



City of Eureka Elk River Wastewater Treatment Plant NPDES Permit Renewal and Cease and Desist Order Adoption

Items 3 and 4

June 16, 2016

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North Coast Regional Water Quality Control Board



Presentation Overview

- History of Humboldt Bay
 - Bays and Estuaries Policy
 - Elk River Wastewater Treatment Facility
- Special Studies
 - Transport and Fate of Effluent
 - Treatment of Peak Wet Weather Flows




Presentation Overview Con't

- NPDES Permit
 - Effluent Limitations
 - Prohibitions
 - Public Comments
- Cease and Desist Order
 - Compliance with Bays and Estuaries Policy
 - Treatment for Anticipated Wastewater Flows



 Humboldt Bay

Legend

 Humboldt Bay

Google Earth



Statewide Enclosed Bays and Estuaries Policy

- Originally Adopted May 16, 1974
 - Resolution 74-43
- Establishes Protection Guidelines and Water Quality Principles
- Specifically Prohibits Discharges of Wastewater



Humboldt Bay Historical Perspective

- Bacteriological Quality of Humboldt Bay
- Eight Original Discharge Points
- Humboldt Bay Waste Authority
- Arcata Marsh and Wildlife Sanctuary

City of Eureka Elk River WWTF



City of Eureka
Elk River Wastewater
Treatment Plant

NPDES No. CA0024449



1:200,000
REGIONAL VIEW



1:32,919
SITE VIEW



Special Studies

- Transport and Fate of Wastewater
 - 10% to 90% Remains in the Bay
- Treatment of Peak Wet Weather Flows
 - Secondary Treatment Capacity 12 mgd
 - Hydraulic Capacity 32 mgd



NPDES Permit

- Maintains BOD and TSS limits
- Reduces Limits for:
 - Copper
 - Cyanide
 - Ammonia
- Requires Bays and Estuaries Compliance
- Requires at least Secondary Treatment
- Public Comment




Cease and Desist Order


- Bays and Estuaries Policy Compliance by 2030
 - Feasibility Study
 - CEQA and Permitting
 - Funding and Implementation
- Eliminate Bypass by 2028
 - Wet Weather Improvement Plan



Recommend Adoption of NPDES Permit and Cease and Desist Order As Proposed

 Humboldt Bay

Legend

 Humboldt Bay