

**City of Carson City  
Agenda Report**

**Date Submitted:** September 18, 2014

**Agenda Date Requested:** October 2, 2014  
**Time Requested:** 25 Minutes

**To:** Mayor and Supervisors

**From:** Public Works Department

**Subject Title:** 2014 Storm / Flood Events Presentation

**Staff Summary:** A presentation and discussion only regarding the July 20<sup>th</sup> and August 11<sup>th</sup> storm events and the flooding that occurred, with an overview of cleanup efforts and future mitigation plans. (Darren Schulz)

**Type of Action Requested:** (check one)

Resolution                       Ordinance  
 Formal Action/Motion       Other (Information only)

**Does This Action Require A Business Impact Statement:**  Yes     No

**Recommended Board Action:** Presentation and discussion only

**Explanation for Recommended Board Action:** N/A

**Applicable Statute, Code, Policy, Rule or Regulation:** N/A

**Fiscal Impact:** N/A

**Explanation of Impact:** N/A

**Funding Source:** N/A

**Alternatives:** N/A

**Supporting Material:** Presentation Slides

**Prepared By:** Darren Schulz, PE - Public Works Director

**Reviewed By:**

*Robert Stiller*  
(Public Works Director)

Date: 9/23/14

*Maurice Atkins DCM*  
(City Manager)

Date: 9/23/14

*Randy Allen*  
(District Attorney)

Date: 9/23/14

*Julie Schultz*  
(Finance Director)

Date: 9/23/14

**Board Action Taken:**

Motion: \_\_\_\_\_

1: \_\_\_\_\_ Aye/Nay

2: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
(Vote Recorded By)

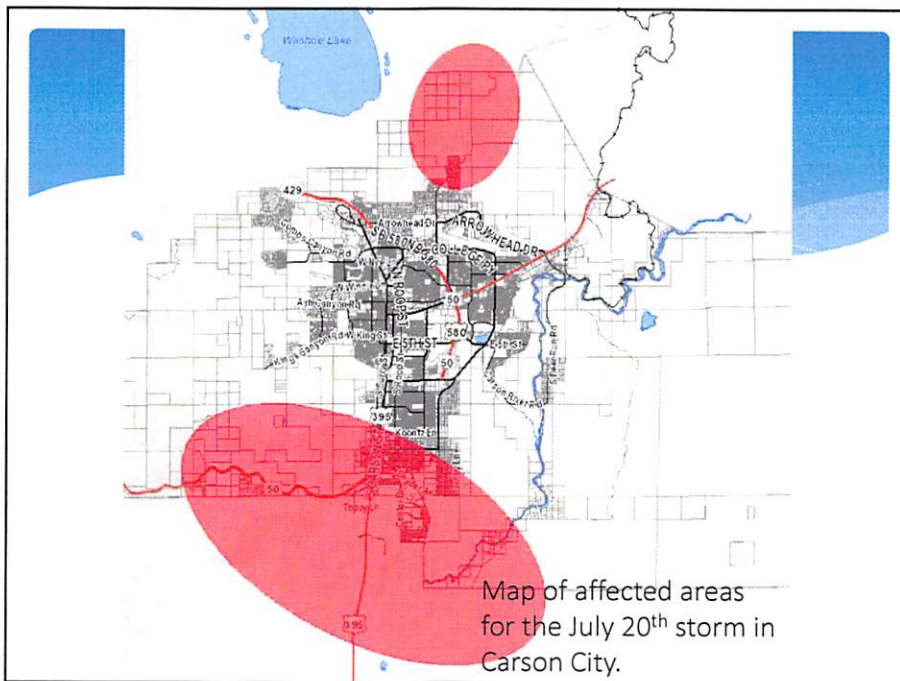
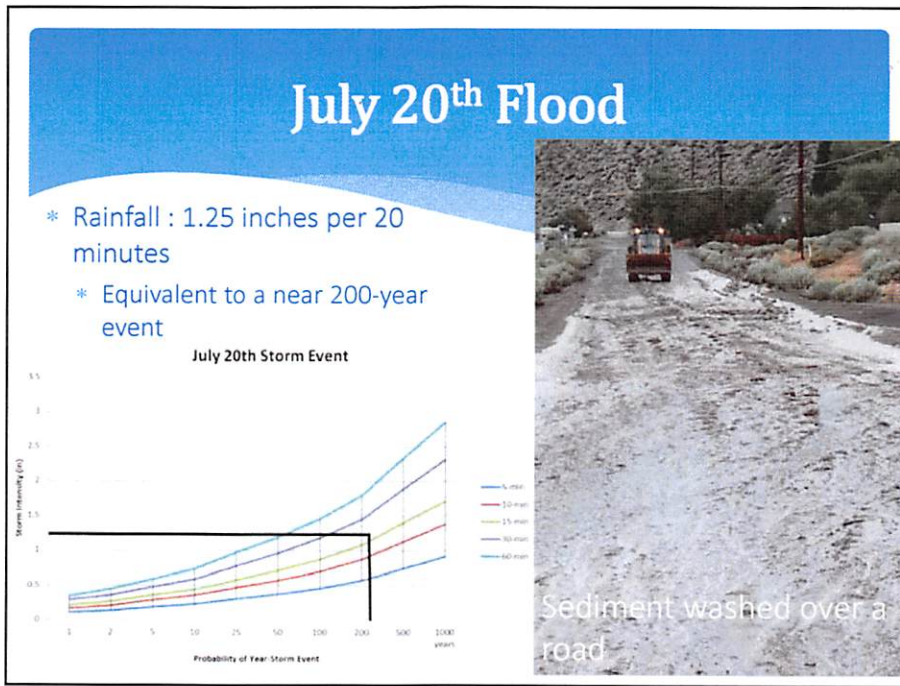
# Board of Supervisors Meeting

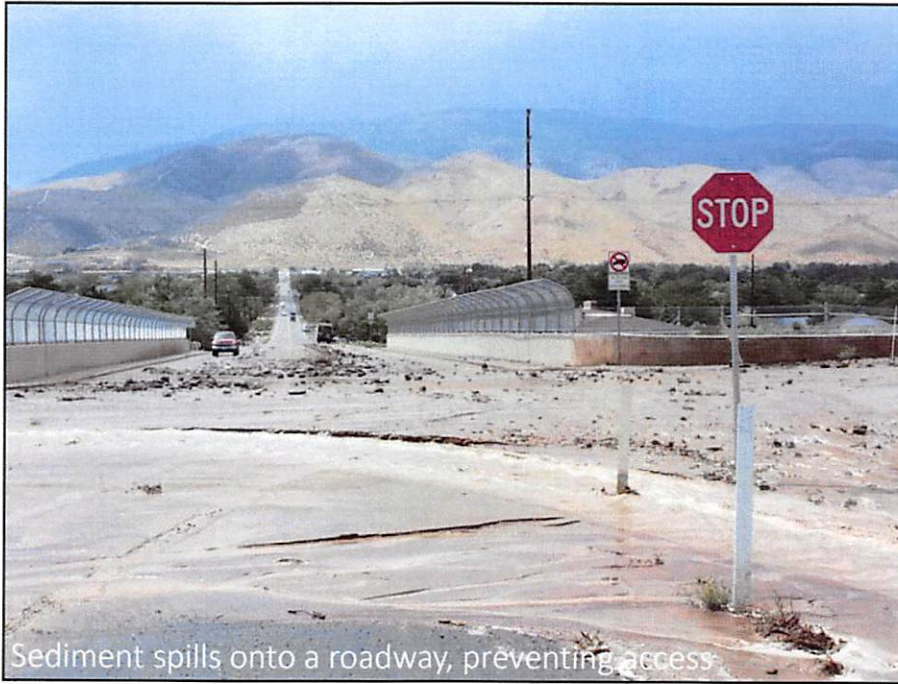
October 2nd, 2014

The July 20<sup>th</sup> and August 11<sup>th</sup> storm events, its remediation,  
and future prevention plans

## Summary

- \* Information from the July 20<sup>th</sup> and Aug. 11<sup>th</sup> storms
  - \* What Happened
  - \* Reaction Efforts
  - \* Clean-Up
- \* Federal Assistance Program
- \* Possible Future Storm Trends
- \* Overview of Stormwater Funding
- \* Prevention Measurements

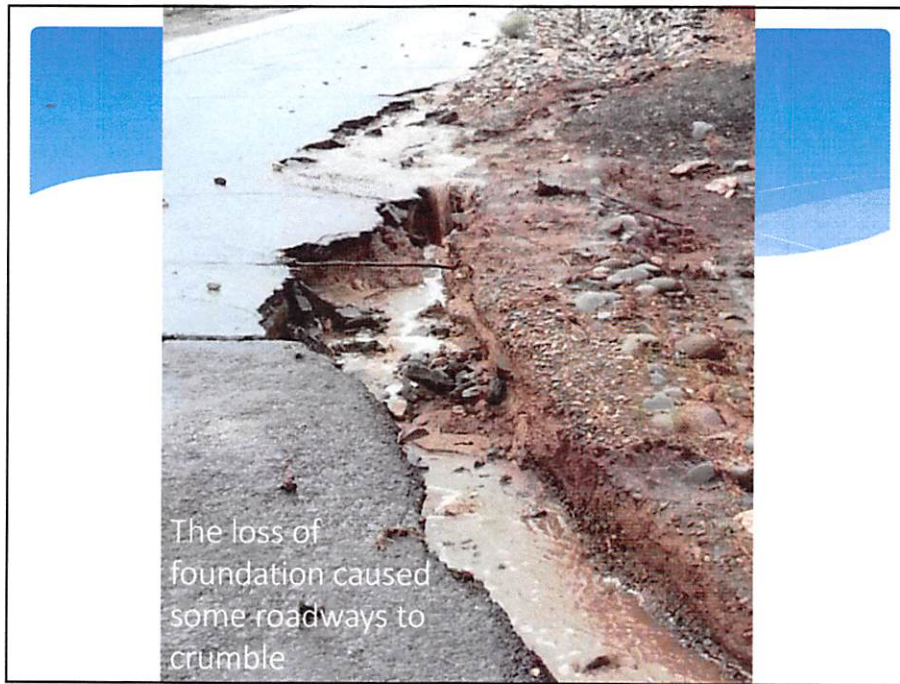


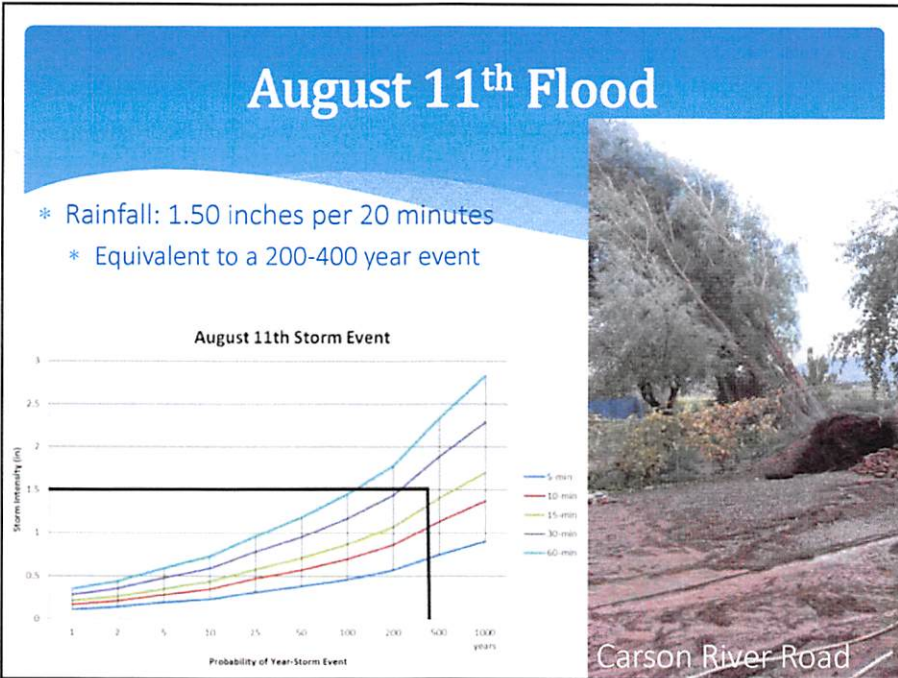
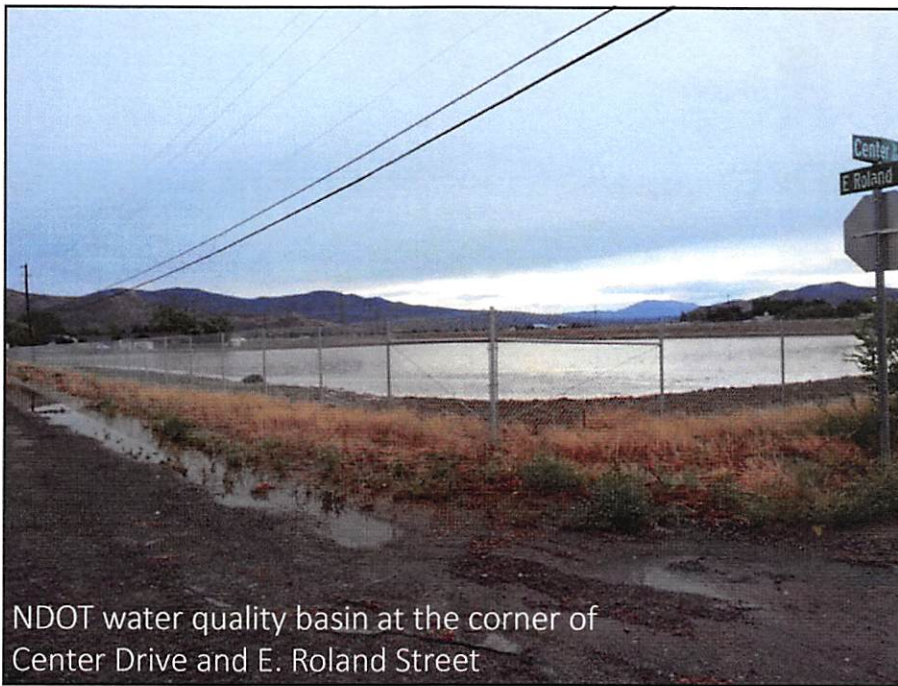


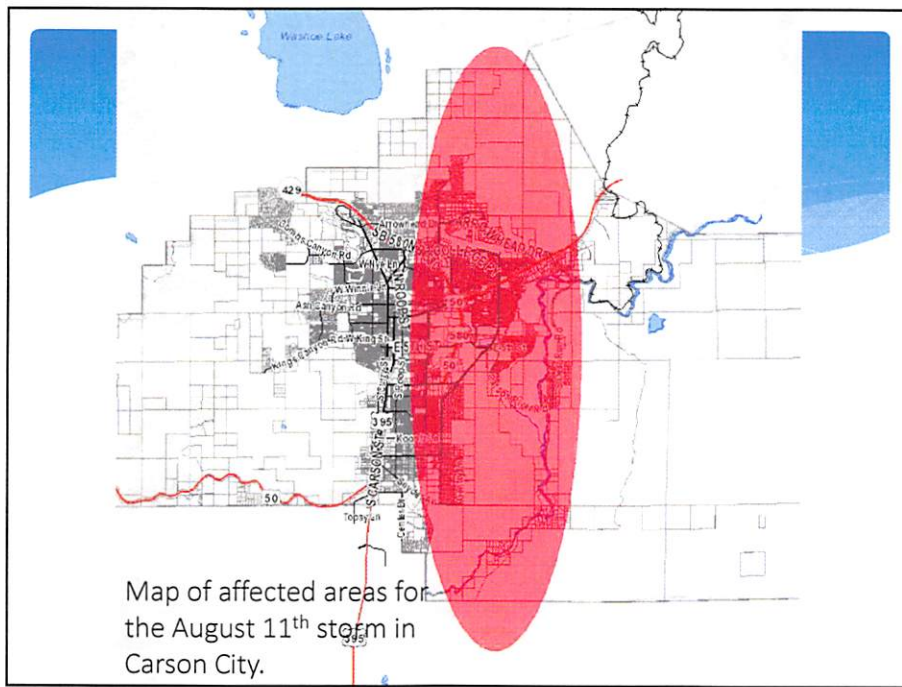
Sediment spills onto a roadway, preventing access



Clearview Drive at Cochise Street,  
looking East



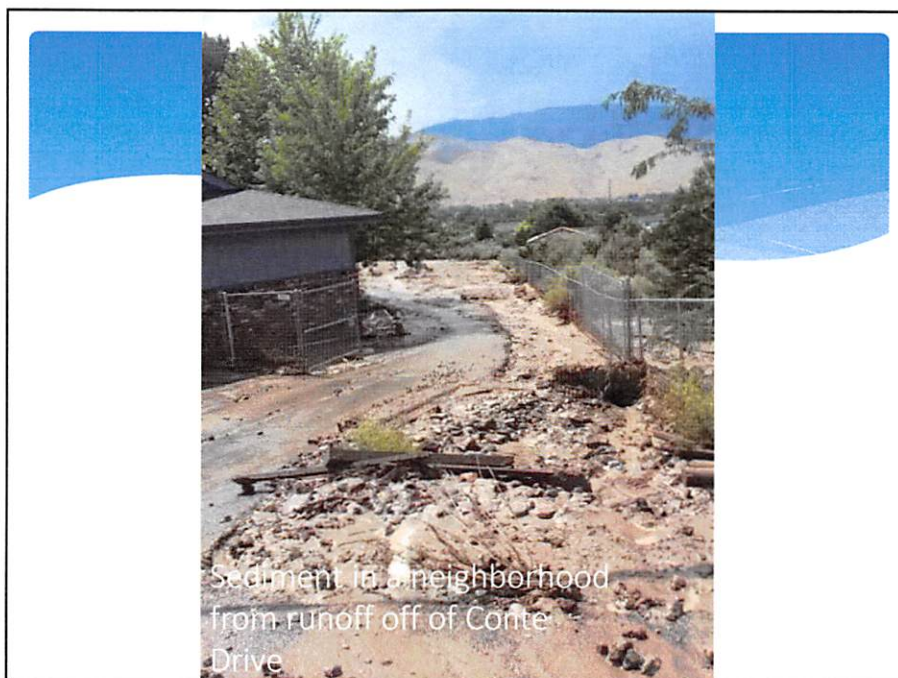




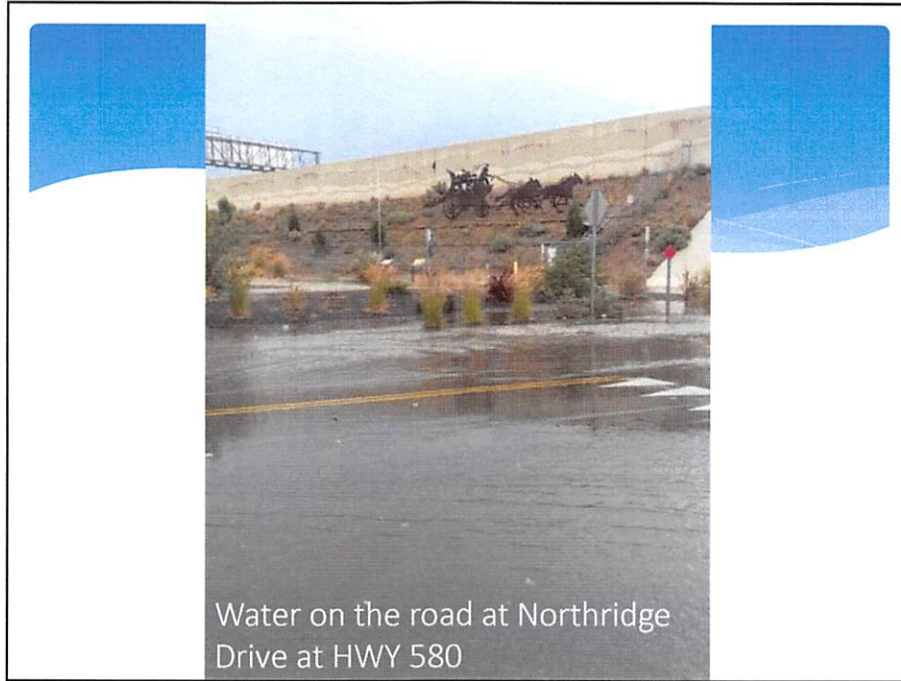




Rocks and sediment spilled onto road from the runoff



Sediment in a neighborhood from runoff off of Conte Drive



## Storm Reaction Efforts

- \* Emergency Response Team:
  - \* Consisted of over 26 PW employees
    - \* 4 Command staff with 22 crewmen from Streets, Water, Sewer and Landfill divisions
  - \* All of PW's equipment was used for recovery
    - \* Landfill was temporarily closed to utilize their equipment

## Storm Clean-up

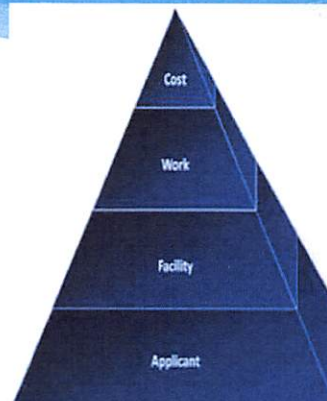
- \* Cost
  - \* July 20th Storm – estimated \$125,000
  - \* August 11<sup>th</sup> Storm – estimated \$350,000
- \* Operations Staff
  - \* Most PW crew members continue to assist in recovery efforts, as well as regular duties and operations
    - \* Hired contractors to assist with recovery to get it done in a timely manner
- \* Schedule for Complete Recovery
  - \* Minimum of 2 months remaining
    - \* 70% complete— July 20<sup>th</sup> storm recovery
    - \* 50% complete— August 11<sup>th</sup> storm recovery

## Federal Assistance Program

- \* FEMA Public Assistance Program
  - \* Must meet eligibility requirements
  - \* Must have a local disaster declaration
  - \* Must have a state disaster declaration
  - \* Will pay 75% of eligible costs – remaining 25% is the responsibility of the state/local government

## Eligibility

- \* The applicant must be eligible
- \* The facility must be eligible
- \* The work must be eligible
- \* The cost must be eligible



## Financial Threshold Criteria

- \* State must meet minimum threshold of damage estimates or actual expenditures
- \* Local government must meet minimum threshold of damage estimates or actual expenditures
- \* Based upon a single event
- \* Federal Fiscal year thresholds:
  - \* State = \$3,753,710 (\$1.39 per capita)
  - \* Carson City = \$193,459 (\$3.50 per capita)

## State Assistance Program

- \* State Disaster Relief Account
  - \* Must have a local disaster declaration
  - \* Must meet financial eligibility requirements
  - \* Must be approved by State Interim Finance Committee
  - \* Will pay 50% of eligible expenses
    - \* Comes in the form of a grant or a loan, based upon local government request and need

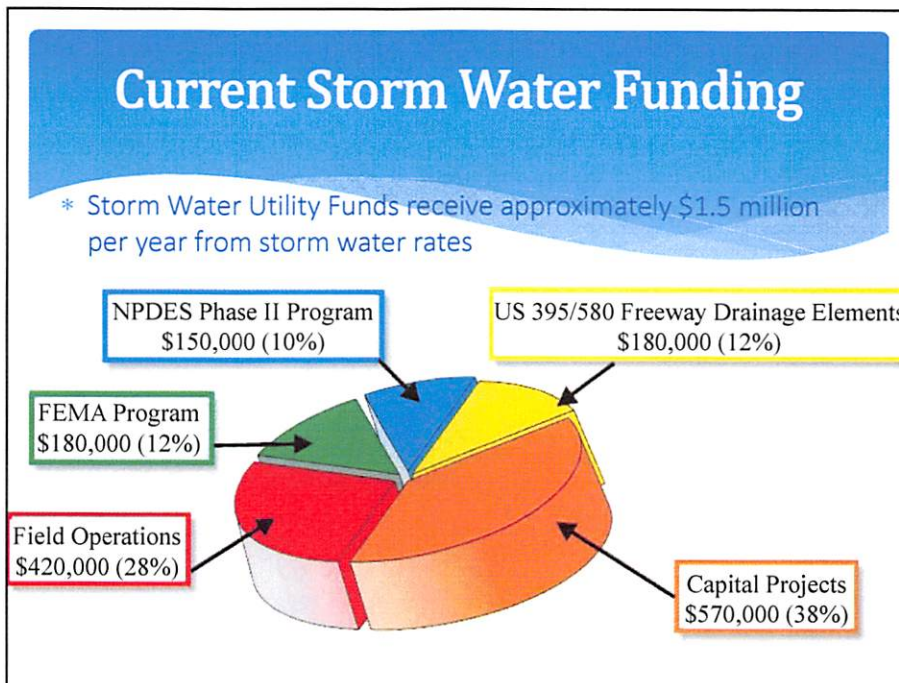
## Financial Need

- \* Difficult burden to meet the financial need
  - \* *...the Interim Finance Committee (of the State of Nevada) must make a determination that the local government is currently unable to meet its financial obligations.....when considering ending fund balance, balances in capital accounts, and general government accounts....*

## Possible Future Storm Trends<sup>1</sup>

- \* Summer storms have been guesstimated for “moderate” increase of intensity of rain, and in the number of events exceeding some threshold
  - \* “Moderate” meaning an approximate 10-20% increase
  - \* Dr. Kelly Redmond, DRI Regional Climatologist





## Capital Projects / Field Operations

\* Fiscal Year 2013-2014 Capital Projects

* Timberline Sediment Control Project	\$76,000
* WNC Storm Improvements & Vicee Basin	\$225,000
* Kings Canyon Channel Maintenance Project	\$50,000
* Lakeview Storm Drain Upgrades	\$250,000
* W. Washington Pipe Improvements	\$125,000

\* Operations / Engineering Staff

- \* 4 FTE staff under storm funding
  - \* 2 crew members – street sweeping
  - \* 2 engineering / administrative
  - \* Other division support as needed





## Questions?

### References:

1. Redmond, Dr. Kelly T; Regional Climatologist/Deputy Director, Desert Research Institute; email correspondence to Robb Fellows; dated 08/19/2014
2. National Climate Assessment (website). Retrieved from <http://nca2014.globalchange.gov/report>.