

Resolution No. 2010-03

WHEREAS, Reclamation District No. 1000 (District) operates and maintains levees under the authority of the California Central Valley Flood Protection Board (CCVFPB) and the California Water Code; and

WHEREAS, a part of that responsibility requires the District to monitor the flood control system during high water events and initiate a flood emergency response as necessary; and

WHEREAS, the District has prepared the attached Flood Emergency Response Plan to provide guidelines on how the District would prepare for the annual flood season, operate during flood season and respond during a flood emergency pursuant to its responsibilities; and

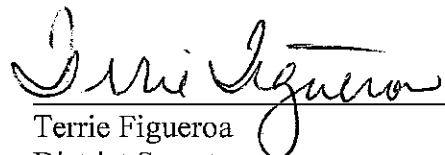
WHEREAS, AB 156 adopted by the State Legislature requires such a plan be adopted and submitted to the Central Valley Flood Protection Board;

NOW, THEREFORE BE IT RESOLVED:

The Reclamation District No. 1000 Board of Trustees hereby adopts the attached Flood Emergency Response Plan and directs the General Manager to forward the adopted Plan to the California Central Valley Flood Protection Board pursuant to AB 156.

CERTIFICATION

I, Terrie Figueroa, Secretary of Reclamation District No, 1000, hereby certify that the foregoing Resolution 2010-03 was duly adopted by the Board of Trustees of Reclamation District No, 1000 at a regular meeting held October 8, 2010 and made a part of the minutes thereof.



Terrie Figueroa
District Secretary



RECLAMATION
DISTRICT 1000

Reclamation District No. 1000
Flood Emergency Response Plan

1. Pre-season preparedness

- a. Update outside flood emergency contact information
- b. Check flood flight materials and order as necessary
- c. Review levee patrol vehicle checklist and order as necessary
- d. Maintenance on heavy duty equipment
- e. Maintenance on levee patrol vehicles
- f. Inspect pump plants and service motors (checklist)
- g. Confirm contact information for back-up Emergency District Manager
- h. Develop list of Flood Emergency Contractors (and contacts) able to respond in emergency and provide immediate flood fight assistance (equipment, materials and labor)
- i. Review and update outside levee patrol contact info
 - i. Natomas Mutual Water Company
 - ii. City of Sacramento
 - iii. Property owners and volunteers
- j. Review and update equipment and flood fight material suppliers list
- k. All field staff attend Flood Fight training class by DWR
- l. General Manager and Superintendent attend Pre-Season Flood Coordination meeting by State DWR

2. Flood season monitoring (normal non-storm event conditions)

- a. Review Climate Prediction Center (CPC) website for long term (30-day and 90-day) precipitation forecasts (Updated monthly)
- b. Monitor reservoir levels via CDEC on a weekly basis for available storage capacity and monitor for encroachment into flood space
- c. Monitor weather reports and precipitation forecasts on a daily basis
- d. Monitor river stage forecasts on (CDEC) for I Street and Verona gages twice weekly
- e. Set pump station automatic levels for flood season operations

3. Flood season monitoring (storm event)

- a. Monitor weather reports and precipitation radar several times per day

- b. Monitor river/stream levels as necessary to initiate levee patrols at pre-designated stages
- c. Monitor reservoir levels on daily basis (or more often if significantly encroached into flood space)
- d. Monitor reservoir release schedule on daily basis once levee patrols are initiated (and more often during significant flood events)

4. Pump Station and Interior Drainage System

- a. Superintendent and/or Foreman notify staff to initiate patrol and monitoring of canal levels and pump station operations based on antecedent moisture conditions, precipitation forecast and professional judgement/experience
- b. General forecast guidance is as follows for initiating pumpstation/canal monitoring
 - i. Dry conditions, low canal levels, low detention basin levels—forecast precipitation >1.5 inches (24 hour period)
 - ii. Normal winter conditions—forecast precipitation > 1.0 inches (24 hour period)
 - iii. Wet conditions—Once ground has reached a saturated condition, all precipitation will become runoff into District drainage system. Superintendent and/or General Manager will make decision to initiate 24-hour monitoring,
- c. Follow RD 1000 Pump Station Operation Guidelines

5. Perimeter Levee Patrols

- a. Notify staff when levee patrol or pump station operations requiring 24-hour monitoring is anticipated and adjust work schedules to accommodate
- b. Initiate levee patrols at pre-designated river, stream and/or reservoir levels
- c. Follow RD 1000 Levee Patrol Guidelines
- d. Notify outside levee patrol staff 24-hours in advance of need for assistance if possible

6. Flood emergency response

- a. Notify potential Flood Emergency Contractor(s) when precipitation forecasts, river stage forecasts or levee concerns may necessitate their assistance (24-hour notice if possible)
- b. Verify flood fight material and equipment availability and location and notify suppliers of potential need (24-hour notice if possible)
- c. Update Flood Emergency Contractor(s) on a daily basis
- d. Upon observing a boil, slip, erosion or other sign of levee distress:
 - i. Notify levee patrollers of observed problem and location.
 - ii. Determine appropriate inspection interval based on site conditions and communicate required interval to levee patrollers

- iii. Information shall be provided to subsequent levee patrol team during shift change tailgate meeting
- iv. Maintain record of observations on patrol logs, monitor site conditions and determine need for further action.
- e. Upon observing conditions determined to be a potential levee threatening situation:
 - i. Initiate flood fight with District crew
 - ii. Notify State Flood Center requesting technical assistance
 - iii. Request assistance from District's flood response consultant
 - iv. Mobilize Flood Emergency Contractor(s) as necessary
 - v. Notify the Operational Area Coordinator (currently the Sacramento County Emergency Operations Manager as defined under the Standardized Emergency Operations System or SEMS) and City/County Emergency Operations Center
 - vi. Notify Board of Trustees and call emergency meeting, if necessary
 - vii. Initiate administrative support in office on 24-hour basis
- f. If conditions are beyond the capabilities of the District and its Flood Emergency Contractor either due to imminent risk of levee failure or anticipated flood emergency response costs, request immediate assistance from the State Flood Center and Corps of Engineers.

7. Post flood action, repairs and rehabilitation

- a. Organize files from emergency operations
 - i. Gather pictures, memos, notes and other written information from those involved in the emergency response
 - ii. Create list of outside contacts made during response including resource and regulatory agencies
 - iii. Organize contracts executed, invoices from contractors/material suppliers and document labor costs from emergency response
 - iv. Initiate claim procedure with FEMA and CalEMA
- b. Conduct post flood survey of system to determine areas needing immediate emergency repairs
 - i. Determine if District has financial resources to undertake repairs, otherwise seek assistance from State and Army Corps of Engineers (under PL84-99 or other available state or federal program to implement immediate repairs).
- c. Conduct post flood-season survey to determine sites which were not addressed by action under item 7b but which need to be repaired prior to the next flood season.
 - i. Determine if District has financial resources to undertake repairs, otherwise seek assistance from State, Army Corps of Engineers or other potential funding sources.

Reclamation District No. 1000 Levee Patrol Guidelines

| Locations | Stage Forecast | Patrol Frequency Interval | 24-hour | Notations or Site Specific Adjustments |
|--------------------------|----------------------------------|---------------------------|---------|--|
| American River/NEMDC | I Street 25.0 | 6-hours | Y | |
| | I Street 27.0 | 3-hours | Y | |
| | I Street 29.0 | 2-hour | Y | |
| | I Street 31.0 | 1-hour | Y | |
| | I Street 32.0 | 30 minutes | Y | |
| Sacramento River | I Street 25.0 and/or Verona 32.0 | 6 hours | Y | |
| | I Street 27.0 and/or Verona 37.0 | 3 hours | Y | |
| | I Street 29.0 and/or Verona 40.0 | 2 hours | Y | |
| | I Street 31.0 and/or Verona 41.0 | 1 hour | Y | |
| | I Street 32.0 and/or Verona 42.0 | 30 minutes | Y | |
| | | | | |
| Natomas Cross Canal/PGCC | Verona 32.0 | 6 hours | Y | |
| | Verona 37.0 | 3 hours | Y | |
| | Verona 40.0 | 2 hours | Y | |
| | Verona 41.0 | 1 hour | Y | |
| | Verona 42.0 | 30 minutes | Y | |