

The attached document was submitted to the
Washoe County Board of Commissioners during
the meeting held on December 12, 2017.
by Community Services
for Agenda Item No. 9
and included here pursuant to NRS 241.020(8).



2017 North Valleys Flood Update

- **SUMMARY OF 2017 FLOOD EVENTS**
- **2017 FLOOD RESPONSE - PUBLIC SAFETY MISSION**
- **FEMA ACQUISITION AND STRUCTURE
DEMOLITION GRANT**
- **2017/18 PREPERATION AND CURRENT ACTIVITIES**
- **2017 FLOOD CLARIFICATION AND FACTS**
- **OUTLOOK/NEXT STEPS**



BCC 12-12-17 #9
Community Services



SUMMARY OF 2017 FLOOD EVENT

- **20+ Atmospheric River Events (2016\17 water year*)**
 - Saturated Ground = Runoff
 - Over 16.82 inches total precipitation (rain and snow) *Desert Springs Gauge
 - Precipitation and runoff records

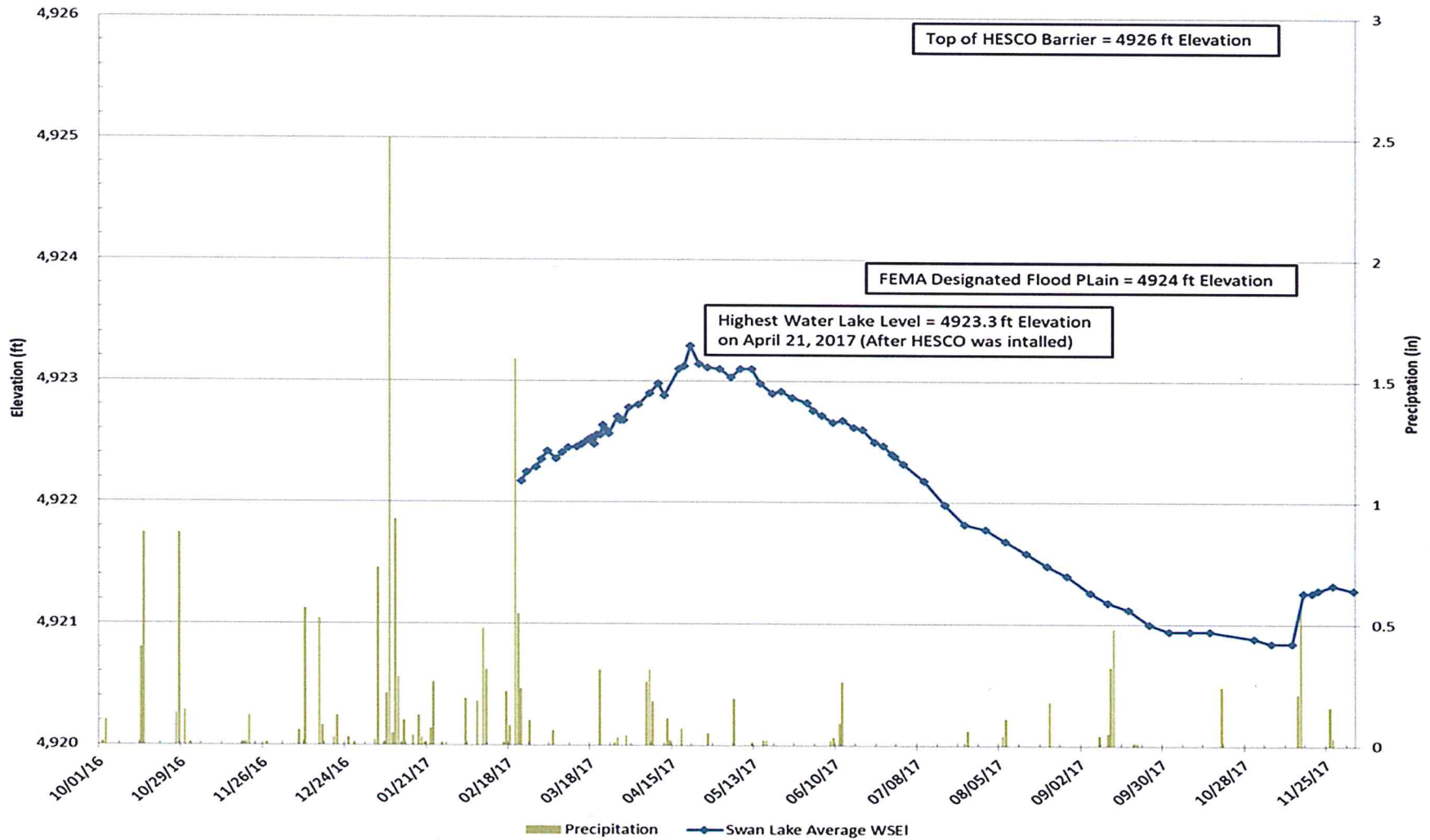
RESULT – Severe Flooding in Northern Nevada Counties - Presidentially Declared Flood Disasters – January (4303) and February (4307)

- **Impacts**
 - Residential Impacts
 - Public Infrastructure
 - FEMA Claims For Northern Nevada – Approaching \$30 million
 - WC Has Submitted Over \$6 Million in Claims For Entire County
 - Over \$3 Million For Swan and Silver Lake Areas



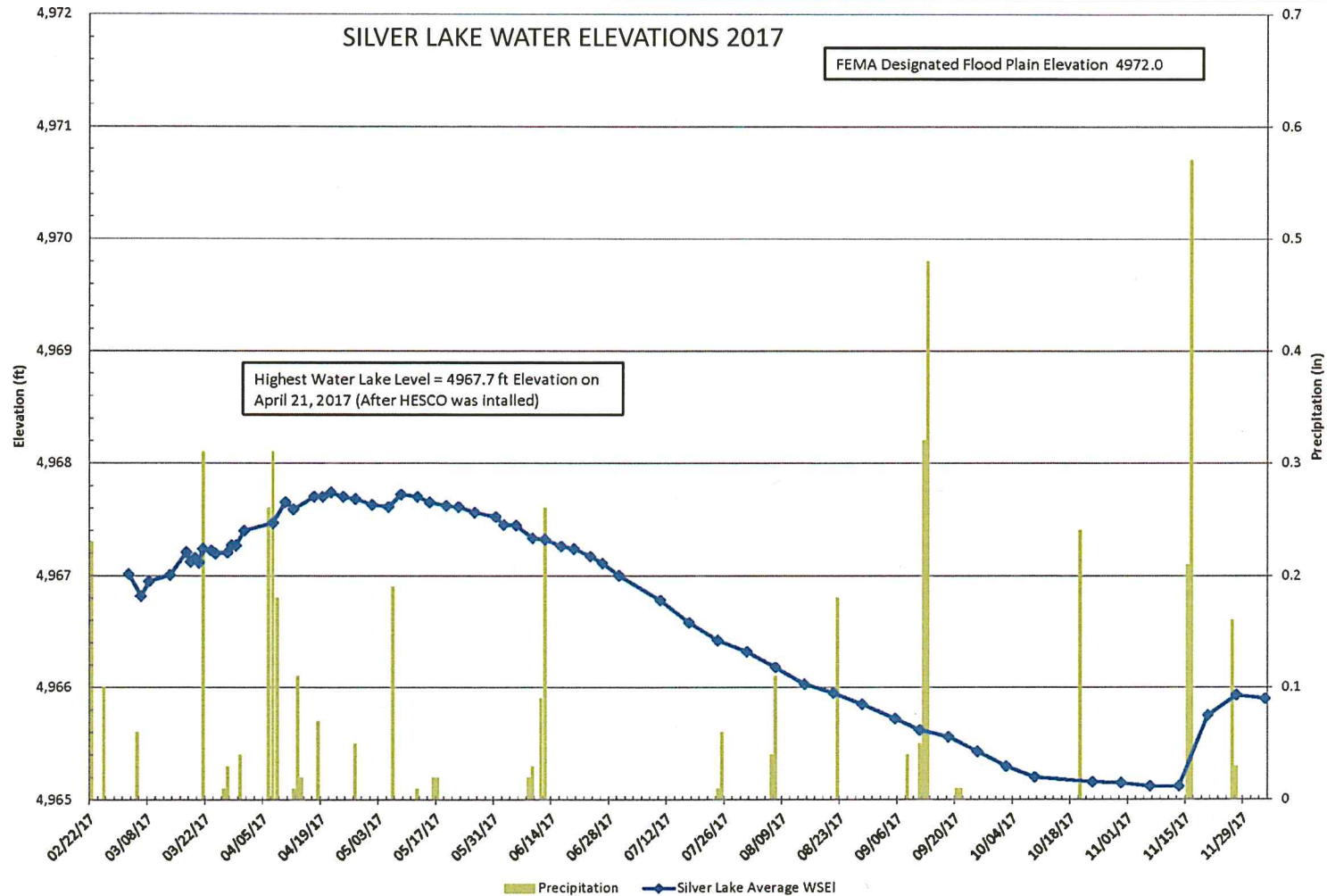
SUMMARY OF 2017 FLOOD EVENT

Swan Lake Water Elevations 2017





SUMMARY OF 2017 FLOOD EVENT





FLOOD RESPONSE – PUBLIC SAFETY MISSION

- Notifications/Site Visits – Beginning in December 2016
- Sand and Bags Were Staged
- Sandbagged Many Homes/Church - NDF
- Activated EOC January 2017
- Local Jurisdictions/USACE/State of Nevada/FEMA/Task Force 1
- HESCO Temporary Flood Barriers – March 14th
 - Flooding Was Contained Beginning March 14th, Water Removed From Behind Barriers by March 23rd
 - Storm Water Pumps, Diver, Maintaining Protection Areas
- Social Services
 - Housing Assistance For WC Residents
 - Command Post
 - Portable Showers/Porta-Potty
 - Gift Cards/Fund Raiser/Water/Food



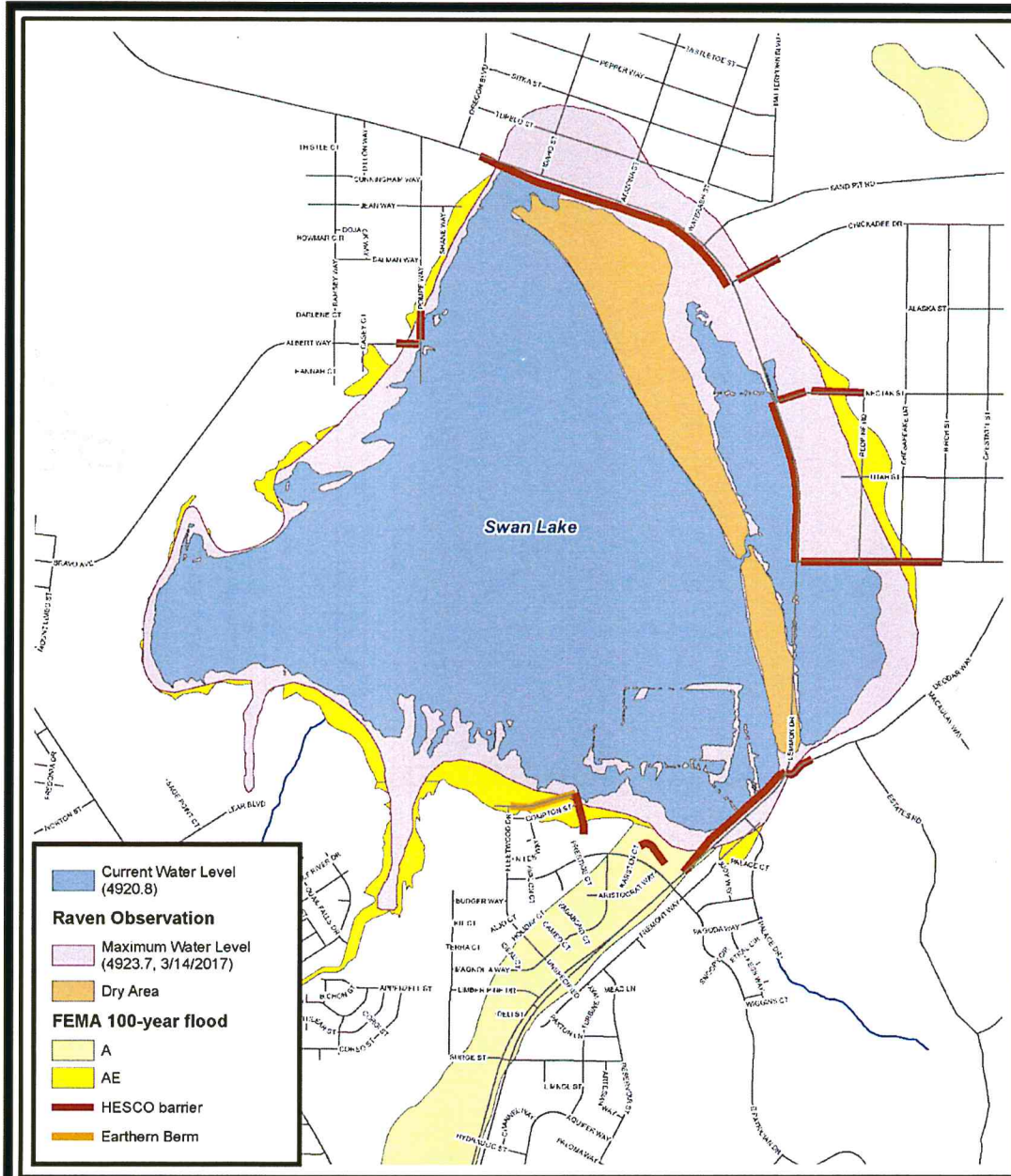
FLOOD RESPONSE – PUBLIC SAFETY MISSION

- **Waste Water Treatment Facilities – Lemmon Valley and Stead**
 - **Protection of LV Waste Water Reclamation Facility – Raise Berms**
 - **Temporary Additional Disinfection Installed**
 - **Sealing Manholes**
 - **NDEP Recognizes Proactive Work, Satisfied With Response**
 - **Alternative Pumping Plan For Lemmon Valley to Stead**
- **Washoe County and City of Reno Roadways**
 - **Cleaning/Clearing Ditches and Culverts**
 - **Closed Lemmon Drive – March 14th With HESCO Construction**
 - **Aug 4th – Were able to open Waterash St. To the South**
 - **Posted 25 mph**
 - **Prepared to reinstall HESCO When Required**
 - **Deodar Road Used As Alternative Route**



FLOOD RESPONSE – PUBLIC SAFETY MISSION

- **Washoe County Health Department**
 - Mosquito abatement – Additional \$800k Approved
 - Swan Lake Water Quality Tests– Meets/Exceeds Recreational Water Quality Standards
 - Free Domestic Well Water Quality Testing
- **Multiple Public Meetings**



**Swan Lake
Water Level
10/23/2017**



**REGIONAL
EMERGENCY
MANAGEMENT**

Date: 10/26/2017
Time: 9:38:46 AM

SWAN LAKE COUNTY, ILLINOIS
Waukegan County Emergency Management



FEMA – HMGP Acquisition and Demolition

Purpose: To Eliminate Reoccurring Mitigation Costs

- FEMA Covers 75% of Costs, Washoe County Covers 25%
- Staff Requested Consideration for up to \$500k Funding From WC
- Board Directed Staff to Return With List of Possible LV Participants
- Criteria
 - Documented Water in Living Space
 - Inhabitable Due to Septic System or Well Impacts
 - Inaccessible for Sustained Period of Time
- Initial 10 properties Identified
- 9 Property Owners - Written Notification of Interest
 - New Life Assembly of God Church Declined

If Directed to Submit Applications;

- Conduct Appraisals
- Submit Applications by February 2018 (anticipated earlier)
- WC Property Used for 25% Requirement – Sell LV Property



2017/18 CURRENT ACTIVITIES AND PREPERATION

- Continue Maintenance of Existing HESCO Temporary Flood Barriers
- Additional Barriers - Request Authorization for up to \$300K for Additional Berm and HESCO Barrier on Pompe Way.
 - Requires 260' Long Earth Berm (WC Construction)
 - Approximately 1,300 lf of HESCO (double stack)
 - Additional Storm Water Pumps Required
- Continue Response to Storm Water Impacts
- Continue Additional Sewer Treatment Plant Operations
- Continue Working with Emergency Providers, State of Nevada, FEMA
- Continue Communication with Residents

Requirement: Maintain Existing Flood Protection Levels and Provide Status Updates to Residents and Washoe County Board



CLARIFICATION AND FACTS

- **Red and Yellow Tagged Homes**
 - **Initially 26 Homes Were Tagged**
 - **Criteria Used - Washoe County Building Code**
 - **Currently 11 Homes Tagged**
 - **Letters Identifying Outstanding Issues Provided**
- **Residents in Long Term Housing**
 - **Initially Short Term Hotel Stay - Conversion to Long Term Housing for 14 Families**
 - **Currently 6 Families in Housing – Expect 4 By January**
 - **Housing Assistance Was Due to Expire July 2017 - WC Requested and Received 2 Extensions From The State (NDH)**
 - **Residents Were Noticed That Per NDH, Beginning Jan 1, 2018 They Will Need To Pay A Portion of Housing Costs.**



CLARIFICATION AND FACTS

- **Status/Durability of HESCO Barriers**
- **Location of HESCO Barriers Along Existing Roadways**
- **Waste Water Treatment Plant Flows Into Swan Lake**
 - **Are Within Discharge Limits For Quality and Quantity**
- **New Development**
- **Drilling 2 Test Holes By City of Reno**
- **Pumping Silver Lake to Swan Lake**
- **Power Poles for Storm Water Pumps**
- **Questions Regarding Home Elevation**



OUTLOOK/NEXT STEPS

- **Closed Basin Flood Response Plan**
- **Closed Basin Flood Mitigation Plan**
- **Review/Update Development Code**
- **FEMA Reimbursement**
- **Public Outreach/Planning**