

# Wet Weather Operation Strategy

Assume Wet Weather Flows to DSRSD & Livermore are up to 35.0 mgd and 14.0 mgd at DSRSD and Livermore respectively	
<b>Assumptions:</b>	LAVWMA Storage Capacity: 18.0 MG
DSRSD Treatment Capacity: 35.0 mgd	DSRSD Storage Capacity: 20.7 MG
Livermore Treatment Capacity: 14.0 mgd	Livermore Storage: 16.0 MG (FYI No Standby Power)

LAVWMA 1st Contact	Duty Operator	925-570-7247 (cell)
LAVWMA 2nd Contact	Chuck Weir	510-410-5923 (cell) weir@lavwma.com
DSRSD 1st Contact	Duty Operator	925-519-0557 (cell)
DSRSD 2nd Contact	Virgil Sevilla	925-967-8602 (cell) sevillav@dsrsd.com
DSRSD 3rd Contact	Jeff Carson	925-719-2997 (cell) carson@dsrsd.com
Livermore 1st Contact	Duty Operator	925-525-1807 (cell)
Livermore 2nd Contact	Jimmie Truesdale	925-525-2016 209-914-9426 (cell)
EBDA	Auth. Office	510-276-5910
EBDA*	Howard Qin	510-362-2501 (cell) hqn@ebda.org
Zone 7	Del Valle WTP	925-447-4701 x1
Zone 7	Peterson Pass WTP	925-447-4703 x1
Zone 7 Flood Ctrl Dist	Alamo Canal Discharge	925-447-4704 x1
ACWD	Leonard Ash	510-668-4539 510-602-8691 (cell)
Alameda Co Flood Ctrl	Robin Saleh	510-670-5487 robin@acfw.com
Alameda Co Flood Ctrl**	San Lorenzo Creek	510-670-3500
RWQCB	James Parrish	510-622-2581 james.parrish@waterboards.ca.gov
Pleasanton Daytime	7 am to 3 pm	925-931-5100
Pleasanton Evening	Pleasanton PD	925-931-5100
Pleasanton Alt. Contact	Danny Ward	925-931-3526 925-519-9990 (cell)

Normal conditions monitor weather forecasts for Wet Weather Events – Maintain minimum storage levels at all facilities **Box 1**

DSRSD and Livermore area receives at least 1/2 inch of rain in past 24 hours and combined flows exceed normal (>10 mgd, midnight to 8 am; >20 mgd, 8 am to midnight)  
**WET WEATHER EVENT BEGINS** **Box 2**

Wet Weather Event Begins LAVWMA Flow > Normal

NO YES

- Storm Mode – Set Export pumps to draw storage to less than 1 foot & match incoming flow
  - Storage less than 1 foot LAVWMA pumps, adjust set point to match incoming flow up to 41.2 mgd
  - Notify EBDA---LAVWMA in Storm Mode (Contact\*)
  - Notify Zone 7---Possibly request for shutdown of brine discharge within 24 hours.
  - If EBDA calls and their export capacity is limited
- Box 3**

See Attachment A for protocols for discharges to San Lorenzo Creek

- OPTION 1**
- Reduce Export Pumping under the following guidelines:
    - Wet weather storage shall not exceed 40% of LAVWMA's total storage capacity, and;
    - The EBDA flow reduction request does not last for more than 12 hours, and;
    - EBDA agrees they can accept higher than normal flows after the reduction period is over so LAVWMA storage volume can be reduced to <20% within 24 hours, and;
    - The weather forecast projects a short term (< 24 hour) wet weather event.
- Box 4**

- OPTION 2**
- EBDA Notify LAVWMA 2 hrs. prior to flow reduction
  - Turn on SLSS de-chlorination facilities. Throttle valve in San Leandro to reduce flow to EBDA and begin diversion to San Lorenzo Creek (up to 21.5 mgd, while maintaining at least 19.7 mgd to EBDA), sample LAVWMA flow to San Lorenzo creek. Commence flow monitoring & reporting requirements. Flush sample line and tubing 1 hour minimum. Collect samples; deliver to lab for analysis. Contact Alameda County Flood Control \*\*
  - Notify EBDA when WW event ends
- Box 5**

San Lorenzo Creek (boxes 1-5)

Alamo Canal (boxes 6-9)

- DSRSD sends up to 35.0 mgd to LAVWMA
  - Livermore sends up to 14.0 mgd to LAVWMA
  - Contact Zone 7 – Shutdown brine discharge immediately
  - LAVWMA begins filling storage (Flow into LAVWMA is up to 49.0 mgd, Flow out of LAVWMA is up to 41.2 mgd)
  - Note: % of LAVWMA Export flow EBDA/San Lorenzo Creek dependent upon EBDA system conditions.
- Box 6**

LAVWMA notifies ACWD 24 hours prior to potential overflow

- LAVWMA storage reaches 67% of capacity or more
  - DSRSD to reduce flow to LAVWMA to 32.0 mgd until DSRSD storage is completely filled.
  - Livermore to reduce flow to 9.0 mgd until Livermore storage is completely filled.
  - DSRSD and Livermore flow back to 14 & 35 MGD.
  - Commence intermittent updates of LAVWMA, DSRSD, and Livermore storage capacity.
- Box 7**

Samsara provides LAVWMA update to ACWD

- Remaining LAVWMA storage begins to fill up (18.0 MG total capacity at 100%)
  - LAVWMA consults w/ ACWD & Zone 7 to initiate controlled discharge as appropriate (dilution optimization)
  - Monitor Alamo Creek Canal flow – NOTE: DISCHARGES TO ALAMO CANAL SHALL NOT EXCEED 55 MGD
- Box 8**

Samsara provides LAVWMA update to ACWD when storage is at 90% capacity

- LAVWMA storage completely full, begin discharge to Alamo Canal (NOT TO EXCEED 55 MGD), dechlorination system must be on, sample LAVWMA flow to Alamo Canal. Commence flow monitoring & reporting requirements.
  - Livermore and DSRSD continue discharge to LAVWMA at 14.0 and 35.0 mgd respectively
  - LAVWMA export flow remains at 41.2 MGD (Combined to SLSS & EBDA)
  - Notify the RWQCB and City of Pleasanton
- Box 9**

Sampling required (See Attachment D – Monitoring & Reporting Requirements)

Combined Flow into Treatment Plants is < 41.2 mgd

- Overflow to Alamo Canal is stopped
  - DSRSD and Livermore reduce flows to LAVWMA to match their influent flows so LAVWMA can free up 33% of its storage
- Box 10**

LAVWMA notifies ACWD

- When LAVWMA storage is reduced to 67%, DSRSD and Livermore increase combined discharges to LAVWMA to 41.2 mgd until both WWTP's draw down their storage to minimal levels.
- Box 11**

- When DSRSD and Livermore combined flow drop below 41.2 mgd, LAVWMA continues draining storage until LAVWMA, DSRSD, and Livermore storage is normal (< 25% capacity).
  - Wet Weather Event Ends
  - Notify Zone 7 they may resume discharging brine if needed
- Box 12**

Within 3 business days notify the RWQCB of any use or test of the SLSS flapper gate when there is a discharge of LAVWMA effluent to San Lorenzo Creek. A full report of such events should be included in the LAVWMA Annual Self-Monitoring Report. Any violation of discharge prohibitions or effluent limitations should be reported within 24 hours along with any necessary follow up.