

Stormwater Update 2016

April 4, 2017



Historic Data

Average annual precipitation 2016	6.75"
Average annual precipitation - (averaged over a 30 yr period) (NOAA)	9.71"
Average annual rainfall from July – September 2016	5.31"
Cumulative annual rainfall up to December 8, 2016 (NOAA)	8.72"
Rainfall recorded August 1, 2006	2.84"
Average rainfall August 2006	6.85"

Data

20 storm events from April 2016 – November 4, 2016

Location / Date	Maximum Recorded Rainfall
Central 08/28/16	1.29"
Northeast 08/23/16	1.34"
East 09/02/16	2.10"
Westside 09/07/16	1.04"

Data

11/04/16 - Hail Storm

Pea size to Marble size hail

NOAA Recorded Rainfall @ EP International Airport
0.38 in



Other inclement weather conditions that affect the system



Hail Storm Nov. 4, 2016

Central - Porfirio Diaz

11/04/2016 05:59:11 PM

PORFIRIO DIAZ 18.8 PORFIRIO DIAZ

R-RO

Preset 1

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FY 2016-2017 Stormwater

Accomplishments



Delivering Results – Public Safety

 We have prioritized and continue to prioritize capital projects that remove flooding risks from hightraffic areas and can potentially save lives

Reduced Flooding on I-10

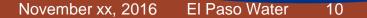
Gateway Ponds	23 Million Gallons
Magnolia	4 Million Gallons
Morenci	7 Million Gallons
Pollard	1 Million Gallons
Austin	3 Million Gallons





FY 2016-2017 Stormwater

Operations Report



Stormwater Operations

March 2016 to present

- USACE Inspections
- Clearing of Inlets
- Cleaning of Drains and Channels
- Cleaning of Ponding Areas
- Weed Control
- Erosion Control
- Service Requests
- Vactor Units
- Sandbag Distribution
- Mosquito Control

Stormwater Operations: High Productivity

	Ponds	180 acres maintained
-IEI LL	Channels & Levees	18 miles cleaned
	Drains	5 miles maintained
	Storm Drains	1.4 miles of conduits cleaned
	Inlets	425 inlets cleaned

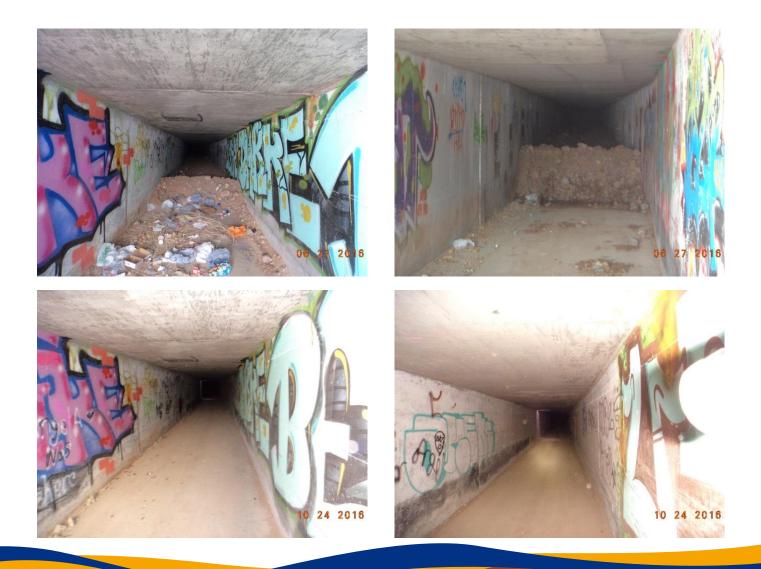


Sandbags



53,480 bags used

Storm Drains



Storm Drop Inlets





FY 2016-2017 Stormwater

Projects Completed



Magnolia Projects



July 24, 2016 9:30 PM

Gateway West Pond Expansion



Project Cost: \$9.8M

Austin Pond



Project Cost: \$2.7M

Pico Norte Pond





Project Cost: \$2.4M

November 7, 2016 El Paso Water 20

Pollard Pond Improvements



Project Cost: \$1.6M

Diana Drive Traffic Barrier



Construction Cost: \$318,000

White Spur Crossing Improvements



Project Cost: \$200,000



Stormwater

Projects Under Construction



Gateway East Pond Expansion



Construction of stormwater retention pond to capture stormwater runoff and reduce flooding on I-10

Construction Cost: \$5.7M Estimated Completion: July 2017



Fairbanks Sediment Catch Structure



Construction of concrete structure to capture sediment

Construction Cost: \$1.3M Estimated Completion: July 2017

Grand Teton Drive Ponding Area Improvements

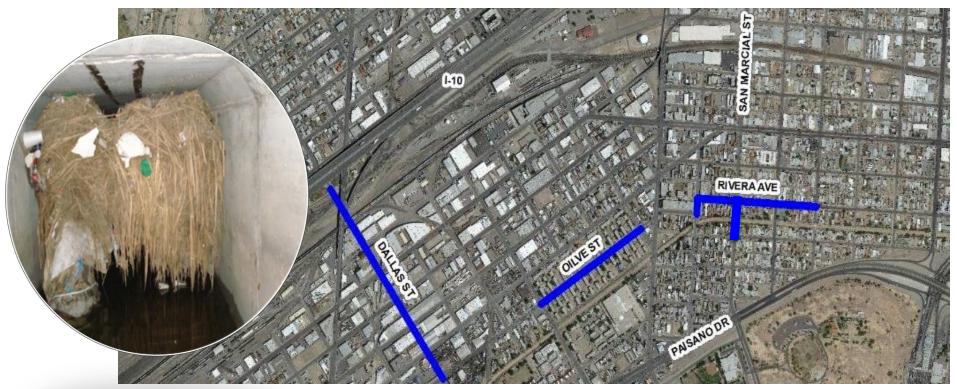


Construction of stormwater detention basin

Construction Cost: \$1.3 M Estimated Completion: September 2017



Dallas Conduit Clearing of Utilities PH II



Relocation of existing utilities within the Dallas system conduits to regain the conveyance capacity

Construction Cost: \$1.3 M Estimated Completion: July 2017

Kentucky Dam Improvements Phase I



Construction of intake structures and pond expansion

Construction Cost: \$3.8 M Estimated Completion: July 2017



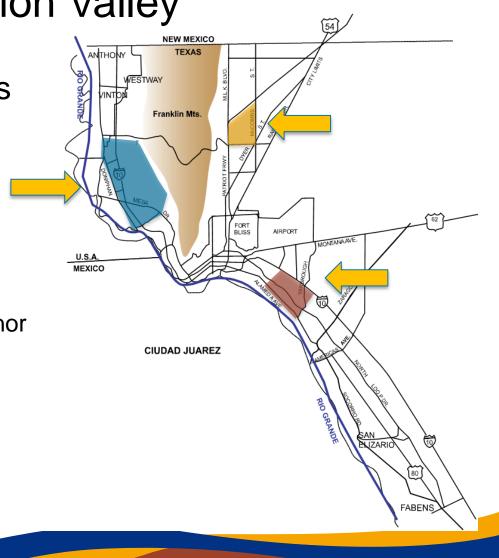
FY 2017-2018 Stormwater

Capital Budget

November 7, 2016 El Paso Water 30

Emphasis to Shift from Central to NW, NE and Mission Valley

- Work in Central continues
- Emphasis in work will shift to:
 - Northeast Fairbanks
 - Northwest Mesa Hills
 - Localized Keystone Dam
 - Mission Valley Thomas Manor



Stormwater Projects Will Ruth Pond



Will Ruth Pond

- Construction of approximately 93 MG detention pond to collect stormwater runoff from Flow Path 15 in Northeast El Paso
- Requires acquisition of 74 parcels
- Over 500 properties will be removed from the Flood Zone
- Estimated Project Cost: \$17M

Stormwater Projects Copia Pond Improvements





Stormwater Projects Mesa Hills Sediment / Detention Basin (NW18)



Stormwater Projects Bear Ridge Channel



Stormwater Projects Thomas Manor Stormwater Improvements





Open Space Acquisitions



Open Space Financial Report as of September 30, 2016

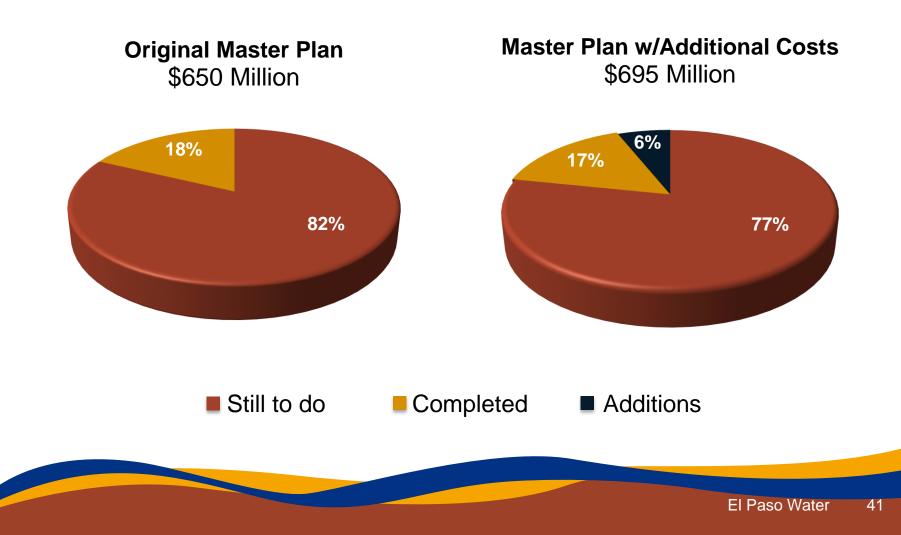
Total Open Space Expenses from Inception	\$ 9,257,830
Open Space Revenue Inception through 9/30/2016	\$14,893,053
Available Balance for Open Space Projects as of 9/30/2016	\$ 5,635,223



Pending Open Space Acquisitions

- Lower Coronado Canyon
- Hunt Arroyos
- Palisades Entrance
- Cement Lake

Good Progress on Master Plan still much more to do



Next Steps

- Reconvene and reconstitute SW Advisory Committee
 - Update master plan (SWMP is 10yrs old)
 - Decide new priorities and speed to develop projects
 - Understand budget implications

Stormwater Safety Campaign





Flash Floods Can Kill in a Flash Turn Around Don't Drown





LANZAN CAMPAÑA "DE MARCHA ATRÁS Y NO SE AHOGUE July - September

- Billboards citywide
- Radio PSA's
- Media Event resulting in coverage from all local outlets
- Social media engagement
- Stakeholder support

El Paso Water @EPWater - Jul 11 Stormwater Safety Campaign gets underway



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Continuing Stormwater Outreach



July - September



2016 Stormwater Update

Questions / Comments

