

**STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

SUPPLEMENTAL SHEET FOR REGULAR MEETING OF DECEMBER 6, 2012
Prepared on November 28, 2012

ITEM NUMBER: 10

SUBJECT: Revision of Waste Discharge Requirements, Reissuance of National Pollutant Discharge Elimination System Permit No. CA0047856 for California Department of Corrections and Rehabilitation, California Men's Colony, San Luis Obispo County, Order No. R3-2012-0027

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Board Member Question:

Please provide a brief summary of violation history under the existing permits for California Men's Colony. Please also explain the significance of these violations for this facility.

Water Board Staff Response:

Water Board staff always includes a Compliance Summary Table in the Fact Sheet of each permit; Table F-5 can be found on page F-7. The following table summarizes the violations of effluent limitations based on data collected from July 2009 through March 2011.

Table F-5. Compliance Summary

Date	Monitoring Period	Violation Type	Pollutant	Reported Value	Permit Limitation	Units
11/25/2010	4th Quarter	Maximum Daily	Chlorine Residual	0.12	<0.1	mg/L
November 2010	4th Quarter	Average Monthly	Copper, Total Recoverable	11	8.5	µg/L
July 2009	3rd Quarter	Interim Average Monthly	Chlorodibromomethane	4.4	3.5	µg/L
August 2009	3rd Quarter	Interim Average Monthly	Chlorodibromomethane	4.4	3.5	µg/L
October 2009	4th Quarter	Interim Average Monthly	Chlorodibromomethane	11	3.5	µg/L
January 2010	1st Quarter	Interim Average Monthly	Chlorodibromomethane	9.3	3.5	µg/L
April 2010	2nd Quarter	Interim Average Monthly	Chlorodibromomethane	4.3	3.5	µg/L
June 2010	2nd Quarter	Final Average Monthly	Chlorodibromomethane	4	0.4	µg/L

Date	Monitoring Period	Violation Type	Pollutant	Reported Value	Permit Limitation	Units
6/18/2010	2nd Quarter	Final Maximum Daily	Chlorodibromomethane	4	0.81	µg/L
July 2010	3rd Quarter	Final Average Monthly	Chlorodibromomethane	19	0.4	µg/L
7/23/2010	3rd Quarter	Final Maximum Daily	Chlorodibromomethane	19	0.81	µg/L
January 2011	1st Quarter	Final Average Monthly	Chlorodibromomethane	4	0.4	µg/L
1/13/2011	1st Quarter	Final Maximum Daily	Chlorodibromomethane	4	0.81	µg/L
July 2009	3rd Quarter	Interim Average Monthly	Dichlorobromomethane	20	13	µg/L
October 2009	4th Quarter	Interim Average Monthly	Dichlorobromomethane	17	13	µg/L
January 2010	1st Quarter	Interim Average Monthly	Dichlorobromomethane	19	13	µg/L
April 2010	2nd Quarter	Interim Average Monthly	Dichlorobromomethane	17	13	µg/L
June 2010	2nd Quarter	Final Average Monthly	Dichlorobromomethane	17	0.56	µg/L
6/18/2010	2nd Quarter	Final Maximum Daily	Dichlorobromomethane	17	1.1	µg/L
July 2010	3rd Quarter	Final Average Monthly	Dichlorobromomethane	4.3	0.56	µg/L
7/23/2010	3rd Quarter	Final Maximum Daily	Dichlorobromomethane	4.3	1.1	µg/L
November 2010	4th Quarter	Final Average Monthly	Dichlorobromomethane	2.1	0.56	µg/L
11/20/2010	4th Quarter	Final Maximum Daily	Dichlorobromomethane	2.1	1.1	µg/L
January 2011	1st Quarter	Final Average Monthly	Dichlorobromomethane	14	0.56	µg/L
1/13/2011	1st Quarter	Final Maximum Daily	Dichlorobromomethane	14	1.1	µg/L
5/1/2010	2nd	Maximum	Dissolved Oxygen	0.57	>2.0	mg/L

Date	Monitoring Period	Violation Type	Pollutant	Reported Value	Permit Limitation	Units
	Quarter	Daily				
January 2010	1st Quarter	Average Monthly	Flow Rate	1.3	1.2	MGD
December 2010	4th Quarter	Average Monthly	Flow Rate	1.4	1.2	MGD
4/15/2010	2nd Quarter	Maximum Daily	Sulfate	130	125	mg/L
11/20/2010	4th Quarter	Maximum Daily	Sulfate	189	125	mg/L

The Discharger violated numeric effluent limitations multiple times during the term of the previous Order. A majority of the violations are related to trihalomethanes (THMs), a by-product of chlorinated disinfection.

The Water Board issued administrative civil liability orders (ACLs) for a wastewater spill to Chorro Creek and effluent limitation violations during the previous permit term. In January 2008, a power failure caused 20,000 gallons of untreated wastewater to be discharged to Chorro Creek, and the Discharger was assessed a related ACL of \$40,000. Two additional ACLs for effluent limitation violations were issued in February 2009 for a total of \$201,500. In November 2009, the Discharger paid a penalty of \$18,000 for effluent limitation violations subject to mandatory minimum penalties.

On November 9, 2012, the Executive Officer, on behalf of the Board, issued an ACL order in the amount of \$105,000 for effluent violations subject to mandatory minimum penalties committed between October 2008 and July 2011. CMC directed \$60,000 of the penalty to the CCAMP Groundwater Assessment and Protection program as a supplemental environmental project.

Planned Changes

In fall of 2012, the Facility began conversion of its disinfection treatment process from a chlorine-based system to a ultraviolet system. Historically, all flow at the Facility has been disinfected by a chlorine-based process. Sodium hypochlorite is used to disinfect the effluent, and then excess chlorine is removed by sodium bisulfite prior to discharge into Chorro Creek. This chlorine-based disinfection leads to the THMs violations listed above. Staff expects the upgrade will eliminate the THMs formation and those violations are not expected once the upgrade is completed within the upcoming 16 months.

The conversion to ultraviolet disinfection is also expected to decrease sodium loading to Chorro Creek, as the Facility will no longer be using the sodium-based compounds as part of the disinfection process. The Facility does have intermittent receiving water sodium violations for Chorro Creek, and staff will continue to monitor and report on those to the Board.