April 12, 2016

UPDATED FINDING OF EMERGENCY
(Gov. Code, § 11346.1, subd. (b); Cal. Code Regs., tit. 1, § 50)

Pursuant to Government Code section 11346.1, subdivision (b), and California Code of Regulations, Title 1, section 50, a state agency may adopt emergency regulations if the agency makes a finding that the adoption of a regulation is necessary to address a situation calling for immediate action to avoid serious harm to the public peace, health, safety, or general welfare.

The California Department of Fish and Wildlife (CDFW) submitted an emergency rulemaking that was filed by the Office of Administrative Law (OAL) on November 6, 2015 after samples of Dungeness and rock crabs were found to contain high domoic acid levels. The emergency rulemaking closed the commercial rock crab fishery north of the Ventura/Santa Barbara county line and delayed the opening of the commercial Dungeness crab fishery statewide. The Office of Environmental Health Hazard Assessment (OEHHA) has continued to regularly monitor domoic acid levels in rock crab and Dungeness crab along the California coast since the emergency regulations were filed. Pursuant to those regulations, the Director of CDFW has reopened certain state waters along the California coast to commercial fishing based on the results of domoic acid testing and the recommendations of OEHHA in consultation with the Director of the California Department of Public Health (CDPH). Parallel regulations adopted by the Fish and Game Commission opened certain state waters to recreational fishing. The timeline for those openings is as follows:

- On December 31, 2015, the recreational Dungeness crab and both commercial and recreational rock crab fisheries were reopened in state waters south of 35° 40’ N. Latitude (near Piedras Blancas Light Station).
- On February 11, 2016, the recreational Dungeness crab fishery was reopened in state waters south of 38° 00’ N. Latitude (near Point Reyes).
- On March 18, 2016, the recreational Dungeness crab fishery was reopened in state waters south of the Mendocino/Sonoma county line (near Gualala). In accordance with the emergency regulations, the commercial Dungeness crab fishery reopened seven days later on March 26, 2016.
- On March 28, 2016, the recreational and commercial rock crab fisheries were reopened in the Channel Islands, with the exception of state waters between Santa Cruz and Santa Rosa islands.

High domoic acid levels are persisting in some areas of the state as indicated by continued Dungeness crab and rock crab sampling. Emergency closures remain in
effect for commercial and recreational rock crab fisheries north of the Piedras Blancas Light Station in San Luis Obispo County and for commercial and recreational Dungeness crab fisheries north of the Sonoma/Mendocino county line. Therefore CDFW is proposing to readopt the emergency regulations for a period of 90 days following the initial 180-day effective time period, which ends on May 5. The proposed readoption is necessary to continue the emergency closures in state ocean waters with persistent high levels of domoic acid prior to the end of the commercial and sport Dungeness and rock crab fishing seasons. Consuming crab from these areas poses a significant risk to public health as determined by the Director of OEHHA, in consultation with the Director of CDPH. Thus readopting the emergency closure for a period of 90 days beyond the initial 180 day period is necessary for the preservation of the public peace, health, safety, or general welfare.

Specific Facts Demonstrating the Existence of an Emergency and Need for Immediate Action

Current laws and regulations for commercial take of Dungeness crab and rock crab specify seasons, size limits, trap, bag and possession limits, closed fishing areas, and gear restrictions. The Dungeness crab season extends from November 15 until June 30 in the southern portion of the fishery (south of Mendocino County), and runs from December 1 until July 15 north of Sonoma County. The rock crab season is open year-round.

Domoic acid is produced from species of the marine diatom *Pseudo-nitzschia*. A massive toxic bloom of *Pseudo-nitzschia* developed between the spring and fall of 2015, significantly impacting marine life along California’s coast. Algal blooms are common, but this one is particularly large and persistent. Warmer ocean water temperatures associated with the El Niño event California is experiencing is likely a major contributing factor to the size and persistence of this bloom.

State scientists have been continuously testing crab samples from nine fishing ports between Santa Barbara and Crescent City, and while some areas have shown improvement and are open to fishing since the emergency rulemaking, other areas remain closed due to persistent high levels of domoic acid, exceeding the state action level in the viscera of crab samples, commonly referred to as crab butter, and therefore pose a significant risk to the public if they are consumed.

On November 3, 2016, the CDPH issued a health advisory warning individuals to avoid eating Dungeness crab and rock crab due to the detection of high levels of domoic acid. The advisory was followed by a recommendation from the OEHHA to the Fish and Game Commission and the CDFW to delay the start of the recreational and commercial Dungeness crab season and close the recreational and commercial rock crab fishery. This action applied to both fisheries from the Oregon border to the southern Santa Barbara County line.
Domoic acid is a potent neurotoxin that can accumulate in shellfish, other invertebrates and sometimes fish. It causes illness and sometimes death in a variety of birds and marine mammals that consume affected organisms. At low levels, domoic acid exposure can cause nausea, diarrhea and dizziness in humans. At higher levels, it can cause persistent short-term memory loss, seizures and can in some cases be fatal.

Symptoms of domoic acid poisoning can occur within 30 minutes to 24 hours after eating toxic seafood. In mild cases, symptoms may include vomiting, diarrhea, abdominal cramps, headache and dizziness. These symptoms disappear within several days. In severe cases, the victim may experience trouble breathing, confusion, disorientation, cardiovascular instability, seizures, excessive bronchial secretions, permanent loss of short-term memory, coma, or death.

The CDFW proposes to readopt this emergency rulemaking action to continue the closure for the commercial Dungeness crab fishery and the commercial rock crab fishery based on the significant risk to public health that exists due to unsafe domoic acid levels in Dungeness crab, *Metacarcinus magister*, and all rock crab (rock crab, *Cancer antennarius*, yellow crab, *Cancer anthonyi*, and red crab, *Cancer productus*) as determined by the Director of the OEHHA, in consultation with the Director of the CDPH, pursuant to the authority vested by Fish and Game Code section 7715. The commercial rock crab fishery remains closed north of 35° 40’ North Latitude and in state waters between Santa Cruz and Santa Rosa islands while the commercial Dungeness crab fishery is closed north of the Mendocino/Sonoma county line.

The Dungeness crab fishery is one of California’s most lucrative and popular fisheries. The fishery has a well-established order and structure between the recreational and commercial sectors as well as between different Districts within the commercial sector. The reopening procedures in these emergency regulations are designed to maintain the existing structure as closely as possible by providing the recreational sector fishing opportunities prior to the start of the commercial season and by explicitly recognizing that this action constitutes a delay pursuant to state law in the opening of the season for purposes of Fish and Game Code Section 8279.1.

**Technical, Theoretical, and/or Empirical Studies, Reports, or Documents Relied Upon**

The Department relied on the following documents in proposing this emergency rulemaking action:

Office of Environmental Health Hazard Assessment, Memorandum to Charlton H. Bonham, Director of the California Department of Fish and Wildlife, Subject: Domoic Acid Threat to Public Health in Dungeness Crab, November 6, 2015.


Office of Environmental Health Hazard Assessment, Memorandum to Charlton H. Bonham, Director of the California Department of Fish and Wildlife, Subject: Recommendations on Opening Dungeness and Rock Crab From Mainland Coasts of San Luis Obispo County and Counties to the South, December 31, 2015.


Office of Environmental Health Hazard Assessment, Memorandum to Charlton H. Bonham, Director of the California Department of Fish and Wildlife, Subject: Recommendation Regarding Opening of Dungeness Crab Fishery in State Waters South of 38° 00’ N Latitude, February 11, 2016.


Office of Environmental Health Hazard Assessment, Memorandum to Charlton H. Bonham, Director of the California Department of Fish and Wildlife, Subject: Recommendation on Opening of Dungeness Crab Fishery in State Waters South of the Sonoma/Mendocino County Line, March 18, 2016.


Office of Environmental Health Hazard Assessment, Memorandum to Charlton H. Bonham, Director of the California Department of Fish and Wildlife, Subject: Recommendation on Opening Rock Crab Fishery near Channel Islands, with the Exception of One Area, March 28, 2016.

**AUTHORITY AND REFERENCE**

(Gov. Code, § 11346.5, subd. (a)(2))

Authority cited: Section 7715, Fish and Game Code.
INFORMATIVE DIGEST/POLICY STATEMENT OVERVIEW

(Gov. Code, § 11346.5, subd. (a)(3))

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Domoic acid is produced from some species of the marine diatom *Pseudo-nitzschia*. A massive toxic bloom of *Pseudo-nitzschia* developed between spring and fall of 2015, significantly impacting marine life along California’s coast. Algal blooms are common, but this one is particularly large and persistent. Warmer ocean water temperatures associated with the El Niño event California is experiencing is likely a major contributing factor to the size and persistence of this bloom.

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The CDFW proposes to readopt this emergency rulemaking action for a period of 90 days to continue the closure for the commercial Dungeness crab fishery and the
commercial rock crab fishery based on the significant risk to public health that exists due to unsafe domoic acid levels in Dungeness crab, *Metacarcinus magister*, and all rock crab (rock crab, *Cancer antennarius*, yellow crab, *Cancer anthonyi*, and red crab, *Cancer productus*) as determined by the Director of the OEHHA, in consultation with the Director of the CDPH, pursuant to the authority vested by Fish and Game Code section 7715. The commercial rock crab fishery remains closed north of 35° 40’ North Latitude and in state waters between Santa Cruz and Santa Rosa islands, while the commercial Dungeness crab fishery is closed north of the Mendocino/Sonoma county line.

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**The Proposed Regulation Does Not Differ or Conflict with Federal Law**

The emergency regulation does not differ substantially or conflict with an existing comparable federal regulation or statute.

**The Proposed Regulation is Not Inconsistent or Incompatible with Existing State Regulations**

The Department conducted an evaluation of existing regulations and the emergency regulation is neither inconsistent nor incompatible with existing state regulations.

**Benefits of the Proposed Regulation**

Continuing the emergency rulemaking and closure will benefit the general public by reducing a significant risk to public health as determined by the Director of the OEHHA, in consultation with the Director of the CDPH.

**OTHER MATTERS PRESCRIBED BY STATUTE**

(Gov. Code, § 11346.5, subd. (a)(4))

The Department’s operations are primarily prescribed by the hundreds of provisions set forth in the California Fish and Game Code and Title 14, California Code of Regulations. Other bodies of law that govern the Department include, but are not limited to, the Government and Penal Codes.
LOCAL MANDATE DETERMINATION
(Gov. Code, § 11346.5, subd. (a)(5))

The Department has determined that maintaining California Code of Regulations, Title 14, section 131 does not impose a new mandate on local agencies or schools districts.

ESTIMATE OF COST OR SAVINGS
(Gov. Code, § 11346.5, subd. (a)(6))

Dungeness Crab Fishery
The Dungeness crab commercial season begins normally on November 15 onward to mid-July. The last three years of Dungeness crab landings in the closure area (Oregon border to southern Santa Barbara County) were examined to derive an estimate of the potential loss in landings tax receipts. The average weekly landings tax receipts over the 35-week season varies from highs of $4,414 in the opening month of November; to the low at the end of the season in July of $42; with the weekly average over the entire season being $1,050. The closure is effectively a postponement of the season opening, and in the event that the closure is lifted, the opening season high catch volumes and landings tax receipts are anticipated. While the higher initial losses should be captured at the later season opening, the entire season length would be shortened by the effective closure period resulting in total tax revenue losses of an estimated $1,050 per week that the season is shortened.

Rock Crab Fishery
The rock crab commercial season is open year round. The last three years of rock crab landings in the closure area (Oregon border to southern Santa Barbara County) were examined to derive an estimate of the potential loss in landings tax receipts. The average weekly catch and associated landings tax receipts do not vary much throughout the year. The weekly average landings tax revenue is $55 per week. The closure will effectively reduce the annual season length, such that the anticipated annual losses would be incurred at approximately $55 per week. However upon first re-opening the rock crab fishery, the catch volume and landings tax revenue may exceed the average under the normal year round season.

Other Tax Revenues to the State
The total value (including state sales and income tax) of the Dungeness crab harvest was about $59 million in the 2013-14 season as the catch from about 500 commercial vessels is brought to market and passed through to processors, dockworkers, truckers and others. The total value of the crab harvest is estimated to contribute about $6 million in sales and income tax revenue to the state annually. This is approximately $115,400 in sales and income taxes per week.

The continued emergency rulemaking will not result in any costs or savings to local agencies or school districts and does not affect federal funding to the state. Estimated
costs to the State in terms of reduced landing tax revenues are estimated at $1,050 per week that the season is shortened. There are no nondiscretionary costs or savings imposed on local agencies. There are no costs or savings in federal funding to the State.