

When the Discharger becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Regional Water Board, SWRCB, or USEPA, the Discharger shall promptly submit such facts or information [40 CFR §122.41(l)(8)].

## **VI. STANDARD PROVISIONS – ENFORCEMENT**

- A.** The Regional Water Board is authorized to enforce the terms of this permit under several provisions of the CWC, including, but not limited to, sections 13385, 13386, and 13387.

## **VII. ADDITIONAL PROVISIONS – NOTIFICATION LEVELS**

### **A. Publicly-Owned Treatment Works (POTWs)**

All POTWs shall provide adequate notice to the Regional Water Board of the following [40 CFR Section 122.42(b)]:

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

## Attachment E – Monitoring and Reporting Program

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## Attachment E – Monitoring and Reporting Program

California Water Code sections 13267 and 13383 authorize the Regional Water Board to require technical and monitoring reports. The Code of Federal Regulations (CFR) at 40 CFR 122.48 requires that all NPDES permits specify monitoring and reporting requirements. This Monitoring and Reporting Program establishes monitoring and reporting requirements that implement the state and federal regulations.

### I. GENERAL MONITORING PROVISIONS

1. All sampling and sample preservation shall be in accordance with the current edition of “*Standard Methods for the Examination of Water and Wastewater*” (American Public Health Association).
2. All laboratory analyses shall be performed in accordance with test procedures under 40 CFR 136 "Guidelines Establishing Test Procedures for the Analysis of Pollutants," promulgated by the United States Environmental Protection Agency (EPA), unless otherwise specified in this MRP. In addition, the Regional Water Board and/or EPA, at their discretion, may specify test methods that are more sensitive than those specified in 40 CFR 136. (See also I.7., below)
3. Chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the California State Water Resources Control Board, Division of Drinking Water or at laboratories approved by the Regional Water Board's Executive Officer or the USEPA.
4. Whenever the Discharger monitors any pollutant more frequently than is required by this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharge monitoring report specified by the Executive Officer.
5. In conformance with federal regulations 40 CFR 122.45(c), analyses to determine compliance with the effluent limitations for metals shall be conducted using the total recoverable method. For Chromium (VI), the dissolved method in conformance with 40 CFR 136 may be used to measure compliance with the Chromium (VI) limitation.
6. The Discharger shall require its laboratory to participate in the annual DMR-QA Study Program. There are two options to satisfy the requirements of the DMR-QA Study Program: (1) The Discharger can require its laboratory to obtain and analyze a DMR-QA sample as part of the DMR-QA Study; or (2) Per the waiver issued by U.S. EPA to the State Water Board, the Discharger can submit the results of the most recent Water Pollution Performance Evaluation Study from its laboratory. 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.

7. For effluent monitoring:

- a. The Discharger shall conduct effluent monitoring for priority pollutants with effluent limits in this Order, by using sufficiently sensitive methods as defined in Section III.B. of Attachment D of this Order. The Discharger may select a test method from Attachment H, an approved method described in 40 CFR part 136, a method required under 40 CFR Chapter I, Subchapter N or O, or approved by U.S. EPA (such as the 1600 series) if authorized by the Regional Water Board, unless a particular method and/or minimum level (ML) is required in the MRP. However, the Discharger must require its testing laboratory to calibrate the analytical system down to the minimum level (ML)<sup>1</sup> that corresponds to the selected method and the ML must be below the effluent limitation. If no ML value is below the effluent limitation, then the lowest ML value and its associated analytical method shall be used. Any internal quality control data associated with the sample must be reported when requested by the Executive Officer. The Regional Water Board will reject the quantified laboratory data if quality control data is unavailable or unacceptable.
- b. The Discharger shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols:
  - 1) Sample results greater than or equal to the reported ML shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).
  - 2) Sample results less than the reported ML, but greater than or equal to the laboratory's current Method Detection Limit (MDL)<sup>2</sup>, shall be reported as "Detected, but Not Quantified," or "DNQ." The estimated chemical concentration of the sample shall also be reported.
  - 3) Sample results not detected above the laboratory's MDL shall be reported as "not detected" or "ND."
- c. For receiving water monitoring and for those priority pollutants without effluent limitations, the Discharger shall select a sufficiently sensitive test method from Attachment H, a method described in the current edition of 40 CFR part 136 or approved by U.S. EPA (such as the 1600 series) if authorized by the Regional Water Board, unless a particular method and/or minimum level (ML) is required in the MRP. The Discharger shall further require its testing laboratory to quantify constituent concentrations to the lowest achievable ML and MDL that corresponds to the selected method and the ML must be equal or lower than the trigger concentration

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<sup>1</sup> *Minimum level is the concentration at which the entire analytical system must give a recognizable signal and acceptable point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.*

<sup>2</sup> *MDL is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analytical concentration is greater than zero, as defined in 40 CFR 136, Appendix B, revised as of May 14, 1999.*

value listed in Attachment I of this Order. In situations where the priority pollutant trigger concentration value, as specified for that pollutant in Attachment I is below the ML and the Discharger cannot achieve an MDL value for that pollutant below the ML value, the Discharger shall submit justification why a lower MDL value cannot be achieved. Justification shall be submitted together with monthly monitoring reports.

8. For non-priority pollutants monitoring, all analytical data shall be reported with method detection limits, as determined by the procedure found in the current edition of 40 CFR 136.
9. For every item of monitoring data where the requirements are not met, the monitoring report shall include a statement discussing the reasons for noncompliance, the actions undertaken or proposed that will bring the discharge into full compliance with requirements at the earliest time, and an estimate of the date when the Discharger will be in compliance. The Discharger shall notify the Regional Water Board by letter when compliance with the time schedule has been achieved.
10. The Discharger shall assure that records of all monitoring information are maintained and accessible for a period of at least five years (this retention period supersedes the retention period specified in Section IV.A. of Attachment D) from the date of the sample, report, or application. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or by the request of the Regional Water Board at any time. Records of monitoring information shall include:
  - a. The information listed in Attachment D- IV Standard Provisions – Records, subparagraph B. of this Order;
  - b. The laboratory which performed the analyses;
  - c. The date(s) analyses were performed;
  - d. The individual(s) who performed the analyses;
  - e. The modification(s) to analytical techniques or methods used;
  - f. All sampling and analytical results, including
    - 1) Units of measurement used;
    - 2) Minimum reporting level for the analysis (minimum level);
    - 3) Results less than the reporting level but above the method detection limit (MDL);
    - 4) Data qualifiers and a description of the qualifiers;
    - 5) Quality control test results (and a written copy of the laboratory quality assurance plan);
    - 6) Dilution factors, if used; and
    - 7) Sample matrix type.
  - g. All monitoring equipment calibration and maintenance records;
  - h. All original strip charts from continuous monitoring devices;
  - i. All data used to complete the application for this Order; and,
  - j. Copies of all reports required by this Order.
  - k. Electronic data and information generated by the Supervisory Control and Data Acquisition (SCADA) System.\

11. The flow measurement system shall be calibrated at least once per year or more frequently, to ensure continued accuracy.
12. All monitoring instruments and devices used by the Discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. In the event that continuous monitoring equipment is out of service for greater than a 24-hour period, the Discharger shall obtain a representative grab sample each day the equipment is out of service. The Discharger shall correct the cause(s) of failure of the continuous monitoring equipment as soon as practicable. In its monitoring report, the Discharger shall specify the period(s) during which the equipment was out of service and if the problem has not been corrected, shall identify the steps which the Discharger is taking or proposes to take to bring the equipment back into service and the schedule for these actions.
13. Monitoring and reporting shall be in accordance with the following:
  - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
  - b. The monitoring and reporting of influent, effluent, and sludge shall be done more frequently as necessary to maintain compliance with this Order and or as specified in this order.
  - c. Whenever the Discharger monitors any pollutant more frequently than is required by this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharge monitoring report specified by the Executive Officer.
  - d. A "grab" sample is defined as any individual sample collected in less than 15 minutes.
  - e. A composite sample is defined as a combination of no fewer than eight individual grab samples obtained over the specified sampling period. The volume of each individual grab sample shall be proportional to the discharge flow rate at the time of sampling. The compositing period shall equal the specific sampling period, or 24 hours, if no period is specified.
  - f. 24-hour composite samples shall be collected continuously during a 24-hour operation of the facility.
  - g. Daily samples shall be collected on each day of the week.
  - h. Monthly samples shall be collected on any representative day of each month.
  - i. Quarterly samples: A representative sample shall be taken on any representative day of January, April, July, and October and test results shall be reported in either micrograms/liter (ug/L) or milligrams/liter (mg/L), as appropriate, by the last day of the month following the month that the sample was taken.

j. Semi-annual samples shall be collected in January and July.

k. Annual samples shall be collected in accordance with the following schedule:

**Table 1. Annual Sampling Schedule**

<b>Year</b>	<b>Annual Samples</b>
2015	October
2016	January
2017	April
2018	July
2019	October
2020	January

## II. MONITORING LOCATIONS

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

**Table 2. Monitoring Station Locations**

Discharge Point Name	Monitoring Location Name	Monitoring Location Description	Latitude and Longitude
--	M-INF	Upstream of Grit Basin, downstream of Barscreens	34 <sup>0</sup> .00.394" N 117 <sup>0</sup> .05.431' W
001	M-001A	Downstream of UV System. San Timoteo Creek discharge	34 <sup>0</sup> .00' 24" N 117 <sup>0</sup> .05' 46" W
002	REC-001	Downstream of Recycled Water Pump Station	34 <sup>0</sup> .00' 29" N 117 <sup>0</sup> .05' 58" W
003	M-001B	Downstream of UV System. San Timoteo Creek discharge	34 <sup>0</sup> .00' 24" N 117 <sup>0</sup> .05' 46" W
--	R-001U	Station A Monitoring – Within 100 feet upstream of Creek discharge	Location not fixed
--	R-001D	Station B Monitoring – Within 500 feet downstream of Creek discharge	Location not fixed

## III. INFLUENT MONITORING REQUIREMENTS

### A. Monitoring Locations at M-INF

1. A sampling station shall be established for the point of inflow to the treatment plant. The sampling station shall be located upstream of any in-plant return flows and where representative samples of the influent of the treatment plant can be obtained.
2. The Discharger shall monitor the influent to the facility at Monitoring Location M-INF as follows:

**Table 3. Influent Monitoring Requirements**

Constituent	Units	Type of Sample	Minimum Frequency of Sampling & Analysis	Required Analytical Test Method and ML
Flow	MGD	Recorder/Totalizer	Continuous	--
Specific Conductance	µmhos/cm	Recorder	"	See Section I.2, above
pH	pH units	Recorder	"	"
BOD <sub>5</sub>	mg/l	Composite	Weekly	"
Total Suspended Solids	mg/l	Composite	Weekly	"

#### IV. EFFLUENT MONITORING REQUIREMENTS

The Discharger shall monitor the wastewater discharged from Discharge Points 001 and 003 at Monitoring Location 001 as follows.

##### A. Effluent Monitoring Location for DP-001 and DP-003

1. The Discharger shall monitor tertiary treated effluent for Discharge Point 001 at Monitoring Location M-001A and M-001B as follows.

**Table 4. Effluent Monitoring at M-001A and M-001B**

Constituent	Units	Type of Sample	Minimum Frequency of Sampling & Analysis	Required Analytical Test Method
Flow	mgd	Recorder/ Totalizer	Continuous	—
Specific Conductance	µmhos/cm	Recorder	“	See Section I.2., above
pH	pH units	Recorder	“	“
Turbidity	NTU	Recorder	“	“
Coliform Organisms	MPN per 100 ml	Grab	Daily	“
BOD <sub>5</sub>	mg/l	Composite	Weekly	“
Total Suspended Solids	“l	“	Weekly	“
Ammonia-Nitrogen	“	Grab	Monthly	“
Total Inorganic Nitrogen	mg/l	Composite	“	“
Total Dissolved Solids	mg/l	“	“	“
Total Hardness	mg/l	“	“	“
Toxicity	TUc	“	“	See Section V., below
Bis (2-ethylhexyl) phthalate	µg/L	Grab	“	See Sections I.2., I.7., above
Remaining volatile organic portion of EPA Priority Pollutants (See Attachment “G”)	µg/l	Grab	Annually (See Sections I.13.j., above, and IV.2., below)	“
Remaining EPA Priority Pollutants <sup>3</sup> (See Attachment “G”)	µg/l	Composite	“	“

<sup>3</sup> *The Discharger is not required to analyze for asbestos.*

2. The monitoring frequency for those priority pollutants that are detected during the required annual monitoring at a concentration greater than the concentration specified for that pollutant<sup>4</sup> in Attachment I shall be accelerated to quarterly. To return to the monitoring frequency specified, the Discharger shall request and receive approval from the Regional Water Board's Executive Officer or designee.

## V. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

1. The Discharger shall conduct critical life stage chronic toxicity testing in accordance with Method 1002.0 - Survival and Reproduction test for water flea, *Ceriodaphnia dubia* as specified in "Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms", Fourth Edition, Environmental Monitoring Systems Laboratory, U.S. Environmental Protection Agency 2002, Cincinnati, Ohio (October 2002, EPA-821-R-02-013).
2. The Discharger shall establish procedures to ensure that the toxicity testing laboratory notifies the Discharger of the results of toxicity testing within twenty-four hours of completing such test.
3. The Discharger shall increase the frequency of chronic toxicity testing to every two weeks whenever any test result exceeds 1.0 TUc. The first test under the accelerated schedule shall be conducted within two weeks of receiving notice of the test which exceeds 1.0 TUc, and every two weeks thereafter. The Discharger may resume the regular test schedule when two consecutive chronic toxicity tests result in 1.0 TUc, or when the results of the Initial Investigation Reduction Evaluation conducted by the Discharger have adequately addressed the identified toxicity problem.
4. Results for both survival and reproduction endpoints shall be reported in TUc, where  $TUc = 100/NOEC$  or  $100/ICp$  or  $ECp$  ( $p$  is the percent effluent). The no observed effect concentration (NOEC) is the highest concentration of toxicant to which organisms are exposed in a chronic test, that causes no observable adverse effect on the tests organisms (e.g., the highest concentration of toxicant to which the values for the observed responses are not statistically significant different from the controls). The inhibition concentration (IC) is a point estimate of the toxicant concentration that causes a given percent reduction in a non-quantal biological measurement (e.g., reproduction or growth) calculated from a continuous model (the EPA Interpolation Method). The effective concentration (EC) is a point estimate of the toxicant concentration that would cause a given percent reduction in quantal biological measurement (e.g., larval development, survival) calculated from a continuous model (e.g., probit).
5. Additional Testing Requirements
  - a. A series of at least five dilutions and a control will be tested. The series shall be within 60% to 100% effluent concentration.

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<sup>4</sup> For those priority pollutants without specified criteria values, accelerated monitoring is not required.

- b. If organisms are not cultured in-house, concurrent testing with reference toxicants shall be conducted. Where organisms are cultured in-house, monthly reference toxicant testing is sufficient. Reference toxicants shall also be conducted using the same test conditions as the effluent toxicity test (e.g., same test duration, etc).
  - c. If either of the reference toxicant test or the effluent tests do not meet all test acceptability criteria as specified in the manual<sup>5</sup>, then the Discharger must re-sample and re-test within 14 days or as soon as the Discharger receives notification of failed tests.
  - d. Control and dilution water should be receiving water or lab water, as appropriate, as described in the manual. If the dilution water used is different from the culture water, a second control, using culture water shall also be used.
6. Quality Assurance/Control:
- a. A quality assurance/quality control (QA/QC) program shall be instituted to verify the results of the effluent toxicity monitoring program. The QA/QC program shall include but shall not be limited to the following: (1) Selection of an independent testing laboratory; (2) Approval by the Regional Board's Executive Officer or Executive Officer's designee of the independent testing laboratory; (3) Once during the year, the Discharger shall split samples with the independent laboratory for conducting chronic toxicity testing; (4) Results from the independent laboratory shall be submitted to the Regional Board and the Discharger for evaluation; (5) The Discharger shall review the test acceptability criteria in accordance with the EPA test protocols, EPA-821-R-02-013.
  - b. Results from the independent laboratory of the annual QA/QC split samples are to be used for Quality Assurance/Quality Control (QA/QC) purposes only and not for purposes of determining compliance with other requirements of this Order.
7. The use of alternative methods for measuring chronic toxicity may be considered by the Executive Officer on a case-by-case basis. The use of a different test species, in lieu of conducting the required test species may be considered/approved by the Executive Officer on a case-by case basis upon submittal of the documentation supporting Discharger's determination that a different species is more sensitive and appropriate.
8. Reporting: Results of all toxicity testing conducted within the month following the reporting period shall be submitted monthly in accordance with "Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms", fourth edition, Environmental Monitoring Systems Laboratory, U.S. Environmental Protection Agency 2002, Cincinnati, Ohio (October 2002, EPA-821-R-02-013). The report shall include a determination of the median value of all chronic toxicity testing results conducted during the two previous months.

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<sup>5</sup> Refers to USEPA Manual "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. - 4<sup>th</sup> Ed., October 2002, EPA-821-R-02-013."

9. Whenever an Initial Investigation Reduction Evaluation is conducted, the results of the evaluation shall be submitted upon completion. In addition, monthly status reports shall be submitted as part of the Discharger’s monitoring report for the previous month.

## VII. RECYCLED WATER MONITORING REQUIREMENTS

### A. Monitoring for Discharge Point REC-002

1. The Discharger shall monitor recycled wastewater at REC-001 only if when there is no effluent flow from DP-001. If monitoring is conducted at M-001A at the same time, then only the flow rate shall be measured at REC-001.

**Table 5. Reclamation Monitoring at M-001A or REC-001**

Parameter	Units	Sample Type	Minimum Sampling & Testing Frequency	Required Analytical Test Method
Flow	mgd	Recorder/Totalizer	Continuous	---
pH	standard units	Recorder	“	--
Turbidity	NTU	“	“	See Section I.2., above
Coliform Organisms	MPN per 100 ml	Grab	Daily	“
Biochemical Oxygen Demand 5-day @ 20°C	mg/L	Composite	Weekly	“
Total Suspended Solids	mg/L	Composite	Weekly	“
Total Inorganic Nitrogen	mg/l	24-hr composite	monthly	“
TDS	mg/l	24-hr composite	monthly	“

### B. Monitoring Users

Whenever recycled water is supplied to a user, the volume of recycled water, the user of recycled water, the locations of those sites including the names of the groundwater management zones underlying the recycled water use sites, type of use (e.g. irrigation, industrial, etc) and the dates at which water is supplied shall be recorded on a permanent log. A copy of the log and a summary report of water use by groundwater management zones shall be submitted on a quarterly basis with the monthly reports due in February, May, August, and November.

## VIII. RECEIVING WATER MONITORING REQUIREMENTS – SURFACE WATER AND GROUNDWATER

### A. Monitoring Location R-001U for Surface Water

The Discharger shall monitor receiving water at R-001U as follows:

**Table 6. Receiving Water Monitoring at R-001U**

Parameter	Units	Sample Type	Minimum Sampling & Testing Frequency	Required Analytical Test Method
Dissolved Oxygen	mg/L	Grab	Weekly	See Sections I.2., I.3., above of this MRP
Temperature	°C	Grab	Weekly	"
pH	pH unit	Grab	Weekly	"
Hardness	mg/L	Grab	Monthly	"
EPA Priority Pollutants	µg/L	Grab	Annually	"

### C. Monitoring Location R-001D for Surface Water:

The Discharger shall monitor receiving water at R-001D as follows:

**Table 7. Receiving Water Monitoring at R-001D**

Parameter	Units	Sample Type	Minimum Sampling & Testing Frequency	Required Analytical Test Method
Dissolved Oxygen	mg/L	Grab	weekly	See Section I.A.3., above, of this MRP
Temperature	°C	Grab	weekly	See Section I.A.3., above, of this MRP
pH	pH unit	Grab	weekly	"
Color change, foam, deposition of material, odor	--	observe	weekly	See Section I.A.3., above, of this MRP

## **E. Surface Water Monitoring for Max Benefit Commitments**

The Discharger shall implement the surface water monitoring program specified in Attachment J of the Order. At a minimum, the surface water monitoring program shall include the collection of monthly measurements of TDS and nitrogen components in San Timoteo Creek and Santa Ana River (see Table 5-9b of the amended Basin Plan) and shall submit reports as required therein. Annual reports shall be submitted by February 15 of each year

## **F. Groundwater Monitoring for Max Benefit Commitments**

The Discharger shall implement the ambient groundwater water monitoring program for the Yucaipa and San Timoteo Management Zones that the Discharger submitted in February 2004 and approved by the Regional Board on April 15, 2005 and shall submit reports as required herein (see provisions VI.C.2.f. of the Order). Annual reports shall be submitted by February 15 of each year

## **IX. OTHER MONITORING REQUIREMENTS**

### **A. Biosolids Monitoring**

1. If biosolids are used for land application, including composting, the Discharger must monitor for the pollutants included in Table 1 of 40 CFR Section 503.13 at the frequencies specified in 40 CFR 503.16, which is determined by the amount (tonnage) of biosolids that is land applied or bagged/containerized for distribution, and demonstrate pollutant, pathogen and vector attraction reductions that are specified for land application. In addition, if the biosolids are disposed at a landfill, the Discharger must conduct a paint filter test on a representative biosolids sample to determine if the biosolids are suitable for this type of disposal. The monitoring results must be submitted to EPA Region 9 at the specified reporting frequency and format. The monitoring report must include details regarding the biosolids sample type (composite or grab) and monitoring location.
2. The Discharger shall maintain a permanent log of solids hauled away from the treatment facilities for use/disposal elsewhere, including the date hauled, the volume or weight (in dry tons), type (screening, grit, raw sludge, biosolids), application (agricultural, composting, etc), and destination. This information shall be reported quarterly.

### **B. Stormwater Monitoring – Not Applicable**

### C. Pretreatment Monitoring and Reporting

1. Annually, the Discharger shall submit a report to the Regional Water Board, the State Water Resources Control Board and the EPA Region 9 describing the pretreatment activities within the service area during the previous year. In the event that any control authority within the service area is not in compliance with any conditions or requirements of this Order or their approved pretreatment program (such as due to industrial user discharges, inter jurisdictional agency agreement implementation issues, or other causes,) then the Discharger shall also include the reasons for non-compliance and state how and when the Discharger and the control authority shall comply with such conditions and requirements. This annual report shall cover operations from July 1 through June 30 of each fiscal year and is due on September 1 of each year. The report shall contain, but not be limited to, the following information:
  - a. All significant industrial users (SIUs) which violated any standards or reporting requirements during the year;
  - b. The violations committed (distinguish between categorical and local limits);
  - c. The enforcement actions undertaken; and
  - d. The status of active enforcement actions from previous years, including closeouts (facilities under previous enforcement actions which attained compliance during the year).
  - e. A summary of analytical results from representative, flow-proportioned, 24-hour composite sampling of the POTW's influent and effluent wastewaters for those pollutants which are known or suspected to be discharged by industrial users (IUs) as identified by EPA under Section 307(a) of the CWA. The summary will include the result of annual full priority pollutant scan, with quarterly samples analyzed only for those pollutants<sup>6</sup> detected in the full scan. The Discharger shall also provide any influent or effluent monitoring data for non-priority pollutants which the Discharger believes may be causing or contributing to Interference, Pass Through or adversely impacting sludge quality. Sampling and analysis shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto.
  - f. A discussion of any upset, interference, or pass-through incidents at the treatment plant (if any), which the Discharger knows or suspects were caused by IUs of the POTW system. The discussion shall include the following:
    - 1) The reasons why the incidents occurred, the corrective actions taken, and, if known, the name and address of the IU(s) responsible.

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<sup>6</sup> *The Discharger is not required to analyze for asbestos.*

- 2) 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, interference or noncompliance with sludge disposal requirements.
- g. A complete and updated list of the Discharger's significant industrial users (SIUs), including names, Standard Industrial Classification (SIC) code(s) and addresses, and a list of any SIU deletions and/or additions. The Discharger shall provide a brief explanation for each deletion. The SIU 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 more stringent than Federal Categorical Standards and those which are not subject to local limits.
  - h. A list or table characterizing the industrial compliance status of each SIU, including:
    - 1) SIU name;
    - 2) Industrial category;
    - 3) The type (processes) of wastewater treatment in place;
    - 4) Number of samples taken by the POTW during the year;
    - 5) Number of samples taken by the SIU during the year;
    - 6) Whether all needed certifications (if allowed) were provided by SIUs which have limits for total toxic organics;
    - 7) Federal and Regional Standards violated during the year, reported separately;
    - 8) Whether the SIU at any time in the year was in Significant Noncompliance (SNC)<sup>7</sup>, as defined by 40 CFR 403.12 (f)(2)(vii); and
    - 9) A summary of enforcement actions against the SIU taken during the year, including the type of action, final compliance date, and amount of fines assessed/collected (if any). Proposed actions, if known, should be included.
    - 10) Number of inspections conducted at each SIU during the year.
  - i. A compliance summary table which includes:
    - 1) SIU's which were in SNC at any time during the year;
    - 2) The total number of SIUs which are in SNC with pretreatment compliance schedules during the year;
    - 3) The total number of notices of violation and administrative orders issued against SIUs during the year;
    - 4) The total number of civil and criminal judicial actions filed against SIUs during the year;
    - 5) The number of SIUs which were published as being in SNC during the year; and
    - 6) The number of IUs from which penalties were collected during the year.

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<sup>7</sup> SNC is determined at the beginning of each quarter based on data of the previous six months.

- j. A short description of any significant changes in operating the pretreatment program which differ from the previous year including, but not limited to changes concerning:
    - 1) The program's administrative structure;
    - 2) Local industrial discharge limitations;
    - 3) Monitoring program or monitoring frequencies;
    - 4) Legal authority or enforcement policy;
    - 5) Funding mechanisms; and
    - 6) Resource requirements and/or staffing levels.
  - k. A summary of the annual pretreatment budget, including the cost of pretreatment program functions and equipment purchases.
  - l. A summary of public participation activities to involve and inform the public.
  - m. A description of any changes in sludge disposal methods and a discussion of any concerns not described elsewhere in the report.
1. The cumulative number of industrial users that the Discharger has notified regarding Baseline Monitoring Reports and the cumulative number of industrial user responses.

## **X. REPORTING REQUIREMENTS**

### **A. General Monitoring and Reporting Requirements**

1. The Discharger shall comply with all Federal Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.
2. Discharge monitoring data shall be submitted in a format acceptable by the Regional Water Board. Specific reporting format may include preprinted forms and/or electronic media. The results of all monitoring required by this Order shall be reported to the Regional Water Board, and shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this order.
3. Consistent with Attachment D, Section III.B, the Discharger shall submit to the Regional Water Board reports necessary to determine compliance with effluent limitations and applicable water quality objectives in this Order and shall follow the chemical nomenclature and sequential order of priority pollutant constituents shown in Attachment "G" – Priority Pollutant Lists. The Discharger shall report with each sample result:
  - a. The method minimum level (ML) selected; and
  - b. The sufficiently sensitive analytical method, as determined by the procedure found in Attachment H, the current edition of 40 CFR 136 or 40 CFR Chapter I, subchapter N or O.

- c. In situations where the effluent limits or trigger concentration value for the pollutant in Attachment I is below the minimum level value and the Discharger cannot achieve an MDL value for that pollutant below or equal to the ML value, the Discharger shall submit justification why a lower MDL value cannot be achieved. Justification shall be submitted together with monthly monitoring reports.
4. For every item of monitoring data where the requirements are not met, the monitoring report shall include a statement discussing the reasons for noncompliance, and of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time, and an estimate of the date when the Discharger will be in compliance. The Discharger shall notify the Regional Water Board by letter when compliance with the time schedule has been achieved.
5. The reports for June and December shall include a roster of plant personnel, including job titles, duties, and level of State certification for each individual.

6. 10. The Discharger shall report monitoring results for specific parameters in accordance with the following table:

**Table 8. Reporting Requirements**

Parameter	Measurement
Flow	Daily total flow
pH	Daily High and daily low
Electrical Conductivity	Daily High
Turbidity	Daily maximum

7. The Discharger shall file a written report with the Regional Board within ninety (90) days after the average dry-weather waste flow for any month equals or exceeds 75 percent of the design capacity of the waste treatment and/or disposal facilities. The Discharger's senior administrative officer shall sign a letter which transmits that report and certifies that the policy making body is adequately informed about it. The report shall include:
- Average daily flow for the month, the date on which the instantaneous peak flow occurred, the rate of that peak flow, and the total flow for the day.
  - The Discharger's best estimate of when the average daily dry-weather flow rate will equal or exceed the design capacity of the treatment facilities.
  - The Discharger's intended schedule for studies, design, and other steps needed to provide additional capacity for the waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units.

## **B. Self Monitoring Reports (SMRs)**

- The Discharger shall submit Self-Monitoring Reports (SMRs) electronically 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 Web site will provide additional directions for SMR submittal in the event there will be service interruption for electronic submittal.
- The Discharger shall report in the SMR the results for all monitoring specified in this MRP under Sections III through IX. Additionally, the Discharger shall report in the SMR the results of any special studies, acute and chronic toxicity testing, TRE/TIE, PMP, and Pollution Prevention Plan required by Special Provisions – VI.C. of this Order. The Discharger shall submit monthly, quarterly, and annual SMRs including the results of all required monitoring using USEPA-approved test methods or other test methods specified in this Order. If the Discharger monitors any pollutant more frequently than required by this Order, the results of this monitoring shall be included in the calculations and reporting of the data submitted in the SMR.

3. Monitoring periods and reporting for all required monitoring shall be completed according to the following schedule:

**Table 9. Monitoring and Reporting Schedule**

Sampling Frequency	Monitoring Period Begins On	Monitoring Period	SMR Due Date
Continuous	The effective day of this Order	All	Submit with monthly SMR
Daily	The effective day of this Order	(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	The effective day of this Order	Sunday through Saturday	Submit with monthly SMR
Monthly	The effective day of this Order	1 <sup>st</sup> day of calendar month through last day of calendar month	First day of the second month following the reporting period, submit as monthly SMR
Quarterly	The effective day of this Order	January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31	First day of the second month following the reporting period, submit with monthly SMR
Semiannually	The effective day of this Order	January 1 through June 30 July 1 through December 31	First day of the second month following the reporting period, submit with monthly SMR
Annually	The effective day of this Order	1 <sup>st</sup> day of calendar month through last day of calendar month (See Section I.13.j, above)	First day of the second month following the reporting period, submit with monthly SMR

4. Reporting Protocols. The Discharger shall report with each sample result the applicable Reporting Level (RL) and the current Method Detection Limit (MDL), as determined by the procedure in 40 CFR Part 136.
5. The Discharger shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols:
- 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).
  - 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 as well as the words "Estimated Concentration" (may be shortened to "Est. Conc."). The laboratory may, if such information is available, include numerical estimates of the data quality for the reported result. Numerical estimates of data quality may be percent accuracy ( $\pm$  a percentage of the reported value), numerical ranges (low to high), or any other means considered appropriate by the laboratory.

- Sample results less than the laboratory's MDL shall be reported as "Not Detected," or ND.

6. The Dischargers shall instruct laboratories to establish calibration standards so that the ML value (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time is the Discharger to use analytical data derived from *extrapolation* beyond the lowest point of the calibration curve.
7. Multiple Sample Data. When determining compliance with an AMEL for priority pollutants and more than one sample result is available in a month, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of “Detected, but Not Quantified” (DNQ) or “Not Detected” (ND). In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:
  - a. The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
  - b. The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.

### **C. Discharge Monitoring Reports (DMRs)**

The Discharger to electronically submit USEPA Discharge Monitoring Reports (DMRs) using the CIWQS Program.

### **D. Other Reports**

The Discharger shall report the results of any special studies, acute and chronic toxicity testing, TRE/TIE, PMP, and Pollution Prevention Plan required by Special Provisions – VI.C. of this Order. The Discharger shall submit reports with the first monthly SMR scheduled to be submitted on or immediately following the report due date in compliance with SMR reporting requirements described in subsection X.B.3 above.

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## Attachment F – Fact Sheet

As described in Section II of this Order, this Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this Order.

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

### I. DISCHARGER/FACILITY INFORMATION

The following table summarizes administrative information related to the facility.

**Table 1. Discharger/Facility Information**

<b>WDID</b>	8 362222001
<b>Discharger</b>	Yucaipa Valley Water District
<b>Discharger Legally Responsible Officer</b>	Joseph Zoba, General Manager, (909) 797-5119
<b>Mailing Address</b>	P.O. Box 730, Yucaipa, CA 92399
<b>Name of Facility</b>	Henry N. Wochholz Regional Water Recycling Facility
<b>Facility Address</b>	880 West County Line Road, P.O. Box 730, Yucaipa, CA 92399
<b>Facility Contact</b>	J. Kevin King, Wastewater Superintendent, (909) 795-2491
<b>Type of Facility</b>	POTW/Water Reclamation Facility
<b>Major or Minor Facility</b>	Major
<b>Billing Address</b>	Same as Mailing Address
<b>Threat to Water Quality</b>	1
<b>Complexity</b>	A
<b>Pretreatment Program</b>	Y
<b>Reclamation Requirements</b>	Producer
<b>Facility Permitted Flow</b>	8 mgd
<b>Facility Design Flow</b>	8 mgd
<b>Watershed</b>	Santa Ana River Watershed
<b>Receiving Water</b>	San Timoteo Creek; San Timoteo, Yucaipa, and Beaumont Groundwater Management Zones
<b>Receiving Water Types</b>	Stream, Groundwater Management Zones

The Yucaipa Valley Water District (hereinafter Discharger, or YVWD) is the owner and operator of the Henry N. Wochholz Regional Water Recycling Facility (hereinafter Facility), a publicly owned wastewater treatment plant and water recycling facility.

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.

Treated wastewater is discharged from the Facility to Reach 3 of San Timoteo Creek, a water of the United States. Discharges are currently regulated by amended Order R8-2007-0012, which was adopted on February 2, 2007 and expired on February 2, 2012. Concurrently on February 2, 2007, the Regional Board issued a cease and desist Order (CDO) R8-2007-0010, which required the Discharger to comply with tertiary treatment standards (coliform and turbidity) and total inorganic nitrogen limitations. The Discharger completed a major construction project which included improvements to existing facilities in order to achieve compliance with the CDO. The construction was completed on June 1, 2008 and the Discharger achieved full compliance by January 2009. As such, Cease and Desist Order No. R8-2007-0010 is rescinded by this Order.

The Discharger filed a report of waste discharge and submitted an application for renewal of its Waste Discharge Requirements (WDRs) and National Pollutant Discharge Elimination System (NPDES) permit. Since the discharger filed a timely application for renewal of its permit, the terms and conditions of Order No. R8-2007-0012 have been automatically continued and remain in effect until new Waste Discharge Requirements, which also serve as an NPDES permit, are adopted pursuant to this Order.

## II. FACILITY DESCRIPTION

### A. Wastewater and Biosolids Treatment or Controls

#### 1. Service Area

The current facility is designed to treat 8 million gallons per day (mgd) of tertiary treated wastewater from domestic, commercial, and industrial sources in the Yucaipa Valley Water District's service area, which includes the Cities of Yucaipa and Calimesa. The facility services a population of about 61,500.

#### 2. Design Characteristics

The treatment system consists of a primary equalization basin, influent screening, grit removal, primary clarifiers, trickling filters converted to aerobic and anaerobic basins, and four membrane bioreactors. The membrane bioreactors work as an Integrated Fixed Film Activated Sludge (IFFAS) Process. The treatment system also includes secondary clarifiers, a secondary equalization basin, micro-filtration units, a reverse osmosis system, and a UV disinfection system. Attachment C is a flow schematic of the treatment system.

Biosolids processes include sludge digesters, waste activated sludge (WAS) flotation thickeners, and sludge dewatering belt presses. The existing solids handling facilities are sized to handle a design flow of 8 mgd.

Stormwater generated onsite is drained to a retention basin. No stormwater runoff flows outside of the plant. The basin is large enough to allow storm water retained therein to either percolate into the ground or evaporate. However, if the water levels in the basin get too high, the Discharger has the ability to pump the water from the basin back to the treatment plant for treatment.

“At the present time, approximately 1.2 MGD on average of recycled water is delivered to over 50 users in the Discharger’s service area for irrigation and other approved uses. Increased recycled water use by direct delivery, public fill stations, and recharge are planned in the Discharger’s service area. The use of recycled water will be expanded in the future to customers and other public agencies within the Yucaipa Management Zone, the Beaumont Management Zone and the San Timoteo Management Zone.”

The following table summarizes the treatment processes employed at this facility.

**Table 2. Wochholz RWRf Treatment Process**

<b>Preliminary</b>	<b>Primary</b>	<b>Secondary</b>	<b>Tertiary</b>	<b>Solids Handling</b>
Bar screens Grit removal	Equalization Basin Primary Clarification	Nitrification & Denitrification Basins Integrated Fixed Film Activated Sludge Secondary Clarification	Secondary Equalization Basins Microfiltration UV Disinfection Reverse Osmosis	DAF Thickeners Anaerobic Digestion Digester Gas Utilization Belt Press Dewatering

Wastewater generated in the YVWD’s service area is mostly from residential and commercial uses, with a negligible amount from industrial uses. The wastewater flows are summarized as follows:

**Table 3. Wochholz RWRf Flows**

<b>Flow Condition</b>	<b>Influent Flow, mgd</b>
Annual Average Daily Flow	3.72
Peak Daily Flow, Dry weather	5.33
Peak Daily Flow, Wet weather	6.2

**B. Discharge Points and Receiving Waters**

1. Discharge points:

Tertiary treated wastewater is discharged at Discharge Point (DP) Serial No. 001 and the Discharge Point Serial No. 003, located adjacent to DP-001. The discharge from these discharge points flows through an unlined portion of Reach 3 of San Timoteo Creek, which is tributary to Reach 5 of the Santa Ana River. Although San Timoteo Creek is tributary to the Santa Ana River, under normal conditions the majority, if not all, of the creek water percolates before reaching any surface flows in the Santa Ana River.

The Discharger is obligated to maintain 1.6 mgd discharge to the Creek to support existing riparian habitat (State Board Order No. WW-26). The Discharger may fulfill this obligation by using either groundwater or imported State Project Water.

The Discharger is implementing a habitat monitoring program<sup>1</sup> that identifies conditions that may require discharges to the Creek beyond the 1.6 mgd annual average. The Discharger is required to notify the Regional Board when adaptive management measures are triggered that requires release in excess of the 1.6 mgd annual average. Discharges into San Timoteo Creek consistent with the habitat monitoring program may not exceed the maximum benefit objectives for TDS and TIN.

**Table 4. Summary of Discharge Points**

Discharge Point	Latitude	Longitude	Description and Receiving Waters	Flow & Frequency
001 & 003	33°59'11"N 34°00'08"N	117°08'04"W 117°09'52"W	To San Timoteo Creek (Reach 3), then to Reach 5 of Santa Ana River; (Recharge from the Creek affects the San Timoteo Groundwater Management Zone)	Tertiary treated and disinfected Continuous (existing); current flow averages 3.72 mgd
002	34°00'27"N	117°05'53"W	Recycled Water Pump Station to the Non-potable Water Distribution System; Yucaipa, San Timoteo, and Beaumont Groundwater Management Zones	Recycled Water Varies

2. Recycled Water Uses:

The Discharger plans to use recycled water within the Discharger’s service area as well as in neighboring areas. Potential future recycled water users include the City of Redlands, City of Loma Linda, Eastern Municipal Water District, and Beaumont-Cherry Valley Water District. A watershed-scale water resources management plan has been developed by the Discharger and former members of the San Timoteo Watershed Management Authority (City of Beaumont, Beaumont-Cherry Valley Water District and South Mesa Water Company) to assure reliable water supply. The Discharger is in the process of implementing this plan, which will include enhanced use of recycled water, as well as recharge of stormwater, optimizing direct use of recycled water and imported water, and conjunctive use.

This Order regulates the use of recycled water for landscape irrigation of golf courses, parks, schools, highways, agricultural crops, etc. The use of recycled water for groundwater recharge has also been proposed. However, this Order will need to be

<sup>1</sup> *Habitat Monitoring Program for San Timoteo Creek, Yucaipa Valley Water District, Dudek & Associates, October 2005,*

modified, or a new Order will need to be considered by the Regional Water Board before any groundwater recharge projects utilizing recycled water can be implemented. Currently, recycled water is delivered only to a few orchards near the Facility.

### C. Compliance Summary

Based on a review of effluent monitoring data submitted by the Discharger for the period from 2008 to present, the wastewater discharged from the wastewater treatment facility was generally in compliance with the effluent limitations specified in the current waste discharge requirements, Order No. R8-2007-0012. However, YVWD had a number of violations during the plant expansion. The violations are tabulated in the following table.

**Table 5**  
**Effluent Limit Violations of Order No. R8-2007-0012, NPDES No. CA0105619**  
**Yucaipa Valley Water District**

Month and Year	Violations						
	Coliform Average Weekly	Coliform Daily Maximum	Turbidity	TIN	NH <sub>3</sub> -N	pH	Bis(2-Ethylhexyl) Phthalate
December, 2007	3		4	1			
January, 2008	4	1		2		2	
February, 2008	4	1		2		13	
March, 2008	5	1		2		8	
April, 2008	4	1		2		4	
May, 2008	1	2		2			
June, 2008				2			
July, 2008				2			
August, 2008				2			
September, 2008				2			
October, 2008				1			
November, 2008				2			
December, 2008				2			
January, 2009				1			
February, 2009				1			
March, 2009				1	1		
April, 2009				1			
May, 2009				1			
June, 2009				1			
July, 2009				1			
August, 2009	4			1			
February, 2010					1		
May, 2010					1		
June, 2011					1		
August, 2011					1		
November, 2013							1
February, 2014*		1					

NOTES:

\*No violations noted after February 2014.

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

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

#### A. Legal Authorities

This Order serves as Waste Discharge Requirements pursuant to Article 4, Chapter 4 of California Water Code (CWC) commencing with Section 13260 and serves as a Master Reclamation permit pursuant to Article 4, Chapter 7 CWC commencing with Section 13523.1. This Order shall also serve as an NPDES permit pursuant to Section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. Environmental Protection Agency (USEPA) and Chapter 5.5, Division 7 of the CWC for point source discharges from this facility to surface waters.

#### B. California Environmental Quality Act (CEQA)

Under Water Code Section 13389, this action to adopt waste discharge requirements that serve as an NPDES permit is exempt from the provisions of CEQA, Public Resources Code section 21000 et seq. (County of Los Angeles v. California State Water Resources Control Board (2006) 143 Cal.App.4th 985, mod. (Nov. 6, 2006, B184034) 50 Cal.Rptr.3d 619, 632-636.)

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

1. **Water Quality Control Plans.** The Regional Water Board adopted a Water Quality Control Plan for the Santa Ana Basin (hereinafter Basin Plan) that became effective on January 24, 1995. The Basin Plan designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. In addition, State Water Resources Control Board (State Water Board) Resolution No. 88-63 (Sources of Drinking Water Policy) requires that, with certain exceptions, the Regional Water Board assign the municipal and domestic water supply use to water bodies. Based on the exception criteria specified in Resolution No. 88-63, the Regional Board excepted from the municipal and domestic supply beneficial use: 1). Reach 3 of San Timoteo Creek and downstream reaches; 2). Starting from Orange Avenue (Redlands), Reach 5 of the Santa Ana River and downstream reaches. San Timoteo Creek joins the Santa Ana River, Reach 5 downstream of Orange Avenue in an area excepted from the municipal and domestic supply beneficial use. Downstream reaches of the River.

On January 22, 2004, the Regional Water Board adopted Resolution No. R8-2004-0001, amending the Basin Plan to incorporate revised boundaries for groundwater subbasins, now termed “management zones”, new nitrate-nitrogen and TDS objectives for the new management zones, and new nitrogen and TDS management strategies applicable to both surface and ground waters. The State Water Resources Control Board and Office of Administrative Law (OAL) approved the N/TDS Amendment on September 30, 2004 and December 23, 2004, respectively. Accordingly, these waste discharge requirements implement relevant, groundwater-related components of the N/TDS Amendment. Specifically, the total dissolved solids (TDS) and total inorganic nitrogen (TIN) limitations established in this Order are based on the amended Basin Plan.

As previously discussed, wastewater from the YVWD’s Facility is discharged into Reach 3 of San Timoteo Creek. The discharge point overlies the San Timoteo Groundwater Management Zone. In addition, potential recycled water use areas overlie the Yucaipa, San Timoteo, and Beaumont Groundwater Management Zones. The beneficial uses of these affected water bodies are as follows:

**Table 6. Beneficial Uses**

Receiving Water Name	Beneficial Uses
San Timoteo Creek, Reach 3	Agriculture Supply, groundwater recharge, body contact and non-body contact recreation, warm water aquatic habitat, and wildlife habitat. Excepted from municipal and domestic supply.
Yucaipa, San Timoteo, and Beaumont Groundwater Management Zones	Municipal Supply, agricultural supply, industrial service supply, and industrial process supply

Requirements of this Order implement the Basin Plan.

On April 25, 2014, the Regional Board adopted Resolution No. R8-2014-0005, "Resolution Amending the Water Quality Control Plan for the Santa Ana River Basin to Incorporate Updates to the Salt Management Plan for the Santa Ana Region". Resolution No. R8-2014-0005 included updates to the Salt Management Plan – “Maximum Benefit” programs for the San Timoteo Watershed including the Yucaipa, Beaumont and San Timoteo GMZs. To continue salt regulations under the “maximum benefit” TDS and nitrate-nitrogen objectives for those groundwater management zones, Resolution No. R8-2014-0005 requires the Discharger and the other “maximum benefit” partners<sup>2</sup> to continue to implement surface and groundwater monitoring programs, to implement a non-potable water supply system and to implement a recycled water recharge program.

<sup>2</sup> For the San Timoteo GMZ, the City of Beaumont is the additional “maximum benefit” partner. For the Beaumont GMZ, the City of Beaumont, Beaumont Cherry Valley Water District, San Gorgonio Pass Agency, and the City of Banning are additional “maximum benefit” partners.

By October 29, 2015, the Discharger along with other “maximum benefit” partners is also required by Resolution No. R8-2014-0005 to develop a Salt Mitigation Plan to mitigate excess salt loading above the antidegradation water quality objectives should the Regional Board make a finding that the lowering of water quality associated with the “maximum benefit” TDS and nitrate-nitrogen water quality objectives that are higher than historical water quality (the “antidegradation” objectives) is not of maximum benefit to the people of the state.

2. **National Toxics Rule (NTR) and California Toxics Rule (CTR).** USEPA adopted the NTR on December 22, 1992, and later amended it on May 4, 1995 and November 9, 1999. About forty criteria in the NTR applied in California. On May 18, 2000, USEPA adopted the CTR. The CTR promulgated new toxics criteria for California and, in addition, incorporated the previously adopted NTR criteria that were applicable in the state. The CTR was amended on February 13, 2001. These rules contain water quality criteria for priority pollutants.
3. **State Implementation Policy.** On March 2, 2000, the State Water Board adopted the *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (State Implementation Policy or SIP). The SIP became effective on April 28, 2000 with respect to the priority pollutant criteria promulgated for California by the USEPA through the NTR and to the priority pollutant objectives established by the Regional Water Board in the Basin Plan. The SIP became effective on May 18, 2000 with respect to the priority pollutant criteria promulgated by the USEPA through the CTR. The State Water Board adopted amendments to the SIP on February 24, 2005 that became effective on July 13, 2005. The SIP establishes implementation provisions for priority pollutant criteria and objectives and provisions for chronic toxicity control. Requirements of this Order implement the SIP.
4. **Alaska Rule.** On March 30, 2000, USEPA revised its regulation that specifies when new and revised State and Tribal water quality standards (WQS) become effective for CWA purposes (40 CFR 131.21, 65 FR 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.

- 5. Antidegradation Policy.** 40 CFR Section 131.12 requires that state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16. Resolution No. 68-16 incorporates the federal antidegradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Regional Water Board's Basin Plan implements, and incorporates by reference, both the State and federal antidegradation policies. The permitted discharge must be consistent with the antidegradation provision of section 131.12 and State Water Board Resolution No. 68-16.

All effluent limitations in this Order are at least as stringent as those in prior waste discharge requirements for the Facility. Based on data currently available, discharges in compliance with the terms and conditions of this Order should not result in a lowering of water quality and are therefore consistent with antidegradation provisions.

- 6. Anti-Backsliding Requirements.** Sections 402(o)(2) and 303(d)(4) of the CWA and federal regulations at 40 CFR 122.44(l) prohibit 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. All effluent limitations in this Order are at least as stringent as the effluent limitations in the previous Order. Therefore, this Order conforms to the anti-backsliding requirements of the CWA.
- 7. Monitoring and Reporting Requirements.** Sections 13267 and 13383 of the CWC authorize the Regional Water Board to require technical and monitoring reports. 40 CFR 122.48 requires that all NPDES permits specify requirements for recording and reporting monitoring results. The Monitoring and Reporting Program (MRP) establishes monitoring and reporting requirements to implement State and federal requirements. This MRP is provided in Attachment E.
- 8. Pretreatment.** This Order contains requirements for the continued implementation of an effective pretreatment program pursuant to Section 307 of the Federal Clean Water Act; 40 CFR, Parts 35 and 403; and/or Section 2233, Title 23, California Code of Regulations. The Discharger has established an approved regional pretreatment program. The Discharger's approved pretreatment program is an enforceable condition of this Order.
- 9. Biosolids.** On February 19, 1993, the USEPA issued a final rule for the use and disposal of sewage sludge, 40 CFR, Part 503. This rule requires that producers of sewage sludge meet certain reporting, handling, and disposal requirements. The State of California has not been delegated the authority to implement this program; therefore, the U.S. Environmental Protection Agency is the implementing agency. However, this Order includes Biosolids monitoring requirements.

#### **D. Impaired Water Bodies on the CWA 303(d) List**

San Timoteo Creek is not listed as being impaired by any pollutant.

#### **E. Other Plans, Policies and Regulations**

Not Applicable

### **IV. 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 in the Code of Federal Regulations: section 122.44(a) requires that permits include applicable technology-based limitations and standards; and section 122.44(d) requires that permits include water quality-based effluent limitations to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water.

#### **A. Discharge Prohibitions**

The discharge prohibitions are based on the Federal Clean Water Act, Basin Plan; State Water Resources Control Board's plans and policies; U.S. Environmental Protection Agency guidance and regulations; and Order No. R8-2007-0007 provisions, and are consistent with the requirements set for other discharges regulated by NPDES permits adopted by the Regional Water Board.

#### **B. Technology-Based Effluent Limitations**

##### **1. Scope and Authority**

Section 301(b) of the CWA and implementing USEPA permit regulations at section 122.44, title 40 of the Code of Federal Regulations, require that permits include conditions meeting applicable technology-based requirements at a minimum, and any more stringent effluent limitations necessary to meet applicable water quality standards. The discharge authorized by this Order must meet minimum federal technology-based requirements based on Secondary Treatment Standards at Part 133 and/or Best Professional Judgment (BPJ) in accordance with Part 125, section 125.3.

Regulations promulgated in 40 CFR §125.3(a)(1) require technology-based effluent limitations for municipal dischargers to be placed in waste discharge requirements based on Secondary Treatment Standards or Equivalent to Secondary Treatment Standards.

The Federal Water Pollution Control Act Amendments of 1972 (PL 92-500) established the minimum performance requirements for POTWs [defined in Section 304(d)(1)]. Section 301(b)(1)(B) of that Act requires that such treatment works must, as a minimum, meet effluent limitations based on secondary treatment as defined by the USEPA Administrator. Based on this statutory requirement, USEPA developed secondary treatment regulations, which are specified in 40 CFR Part 133. These technology-based regulations apply to all municipal wastewater treatment plants and identify the minimum level of effluent quality attainable by secondary treatment in terms of biochemical oxygen demand (BOD<sub>5</sub>), total suspended solids (TSS), and pH.

## 2. Applicable Technology-Based Effluent Limitations

As noted in section IV.C.4., below, tertiary treatment is required to protect beneficial uses of San Timoteo Creek. The technology-based limits, more restrictive than the above-mentioned federal standards for BOD<sub>5</sub> and TSS, which are based on BPJ for levels achievable with tertiary treatment, summarized in the Table below are applicable.

**Table 7. Summary of Technology-Based Effluent Limits for Tertiary Treatment**

Constituent	Average Weekly (mg/L)	Average Monthly (mg/L)	Average Monthly Removal Rate %
Biochemical Oxygen Demand, 5-day 20 <sup>o</sup> C	30	20	85
Total Suspended Solids	30	20	85

The federal secondary treatment standard for pH to be in the range of 6 – 9 su and the removal rate requirement of 85% of the BOD<sub>5</sub> and TSS from the influent flow are also applicable to this discharge.

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

### 1. Scope and Authority

Section 301(b) of the CWA and 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.

40 CFR 122.44(d)(1)(i) mandates 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, water quality-based effluent limitations (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).

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

## 2. Applicable Water Quality Criteria and Development of WQBELs

### a. The Basin Plan

Table 6, above, lists the beneficial uses of San Timoteo Creek and the Yucaipa, Beaumont and San Timoteo GMZs. The Basin Plan specifies narrative and numeric water quality objectives for all inland surface waters, including San Timoteo Creek. Some of those applicable to these receiving waters are listed in the following table:

**Table 8. Examples of Basin Plan Surface Water Quality Objectives**

Constituents	Basis for Limitations
Ammonia Nitrogen	“Un-ionized ammonia (NH <sub>3</sub> or UIA) is toxic to Fish and other aquatic organisms. In water, UIA exists in equilibrium with ammonium (NH <sub>4</sub> <sup>+</sup> ) and hydroxide (OH <sup>-</sup> ) ions. The proportions of each change with temperature, pH and salinity of the water.” Thus, ammonia discharges to surface water pose a threat to aquatic life and instream beneficial uses, as well as to the beneficial uses of affected groundwater. The Basin Plan specifies total ammonia and un-ionized ammonia objectives and an effluent limit of 4.5 mg/L for discharges to San Timoteo, listed in Table 5-6.
Hydrogen Ion (pH)	Hydrogen Ion (pH) is a measure of the Hydrogen Ion concentration in the water. Extreme pH levels can have adverse effects on aquatic biota and can corrode pipes and concrete. The Basin Plan specifies that the pH in inland surface waters shall not be depressed below 6.5, nor raised above 8.5 as a result of controllable water quality factors.

**TDS and TIN:** TDS and TIN limits in this order are based on the water quality objectives for the underlying groundwater management zones. The Basin Plan lists two sets of objectives for TDS and TIN – “antidegradation” and “maximum benefit”. In the case of the Yucaipa, Beaumont and San Timoteo GMZs, the Regional Water Board established the maximum benefit objectives to encourage the use of recycled water in the area. As such, the maximum benefit objectives are used to calculate effluent limits for recycled water use; whereas, the antidegradation objectives are applicable to the continued wastewater discharges from the Facility.

In accordance with 40 CFR Section 122.45(d), there may be instances in which the basis for a limit for a particular continuous discharge may be impracticable to be stated as a maximum daily, average weekly, or average monthly effluent limitation. The Regional Water Board has determined that it is not practicable to express TDS and TIN effluent limitations as average weekly and average monthly effluent limitations because the TDS and TIN objectives in the Basin Plan were established to protect the underlying groundwater. Consequently, a 10 year averaging period is more appropriate. Resolution No. R8-0014-0005 specifies a 10 year averaging period for discharges that affect the underlying groundwater management zones. For surface water discharges that affect the San Timoteo Groundwater Management Zone, discharge limits for TDS and TIN are specified as an annual volume-weighted average at the end of pipe.

A 25% nitrogen reduction factor, as specified in the Basin Plan, has been used to calculate the TIN effluent limits in this Order.

**b. NTR, CTR and SIP**

The National Toxics Rule, California Toxics Rule, and State Implementation Policy specify numeric objectives for toxic substances and the procedures whereby these objectives are to be implemented. The procedures include those used to conduct reasonable potential analysis to determine the need for effluent limitations for priority and non-priority pollutants.

**c. Requirement to Meet Title 22, Tertiary Treatment**

Article 3, Section 60305 of Title 22, Chapter 3, "Use of Recycled Water for Impoundments" of the California Code of Regulations specifies that recycled water used as a source of supply in a nonrestricted recreational impoundment shall be at all times an adequately disinfected, oxidized, coagulated, clarified, filtered wastewater (tertiary recycled water). The degree of treatment specified represents an approximately 5-log reduction in the virus content of the water. The State Water Resources Control Board, Division of Drinking Water (DDW), has determined that this degree of virus removal is necessary to protect the health of people using these impoundments for water contact recreation. The DDW has developed wastewater disinfection guidelines ("Wastewater Disinfection for Health Protection", Department of Health Services, Sanitary Engineering Branch, February 1987) for discharges of wastewater to surface waters where water contact recreation (REC-1) is a beneficial use. The disinfection guidelines recommend the same treatment requirements for wastewater discharges to REC-1 waters as those stipulated in Title 22 for supply of recycled water to nonrestricted recreational impoundments, since the public health risks under both scenarios are analogous. The disinfection guidelines are based on sound science and are widely used as guidance to assure public health and beneficial use protection.

San Timoteo Creek is not a “nonrestricted recreational impoundment” pursuant to the definitions in Title 22. However, it is used for water contact recreation and, accordingly, is designated REC-1 (water contact beneficial use). People recreating in San Timoteo Creek face an exposure similar to those coming in contact with recycled water in an impoundment. Therefore, to protect the water contact recreation beneficial use and to prevent nuisance and health risk, it is necessary and appropriate to require the same degree of treatment for wastewater discharges to tributaries of San Timoteo Creek as would be required for the use of recycled water in a nonrestricted recreational impoundment. Thus, this Order specifies requirements based on tertiary or equivalent treatment.

#### **D. Determining the Need for WQBELs for Priority Pollutants**

In accordance with Section 1.3 of the SIP, the Regional Water Board conducted a reasonable potential analysis (RPA) for each priority pollutant with an applicable criterion or objective to determine if a WQBEL is required in the Order. The Regional Water Board analyzed effluent data to determine if a pollutant in a discharge has the reasonable potential to cause or contribute to an excursion above a state water quality standard. For all parameters that have the reasonable potential to cause or contribute to an excursion above a water quality standard, numeric WQBELs are required. The RPA considered criteria from the CTR, and when applicable, water quality objectives specified in the Basin Plan.

A reasonable potential analysis was conducted on effluent data supplied by the Discharger from January 2011 through January 2015 and found that only one constituent [Bis(2-Ethylhexyl) Phthalate] posed a reasonable potential to cause or contribute to a violation of a water quality standard. A hardness value of 130 mg/L, which was the minimum effluent hardness, was used in the RPA for metals. Detailed spreadsheets of the RPA are available in the Regional Water Board files. A summary of the results of the analysis for Phthalate and some of the more common metals is displayed in Table 9, below.

**Table 9. Reasonable Potential Analysis Results**

Constituent	Units	MEC	C	CMC	CCC	Org. Only	MCL	Reasonable Potential
Bis (2-Ethylhexyl) Phthalate	ug/L	9.5	4	N/A	N/A	5.9	4	Yes
Cadmium, Total Recoverable	ug/L	-	3.2	6.6	3.2	N/A	5	No
Chromium (III)	ug/L	1	260	2200	260	N/A	N/A	No
Copper, Total Recoverable	ug/L	5.3	12	19	12	N/A	1000	No
Cyanide, Total (as CN)	ug/L	4.8	5.2	22	5.2	220000	150	No
Selenium, Total Recoverable	ug/L	0.8	5	20	5	4200	50	No

Note: Reasonable potential analysis was not conducted for total residual chlorine as chlorine is no longer used in the treatment process.

**E. WQBEL Calculations**

For priority pollutants, water quality based effluent limits are based on monitoring results and the calculation process outlined in Section 1.4 of the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays and Estuaries of California.

As noted in Table 9, above, Table 10, below, shows the factors that were used to determine effluent limits for Bis (2-Ethylhexyl) phthalate.

**Table 10. WQBEL Calculations**

Parameter	Units	Most Stringent Criteria			HH Calculations			Final Effluent Limitations	
		HH	CMC	CCC	$ECA_{HH} = AMEL_{HH}$	$AMEL/MDEL$ Multiplier <sub>HH</sub>	$MDEL_{HH}$	Lowest AMEL	Lowest MDEL
Bis (2-Ethylhexyl) Phthalate	ug/L	5.9	-	-	5.9	2.01	11.8	5.9	11.8

**F. Whole Effluent Toxicity (WET)**

This Order does not specify WET limits but continues the requirement for chronic toxicity monitoring. The discharge has not exceeded the Chronic Toxicity trigger specified in the previous Order. Therefore, there is not a reasonable potential for the discharge to cause or contribute to toxicity in the receiving waters. If chronic toxicity is greater than 1.0 TUC, the Order requires the Discharger to accelerate toxicity monitoring from monthly to twice per month. If the toxicity is verified, then the Order requires the Discharge to implement an Initial Investigation Toxicity /Reduction Evaluation.

## **G. Final Effluent Limitation Considerations**

### **1. Satisfaction of Anti-Backsliding Requirements**

All effluent limitations in this Order are at least as stringent as the effluent limitations in the previous Order. Pursuant to CWA Section 402(o)(2)(B)(i), limits for selenium are no longer included in this Order. Most of the analytical results for selenium was non-detect (ND) during the last permit term and the highest detected value was at 0.8 ug/L, much lower than the MCL of 50 ug/L. As such no effluent limits are included for selenium.

### **2. Satisfaction of Antidegradation Policy**

Discharges in conformance with the requirements of this Order will not result in a lowering of water quality and therefore conform to antidegradation requirements specified in Resolution No. 68-16, which incorporates the federal antidegradation policy at 40 CFR 131.12.

### **3. Stringency of Requirements for Individual Pollutants**

This Order contains both technology-based and water quality-based effluent limitations. The technology-based effluent limitations consist of restrictions on BOD<sub>5</sub>, suspended solids, and pH. In order to protect the water contact recreation beneficial use of the receiving waters, this Order requires the Discharger to comply with tertiary treatment effluent limits which are more restrictive than the federal secondary standards. Ammonia-nitrogen effluent limits specified in this Order are based on the un-ionized ammonia objective for San Timoteo Creek. Water-quality based effluent limits for TDS and TIN are also included in the Order. These limits are based on the water quality objectives of the affected underlying groundwater management zones.

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. To the extent that toxic pollutant water quality-based effluent limitations were derived from the CTR, the CTR is the applicable standard pursuant to 40 CFR section 131.38. The scientific procedures for calculating the individual water quality-based effluent limitations for priority pollutants are based on the CTR-SIP, which was approved by USEPA on May 18, 2000. Apart from certain standards changes resulting from the N/TDS Basin Plan amendment that do not materially affect the quality requirements for the discharges regulated by this Order, all beneficial uses and water quality objectives contained in the Basin Plan were approved under state law and submitted to and approved by USEPA prior to May 30, 2000. Any water quality objectives 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 section 131.21(c)(1). Collectively, this Order’s restrictions on individual

pollutants are no more stringent than required to implement the requirements of the CWA.

## **V. RATIONALE FOR RECYCLED WATER SPECIFICATIONS**

1. Section 13523.1 of the California Water Code provides that a Regional Water Board may prescribe a master recycling permit to a supplier and/or distributor of recycled water. Section 13523.1 requires that such a permit includes:
  - a. Waste discharge requirements adopted pursuant to CWC Section 13260,
  - b. A requirement that the Discharger comply with the uniform statewide recycling criteria established pursuant to CWC Section 13521.
  - c. A requirement that the Discharger establishes and enforces rules or regulations for recycled water users.
  - d. A requirement that the Discharger submit quarterly reports summarizing recycled water use.
  - e. A requirement that the Discharger conducts periodic inspections of the facilities of recycled water users, and
  - f. Any other requirements determined to be appropriate by the Regional Board.
2. Reclamation specifications in the proposed Order are based upon the recycling criteria contained in Title 22, Division 4, Chapter 3, Sections 60301 through 60355, California Code of Regulations, and the California Water Code Section 13523.11.
3. As noted above, the TDS limits specified in this Order for recycled water uses are based on the maximum benefit objectives for the Yucaipa, San Timoteo, and Beaumont Groundwater Management Zones.
4. This Order does not specify a nitrogen limit for recycled water when it is used for irrigation, since it is assumed that all of the nitrogen will be used by plants and the lack of nitrogen in the water that percolates beyond the root zone will not adversely affect water quality.

## **VI. STORM WATER DISCHARGE REQUIREMENTS**

As noted above, storm water runoff from the Facility is collected in a retention basin and is not discharged off site. If the retention basin's holding capacity is exceeded, storm water is pumped into the treatment system to be treated and discharged. As such, this Order does not include any storm water discharge requirements.

## **VII. RATIONALE FOR RECEIVING WATER LIMITATIONS**

### **A. Surface Water**

The surface water receiving water limitations in the proposed Order are based upon the water quality objectives contained in the Basin Plan.

## **B. Groundwater**

The receiving groundwater limitations in the proposed Order are based upon the water quality objectives contained in the Basin Plan.

## **VIII. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS**

Sections 13267 and 13383 of the CWC authorize the Regional Water Boards to require technical and monitoring reports. 40 CFR 122.48 also requires all NPDES permits to specify recording and reporting of monitoring results. The Monitoring and Reporting Program (MRP), Attachment E of this Order, establishes monitoring and reporting requirements to implement federal and State requirements. The following provides the rationale for the monitoring and reporting requirements contained in the MRP for this facility.

The proposed monitoring is necessary to evaluate the performance of the treatment plant and ensure compliance with the effluent limits established in the Order. The monitoring also requires annual scans for all priority pollutants, accelerated monitoring for those pollutants that are detected above specific triggers, and includes reopener provisions that allow for future changes to add effluent limits and more frequent monitoring.

### **A. Influent Monitoring**

The monitoring includes constituents and frequencies sufficient to evaluate the performance of the treatment plant, and pretreatment requirements.

### **B. Effluent Monitoring**

The Discharger is required to conduct monitoring of the permitted discharges in order to evaluate compliance with permit conditions. Pollutants to be monitored include all pollutants for which effluent limitations are specified. Further, in accordance with Section 1.3 of the SIP, periodic monitoring is required for all priority pollutants defined by the CTR, for which criteria apply and for which no effluent limitations have been established, to evaluate reasonable potential to cause or contribute to an excursion above a water quality standard.

This Order continues most of the monitoring requirements specified in previous Orders. This Order also requires the Discharger to conduct accelerated monitoring for those priority pollutants that are detected in the quarterly and annual analyses.

### **C. Whole Effluent Toxicity Testing Requirements**

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

The Basin Plan specifies a narrative objective for toxicity, requiring that all waters be maintained free of toxic substances in concentrations that are lethal to or produce other detrimental response on aquatic organisms. Detrimental response includes but is not limited to decreased growth rate, decreased reproductive success of resident or indicator species, and/or significant alterations in population, community ecology, or receiving water biota.

In addition to the Basin Plan requirements, Section 4 of the SIP states that a chronic toxicity effluent limitation is required in permits for all discharges that will cause, have the reasonable potential to cause, or contribute to chronic toxicity in receiving waters. Therefore, in accordance with the SIP, this Order requires the Discharger to conduct chronic toxicity testing. In addition, the Order establishes thresholds that when exceeded requires the Discharger to conduct accelerated toxicity testing and/or conduct toxicity identification evaluation (TIE) studies.

This Order requires the Discharger to conduct chronic toxicity testing of the effluent on a monthly basis for discharges to San Timoteo Creek. The Order also requires the Discharger to conduct an Initial Investigation Toxicity Reduction Evaluation (IITRE) program when either the two-month median of toxicity test results exceeds 1 TUc or any single test exceeds 1.7 TUc for survival endpoint. Based on the results of this investigation program and at the discretion of the Executive Officer, a more rigorous Toxicity Reduction Evaluation/Toxicity Identification Evaluation (TRE/TIE) may be required. A re-opener provision is included in the Order to incorporate a chronic toxicity effluent limitation if warranted by the toxicity test results.

This Order does not require the Discharger to conduct acute toxicity tests on the effluent, as compliance with the chronic toxicity limits obviously demonstrates that the effluent will not cause acute toxicity.

## **D. Receiving Water Monitoring**

### **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 Basin Plan. Pursuant to the maximum benefit commitments the Discharger is required to conduct specified surface water monitoring.

### **2. Groundwater**

Pursuant to the maximum benefit commitments the Discharger is required to conduct specified groundwater monitoring.

## **E. Other Monitoring Requirements**

### **1. Biosolids Monitoring**

If biosolids are used for land application, including composting, the Discharger must monitor for the pollutants included in Table 1 of 40 CFR Section 503.13 at the frequencies specified in 40 CFR 503.16, which is determined by the amount (tonnage) of biosolids that is land applied or bagged/containerized for distribution, and demonstrate pollutant, pathogen and vector attraction reductions that are specified for land application. In addition, if the biosolids are disposed at a landfill, the Discharger must conduct a paint filter test on a representative biosolids sample to determine if the biosolids are suitable for this type of disposal. The monitoring results must be submitted to EPA Region 9 at the specified reporting frequency and format. The monitoring report must include details regarding the biosolids sample type (composite or grab) and monitoring location. The Discharger is also required to maintain a permanent log of solids hauled away from the Facility for use/disposal elsewhere, including the date hauled, the volume or weight (in dry tons), type (screening, grit, raw sludge, biosolids), application (agricultural, composting, etc.), and destination. This information is required be reported quarterly.

### **2. Pretreatment Monitoring**

These monitoring and reporting requirements are established pursuant EPA 40 CFR 403 regulations.

### 3. “Maximum Benefit” Monitoring

Pursuant to Regional Water Board Resolution No. R8-2014-0005 and in cooperation with the other “maximum benefit” partners<sup>3</sup>, the Discharger was required to submit and implement a surface water monitoring program and a groundwater monitoring program for San Timoteo Creek and for the Yucaipa GMZ, San Timoteo GMZ and Beaumont GMZ. On December 22, 2014, the Discharger and the other “Maximum Benefit” Partners submitted a final proposed Monitoring Plan. The Regional Board Executive Officer approved the December 22, 2014 submittal on January 6, 2015. This Order requires the Discharger to implement the approved monitoring plan. Annual Reporting of this monitoring program is required be submitted by April 15<sup>th</sup> of each year.

## IX. RATIONALE FOR PROVISIONS

### A. Federal Standard Provisions

Federal 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 section 122.42, are provided in Attachment D.

40 CFR Section 122.41(a)(1) and (b) through (n) 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) allows the state to omit or modify conditions to impose more stringent requirements. In accordance with section 123.25, this Order omits federal conditions that address enforcement authority specified in sections 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).

### B. Special Provisions

#### 1. Reopener Provisions

The reopener provisions are based on 40 CFR Part 122.44© and 123. The Regional Water Board may reopen the permit to modify permit conditions and requirements. Causes for modifications include the promulgation of new regulations, modification in sludge use or disposal practices, or adoption of new regulations by the State Board or Regional Water Board, including revisions to the Basin Plan.

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<sup>3</sup> For the San Timoteo GMZ, the City of Beaumont is the additional “maximum benefit” partner. For the Beaumont GMZ, the City of Beaumont, Beaumont Cherry Valley Water District, San Gorgonio Pass Agency and, the City of Banning are additional “maximum benefit” partners.

## **2. Special Studies and Additional Monitoring Requirements**

This Order requires the Discharger's to notify the Executive Officer of the its continued involvement with the comprehensive mercury investigation program currently being conducted by a group of Santa Ana River system Dischargers. If the Discharger discontinues its involvement with this comprehensive program, the Discharger is required, within 60 days of that date, to submit for the approval of the Executive Officer its plan for the annual testing of mercury levels in fish flesh samples collected from the Santa Ana River, upstream of, at, and downstream of the point of discharge. Upon approval, the Discharger is required to implement the plan.

This Order also requires the Discharger to update, as necessary, its procedures to conduct Toxicity Identification and Reduction Evaluations. This provision is based on the SIP, Section 4, Toxicity Control Provisions.

## **3. Best Management Practices and Pollution Prevention**

The requirements are based on the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, Section 2.4.5.1. and are applicable to POTW facilities including the Discharger.

## **4. Construction, Operation, and Maintenance Specifications**

The requirements are based on requirements that were specified in the prior Order.

## **5. Special Provisions for Municipal Facilities - POTWs Only**

- a. Sewer Collection System Requirements: The State Water Board issued General Waste Discharge Requirements for Sanitary Sewer Systems, Order No. 2006-0003-DWQ on May 2, 2006 and amended it by Order Nos. WQ 2008-0002-EXEC and WQ-2013-0058-EXEC. The General Order requires 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 General Order. The General Order requires agencies to develop sanitary sewer management plans (SSMPs) and report all sanitary sewer overflows (SSOs), among other requirements and prohibitions.

Furthermore, the General Order contains 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 VI.C.5. For instance, the 24-hour reporting requirements in this Order are not included in the General Order. The Discharger must comply with both the General Order and this Order. The Discharger and public agencies that are discharging wastewater into the facility were required to obtain enrollment for regulation under the General Order.

- b. **Biosolids:** On February 19, 1993, the USEPA issued a final rule for the use and disposal of sewage sludge, 40 CFR, Part 503. This rule requires that producers of sewage sludge meet certain reporting, handling, and disposal requirements. The State of California has not been delegated the authority to implement this program, therefore, the U.S. Environmental Protection Agency is the implementing agency.
- c. **Pretreatment:** The treatment plant capacity is 6.7 mgd and there are significant industrial users within the service areas. Consequently, this Order contains requirements for the implementation of an effective pretreatment program pursuant to Section 307 of the Federal Clean Water Act; Parts 35 and 403 of Title 40, Code of Federal Regulations (40 CFR 35 and 40 CFR 403); and/or Section 2233, Title 23, California Code of Regulations.

## **X. PUBLIC PARTICIPATION**

The California Regional Water Quality Control Board, Santa Ana Region (Regional Water Board) is considering the issuance of waste discharge requirements (WDRs) that will serve as a National Pollutant Discharge Elimination System (NPDES) permit for the Regional Water Recycling Plants. As a step in the WDR adoption process, the Regional Water Board staff has developed tentative WDRs. The Regional Water Board encourages public participation in the WDR adoption process.

### **A. Notification of Interested Parties**

The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Notification was provided through the posting of Notice of Public Hearing in the area of the discharge, in a local newspaper, and at the Regional Water Board website.

### **B. Written Comments**

The staff determinations are tentative. Interested persons are invited to submit written comments concerning these tentative WDRs. Comments must be submitted either in person or by mail to the Executive Office at the Regional Water Board at the address above on the cover page of this Order.

To be fully responded to by staff and considered by the Regional Water Board, written comments should be received at the Regional Water Board offices by 5:00 p.m. on August 21, 2015.

### **C. Public Hearing**

The Regional Water Board will hold a public hearing by telephone on the tentative WDRs during its regular Board meeting on the following date and time and at the following locations:

Date: October 30, 2015  
Time: 9:00 A.M.  
Locations: Regional Water Quality Control Board, Santa Ana Region  
3737 Main Street, Suite 500  
Riverside, CA 92501, and  
  
Irvine Ranch Water District  
15600 Sand Canyon Avenue  
Irvine, CA 92618

Interested persons are invited to attend. At the public hearing, the Regional Water Board will hear testimony, if any, pertinent to the discharge, WDRs, and permit. Oral testimony will be heard; however, for accuracy of the record, important testimony should be in writing.

Please be aware that dates and venues may change. Our web address <http://www.waterboards.ca.gov/santaana> where you can access the current agenda for changes in dates and locations.

### **D. Waste Discharge Requirements Petitions**

Any aggrieved person may petition the State Water Resources Control Board to review the decision of the Regional Water Board regarding the final WDRs. The petition must be submitted within 30 days of the Regional Water Board's action to the following address:

State Water Resources Control Board  
Office of Chief Counsel  
P.O. Box 100, 1001 I Street  
Sacramento, CA 95812-0100

### **E. Information and Copying**

Documents related to this Order, including comments received, are on file and may be inspected at the address above at any time between 9:00 a.m. and 3:00 p.m. Monday through Friday. Copying of documents may be arranged through the Regional Water Board by calling (951) 782-4130.

## **F. Register of Interested Persons**

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

## **G. Additional Information**

Requests for additional information or questions regarding this Order should be directed to Najah Amin at (951) 320-6362.

**ATTACHMENT G - EPA PRIORITY POLLUTANT LIST**

EPA PRIORITY POLLUTANT LIST		
Metals	Acid Extractibles	Base/Neutral Extractibles (continuation)
1. Antimony	45. 2-Chlorophenol	91. Hexachloroethane
2. Arsenic	46. 2,4-Dichlorophenol	92. Indeno (1,2,3-cd) Pyrene
3. Beryllium	47. 2,4-Dimethylphenol	93. Isophorone
4. Cadmium	48. 2-Methyl-4,6-Dinitrophenol	94. Naphthalene
5a. Chromium (III)	49. 2,4-Dinitrophenol	95. Nitrobenzene
5b. Chromium (VI)	50. 2-Nitrophenol	96. N-Nitrosodimethylamine
6. Copper	51. 4-Nitrophenol	97. N-Nitrosodi-N-Propylamine
7. Lead	52. 3-Methyl-4-Chlorophenol	98. N-Nitrosodiphenylamine
8. Mercury	53. Pentachlorophenol	99. Phenanthrene
9. Nickel	54. Phenol	100. Pyrene
10. Selenium	55. 2, 4, 6 – Trichlorophenol	101. 1,2,4-Trichlorobenzene
11. Silver	<b>Base/Neutral Extractibles</b>	<b>Pesticides</b>
12. Thallium	56. Acenaphthene	102. Aldrin
13. Zinc	57. Acenaphthylene	103. Alpha BHC
	<b>Miscellaneous</b>	
14. Cyanide	58. Anthracene	104. Beta BHC
15. Asbestos (not required unless requested)	59. Benzidine	105. Delta BHC
16. 2,3,7,8-Tetrachlorodibenzo-P-Dioxin (TCDD)	60. Benzo (a) Anthracene	106. Gamma BHC
	<b>Volatile Organics</b>	
17. Acrolein	61. Benzo (a) Pyrene	107. Chlordane
18. Acrylonitrile	62. Benzo (b) Fluoranthene	108. 4, 4' - DDT
19. Benzene	63. Benzo (g,h,i) Perylene	109. 4, 4' - DDE
20. Bromoform	64. Benzo (k) Fluoranthene	110. 4, 4' - DDD
21. Carbon Tetrachloride	65. Bis (2-Chloroethoxy) Methane	111. Dieldrin
22. Chlorobenzene	66. Bis (2-Chloroethyl) Ether	112. Alpha Endosulfan
23. Chlorodibromomethane	67. Bis (2-Chloroisopropyl) Ether	113. Beta Endosulfan
24. Chloroethane	68. Bis (2-Ethylhexyl) Phthalate	114. Endosulfan Sulfate
25. 2-Chloroethyl Vinyl Ether	69. 4-Bromophenyl Phenyl Ether	115. Endrin
26. Chloroform	70. Butylbenzyl Phthalate	116. Endrin Aldehyde
27. Dichlorobromomethane	71. 2-Chloronaphthalene	117. Heptachlor
28. 1,1-Dichloroethane	72. 4-Chlorophenyl Phenyl Ether	118. Heptachlor Epoxide
29. 1,2-Dichloroethane	73. Chrysene	119. PCB 1016
30. 1,1-Dichloroethylene	74. Dibenzo (a,h) Anthracene	120. PCB 1221
31. 1,2-Dichloropropane	75. 1,2-Dichlorobenzene	121. PCB 1232
32. 1,3-Dichloropropylene	76. 1,3-Dichlorobenzene	122. PCB 1242
33. Ethylbenzene	77. 1,4-Dichlorobenzene	123. PCB 1248
34. Methyl Bromide	78. 3,3'-Dichlorobenzidine	124. PCB 1254
35. Methyl Chloride	79. Diethyl Phthalate	125. PCB 1260
36. Methylene Chloride	80. Dimethyl Phthalate	126. Toxaphene
37. 1,1,2,2-Tetrachloroethane	81. Di-n-Butyl Phthalate	
38. Tetrachloroethylene	82. 2,4-Dinitrotoluene	
39. Toluene	83. 2-6-Dinitrotoluene	
40. 1,2-Trans-Dichloroethylene	84. Di-n-Octyl Phthalate	
41. 1,1,1-Trichloroethane	85. 1,2-Dipenylhydrazine	
42. 1,1,2-Trichloroethane	86. Fluoranthene	
43. Trichloroethylene	87. Fluorene	
44. Vinyl Chloride	88. Hexachlorobenzene	
	89. Hexachlorobutadiene	
	90. Hexachlorocyclopentadiene	

## ATTACHMENT H – MINIMUM LEVELS

### MINIMUM LEVELS IN PPB (µg/l)

Table 1- VOLATILE SUBSTANCES <sup>1</sup>	GC	GCMS
Acrolein	2.0	5
Acrylonitrile	2.0	2
Benzene	0.5	2
Bromoform	0.5	2
Carbon Tetrachloride	0.5	2
Chlorobenzene	0.5	2
Chlorodibromomethane	0.5	2
Chloroethane	0.5	2
Chloroform	0.5	2
Dichlorobromomethane	0.5	2
1,1 Dichloroethane	0.5	1
1,2 Dichloroethane	0.5	2
1,1 Dichloroethylene	0.5	2
1,2 Dichloropropane	0.5	1
1,3 Dichloropropylene (volatile)	0.5	2
Ethylbenzene	0.5	2
Methyl Bromide ( <i>Bromomethane</i> )	1.0	2
Methyl Chloride ( <i>Chloromethane</i> )	0.5	2
Methylene Chloride ( <i>Dichloromethane</i> )	0.5	2
1,1,2,2 Tetrachloroethane	0.5	1
Tetrachloroethylene	0.5	2
Toluene	0.5	2
trans-1,2 Dichloroethylene	0.5	1
1,1,1 Trichloroethane	0.5	2
1,1,2 Trichloroethane	0.5	2
Trichloroethylene	0.5	2
Vinyl Chloride	0.5	2
1,2 Dichlorobenzene (volatile)	0.5	2
1,3 Dichlorobenzene (volatile)	0.5	2
1,4 Dichlorobenzene (volatile)	0.5	2

### Selection and Use of Appropriate ML Value:

ML Selection: When there is more than one ML value for a given substance, the discharger may select any one of those ML values, and their associated analytical methods, listed in this Attachment that are below the calculated effluent limitation for compliance determination. If no ML value is below the effluent limitation, then the discharger shall select the lowest ML value, and its associated analytical method, listed in the PQL Table.

ML Usage: The ML value in this Attachment 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 interferences. Assuming that all method-specific analytical steps are followed, the ML value will also represent, after the appropriate application of method-specific factors, the lowest standard in the calibration curve for that specific analytical technique. Common analytical practices sometimes require different treatment of the sample relative to calibration standards.

Note: chemical names in parenthesis and italicized is another name for the constituent.

<sup>1</sup> The normal method-specific factor for these substances is 1, therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

**MINIMUM LEVELS IN PPB (µg/l)**

<b>Table 2 – Semi-Volatile Substances<sup>2</sup></b>	<b>GC</b>	<b>GCMS</b>	<b>LC</b>
2-Chloroethyl vinyl ether	1	1	
2 Chlorophenol	2	5	
2,4 Dichlorophenol	1	5	
2,4 Dimethylphenol	1	2	
4,6 Dinitro-2-methylphenol	10	5	
2,4 Dinitrophenol	5	5	
2- Nitrophenol		10	
4- Nitrophenol	5	10	
4 Chloro-3-methylphenol	5	1	
2,4,6 Trichlorophenol	10	10	
Acenaphthene	1	1	0.5
Acenaphthylene		10	0.2
Anthracene		10	2
Benzidine		5	
Benzo (a) Anthracene (1,2 Benzanthracene)	10	5	
Benzo(a) pyrene (3,4 Benzopyrene)		10	2
Benzo (b) Fluoranthene (3,4 Benzofluoranthene)		10	10
Benzo(g,h,i)perylene		5	0.1
Benzo(k)fluoranthene		10	2
bis 2-(1-Chloroethoxyl) methane		5	
bis(2-chloroethyl) ether	10	1	
bis(2-Chloroisopropyl) ether	10	2	
bis(2-Ethylhexyl) phthalate	10	5	
4-Bromophenyl phenyl ether	10	5	
Butyl benzyl phthalate	10	10	
2-Chloronaphthalene		10	
4-Chlorophenyl phenyl ether		5	
Chrysene		10	5
Dibenzo(a,h)-anthracene		10	0.1
1,2 Dichlorobenzene (semivolatile)	2	2	
1,3 Dichlorobenzene (semivolatile)	2	1	
1,4 Dichlorobenzene (semivolatile)	2	1	
3,3' Dichlorobenzidine		5	
Diethyl phthalate	10	2	
Dimethyl phthalate	10	2	
di-n-Butyl phthalate		10	
2,4 Dinitrotoluene	10	5	
2,6 Dinitrotoluene		5	
di-n-Octyl phthalate		10	
1,2 Diphenylhydrazine		1	
Fluoranthene	10	1	0.05
Fluorene		10	0.1
Hexachloro-cyclopentadiene	5	5	
1,2,4 Trichlorobenzene	1	5	

**MINIMUM LEVELS IN PPB (µg/l)**

<b>Table 2 - SEMI-VOLATILE SUBSTANCES<sup>2</sup></b>	<b>GC</b>	<b>GCMS</b>	<b>LC</b>	<b>COLOR</b>
Pentachlorophenol	1	5		
Phenol <sup>3</sup>	1	1		50
Hexachlorobenzene	5	1		
Hexachlorobutadiene	5	1		
Hexachloroethane	5	1		
Indeno(1,2,3,cd)-pyrene		10	0.05	
Isophorone	10	1		
Naphthalene	10	1	0.2	
Nitrobenzene	10	1		
N-Nitroso-dimethyl amine	10	5		
N-Nitroso -di n-propyl amine	10	5		
N-Nitroso diphenyl amine	10	1		
Phenanthrene		5	0.05	
Pyrene		10	0.05	

<b>Table 3– INORGANICS<sup>4</sup></b>	<b>FAA</b>	<b>GFAA</b>	<b>ICP</b>	<b>ICPMS</b>	<b>SPGFAA</b>	<b>HYDRIDE</b>	<b>CVAA</b>	<b>COLOR</b>	<b>DCP</b>
Antimony	10	5	50	0.5	5	0.5			1000
Arsenic		2	10	2	2	1		20	1000
Beryllium	20	0.5	2	0.5	1				1000
Cadmium	10	0.5	10	0.25	0.5				1000
Chromium (total)	50	2	10	0.5	1				1000
Chromium VI	5							10	
Copper	25	5	10	0.5	2				1000
Lead	20	5	5	0.5	2				10000
Mercury				0.5			0.2		
Nickel	50	5	20	1	5				1000
Selenium		5	10	2	5	1			1000
Silver	10	1	10	0.25	2				1000
Thallium	10	2	10	1	5				1000
Zinc	20		20	1	10				1000
Cyanide								5	

<sup>2</sup> With the exception of phenol by colorimetric technique, the normal method-specific factor for these substances is 1000, therefore, the lowest standards concentration in the calibration curve is equal to the above ML value for each substance multiplied by 1000.

<sup>3</sup> Phenol by colorimetric technique has a factor of 1.

<sup>4</sup> The normal method-specific factor for these substances is 1, therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

**MINIMUM LEVELS IN PPB (µg/l)**

<b>Table 4- PESTICIDES – PCBs<sup>5</sup></b>	<b>GC</b>
Aldrin	0.005
alpha-BHC ( <i>a</i> -Hexachloro-cyclohexane)	0.01
beta-BHC ( <i>b</i> -Hexachloro-cyclohexane)	0.005
Gamma-BHC ( <i>Lindane</i> ; <i>g</i> -Hexachloro-cyclohexane)	0.02
Delta-BHC ( <i>d</i> -Hexachloro-cyclohexane)	0.005
Chlordane	0.1
4,4'-DDT	0.01
4,4'-DDE	0.05
4,4'-DDD	0.05
Dieldrin	0.01
Alpha-Endosulfan	0.02
Beta-Endosulfan	0.01
Endosulfan Sulfate	0.05
Endrin	0.01
Endrin Aldehyde	0.01
Heptachlor	0.01
Heptachlor Epoxide	0.01
PCB 1016	0.5
PCB 1221	0.5
PCB 1232	0.5
PCB 1242	0.5
PCB 1248	0.5
PCB 1254	0.5
PCB 1260	0.5
Toxaphene	0.5

Techniques:

GC - Gas Chromatography

GCMS - Gas Chromatography/Mass Spectrometry

HRGCMS - High Resolution Gas Chromatography/Mass Spectrometry (i.e., EPA 1613, 1624, or 1625)

LC - High Pressure Liquid Chromatography

FAA - Flame Atomic Absorption

GFAA - Graphite Furnace Atomic Absorption

HYDRIDE - Gaseous Hydride Atomic Absorption

CVAA - Cold Vapor Atomic Absorption

ICP - Inductively Coupled Plasma

ICPMS - Inductively Coupled Plasma/Mass Spectrometry

SPGFAA - Stabilized Platform Graphite Furnace Atomic Absorption (i.e., EPA 200.9)

DCP - Direct Current Plasma

COLOR - Colorimetric

<sup>5</sup> The normal method-specific factor for these substances is 100, therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 100.

## ATTACHMENT I – TRIGGERS FOR MONITORING PRIORITY POLLUTANTS

	CONSTITUENT	µg/L
1	Antimony	7
2	Arsenic	75
3	Beryllium	--
4	Cadmium	4.2
5a	Chromium III	157
5b	Chromium VI	5.7
6	Copper	18
7	Lead	13.3
8	Mercury	0.026
9	Nickel	40
10	Selenium	2.5
11	Silver	4.9
12	Thallium	3.2
13	Zinc	92
14	Cyanide	2.6
15	Asbestos	--
16	2,3,7,8-TCDD (Dioxin)	0.00000007
17	Acrolein	160
18	Acrylonitrile	0.03
19	Benzene	0.6
20	Bromoform	2.2
21	Carbon Tetrachloride	0.13
22	Chlorobenzene	340
23	Chlorodibromomethane	0.22
24	Chloroethane	--
25	2-Chloroethyl vinyl ether	--
26	Chloroform	--
27	Dichlorobromomethane	0.28
<b>28</b>	<b><i>1,1-Dichloroethane</i></b>	<b>5</b>
29	1,2-Dichloroethane	0.19
30	1,1-Dichloroethylene	0.029
31	1,2-Dichloropropane	0.26
32	1,3-Dichloropropylene	5
<b>33</b>	<b><i>Ethylbenzene</i></b>	<b>0.3</b>
34	Methyl Bromide	24
35	Methyl Chloride	--
36	Methylene Chloride	2.4
37	1,1,2,2-Tetrachloroethane	0.085

	CONSTITUENT	µg/L
38	Tetrachloroethylene	0.4
<b>39</b>	<b><i>Toluene</i></b>	<b>0.15</b>
<b>40</b>	<b><i>1,2-Trans-dichloroethylene</i></b>	<b>10</b>
<b>41</b>	<b><i>1,1,1-Trichloroethane</i></b>	<b>200</b>
42	1,1,2-Trichloroethane	0.3
43	Trichloroethylene	1.35
<b>44</b>	<b><i>Vinyl Chloride</i></b>	<b>0.5</b>
45	2-Chlorophenol	60
46	2,4-Dichlorophenol	46.5
47	2,4-Dimethylphenol	270
48	2-Methy-4,6-Dinitrophenol	6.7
49	2,4-Dinitrophenol	35
50	2-Nitrophenol	--
51	4-Nitrophenol	--
52	3-Methyl-4-Chlorophenol	--
53	Pentachlorophenol	0.14
54	Phenol	10500
55	2,4,6-Trichlorophenol	1.05
56	Acenaphthene	600
57	Acenaphthylene	--
58	Anthracene	4800
59	Benzidine	0.00006
60	Benzo (a) anthracene	0.0022
61	Benzo (a) pyrene	0.0022
62	Benzo (b) fluoranthene	0.0022
63	Benzo (g,h,i) pyrene	--
64	Benzo (k) fluoranthene	0.0022
65	Bis (2-Chloroethoxy) methane	--
66	Bis (2-Chloroethyl) ether	0.016
67	Bis (2-Chloroisopropyl) ether	700
68	Bis (2-ethylhexyl) phthalate	0.9
69	4-Bromophenyl phenyl ether	--
70	Butyl benzyl phthalate	1500
71	2-Chloronaphthalene	850
72	4-Chlorophenyl phenyl ether	--
73	Chrysene	0.0022
74	Dibenzo (a,h) anthracene	0.0022
<b>75</b>	<b><i>1,2-Dichlorobenzene</i></b>	<b>0.6</b>

See notes below for italicized constituents.

**ATTACHMENT I. -Continued**

	CONSTITUENT	µg/L
76	1,3-Dichlorobenzene	200
<b>77</b>	<b><i>1,4-Dichlorobenzene</i></b>	<b>5</b>
78	3,3-Dichlorobenzidine	0.02
79	Diethyl phthalate	11,500
80	Dimethyl phthalate	156,500
81	Di-N-butyl phthalate	1,350
82	2,4-Dinitrotoluene	0.055
83	2,6-Dinitrotoluene	--
84	Di-N-octyl phthalate	--
85	1,2-Diphenylhydrazine	0.02
86	Fluoranthene	150
87	Fluorene	650
88	Hexachlorobenzene	0.00038
89	Hexachlorobutadiene	0.22
<b>90</b>	<b><i>Hexachlorocyclopentadiene</i></b>	<b>50</b>
91	Hexachloroethane	0.95
92	Indeno (1,2,3-cd) pyrene	0.0022
93	Isophorone	4.2
<b>94</b>	<b><i>Naphthalene</i></b>	<b><u>17</u></b>
95	Nitrobenzene	8.5
96	N-Nitrosodimethylamine	0.00035
97	N-Nitrosodi-N-propylamine	0.0025
98	N-Nitrosodiphenylamine	2.5
99	Phenanthrene	--

	CONSTITUENT	µg/L
100	Pyrene	480
<b>101</b>	<b><i>1,2,4 -Trichlorobenzene</i></b>	<b>5</b>
102	Aldrin	0.00007
103	BHC Alpha	0.0020
104	BHC Beta	0.007
105	BHC Gamma	0.010
106	BHC Delta	--
107	Chlordane	0.00029
108	4,4-DDT	0.0003
109	4,4-DDE	0.0003
110	4,4-DDD	0.00042
111	Dieldrin	0.00007
112	Endosulfan Alpha	0.028
113	Endosulfan Beta	0.028
114	Endosulfan Sulfate	55
115	Endrin	0.018
116	Endrin Aldehyde	0.38
117	Heptachlor	0.00011
118	Heptachlor Epoxide	0.00005
119	PCB 1016	0.000085
120	PCB 1221	0.000085
125	PCB 1260	0.000085
126	Toxaphene	0.00037

Notes:

1. For constituents not shown italicized, the values shown in the Table are fifty percent of the most stringent applicable receiving water objectives (freshwater or human health (consumption of water and organisms) as specified for that pollutant in 40 CFR 131.38<sup>1</sup>).
2. For constituents shown bold and italicized, the values shown in the Table are based on the California Department of Health Services maximum contaminant levels (MCLs) or Notification Level. Notification Level based trigger is underlined.
3. For hardness dependent metals, the hardness value used is 166 mg/L and for pentachlorophenol, the pH value used is 7.5 standard units.

<sup>1</sup> See Federal Register/ Vol. 65, No. 97 / Thursday, May 18, 2000 / Rules and Regulations.

STATE OF CALIFORNIA  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
**SANTA ANA REGION**

3737 Main Street, Suite 500, Riverside, California 92501-3348  
Phone (951) 782-4130 - FAX (951) 781-6288– TDD (951) 782-3221

<http://www.waterboards.ca.gov/santaana>

**CHANGES TO TENTATIVE ORDER NO. R8-2015-0027  
NPDES NO. CA0105619**

**WASTE DISCHARGE REQUIREMENTS AND MASTER RECLAMATION PERMIT  
FOR THE  
YUCAIPA VALLEY WATER DISTRICT  
HENRY N. WOCHHOLZ REGIONAL WATER RECYCLING FACILITY  
SAN BERNARDINO COUNTY**

Most of the changes to tentative Order No. R8-2015-0027 and attachments resulting from comments provided by Yucaipa Valley District during a meeting on September 2, 2015 require no further clarification, except for the following:

1. **Effluent Limitations:** The averaging period for total dissolved solids (TDS) and total inorganic nitrogen (TIN) effluent limitations was changed from 12-month flow-weighted running average to annual volume-weighted average concentration to be consistent with Resolution No. R8-2014-0005. Clarifying language was added to state that maximum benefit TDS and nitrate-nitrogen objectives apply to discharges in excess of 1.6 mgd if the increased discharge is triggered by adaptive management measures specified in the October 2005 Habitat Monitoring Program for San Timoteo Creek.
2. **Recycled Water Specifications:** The TDS concentration limits of recycled water applied to use areas overlying the groundwater management zones was changed from 12-month flow weighted running average to 10-year (120 month) flow weighted running average consistent with Resolution No. R8-2014-0005. The compliance date for the 10-year (120 month) running average was specified to be June, 2020 corresponding to the end of the 10th year after initiation of operation of the recycled water/groundwater desalter.
3. **Turbidity limits** were specified based on microfiltration (MF) and reverse osmosis (RO) technology, and ultraviolet (UV) specifications were added under disinfection requirements.