California Regional Water Quality Control Board
Santa Ana Region

Order No. R8-2019-0054
Amendment of Order No. R8-2013-0017, NPDES No. CA8000027
Waste Discharge and Water Reclamation Requirements
For
Elsinore Valley Municipal Water District
Regional Water Reclamation Facility
Riverside County

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

1. On September 13, 2013, the Santa Ana Regional Water Board adopted Order No. R8-2013-0017, NPDES No. CA8000027, prescribing waste discharge and water reclamation requirements and NPDES permit for the Elsinore Valley Municipal Water District's (hereinafter Discharger or EVMWD) Regional Water Reclamation Facility (RWRF) for surface waters discharges to Lake Elsinore and Temescal Creek and recycled water use within the Warm Springs Valley and Lee Lake Groundwater Management Zones.

2. The Discharger owns and operates the RWRF, a publicly owned treatment works, which has a design capacity of 8 MGD of disinfected tertiary treated wastewater effluent. The treated wastewater may be discharged to Temescal Creek and/or Lake Elsinore and the District uses a minor amount of recycled water for landscape irrigation at the RWRF. Currently, when discharging to Lake Elsinore, the final effluent is discharged through Discharge Point 002 (DP-002) to a Riverside County Flood Control channel that conveys the final effluent for 1.4 miles to Lake Elsinore.

3. On August 6, 2018 EVMWD submitted a Report of Waste Discharge (ROWD) to initiate the order/permit renewal process. In the ROWD, EVMWD detailed improvements that would be made to the RWRF, which included the completion of the Agricultural Pipeline Extension Project. This project consisted of constructing a new discharge point for the direct discharge of final effluent from the RWRF to Lake Elsinore by adding a new pipeline section to an unused portion of an agricultural water supply pipeline to extend it to the shore of Lake Elsinore. In addition, an energy dissipation structure was built at the final effluent exit location immediately adjacent to the shore of Lake Elsinore. The new discharge point would be designated as Discharge Point No. 002A (DP-002A). This project was completed for multiple reasons, including to limit water losses and maintenance costs associated with the flood control channel section that is used to convey the final effluent from the RWRF to Lake Elsinore. EVMWD has requested to utilize

DP-002A on a regular basis as its primary discharge point and keep DP-002 as an alternate discharge point.

The other improvements detailed in the ROWD are to take place at the RWRF and have not yet been completed. RWB's staff is in the process of developing tentative waste discharge and water reclamation requirements. In the interim, it is appropriate to amend the existing waste discharge requirements to allow the Discharger to start the discharge of tertiary treated and disinfected wastewater into Lake Elsinore through DP-002A as soon as possible.

4. In accordance with Water Code Section 13389, amending the waste discharge requirements for this discharge is exempt from those provisions of the California Environmental Quality Act (CEQA) contained in Chapter 3 (commencing with Section 21100), Division 13 of the Public Resources Code.

5. The Board has notified the discharger and other interested agencies and persons of its intent to amend waste discharge requirements for the discharge and has provided them with an opportunity to submit their written views and recommendations.

6. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that Order No. R8-2013-0017 be amended as follows:

1. Order No. R8-2013-0017, page 2, replace Table 2., as follows:

Table 2. Discharge Locations and Recycled Water Use Areas

Discharge Point	Effluent Description	Discharge Point Latitude	Discharge Point Longitude	Receiving Water
001	Up to 8 mgd of Tertiary treated wastewater	33°41'5.20"N	117°20'34.20"W	Temescal Creek, Gunnerson Pond and Constructed Wetlands, Warm Springs Valley Ground Water Management Zone (GMZ), and Lee Lake (GMZ)
002	Up to 8 mgd of Tertiary treated wastewater (discharge to	33°40'50.51"N	117°19'54.61"W	Lake Elsinore

Table 2. Discharge Locations and Recycled Water Use Areas

Discharge Point	Effluent Description	Discharge Point Latitude	Discharge Point Longitude	Receiving Water
	flood control channel)			
002A	Tertiary treated wastewater (discharge to Lake Elsinore shore)	33°39'54.81"N	117°19'54.88"W	Lake Elsinore
003	Tertiary treated wastewater for reclamation uses	Various	Various	Warm Springs Valley GMZ
004	Up to 8 mgd of Tertiary treated wastewater	33°41'2.84"N	117°20'30.62"W	Emergency Discharge to Temescal Creek Flood Control Channel, Warm Springs Valley GMZ, and Lee Lake GMZ
S-001	Stormwater	33°41'4.00"N	117°20'32.96"W	Temescal Creek, Gunnerson Pond and Constructed Wetlands, Warm Springs Valley GMZ, and Lee Lake GMZ
S-002	Stormwater	33°40'59.33"N	117°20'26.92"W	"
S-003	Stormwater	33°40'57.13"N	117°20'23.74"W	"
S-004	Stormwater	33°40'55.64"N	117°20'21.89"W	"

2. Order No. R8-2013-0017, Findings, page 9, replace table 5., as follows:

Table 5 Basin Plan Beneficial Uses

Discharge Point	Receiving Water Name	Beneficial Use(s)
001, 004	Temescal Creek	Existing or Potential Beneficial Uses: Agricultural supply (AGR); groundwater recharge (GWR); water contact recreation (REC1); non-contact water recreation (REC2); warm freshwater habitat (WARM); and wildlife habitat (WILD); rare, threatened, or endangered species (RARE);. Excepted from Municipal and Domestic Supply (MUN).
	Warm Springs Valley GMZ and Lee Lake GMZ	Existing or Potential Beneficial Uses: Municipal and Domestic Supply (MUN); agricultural supply (AGR); industrial supply (IND); industrial process supply (PROC).
002, 002A	Lake Elsinore	Existing or Potential Beneficial Uses: Water contact recreation (REC-1); non-contact water recreation (REC-2); warm freshwater habitat (WARM); and wildlife habitat (WILD). Excepted from Municipal and Domestic Supply (MUN).
003	Warm Springs Valley GMZ	Existing or Potential Beneficial Uses: Municipal and Domestic Supply (MUN); agricultural supply (AGR); industrial supply (IND); industrial process supply (PROC).

3. Order No. R8-2013-0017, Effluent Limitations and Discharge Specifications, page 13, replace the title of Section IV.A., as follows:

   A. Effluent Limitations – Discharge Point 001, 002, 002A, and 004

4. Order No. R8-2013-0017, Effluent Limitations and Discharge Specifications, page 13, replace the title of Table 6., as follows:

   Table 6. Effluent Limitations at DP-001, DP-002, DP-002A, and DP-004

5. Order No. R8-2013-0017, Effluent Limitations and Discharge Specifications, page 14, replace Footnote 3, as follows:

   The Discharger submitted a TDS Offset Plan dated October 2, 2011, and a Revised TDS Offset Plan dated June 24, 2013, which have been approved by the Executive Officer on January 27, 2012 and July 3, 2013.The Discharger shall implement this approved TDS Offset Plan, and any subsequent changes approved by the Executive

Officer, as a condition of this Order. Compliance with the TDS Offset Plan provides an acceptable offset for TDS discharges in excess of the 700 mg/L limit. TDS Offsets are not required for discharges at DP-002 and DP-002A because there is not a reasonable potential for the discharge to exceed the water quality objective for TDS of 2000 mg/L for Lake Elsinore.

6. Order No. R8-2013-0017, Effluent Limitations and Discharge Specifications, page 15, replace section IV.A.1.e., as follows:

   The 12-month running average Total Nitrogen (TN) concentration of the discharge from DP-002 and DP-002A shall not exceed 1 mg/L, and the 5 year running average mass of TN discharged to the Lake shall not exceed 16,372 pounds/year, unless the Discharger implements a plan, with the approval of the Regional Water Board or its Executive Officer, to offset TN discharges in excess of the TN limits. The Regional Board has approved an Offset Plan for TN discharged to Lake Elsinore that includes the operation of a Lake Aeration and Mixing project. The Discharger shall operate the Lake Aeration and Mixing Project for sufficient time to provide the required offsets for TN discharged to the Lake in excess of the TN limits.

7. Order No. R8-2013-0017, Effluent Limitations and Discharge Specifications, page 15, replace Section IV.A.1.f., as follows:

   The 12-month running average Total Phosphorous (TP) concentration of the discharge from DP-002 and DP-002A shall not exceed 0.5 mg/L, and the 5 year running average mass limit for TP discharged to the Lake shall not exceed 8,186 pounds/year, unless the Discharger implements a plan, with the approval of the Executive Officer, to offset TP discharges in excess of the TP limits. The Regional Board has approved an Offset Plan for TP discharged to Lake Elsinore that includes the operation of a Lake Aeration and Mixing project. The Discharger shall operate the Lake Aeration and Mixing Project for sufficient time to provide the required offsets for TP discharged to the Lake in excess of the TP limits.

8. Order No. R8-2013-0017, Effluent Limitations and Discharge Specifications, page 15, replace the first paragraph of Section IV.A.1.g., as follows:

   The discharge at DP-001, DP-002, DP-002A, and DP-004 shall at all times be a filtered and subsequently disinfected wastewater and shall meet the following limitations:

9. Order No. R8-2013-0017, Effluent Limitations and Discharge Specifications, page 17, replace the first paragraph of Section IV.A.1.g.4), as follows:

The pH of the discharge at DP-001, DP-002, DP-002A, and DP-004 shall be maintained between 6.5 to 8.5 pH units. Compliance with pH limits shall be determined as follows:

10. Order No. R8-2013-0017, Effluent Limitations and Discharge Specifications, page 17, replace the title of Section IV.A.2., as follows:

2. Toxicity Requirements for DP-001, DP-002, DP-002A, and DP-004

11. Attachment E, Monitoring Locations, page E-7, replace Table 2., as follows:

Table 2. Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description	Latitude	Longitude
--	M-INF	RWRF influent at the headworks	33°40'59.92"	117°20'34.98"
001	M-001	Discharge to Temescal Creek	33°41'5.20"	117°20'34.2"
002	M-002	Discharge to Lake Elsinore	33°40'50.51"	117°19'54.61"
002A	M-002	Discharge to Lake Elsinore	33°40'50.51"	117°19'54.61"
003	REC-001	Recycled Water used at plant	Various	Various
004	M-004	Emergency discharge to Temescal Creek Flood Control Channel	33°41'2.84"	117°20'30.62"
S-001	SW-001		33°41'4.00"	117°20'32.96"
S-002	SW-002		33°40'59.33"	117°20'26.92"
S-003	SW-003		33°40'57.13"	117°20'23.74"
S-004	SW-004		33°40'55.64"	117°20'21.89"

12. Attachment E, Effluent Monitoring Requirements, page E-9, replace Section IV.1., as follows:

1. The Discharger shall monitor the wastewater discharged from Discharge Points 001, 002, 002A, and 004 at Monitoring Locations M-001, M-002, and M-004 as follows:

13. Attachment F, Facility Description, page F-5, replace the first paragraph of Section II.B.1., as follows:

Tertiary treated wastewater is discharged to Temescal Creek at DP-001 and DP-004, and to Lake Elsinore at DP-002 and DP-002A.

14. Attachment F, Applicable Plans, Policies, and Regulations, page F-9, replace Table 3., as follows:

Table 3. Basin Plan Beneficial Uses

Discharge Point	Receiving Water Name	Beneficial Use(s)
001, 004	Temescal Creek	Present or Potential: Warm freshwater habitat; wildlife habitat; rare, threatened or endangered species; water contact recreation (access prohibited on some portions by Riverside County Flood Control); and non-contact water recreation. Excepted from municipal and domestic supply
	Warm Springs Valley GMZ and Lee Lake GMZ	Present or Potential: Municipal Supply, Industrial supply, Industrial Process Supply, and Agricultural supply
002, 002A	Lake Elsinore	Present or Potential: Water Contact Recreation, Non-contact water recreation, Warm water aquatic habitat, and Wildlife habitat Excepted from municipal and domestic supply
003	Warm Springs Valley Groundwater Management Zone	Present or Potential: Municipal Supply, Industrial supply, Industrial Process Supply, and Agricultural supply

15. Attachment F, Rationale for Effluent Limitations and Discharge Specifications for Surface Water Discharges – DP-001, DP-002, and DP-004, page F-12, replace the title of Section V, as follows:

V. Rationale for Effluent Limitations and Discharge Specifications for Surface Water Discharges – DP-001, DP-002, DP-002A, and DP-004

16. Attachment F, Rationale for Effluent Limitations and Discharge Specifications for Surface Water Discharges – DP-001, DP-002, and DP-004, page F-13, replace the second paragraph of Section V.B.2., as follows:

As noted in section V.C.2.d., below, tertiary treatment is required to protect beneficial uses of Lake Elsinore for discharges to Discharge Points 002, 002A, and Temescal Creek for discharges to Discharge Point 001 when 20:1 dilution conditions are not present. During these conditions, the technology-based limits, which are based on BPJ for levels achievable with tertiary treatment, are summarized in the Table below are applicable.

17. Attachment F, Rationale for Effluent Limitations and Discharge Specifications for Surface Water Discharges – DP-001, DP-002, and DP-004, page F-17, replace the title of Section V.D., as follows:

    D. Summary of Final Effluent Limitations for DP-001, DP-002, DP-002A, and DP-004

18. Attachment F, Rationale for Effluent Limitations and Discharge Specifications for Surface Water Discharges – DP-001, DP-002, and DP-004, page F-18, replace the title of Section V.D.4., as follows:

    4. Summary of Final Effluent Limitations for DP 001, DP 002, DP 002A, and DP 004

19. Attachment F, Rationale for Effluent Limitations and Discharge Specifications for Surface Water Discharges – DP-001, DP-002, and DP-004, page F-18, replace the title of Table 7., as follows:

    Table 7. Summary of Water Quality-Based Effluent Limits for DP-001, DP-002, DP-002A, and DP-004

20. Attachment F, Rationale for Effluent Limitations and Discharge Specifications for Surface Water Discharges – DP-001, DP-002, and DP-004, page F-19, replace the title of Table 8., as follows:

    Table 8. Summary of Water Quality-Based Effluent Limits for DP 002 and DP 002A

21. These amendments shall become effective upon the adoption of this Order.

22. All other conditions and requirements of Order No. R8-2013-0017, including Attachments, shall remain unchanged.

I, Hope A. Smythe, Executive Officer, do hereby certify that the forgoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on October 25, 2019.

Original Signed by
Hope A. Smythe
Executive Officer