



# Engineering Services Manager's Report

Engineering and Operations Committee

Item 7b

January 8, 2018

# Dam Inundation Maps

- Purpose
  - Show maximum water surface resulting from a complete dam breach & draining of a full reservoir (former scenario)
- New Requirements
  - Inundation maps required for Extremely High, High & Significant classifications
  - New failure scenarios to be identified & evaluated
  - Required to be included in Emergency Action Plans (EAPs)
  - DSOD to review & approve inundation maps

# Inundation Map Due Dates

## Extremely High Hazard Classification

### Due by 1/1/2018

- Diamond Valley Lake
- Garvey Reservoir
- Lake Mathews
- Lake Skinner
- Live Oak Reservoir
- Palos Verdes Reservoir

## High Hazard Classification

### Due by 1/1/2019

- Cajalco Creek Detention Basin
- Copper Basin Reservoir
- DVL Forebay
- DVL Goodhart Cyn Detention Basin
- Diemer Basin No. 8
- Diemer Ozone Contact Basin
- Diemer Treated Water Reservoir
- Gene Wash Reservoir
- Mills Treated Water Reservoir
- Mills Treated Water Reservoir No. 2
- Mills Reclamation Basin
- Orange Co. Reservoir (out of service)
- Skinner Treated Water Reservoir
- Weymouth Treated Water Reservoir

# Inundation Map Status

## Submitted Previously

- Diemer Ozone Contactor Basins
- Diemer Treated Water Reservoir
- Lake Mathews
- Lake Skinner
- Skinner Treated Water Reservoir

## Submitted in 12/2017

- Cajalco Detention Basin
- Copper Basin Reservoir
- Diamond Valley Lake
- DVL Forebay
- DVL Goodhart Cyn Detention Basin
- Diemer Basin No. 8
- Garvey Reservoir
- Gene Wash Reservoir
- Live Oak Reservoir
- Mills Treated Water Reservoir No. 1
- Mills Treated Water Reservoir No. 2
- Mills Reclamation Basins
- Palos Verdes Reservoir
- Weymouth Treated Water Reservoir

## To Be Submitted in 2018

- Orange Co. Reservoir (out of service)

# Dam Emergency Action Plans (EAPs)

## ● Purpose

- Identify potential emergency conditions that could occur at a dam, & prescribe procedures to follow to minimize loss of life & property damage
- Not previously required in California

## ● EAPs Provide Guidance to Responders

- Evaluating hazards
- Determining level of emergency
- Defining communication protocols

## ● New Requirements

- EAPs required for Extremely High, High & Significant classifications
- EAPs to follow FEMA guidelines
- CalOES to review & approve EAPs
- Owner has responsibility to coordinate with local agencies

# Dam EAP Due Dates

## Extremely High Hazard Classification

Due by 1/1/2018

- Diamond Valley Lake
- Diemer Treated Water Reservoir
- Garvey Reservoir
- Lake Mathews
- Lake Skinner
- Palos Verdes Reservoir

## High Hazard Classification

Due by 1/1/2019

- Cajalco Creek Detention Basin
- Copper Basin Reservoir
- DVL Forebay
- DVL Goodhart Detention Basin
- Diemer Basin No. 8
- Diemer Ozone Contactor Basins
- Gene Wash Reservoir
- Live Oak Reservoir
- Mills Treated Water Reservoir No. 1
- Mills Treated Water Reservoir No. 2
- Mills Reclamation Basins
- Orange Co. Reservoir (out of service)
- Skinner Treated Water Reservoir
- Weymouth Treated Water Reservoir

# Dam EAP Status

## Submitted in 12/2017

- Diamond Valley Lake
- Diemer Basin No. 8
- Diemer Ozone Contactor Basins
- Diemer Treated Water Reservoir
- Garvey Reservoir
- Lake Mathews
- Lake Skinner
- Palos Verdes Reservoir

## Target Completion by Mid-2018

- Cajalco Creek Detention Basin
- Copper Basin Reservoir
- DVL Forebay
- DVL Goodhart Cyn Detention Basin
- Gene Wash Reservoir
- Live Oak Reservoir
- Mills Treated Water Reservoir No. 1
- Mills Treated Water Reservoir No. 2
- Mills Reclamation Basin
- Orange Co. Reservoir (out of service)
- Skinner Treated Water Reservoir
- Weymouth Treated Water Reservoir

