

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION**

SPECIAL BOARD ORDER R7-2010-0010  
AMENDING WASTE DISCHARGE REQUIREMENTS ORDER R7-2006-0048  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
PERMIT NO. CA0104906 FOR THE  
UNITED STATES NAVY, OWNER/ KELLOGG BROWN AND ROOT SERVICES, INC., OPERATOR  
NAVAL AIR FACILITY EL CENTRO WASTEWATER TREATMENT PLANT, AND WASTEWATER  
COLLECTION AND DISPOSAL SYSTEMS  
El Centro – Imperial County

The California Regional Water Quality Control Board, Colorado River Basin Region (hereinafter Regional Water Board), finds:

**A. Background.**

1. On June 21, 2006, the Regional Water Board adopted Board Order R7-2006-0048, NPDES Permit No. CA0104906, prescribing Waste Discharge Requirements (WDRs) for the United States Navy (Owner) and Kellogg Brown and Root Services Inc. (Operator), hereinafter collectively referred to as Discharger for the discharge of 0.3 million gallons per day (MGD) of secondary treated wastewater from Naval Air Facility El Centro (NAFEC) Wastewater Treatment Plant (WWTP), hereinafter Facility, to an unnamed tributary of the New River, a water of the United States. Board Order R7-2006-0048 will expire on June 20, 2011.
2. Pursuant to California Water Code (CWC) Sections 13263(e) and 13381, and Title 40 Code of Federal Regulations (40 CFR) 122.41(f), 122.62, and 124.5, Board Order R7-2006-0048 may be modified, or rescinded and reissued, for cause. The filing of a request by the Discharger for a Board Order modification, rescission and reissuance, or a notification of planned changes or anticipated noncompliance does not stay any Board Order condition. (40 CFR 122.41(f).) Causes for modification include, but are not limited to, the promulgation of new regulations, modification of land application plans, or modification in sludge use or disposal practices, adoption of new regulations by the State Water Board or the Regional Water Board, including revisions to the Basin Plan, or to correct technical mistakes or mistaken interpretations of law made in determining permit conditions. ((40 CFR 122.62(a), 122.62(a)(15).)
3. Section IV A.1 Table E- 3 Effluent Monitoring Requirements of Previous Board Order R7-2006-0048 established compliance determination requirements for total chlorine residual. Footnote 2 of Table E-3 of the permit states, "Until such time when continuous monitoring for total residual chlorine is commenced, compliance with effluent limitations for total residual chlorine will be determined using grab samples collected throughout the operators' work period. Samples shall be collected within the first and last hours of the operators' work period, and at least every 4 hours in between. The Discharger shall provide all monitoring data for total residual chlorine and report the maximum daily concentration with each monthly SMR."
4. The Discharger has requested that these compliance determination requirements include the option of measuring dechlorinating agent to indicate compliance with the total chlorine residual effluent limitation.

5. The use of a continuous monitoring analyzer for dechlorination agent residual in the effluent is an appropriate method of process control and discharge monitoring. A positive residual dechlorination agent in the effluent indicates that chlorine is not present in the discharge. Other NPDES permits in the Colorado River Basin Region provide the discharger with the option of either measuring total chlorine residual or dechlorination agent to determine compliance with the total chlorine residual effluent limitation.
6. This Special Board Order amends Board Order R7-2006-0048 to revise the compliance determination requirements for total chlorine residual and related provisions and monitoring requirements.
7. Pursuant to 40 CFR 124.10(b) and CWC Section 13167.5, public notice of this draft revised Special Board Order must be provided to allow at least thirty (30) days for the public to comment on it, and public notice of a public hearing must also be given at least 30 days before the hearing. The two notices may be combined. These public participation requirements provide stakeholders potentially affected by this action with an opportunity to object to or comment on the proposed revised Special Board Order.
8. Pursuant to 40 CFR 124.10(b) and CWC Section 13167.5, on February 4, 2010, the Regional Water Board published Public Notice No. 7-10-05 for this proposed revised Special Board Order.

**B. Facility Description.** The U.S. Navy owns the wastewater treatment plant (WWTP) and operation and maintenance of the WWTP is currently contracted with Kellogg Brown and Root Services, Inc. The treatment system consists of an influent diversion box, a bar screen, an emergency storage pond with a synthetic liner, an oxidation ditch, and a secondary clarifier. Effluent is chlorinated using sodium hypochlorite solution and dechlorinated using a sodium bisulfate prior to discharge. The WWTP provides domestic sewage services to the naval air facility. Wastewater is discharged from Discharge Point No. 001 to an unnamed tributary of the New River, a water of the United States, within the Imperial Hydrologic Unit (Brawley HA), No. 723.10.

**C. California Environmental Quality Act (CEQA).** This action to amend an NPDES permit is exempt from the provisions of Chapter 3 of CEQA (commencing with Section 21100) of Division 13 of the California Public Resources Code in accordance with Section 13389 of the CWC.

**D. Notification of Interested Parties.** The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe WDRs for the discharge and has provided them with an opportunity to submit their written comments and recommendations (see Attachment A of this Order for full details on Public Participation).

**E. Consideration of Public Comment.** The Regional Water Board, in a public hearing, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that Board Order R7-2006-0048 is amended in the manner specified below upon the effective date of this Special Board Order, and, in order to meet the provisions contained in Division 7 of the CWC and regulations adopted thereunder, and the provisions of the federal Clean Water Act (CWA), and regulations and guidelines adopted thereunder, the Discharger shall comply with the requirements in this Special Board Order as well as with those portions of Board Order R7-2006-0048 that were not amended by this Special Board Order:

1. Page 24, VII. COMPLIANCE DETERMINATION. Add the following after Section M. State Water Board Water Quality Enforcement Policy.

**N. Total Chlorine Residual Effluent Limitation (Continuous Effluent Limitation).**

Compliance determinations for total chlorine residual shall be based on either Method 1 or 2 as follows:

**Method 1 (Continuous Chlorine Monitoring)**

Compliance determinations for total chlorine residual shall be based on 99% compliance. To determine 99% compliance with the effluent limitation for total chlorine residual, the following conditions shall be satisfied:

1. The total time during which the total chlorine residual values are above 0.1 mg/L (instantaneous maximum value) shall not exceed 7 hours and 26 minutes in any calendar month;
2. Individual excursions shall not exceed from 0.1 mg/L for 30 minutes or longer; and
3. Individual excursions shall not exceed 5.0 mg/L at any time.

In the event of failure of the continuous chlorine monitoring device, grab samples for total chlorine residual shall be collected immediately and within the first and last hours of the operators' work period, and at least every 4 hours in between. The Discharger shall provide all monitoring data for total residual chlorine and report the instantaneous maximum and average monthly concentration with each monthly SMR for this period. Compliance with total chlorine residual for grab samples during this period will be determined as stated on pages 22-23, VII. D. and H. of Board Order R7-2006-0048.

**Method 2 (Continuous Dechlorination Agent Monitoring)**

Compliance determinations for total chlorine residual shall be based on maintaining a positive dechlorination agent residual.

1. A positive dechlorination agent residual shall be maintained at all times.

In the event of failure of the continuous dechlorinating monitoring device or monitoring value is below minimum reporting level, grab samples for total chlorine residual shall be collected immediately and within the first and last hours of the operators' work period, and at least every 4 hours in between. The Discharger shall provide all monitoring data for total residual chlorine and report the instantaneous maximum and average monthly concentration with each monthly SMR for this period. Compliance with total chlorine residual for grab samples during this period will be determined as stated on pages 22-23, VII. D. And H. of Board Order R7-2006-0048.

2. Page E-4, IV.A.1. Table E-3. Effluent Monitoring. Replace Table E-3 with the following (new items are underlined and deleted items are shown in strikeout):

**Table E-3 Effluent Monitoring Requirements**

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and (Reporting Level, units), respectively
Chlorine, Total Residual	mg/L	Continuous	Continuous <sup>2</sup>	See Footnote 3
Daily Effluent Discharge (Flow)	MGD	Flow Meter Reading	Continuous	See Footnote 4
pH	pH Units	Grab	1x/Day	See Footnote 3
Temperature	°F	Grab	1x/Day	See Footnote 3
Escherichia Coli (E. Coli)	Number/100 ml	Grab	5x/Month <sup>5</sup>	See Footnote 5
BOD 5-day 20 °C	mg/L	24-Hr. Composite	1x/Week	See Footnote 3
Total Suspended Solids	mg/L	24-Hr. Composite	1x/Week	See Footnote 3
Ammonia Nitrogen, Total (as N)	mg/L	24-Hr. Composite	1x/Month	See Footnote 3
Mercury, Total Recoverable	µg/L	Grab	1x/Month	See Footnote 3
Nitrates as Nitrogen (as N)	mg/L	24-Hr. Composite	1x/Month	See Footnote 3
Nitrites as Nitrogen (as N)	mg/L	24-Hr. Composite	1x/Month	See Footnote 3
Nitrogen, Total (as N)	mg/L	24-Hr. Composite	1x/Month	See Footnote 3
Phosphate, Total (as P)	mg/L	24-Hr. Composite	1x/Month	See Footnote 3
Total Dissolved Solids	mg/L	24-Hr. Composite	1x/Month	See Footnote 3
Chloride	mg/L	24-Hr. Composite	1x/Quarter	See Footnote 3
Hardness (as CaCO <sub>3</sub> )	mg/L	Grab	1x/Quarter	See Footnote 3
Sulfates	mg/L	24-Hr. Composite	1x/Quarter	See Footnote 3
Oil and Grease	mg/L	Grab	1x/Year	See Footnote 3
Priority Pollutants <sup>6</sup>	µg/L	Grab	1x/Year	See Footnote 3

3. Page E-14, X. D.1. Table E-10 Operations and Maintenance Report. Replace Table E-10 with the following (new items are underlined and deleted items are shown in strikethrough):

**Table E-10 Operations and Maintenance Report**

Activity	Reporting Frequency
The amount of chemical used (i.e., chlorine, <u>dechlorinating agent</u> etc.), shall be monitored daily and reported monthly. Measured in pounds per day.	1x/Month

<sup>2</sup> ~~Until such time when continuous monitoring for total residual chlorine or dechlorinating agent is commenced, c~~Compliance with effluent limitations for total residual chlorine shall be in accordance with Section VII. N. Total Chlorine Residual Effluent Limitation (Continuous Effluent Limitation) determined using ~~grab samples collected throughout the operators' work period. Samples shall be collected within the first and last hours of the operators' work period, and at least every 4 hours in between. The Discharger shall provide all monitoring data for total residual chlorine and report the maximum daily concentration with each monthly SMR.~~

<sup>3</sup> Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136; for priority pollutants the methods must meet the lowest minimum levels (MLs) specified in Attachment 4 of the SIP, where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board.

<sup>4</sup> Report Total Daily Flow

<sup>5</sup> The Discharger shall collect at least one sample per week. The Discharger may monitor E. coli using analytical methods, Standard Method 9221.F or 9223, (APHA.1998, 1995, 1992. Standard Methods for Examination of Water and Wastewater. American Public Health Association, 20th, 19th and 18 editions. Amer. Publ. Hlth. Assoc., Washington, D.C.).

<sup>6</sup> Priority Pollutants as defined by the California Toxics Rule (CTR) defined in Finding II.I of the Limitations and Discharge Requirements of this Order, and included as Attachment G.

To inspect and document any operation/maintenance problems by inspecting each unit process. In addition, calibration of flow meters and mechanical equipment shall be performed in a timely manner and documented.	1x/Year
<u>The Discharger shall include documentation of all logbooks (operation and maintenance), chain of custody sheets and sampling activities as stated in Special Provision VI.C.4.b (Limitations and Discharge Requirements) and Standard Provisions sections IV and V (Attachment D).</u>	1x/Year

I, Robert E. Perdue, Executive Officer, do hereby certify the following is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on March 18, 2010.

  
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ROBERT E. PERDUE, Executive Officer

**ARTICLE I. ATTACHMENT A – PUBLIC PARTICIPATION**

The California Regional Water Quality Control Board, Colorado River Basin Region (Regional Water Board) is considering the amendment of Waste Discharge Requirements (WDRs) that will serve as a National Pollutant Discharge Elimination System (NPDES) permit for NAFEC’s Wastewater Treatment Plant. As a step in the WDR adoption process, the Regional Water Board staff has developed tentative WDRs. The Regional Water Board encourages public participation in the WDR adoption process.

**Section 1.01 A. Notification of Interested Parties**

The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Notification was published in the following newspaper: Imperial Valley Press. In addition, copies of the proposed permit were sent to interested agencies and persons.

**Section 1.02 B. Written Comments**

The Regional Water Board staff’s determinations are tentative. Interested persons are invited to submit written comments concerning this tentative Special Board Order. Comments should be submitted either in person or by mail to the Executive Officer at the Regional Water Board at the address above on the cover page of this Order.

Comments made in reference to the tentative Special Board Order should be directed to:

California Regional Water Quality Control Board  
Colorado River Basin Region  
73-720 Fred Waring Drive, Suite 100  
Palm Desert, CA 92260

To be fully responded to by staff and considered by the Regional Water Board, written comments should be received at the Regional Water Board office no later than 5:00 p.m. on March 11, 2010.

**Section 1.03 C. Public Hearing**

The Regional Water Board will hold a public hearing on the tentative Special Board Order during its regular Board meeting on the following date and time and at the following location:

Date: March 18, 2010  
Time: 10:00 a.m.  
Location: City Hall Council Chambers  
City of La Quinta  
78495 Calle Tampico  
La Quinta, CA 92253

Interested persons are invited to attend. At the public hearing, the Regional Water Board will take testimony pertinent to the discharge and tentative Special Board Order. For accuracy of the record, however, a written copy of the proposed oral testimony to be given should be provided prior to or at the hearing.

Please be aware that dates and venues of the Regional Water Board's public meeting and hearing may change. The latest information concerning any scheduling changes can be found at the Regional Water Board's website: <http://www.waterboards.ca.gov/coloradoriver/>.

If you are disabled and require special accommodations to participate in this public meeting and hearing, please contact Hilda Vasquez at (760) 776-8950 no later than ten (10) days before the scheduled event.

#### **Section 1.04 D. Waste Discharge Requirements Petitions**

Any person aggrieved by this action of the Regional Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and the California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

[http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](http://www.waterboards.ca.gov/public_notices/petitions/water_quality)

or will be provided upon request.

State Water Resources Control Board  
Office of Chief Counsel  
P.O. Box 100, 1001 I Street  
Sacramento, CA 95812-0100

#### **Section 1.05 E. Information and Copying**

Information related to the discharge facility and this proposed amendment, including any comments received on the proposed amendment, are on file and may be inspected at the address above at any time between 8:30 a.m. and 4:45 p.m., Monday through Friday. Copying of documents may be arranged through the Regional Water Board by calling (760) 346-7491.

#### **Section 1.06 F. Register of Interested Persons**

Any person interested in being placed on the mailing list for information regarding this tentative Special Board Order should contact the Regional Water Board, reference this facility, and provide a name, address, and phone number.

#### **Section 1.07 G. Additional Information**

Requests for additional information or questions regarding this draft Special Board Order should be directed to John Carmona, Senior Water Resources Control Engineer, at (760) 340-4521.