

**FLOOD FIGHT HISTORY**

1909-14 - Empire Tract first leveed in 1909. King Island and Bishop Tract leveed in 1913-14. Early in this period Bishop Cut between districts was made.

1955 - Extreme high tides augmented by offshore winds and storm conditions, together with flood runoff, produced critical conditions that led to failure of Empire Tract levee on northwest side. Peak flows of 10,000 cfs on the Calaveras River and 27,000 cfs on the Mokelumne River with estimated peak inflow into Delta of 445,000 cfs on December 24, 1955. Peak tidal gauge height at Venice Island gauge of 10.7' on December 26, same day that Empire Tract flooded.

1997 - Heavy rains during period of December 30 to January 2 caused river stage of more than 34' at Vernalis gauge on San Joaquin River and 21.5' at Benson's Ferry gauge on the Mokelumne River. No problems on King Island or Empire Tract.

**PATROL PLAN**

**RECLAMATION DISTRICT NO. 2029 - EMPIRE TRACT**

Superintendent John Rocha coordinates patrol schedules and sectors upon high water alerts. The District anticipates having enough personnel to maintain extended patrol.

**RECLAMATION DISTRICT NO. 2044 - KING ISLAND**

General Manager Nick Marchetti coordinates patrol schedules and sectors upon high water alerts. The District anticipates having enough personnel to maintain extended patrol.

**Leak Protocol**  
 Consistent with DWR's Levee Threat Monitoring Guidelines:

- Red-Boil Seepage
- Blue-Rock Slippage
- White-Slopes/Levee Distress

**FLOOD CONTINGENCY OPTIONS**

**RECLAMATION DISTRICT NO. 2029 - EMPIRE TRACT**

**HIGHWATER EVENT**

The general flood fight strategy will be to flood fight primary levees and maintain adequate patrol. The District will coordinate levee patrols and the County will coordinate action planning between the District and State/Federal agencies and provide logistical support.

**Actions**

- Coordinate and monitor patrol of primary levees.
- Attend meetings of North Delta Flood Fight Unified Command at Van Exel Command Post.

**FAILURE OF EMPIRE TRACT LEVEE**

This scenario will lead to flooding of Empire Tract up to Honker Cut. The general flood fight strategy will be to protect interior slopes of primary levees while repairing break and installing emergency pumping station to dewater district.

**Actions**

- Repair levee breach.
- Plan for and install emergency pumps for removing residual impounded waters.
- Protect the interior District levees.
- Monitor increased seepage behind levees of adjacent districts.

**SPECIAL CONSIDERATIONS**

**RECLAMATION DISTRICT NO. 2029 - EMPIRE TRACT**

**Access Following Failure of King Island Levees**

Should King Island's levee fail, access to Empire Tract shall take place by diverting traffic from Eight Mile Road at the Bishop Cut Bridge either south or north on the King Island levee crown to the Honker Cut Bridge.

**Ferry Access Points**

There are 3 ferry access points located on Empire Tract and can be used in an emergency to offload materials and equipment. The access points are located near stations 104, 124 and 388.

**FLOOD CONTINGENCY OPTIONS**

**RECLAMATION DISTRICT NO. 2044 - KING ISLAND**

**HIGHWATER EVENT**

The general flood fight strategy will be to maintain adequate patrol and flood fight primary levees. District will coordinate levee patrol and County will coordinate action planning between the District and State/Federal agencies and provide logistical support.

**Actions**

- Coordinate and monitor patrol of primary levees.
- Attend meetings of Central Delta Flood Fight Unified Command at Holt Command Post.

**FAILURE OF PRIMARY LEVEE ON RECLAMATION DISTRICT 2044 (KING ISLAND)**

This scenario will lead to flooding of King Island up to Bishop Cut. The general flood fight strategy will be to protect interior slopes of primary levees while repairing break and installing emergency pumping station to dewater district.

**Actions**

- Repair break.
- Protect interior slopes of primary levees.
- Identify and install additional emergency pumps to dewater the District.
- Establish and maintain access to RD 2029 - Empire Tract by southern levee of RD 2044 - King Island.
- Monitor for increased seepage behind levees of adjacent districts

**EVACUATION PLAN**

The Woodbridge Fire District and San Joaquin County Sheriff's Department are responsible for alerting, warning, and evacuation of the public within Empire Tract. The County access east along Eight Mile Road is the primary evacuation route off the District. In the event of flooding within the District, the south levee can be used as an emergency evacuation route to Eight Mile Road Bridge crossing Honker Cut.

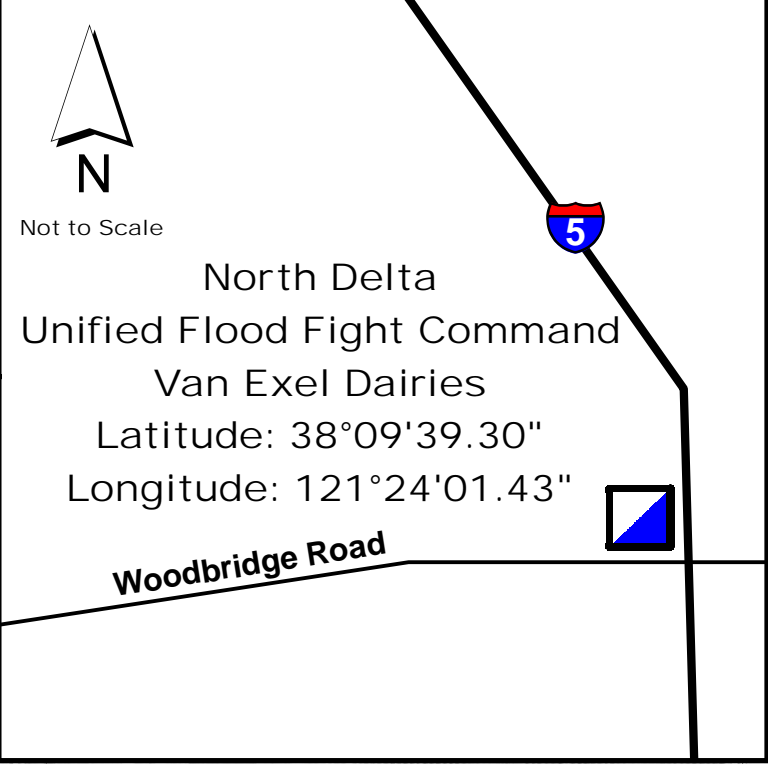
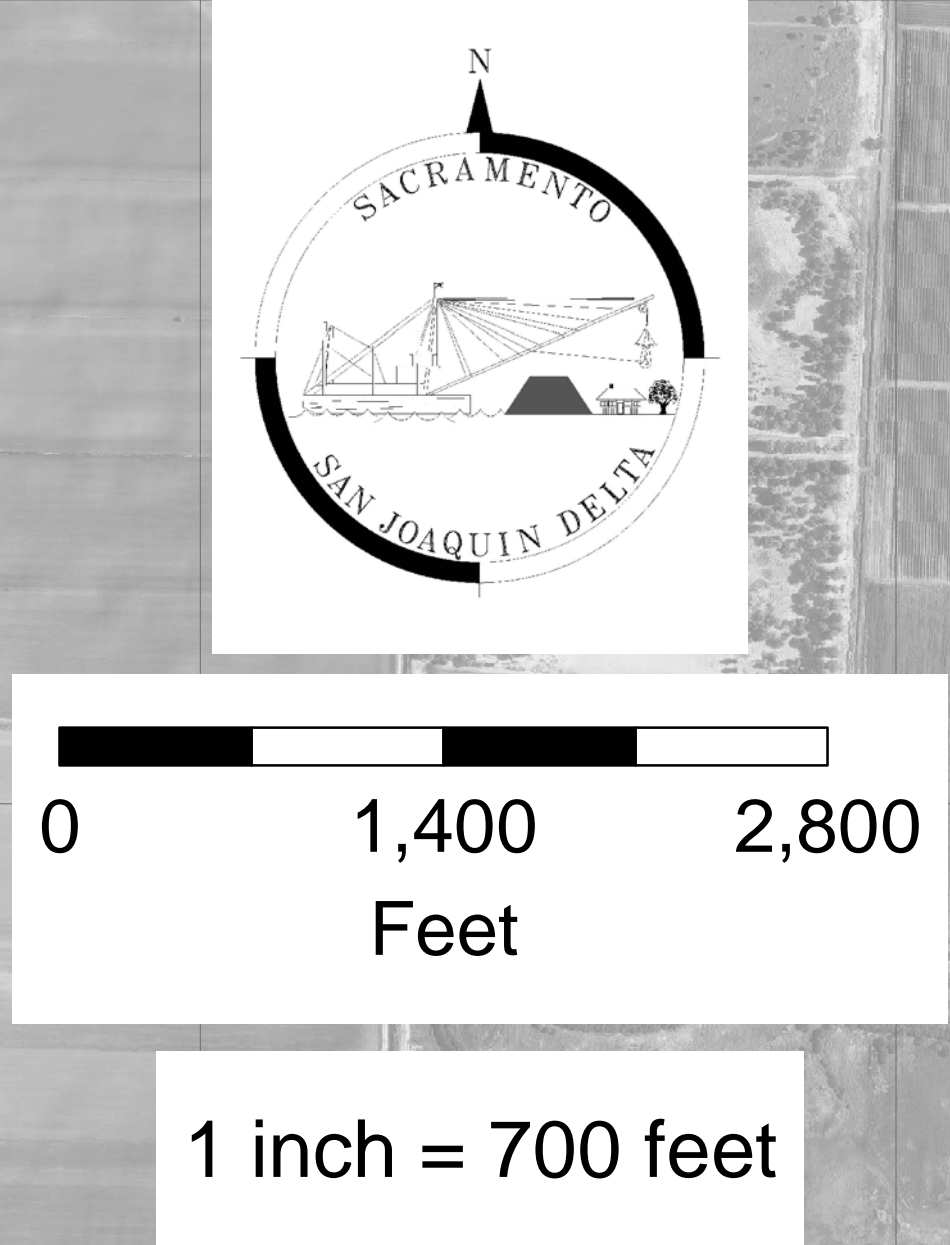
**100-YEAR FLOOD ELEVATIONS**

Gauge Location	USGS Gauge VNI	Elevation
San Joaquin River at Venice Island		10.1

Waterways	Elevations
Bishop Cut, Disappointment Slough, Little Connection Slough	10.1 - 10.2
White Slough, Honker Cut	10.2
Little Potato Slough	10.2 - 10.3
San Joaquin River DWSC	10.1

- Legend**
- 100 Year Flood Elevation
  - Levee
  - Command Post
  - Logistics Base
  - Supply Delivery Point
  - Supply Staging Area
  - Helipad
  - Structures
  - Levee Access
  - Seepage Area
  - Historic Levee Breach
  - Relief Cut
  - Current Erosion Area or as Labeled
  - Planned Emergency Berm
  - Dry Land Levee
  - Dry Land Levee Critical Section
  - Problematic Levee Sections
  - Levee Crown Elevation
  - Ground Elevations
  - Elevation Contour
  - Natural Gas Well Site
  - Pump Station - Municipal Supply
  - Pump Station - Municipal Storm
  - Pump Station - Rural Drainage
  - Pump Station - Emergency
  - Water Well
  - Landing
  - Boat Ramp
  - Sanitary Sewer Lines
  - Storm Drain Lines
  - Water Lines
  - Underground Fiber Optics
  - Overhead Utility
  - Underground Gas Line Alignment
  - Navigation Light
  - Navigation Light
  - Fuel Tank
  - Ferry Crossing
  - CELL
  - Utility Tower
  - Reclamation District/All Weather Road
  - All Weather Road
  - District Alignment
  - Primary Evacuation Route
  - Secondary Evacuation Route
  - Best Location for Barge Placement



**Horizontal and Vertical Data**

**Horizontal** - Map is projected to California State Coordinate System Zone 3 NAD 83 (US Feet)

**Vertical** - Published elevations are on NAVD 88 (US feet)

**DISTRICT DEWATERING PLAN**

Once all levee failure locations are repaired and stabilized, emergency pumps will be transported to the low spot specified on the Flood Contingency Map to dewater the District. The emergency pump locations identified are the lowest spots on the Island.

**TACTICAL PLANS**

**RECLAMATION DISTRICT NO. 2029 - EMPIRE TRACT**

The District tactical plan is to ensure access control and evacuation routes are cleared for use. If any identified flooding is occurring, access along the south levee must be maintained to allow evacuation of the District. The ferry landing at Venice Island must be sandbagged and a windrow of gravel must be constructed along various low spots to protect from overtopping and wind/wave wash. The District will utilize local flood fight supplies and stockpiles while coordinating with the SJOA through the North Delta Flood Fight Command.

**RECLAMATION DISTRICT NO. 2044 - KING ISLAND**

The District tactical plan is to ensure access control and evacuation routes are cleared for use. If any identified flooding is occurring, access along the south levee must be maintained to allow evacuation of the area and all points west along Eight Mile Road. The District will utilize local flood fight supplies and stockpiles while coordinating with the SJOA through the North Delta Flood Fight Command.

**COMMUNICATION PLANS**

The Districts' do not own communications equipment. Internal communication will be personal cellular telephones. Communication with outside jurisdictions will be personal cellular telephone use, or coordination at North Delta Flood Fight Command, Emergency Operations Center or other public safety meeting.

**NOTE ON LEVEE STANDARDS**

**RECLAMATION DISTRICT NO. 2029 - EMPIRE TRACT**

The District meets and exceeds the minimum HMP Levee Standard at multiple locations. The District has performed multiple projects from 2008-2011. A major rehabilitation project is being constructed in 2015-2016 to raise the levees to meet HMP.

**RECLAMATION DISTRICT NO. 2044 - KING ISLAND**

The District meets and exceeds the minimum HMP Levee Standard for 90% of the District. The District reached this level with recent rehabilitation and maintenance projects completed in 2014. A maintenance project scheduled for 2016 will complete maintenance to meet HMP.

**SUPPLY AND DELIVERY POINT(S)**

**RECLAMATION DISTRICT NO. 2029 - EMPIRE TRACT**

RD 2029 #1 Herman and Helen's Marina - lower parking lot at end of Eight Mile Road

**RECLAMATION DISTRICT NO. 2044 - KING ISLAND**

RD 2044 #1 Marchetti Ranch - Eight Mile Road and East Levee, North on East Levee

RD 2044 #2 Popplano Ranch - Eight Mile Road and West Levee