

Flood Preparedness Week



Inspections and Repairs

South San Ramon
Creek behind
Dublin High School
along Iron Horse
Trail

Before: Soil (and
turf) slide,
partially blocking
channel and
reducing flow
capacity

After: Slide has
been repaired and
grasses have re-
established

Bank Slide Repair: Before and After



Bank slides occur
in channels after
the high flows
recede. Soil is
saturated and the
water pulls at
unstable slopes,
causing soil
movement and
slippage.

Why Plastic Sheeting?

- When you see plastic along the creek or arroyo, it's to cover damages from flooding.
- Plastic is used to minimize rain contact with site to reduce further damage.
- Damaged sites are prioritized and repaired after the rainy season.



This site required additional intermediate repairs to prevent further water damage. A temporary drainage pipe was installed until permanent repairs could be constructed.



We All Need to Prepare for Rain

Zone 7's 2015 Extra Flood Preparedness Projects

- Ramp repair Hopyard Road to Arroyo Mocho Trail
- Outfall repair along Chabot Canal
- Slide repair on Pleasanton Canal in Pleasanton
- Slide repair on South San Ramon Creek in Dublin near Dublin High School
- Slide repair on Arroyo de la Laguna in Pleasanton, just downstream of the confluence with Arroyo del Valle
- Road and ditch repair at Alamo Canal near the 580/680 interchange
- Installation of willow staking at eroded toe-of-bank areas
- Road repair on Arroyo las Positas near El Charro Rd
- Installation of new stream and rain gages

YOU

- Remove debris from roof gutters, down spouts, driveway culverts, and drainage ditches
- Ensure drainage is directed towards street storm drain systems
- If gutters are filling - use a rake, broom, or shovel to remove debris, leaving grate in place
- Landscape protection - cover bare soils with straw or burlap and direct runoff toward drainage system
- Keep car fueled and disaster supplies handy



ZONE7

- Remove debris from drainage inlets, v-ditches, and trash screens/racks
- Ensure facilities have proper drainage and clear flow paths
- If maintenance road v-ditches are filling - use a rake, broom, or shovel to remove debris, leaving grate in place
- Landscape protection - cover bare areas by hydro-seeding; during storm events, cover with plastic to reduce soil loss
- Keep cars and trucks fueled and disaster supplies handy



Zone 7's Routine Maintenance

- District-wide re-compacting of cracks on gravel channel maintenance roads
- Repairing cracks in asphalt maintenance roads in Pleasanton
- Repairing damaged and aging fences
- Sealing cracks in concrete-lined channel in Dublin along Big Canyon Creek.
- District-wide vegetation management, trimming trees and mowing grasses in multiple channels to maintain channel capacities
- Monitoring weather forecasts and actual gage data during storm events
- Regularly inspect facilities before, during, and after storm events.



Homeless Encampments

Zone 7 coordinates with local law enforcement to remove homeless from the waterways to protect them from potential flooding. Materials and debris need to be removed after they are relocated to prevent channel blockages.



Homeless encampment inside storm drain culvert



Encampment debris





Vegetation Management



Conservation Corps crews work to remove invasive species of plants in the channels to restore stream flow capacity.



Fence lines are cleared of vegetation to allow maintenance access for inspection and repairs.

Re-vegetation & Willow Staking to Repair Lower Bank Erosion



Zone 7 uses willow stakes to restore channel bank “toes” and protect against erosion.

This is a more environmentally friendly approach that is less invasive to riparian habitat.



Before 4/2013



After 4/2015

Historic Flooding 1955



Flooding near Hopyard Road
in Pleasanton



Flooding near Hopyard Road



Pleasanton and Dublin looking West



Pleasanton flooding



Alameda Creek looking SE
(Courtesy of
AlamedaCreek.org)



Flooding near Mohr
Avenue, Pleasanton

Tri-Valley Flooding



Road flooding in 1935



1998 Flood Erosion at Shadow Cliffs



1995 Wente Rd at Arroyo Mocho



1995 Flooding in Dublin



Westbound I-580 closed in 1995

Flooding doesn't
just affect
homeowners



Everyone Needs to Trim Their Trees



Trees that fall in channels create obstructions that have to be removed



Down trees create problems for everyone



Trim your tree limbs before they do damage



Help us keep our channels clean

Storm Central

Real-Time Stream Gaging Network



Site Access

To access Storm Central, go to:

www.zone7water.com

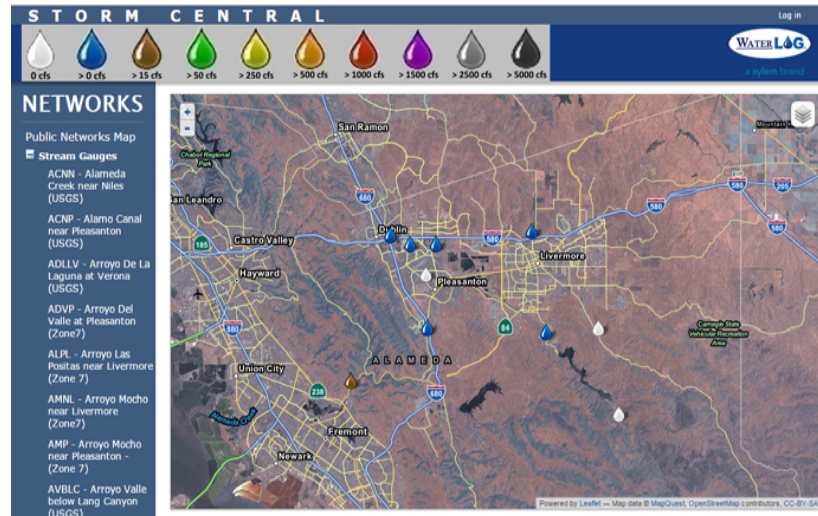
and click on “Flood & stream management” at the top center of the page.



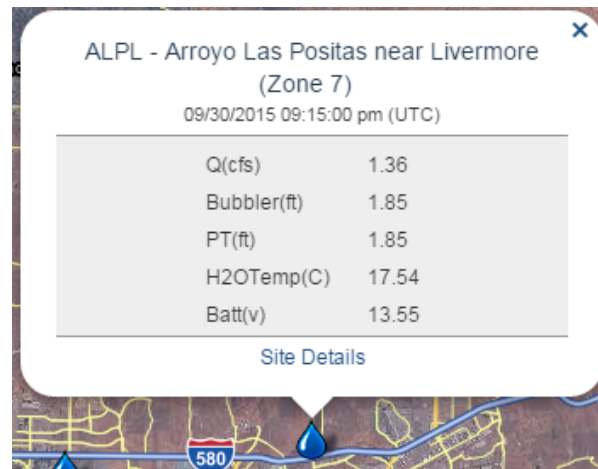
Next, click on the link to the Storm Central website to view real-time information of stream gages information.

Flood Protection & Stream Management

- To view Zone 7's Flood Control Program Annual Report, [click here](#).
- In 2014, the addition of new stream gauges to Zone 7's stream gauging network also facilitated real-time flow reporting for the public via the Storm Central website: (<https://stormcentral.waterlog.com/public/Zone7/>)
- To view the state's flood preparedness website, [click here](#).
- For report planning documents, [click here](#).



The map that appears is the Storm Central site for Zone 7. Stream gage sites are represented as colored water drops, with each color representing the flow rate at each site. Clicking on a gage site will give more information about the current conditions at that location.



Some gages measure more data than others, but in general each gage has:

- Flow Rate in cubic feet per second (cfs)
- Water Height in feet (ft)
- Water temperature in Celsius (C)

Clicking on the “Site Details” below the table, or clicking on the gage name on the left side of the page, will give further information about the site, including an image of the site and historical data.

