

Regional Water Quality Control Board
North Coast Region

CHANGE SHEET
Thursday, May 17, 2018
Regional Water Board Office
Santa Rosa, California

ITEM: 3

SUBJECT: Public Hearing on Order No. R1-2018-0003, to consider adoption of Waste Discharge Requirements for Sonoma West Holdings, Incorporated Wastewater Treatment Facility, Plant No. 2, WDID No. 1B812020SON, NPDES Permit No. CA0023655, Sonoma County (*Imtiaz-Ali Kalyan*)

REASON FOR LATE CHANGES:

A late change in the Proposed Order has been made by Regional Water Board Staff (Staff) following an internal discussion, and based on the Permittee previously submitted comments on December 21, 2017.

In their comments on the Draft Order, and again during a recent meeting on April 12, 2018, the Permittee requested that the 80 mg/L concentration based limit for biochemical oxygen demand (BOD₅) for process wastewater and domestic wastewater discharged to land be changed to a mass based limit of 100 lbs/acre/day, consistent with the General Waste Discharge Requirements for Discharges of Wine, Beverage, and Food Processor Waste to Land, Order No. R1-2016-0002 (hereafter referred to as the Wine, Beverage, and Food WDRs).

The second paragraph of response no. 4 in the Response to Comments document has been amended as follows shown in ~~strikeout~~ and underline text:

~~Effluent limitations within Order No. R1-2016-0002 (General Waste Discharge Requirements for Discharges of Wine, Beverage and Food Processor Waste to Land, ("WBF general permit") are specific to industrial facilities covered under the WBF general permit, and that discharge their process wastewater to land only. Furthermore, the effluent limits within the WBF general permit are not consistent with section 301(b) of the CWA or implementing regulations at 40 C.F.R. section 122.44 that require, at a minimum, NPDES permits to include conditions meeting applicable technology-based requirements.~~

Upon further analysis, Staff has determined that the 80 mg/L concentration based limit for BOD₅ discharge to land is not a technology based limit but rather was carried over from the previous permit (Order No. R1-2010-0019) and was based on best professional judgement and consistent with the General Waste Discharge Requirements for Discharges of Winery Waste to Land (Order No. R1-2002-0012). In addition, Staff determined that the Permittee's process wastewater and domestic wastewater discharge to land are not subject

to section 301(b) of the Clean Water Act, or federal regulations at 40 C.F.R. section 122.44 which pertain to surface water discharges.

Given that the Facility's wastewater consists primarily of process water generated from wine, beverage and food processing, and the primary method of disposal is discharge to land, Staff has determined it is appropriate to change the concentration based limit for BOD₅ from 80 mg/L to 100 lbs/acre/day, consistent with limits in the Wine, Beverage, and Food WDRs. Mass based limits of 100 lbs/acre/day in the Wine, Beverage, and Food WDRs are protective of nuisance odors that result from excessive application of BOD₅ to Land Application Areas. Additionally, Provision V.B.4 of the Proposed Order provides further protection of groundwater, and beneficial uses, by requiring that "the collection, treatment, storage, and disposal of wastewater or use of recycled water shall not cause groundwater to contain taste - or odor-producing substances in concentrations that cause nuisance or adversely affect beneficial uses."

The following are the proposed revisions for the Proposed Order shown in ~~strikeout~~ and underline text:

1. Table 5 and Table 6. Effluent limitations and discharge specifications; section IV.B.1 and section IV.C.1.a

Table 5. Land Discharge Specifications - Discharge Point 002 (Monitoring Locations STG-001/ LND-001)

Parameter	Units	Discharge Specifications ¹			
		Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand 5-day @ 20°C (BOD ₅)	mg/L <u>lbs/acre/day</u>	--	80 <u>100</u>	--	--
pH	s.u.	--	--	6.5	8.5
Total Suspended Solids (TSS)	mg/L	--	80	--	--
Settleable Solids	ml/L	--	1.0	--	--
Total Dissolved Solids	mg/L	500	--	--	--

Table Notes:

- See Definitions in Attachment A and Compliance Determination discussion in section VII of this Order.

Table 6. Recycling Discharge Specifications – Discharge Point 003 (Monitoring Location REC-001)

Parameter	Units	Discharge Specifications ¹			
		Average Monthly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand 5-day @ 20°C (BOD ₅)	mg/Llbs/acre/day	50	80100	--	--
pH	s.u.	--	--	6.5	8.5
Total Suspended Solids (TSS)	mg/L	50	80	--	--
Nitrate Nitrogen, Total (as N)	mg/L	10	--	--	--
Total Dissolved Solids	mg/L	500	--	--	--
Table Notes:					
1. See Definitions in Attachment A and Compliance Determination discussion in section VII of this Order.					

2. **Page F-40, section IV.F.3.a, BOD₅, TSS, and Settleable Solids.** Modify the first paragraph of this section, as follows:

~~Consistent with Order No. R1-2010-0019, ¶~~This Order includes mass based effluent limitations for BOD₅, ~~consistent with limits in Order No. R1-2016-0002, General Waste Discharge Requirements for Discharges of Wine, Beverage, and Food Processor Waste to Land, and concentration based limits for~~ TSS, and settleable solids. The concentration based limitations for TSS and settleable solids have been carried over from the previous permit (R1-2010-0019) and are ~~these parameters were~~ based on BPJ. Regional Water Board staff finds that these limitations are necessary to achieve applicable water quality standards that are protective of the beneficial uses of the receiving water.

3. **Page F-43, section IV.G.3.a, BOD₅ and TSS.** ~~Consistent with Order No. R1-2010-0019, ¶~~This Order includes 100 lbs/acre/day as the mass based effluent limitation retains effluent limitations for BOD₅, consistent with limits in Order No. R1-2016-0019, General Waste Discharge Requirements for Discharges of Wine, Beverage, and Food Processor Waste to Land and retains concentration based effluent limits for TSS from the previous permit (Order No. R1-2010-0019). The limitations for these parameters were based on BPJ. The 80 mg/L concentration based BOD limit has been updated since the concentration based

limitation was based on Best Professional Judgement at the time the previous permit (R1-2010-0019) was adopted, and, was selected for consistency with the 2002 General Waste Discharge Requirements for Discharges of Winery Waste to Land (Order No. R1-2002-0012). However, the 2002 General WDR for Discharges of Winery Waste to Land has since been superseded with Order No. R1-2016-0019 -(General WDR for Discharges of Wine, Beverage, and Food Processor Waste to Land) which applies a mass based limit of 100 lbs/acre/day.

STAFF

RECOMMENDATION: Adopt Order No. R1-2018-0003 with proposed revisions.

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