



Public Workshop

Discuss General Waste Discharge Requirements (WDRs)
for Discharges of Wine, Beverage, and Food Processor
Waste to Land
And
Conditional Waiver of WDRs for Discharges of Wine,
Beverage and Food Processor Waste to Land

July 15, 2014

North Coast Regional Water Quality Control Board



Process for Adoption of Draft WDRs & Waiver

- Workshop today
- August 7: Written comments due
- August 14: Update to Regional Water Board
- November 20: Consideration by Regional Water Board



Background

- Hundreds of processing facilities in Region 1
- Historically covered by:
 - Individual WDRs/Waivers
 - Enrollment under General Winery WDR
 - Smaller discharges deferred enrollment until Waiver development.
- WDRs/Waivers in need of updating
 - Individual: 22 years; General WDR: 12 years
 - Need to address nutrients and salt
 - Include coverage for other facilities
 - New Waiver



Wine, Beverage & Food Processor Waiver

- Eligibility (Type and Flow Volume of <1,500 gpd)
- Notice of Intent (NOI) & Notice of Coverage (NOC)
- Above irrigation reuse or disposal
- Below ground disposal (5 ft. separation or EO approval)
- Process solids reuse as a soil amendment
- Combined subsurface treatment & disposal systems
- No fee at this time



Wine, Beverage & Food Processor Waiver Cont.

- **Conditions for Enrollment:**

- No discharge to surface waters
- No discharge of hazardous waste
- Reuse requires: agronomic rate application, unsaturated soil conditions, 25 foot setback to surface waters or berm
- Wastewater treatment pond: Maintain 2 ft. free board and no less than 1.0 mg/l dissolved oxygen in upper 1 ft. zone
- Take reasonable steps to reduce salinity and chemical inputs
- Comply with MRP



Wine, Beverage & Food Processor Waiver Cont.

- **MRP**

- Annual electronic submittal, February 1st of each year
- Annual process and production volume
- Process subsurface disposal
 - flow, O&M activities
- Process aboveground wastewater reuse/disposal
 - flow, acres, crop, procedure, BMPs, O&M activities
- Process solids reuse/disposal
 - volume, location, procedure
- Compliance assessment

Type of Discharge and Coverage

Flow Volume	Process Wastewater and Process Solids Only	Process & Domestic Wastewater		
		Combined Treatment with Combined Subsurface Disposal	Separate Treatment with Combined Subsurface Disposal	Aboveground Reuse or Disposal
> 1,500 gpd	General WDR	Requires Individual WDR	General WDR	Requires Individual WDR
< 1,500 gpd	Waiver	Waiver	Waiver	Requires Individual WDR



Wine, Beverage, & Food Processor WDR

- NOI application and NOC letter
- Additional Conditions in WDR
 - Wastewater pond liner requirements
 - Solids storage requirements
 - Aboveground reuse or disposal requires compliance with a facility Specific Salt and Nutrient Management Plan (FSNMP)
 - Effluent and Receiving Water Limits

WDR Aboveground Reuse Effluent Limits

Constituent	Unit	Limit
Biochemical Oxygen Demand (BOD)	pounds/acre/day	60
Ammonia	mg/l	1.5 or as identified in FSNMP
Nitrate as N	mg/l	10 or as identified in FSNMP
Nitrite	mg/l	1 or as identified in FSNMP
Total Dissolved Solids (TDS)	mg/l	450
Sodium	mg/l	60
Chloride	mg/l	106
pH	Not less than 4.0 or greater than 9.0	



WDR Groundwater Limits & Compliance

Groundwater Limits

- Total coliform 1.1 MPN/100 ml
- MCLs and Taste & Odor Thresholds
- pH less than 6.5 or greater than 8.5

Compliance Demonstrated with

- Effluent monitoring for aboveground reuse or disposal
- Groundwater monitoring for subsurface disposal



Wine, Beverage & Food Processor WDR Cont.

- **Monitoring & Reporting Program (MRP)**
 - Quarterly submittal
 - Aboveground reuse or disposal:
 - Effluent sampled monthly
 - Constituents: Dissolve Oxygen, pH, BOD, Ammonia, Nitrate, Total Nitrogen, Chloride*, Sodium*, and Fats, Oils & Grease*.
 - Land Application Area Monitoring
 - Annually: Crop information
 - Monthly: Hydraulic, BOD, Nitrogen & salt loading
 - Subsurface disposal
 - Sample groundwater quarterly
 - Constituents: pH, Nitrate, TDS, Chloride, and Sodium
 - Minimum of 3 monitoring wells



Facility Salt and Nutrient Management Plans (FSNMP)

- Development required by the draft WDRs to protect ground water quality
- BMP based plans for wastewater and solids discharged to land
- Not required under the waiver
- FSNMP:
 - Agronomic rate of irrigation for crops
 - Salt management
 - Developed by a qualified person



Participation & Contact Information

- Questions and comments
 - Speaker cards
- Register for Updates:
<http://www.waterboards.ca.gov/northcoast/>
- Contacts:
 - Mona Dougherty: 570-3761
 - Stephen Bargsten: 576-2653
 - Rhonda Raymond: 576-2708
 - Rachel Prat: 576-2542