

**Flood
Stakeholder
Group**

WELCOME

August 18, 2016



Agenda

- **Welcome and Updates** (Bill Wiley)
- **2016 Monsoon Outlook** (Daniel Henz)
- **Legislative/Regulatory Update** (Kelli Sertich)
- **Right-of-Way Permitting** (Ken Proksa/Mike Jones)
- **Project Updates** (Don Rerick)
- **Round Table** (All)





WELCOME



- **Walt Kinsler**
Associate Project Mgr (*Engineering*)



- **Ben Kwong**
Inspector – Regulatory (*Engineering*)

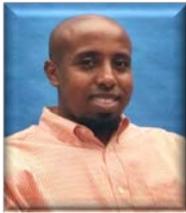


- **Elizabeth Rockwell**
Intern (*Engineering*)





WELCOME



- **Hussein Hussein**
Civil Engineer (*Engineering*)



- **Kaylee Colter**
Landscape Design Planner (*Planning, Project Mgmt.*)



- **Cassidy Welch**
Intern (*Planning, Project Mgmt.*)



WELCOME



- **Michelle Colby**

Deputy Chief Real Estate Officer *(Real Estate)*



- **Stephanie Torigian**

Administrative Assistant *(Real Estate)*



- **Steve Salazar**

Right of Way Agent *(Real Estate)*



WELCOME



- **Rich Waage**

Property Engineering Branch Mgr. *(Real Estate)*

NO IMAGE
AVAILABLE

- **Jennifer Rodriguez**

Right of Way Agent *(Real Estate)*



Farewell

- **Paula Reswig**

Accountant (*Administration*)

- **John South**

Inspector Regulatory (*Engineering*)

- **Jim Orr**

Survey Technician (*Engineering*)



Farewell

- **Connie Delpier**

Customer Service Representative *(Support Services)*

- **Kathy Pettigrew**

Right of Way Agent *(Real Estate)*



- Monsoon season is here
- Board approves **additional 2¢**
- Corp – El Rio
- August 24 & 25 – Lower Indian Bend Wash
- Cave Buttes property sale (**265 acres**)
- Welcome screen in lobby
- Rain gage on homepage
- Awards: **8** NACo and **2** IAPP
- Reorganization



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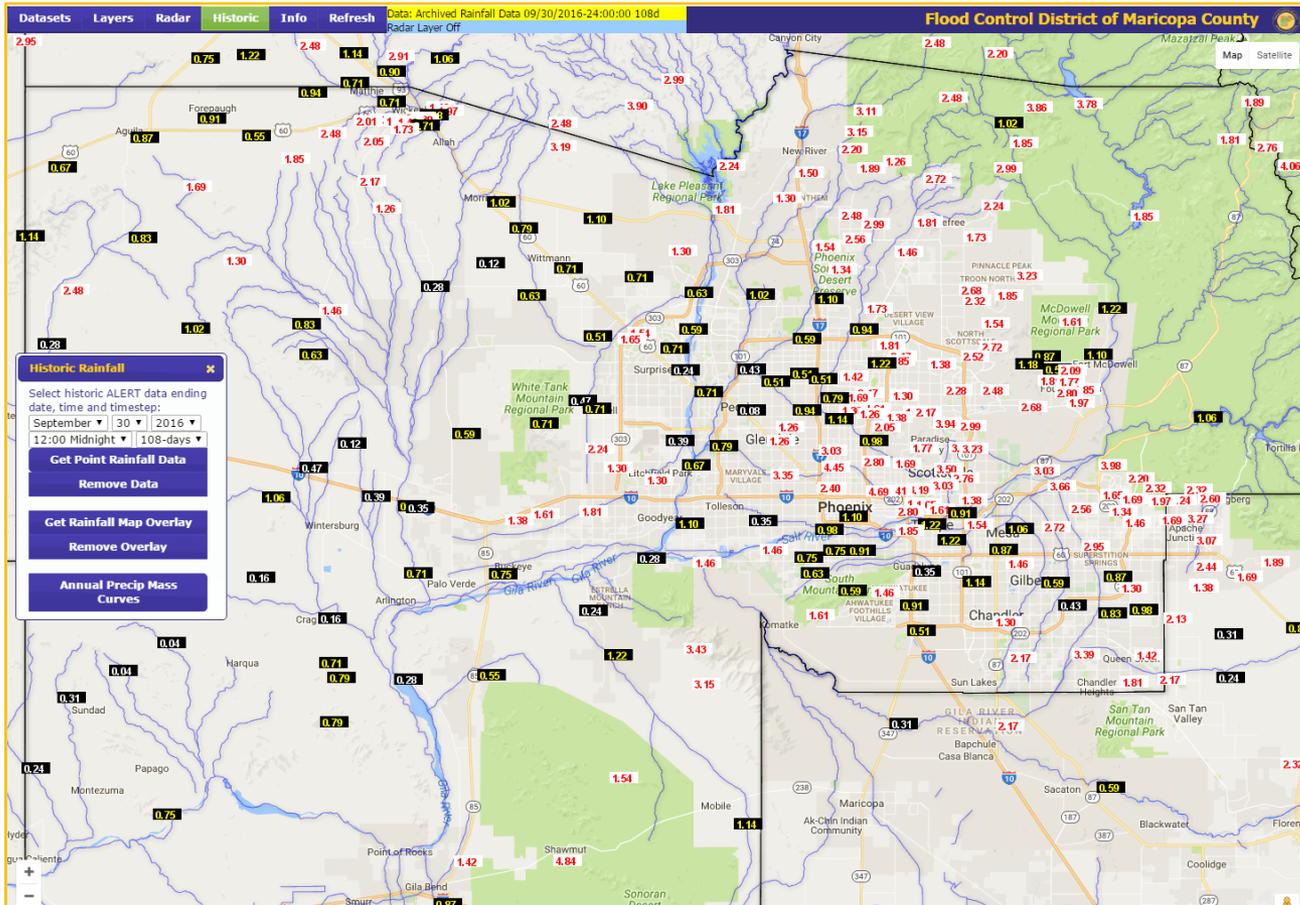
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Lynn Thomas

Flood Control District of Maricopa County
Management Organizational Chart



2016 Monsoon Update

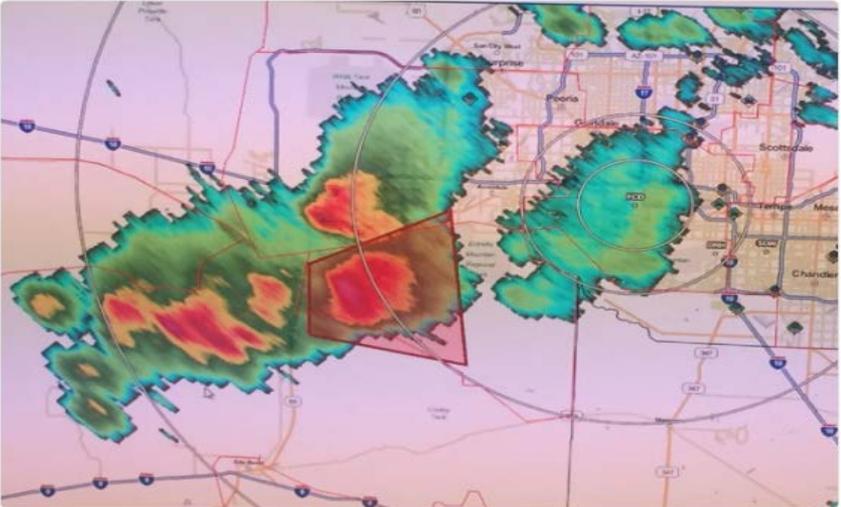


Daniel Henz
Meteorologist

6/31-7/1 Severe Wx in the Valley

 **FCDMC Flood Info**
@FCDFFloodInfo

6:05pm @NWSPhoenix has issued a TORNADO WARNING for South Central Maricopa...S of Buckeye. Storms heading east #azwx

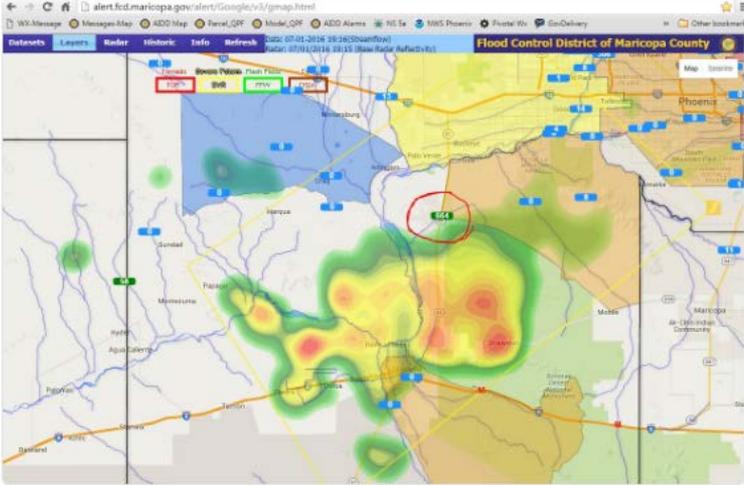


RETWEETS 10 LIKES 3

6:10 PM - 1 Jul 2016

 **FCDMC Flood Info**
@FCDFFloodInfo

Rainbow Wash flowing across Old US 80 Hwy. Motorists watch out! #azwx #tadd See more here: alert.fcd.maricopa.gov/alert/Google/v...



RETWEETS 8 LIKES 3

7:21 PM - 1 Jul 2016

7/18: Microburst Heard Around the Country



 **Bruce Haffner** 
@chopperguyhd

 Follow

@chopperguyhd Here's a closer look at today's microburst over Phoenix

8:25 PM - 18 Jul 2016 · Scottsdale, AZ, United States

  2,268  3,550

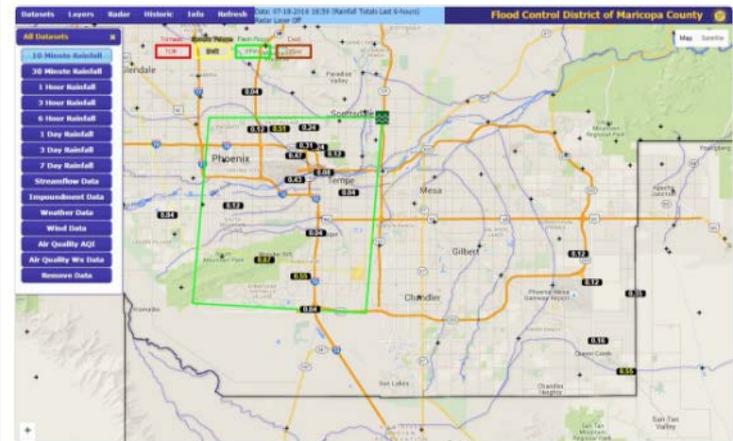


FCDMC Flood Info
@FCDFloodInfo



Following

Heavy rain across the central and eastern Valley #azwx #AZmonsoon rainfall totals here: alert.fcd.maricopa.gov/alert/Google/v...



RETWEETS

3

LIKES

8



7:01 PM - 18 Jul 2016



3



8



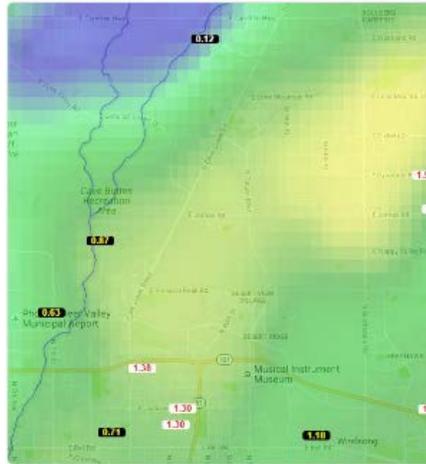
8/2 Valley and 8/5 Friday Morning Special



08/02/2016, 1

 **Matt Pace**
@MattPaceWeather

Dangerous flooding.... @gauges in N #Scottsdale rain this AM! #12news #a



RETWEETS 6 LIKES 3

9:56 AM - 5 Aug 2016

6 3

 **CBS 5 News**
@CBS5AZ

#BREAKING Car stuck in wa Hatcher roads #azwx #Mons tinyurl.com/hjvuy4t



RETWEETS 8 LIKES 3

9:32 AM - 5 Aug 2016

8 3

 **Andrew Hasbun**
@andrewfox10

Wow!! Major flooding on Scottsdale road south of deer valley. Scottsdale road closed. #azwx #Monsoon2016



RETWEETS 39 LIKES 53

10:34 AM - 5 Aug 2016

39 53

8/9-8/11 Moisture from Javier

 **Daniel Henz**
@drhenz_wx

Water Vapor, Moisture from move in 2 AZ



RETWEET 1 LIKES 4

1:25 PM - 9 Aug 2016

 **NWS Phoenix**
@NWSPhoenix

Rainfall amounts 0.22". #azwx



Surprise	0.04
Peoria	0.04
Glendale	0.08
Phoenix	0.08
Goodyear	0.04
Tolleson	0.20
Scottsdale	0.07

RETWEETS 18 LIKES 17

1:43 PM - 9 Aug 2016

 **FCDMC Flood Info**
@FCDFloodInfo

Sun City and Surprise headed your way! #azwx @AZSurprise



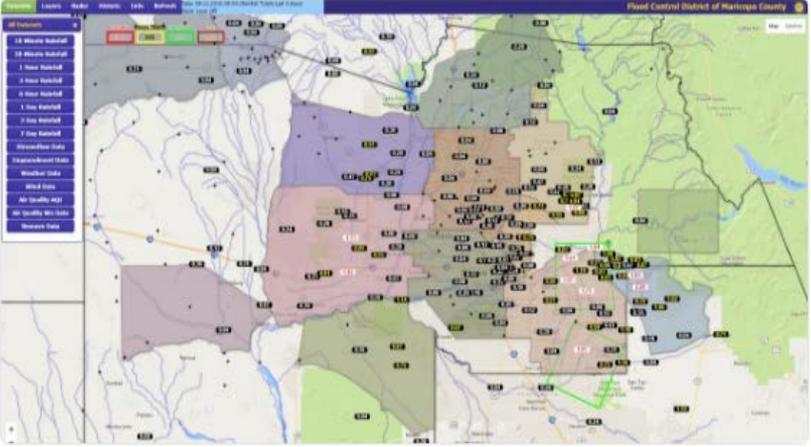
RETWEETS 11 LIKES 6

9:06 PM - 10 Aug 2016

 **FCDMC Flood Info**
@FCDFloodInfo

Following

Rain still falling, but check out 3-day rain totals from storms w/help from #Javier #azwx alert.fcd.maricopa.gov/alert/Google/v...



RETWEET 1 LIKES 2

10:00 AM - 11 Aug 2016

Phoenix Sky Harbor Scorecard



Monsoon statistics for Phoenix (1896-2016)

Top 10 Wettest Monsoon

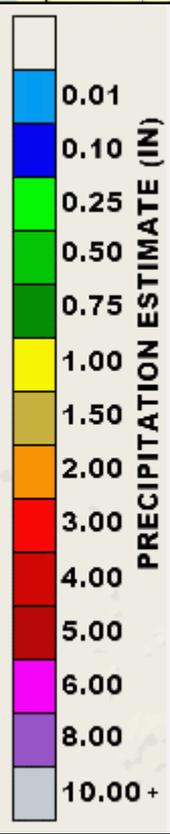
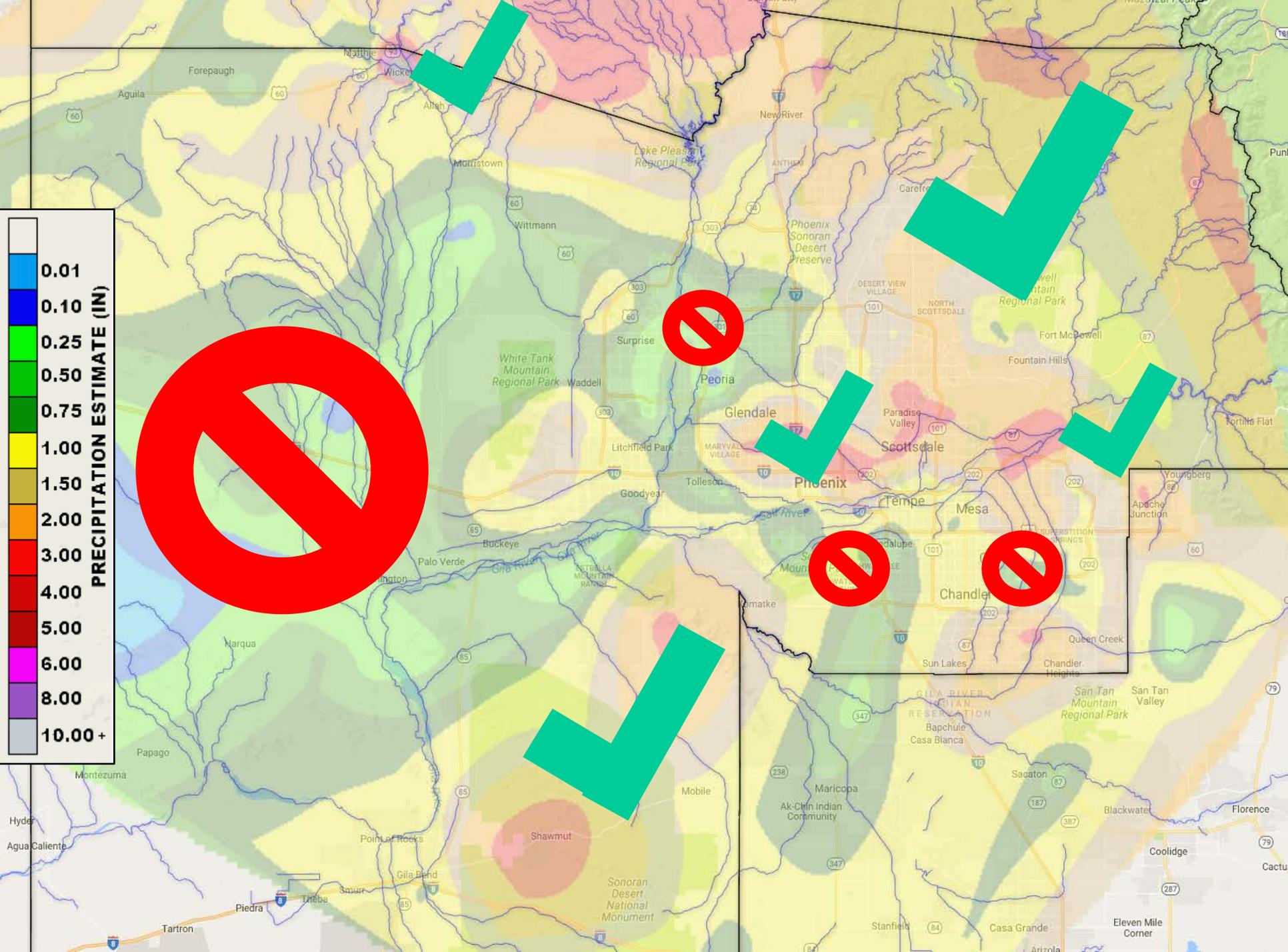
1) 9.56"/1984	6) 6.96"/1951
2) 9.31"/1911	7) 6.34"/2014
3) 7.45"/1946	8) 6.15"/1943
4) 7.30"/1939	9) 6.03"/1897
5) 7.20"/1896	10) 5.99"/1955

Top 10 Driest Monsoon

1) 0.35"/1924	6) 0.78"/1980
2) 0.51"/1914	7) 0.79"/1910
3T) 0.61"/1993	8T) 0.86"/1962
3T) 0.61"/1932	8T) 0.86"/1944
5) 0.74"/2007	10) 0.87"/2009

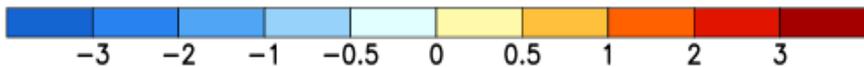
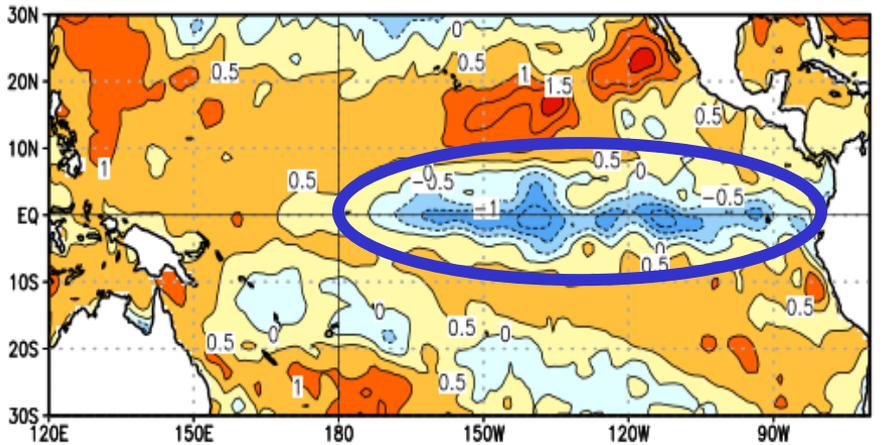
Month by month rainfall (as of August 13th)

YEAR	Month by month rainfall (as of August 13th)				
	June (15-30)	July	August	September	Total
AVG	0.02"	1.05"	1.00"	0.64"	2.71"
2016	0.01"	0.88"	1.02"	??	1.82"



Questions...?

Average SST Anomalies
17 JUL 2016 – 13 AUG 2016



DanielHenz@mail.maricopa.gov



www.fcd.maricopa.gov



[@FCDFloodInfo](https://twitter.com/FCDFloodInfo)



www.facebook.com/FCDMaricopa



Legislation/Regulatory Update

Kelli A. Sertich, AICP, CFM

Policy, Planning & Coordination Branch Mgr.

Local & State



- Upcoming mayor and council elections
- Meetings with cities/towns
- Preparing for next year's legislative session
- Aug 5 – deadline for legislative development form info to M.C. Government Relations
- HB 2651 – Aug 22 stakeholder meeting set up by Representative Ugenti-Rita

Federal Legislation - Programs

- **FEDERAL SPENDING BILLS - GENERAL**
 - **WATER RESOURCES DEVELOPMENT ACT (WRDA)**
 - **NATIONAL FLOOD INSURANCE PROGRAM**
- Farm Bill – NRCS Funding
 - Waters of the US (WOTUS)
 - Invasive Species Management
 - National Weather Service

Federal Spending Bills

- **House of Representatives passed spending bill for the Interior Department, Forest Service & EPA on July 14**
 - ✓ Not voted on last year due to controversy
 - ✓ To preempt controversy – House ended the practice of allowing members to offer an amendment to spending bills
 - ✓ Cuts about \$164 billion from the EPA's current funding level
- **Senate will not consider companion Interior-EPA spending bill until Congress' 7-week summer recess ends in September**

Federal Spending Bills

- After September, Congress is expected to continue to work on funding
 - ✓ Zika research; Drinking water issues in Flint, MI.
- **Growing Pressure on Senate to take up WRDA**
 - ✓ Has broad support and reach
 - ✓ Possible that aid to Flint could be rolled into this legislation



Water Resources Development Act (WRDA) 2016

- Provides critical investment in the country's aging water resources infrastructure
- Expands existing authority of the Corps to accept funds from states and local governments to carry out water resources projects
- Improves **Flood Protection** and Safety for Communities
- Updates the Corps emergency rebuilding authority for **flood control projects**



**US Army Corps
of Engineers®**

Congress
passed first
WRDA in
1974

WRDA - continued

- Allows Corps to implement **nonstructural** alternatives:
 - *Restore Ecosystem & Promote Public Access for Recreation*
 - *Address High Priority, Regional Water Resource Issues*
 - *Promote Innovative Technologies to Address Water Resources Challenges*
 - *Increase Flexibility & Federal Assistance to Address Drought*
- FCD propose possible projects
 - *Projects need to be submitted in advance now to the local Corps office.*
 - *Due September 19, 2016*



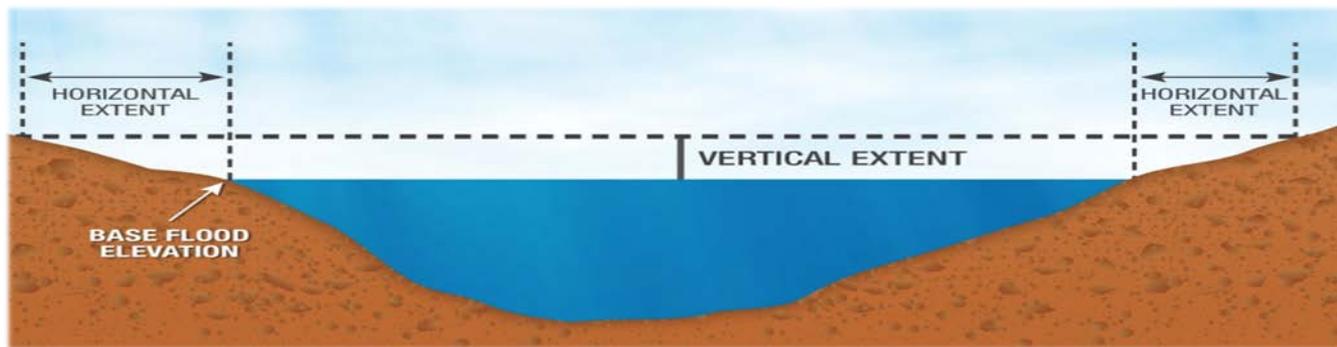
National Flood Insurance Program



- Program over \$20 billion in debt
- Rates will continue to increase
- Increasing push to privatize portions of program
- Major cross road for the program to be actuarially sound and/or affordable

Executive Order 13690

- Updated E.O. 11988 (issued 1977)
- Affects projects involving any federal action
- Does not affect local floodplain regulations or flood insurance rates
- Replaced 100-year floodplain standard with Federal Flood Risk Management Standards (FFRM)
- Federal agencies to develop implementation plan for new standards



Executive Order 13690

Report from ASFPM

- No Senate appropriations bills contain language prohibiting implementation of the FFRMS
- **2 House bills do: Financial Services/General Gov't & Transportation-HUD (THUD)**
- Obama Administration has told staff to continue work on the standards
- **FEMA & HUD to possibly issue their standards to comply with FFRMS in the next few weeks**
- Once info is made available – extensive review period

Farm Bill - NRCS

- Typically passed every 5 years to fund farm subsidy programs
- Also supports conservation efforts for wetlands & other habitat
- 2015 - NRCS used its Farm Bill authorities through the Regional Conservation Partnership Program (RCPP) for multi-partner design solutions (\$80 mill to FCD for dams)
- Last Farm Bill signed into law on Feb 7, 2014
- Next bill ~2019



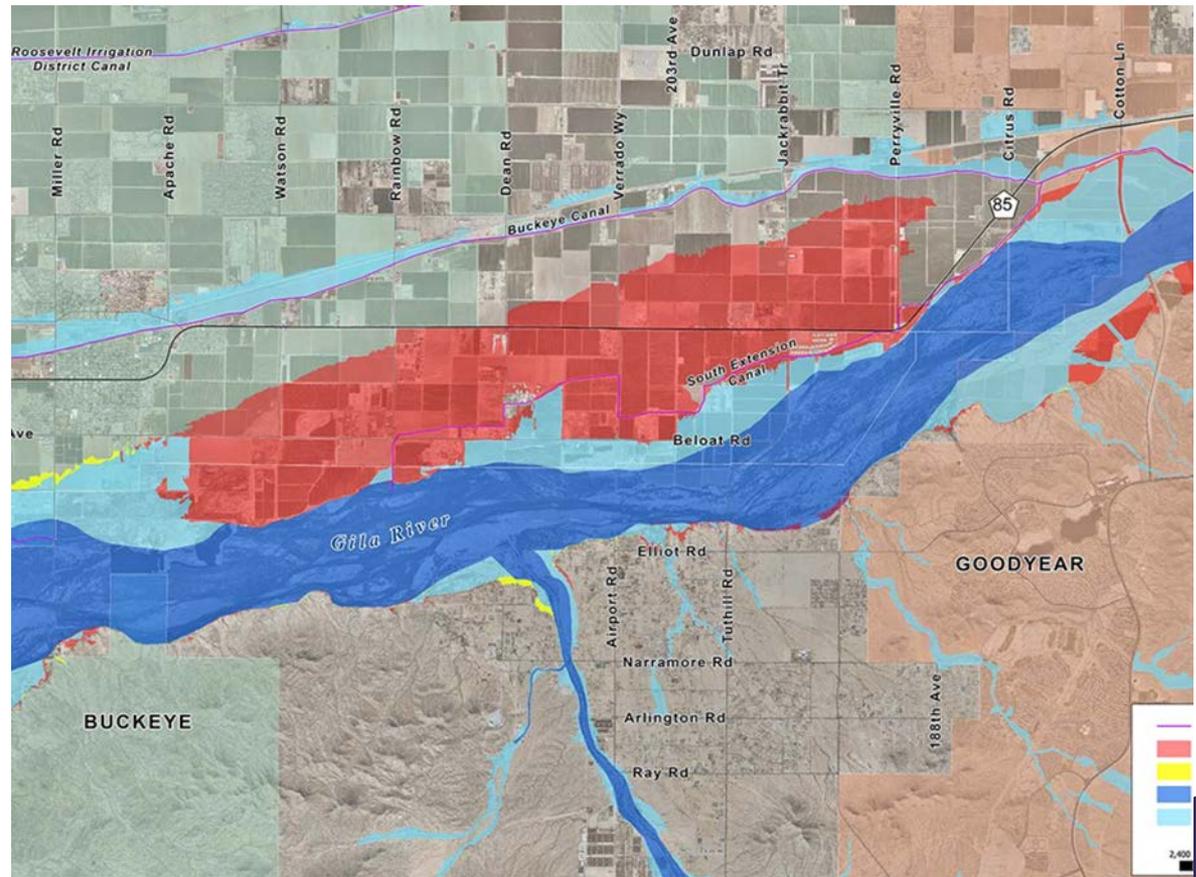


Waters of the U.S. (WOTUS)

- Attorneys representing states, industry and environmental groups filed three briefs to the 6th U.S. Circuit Court of Appeals
 1. To show how the agencies made key decisions about the rule
 2. Industry groups argue the rule infringes on property rights
 3. Environmental groups believe the rule will not adequately protect water quality
- State and industry groups oppose the rule because they perceive jurisdiction will be expanded
- **The rule has already been stayed in 13 states. A nationwide stay by the 6th Circuit Court serves the additional purpose of maintaining nationwide uniformity while the litigation proceeds.**

Invasive Species Management: Lower Gila River Floodplain

Federal funding (\$100K) has been approved for the Corps to conduct an appraisal study



National Weather Service

NWS Creates the Office of Water Prediction

A new office to forecast floods and drought

- Headquartered in Silver Spring, MD
- Snow analysis center in Chanhassen, MN
- National Water Center in Tuscaloosa, AL
- Purpose is to support local, state and federal agency efforts to manage
 1. Water resources
 2. Plan for flooding and drought



Why is this Important?

- FCDMC operates & maintains 22 dams, 370 acres of basins, 122 miles of channels, and over 60 levees, storm drains, and other structures.
- Operates over 350 weather, rainfall and streamflow gages for real-time data for emergency responders
- Class 4 – CRS, Floodplain Regulations, Flood Insurance Policies
- Partnerships with Federal and State Agencies



Current Actions & Issues

- AZ reps in Congress have introduced 7 or so bills & are supporting many others
- S. 2902 Western Water Supply & Planning Enhancement Act of 2016 (Flake)
- A number introduced related to WOTUS

Current Actions & Issues

- Staff continue to track state & federal
 - Gila River Salt Cedar
 - Water Conservation
 - Funding Sources
- Partnerships & Collaborative Opportunities
 - Federal, Regionally and Locally
 - FEMA, USACE, NRCS, NWS, EPA, ADEQ, ADWR

Questions ?





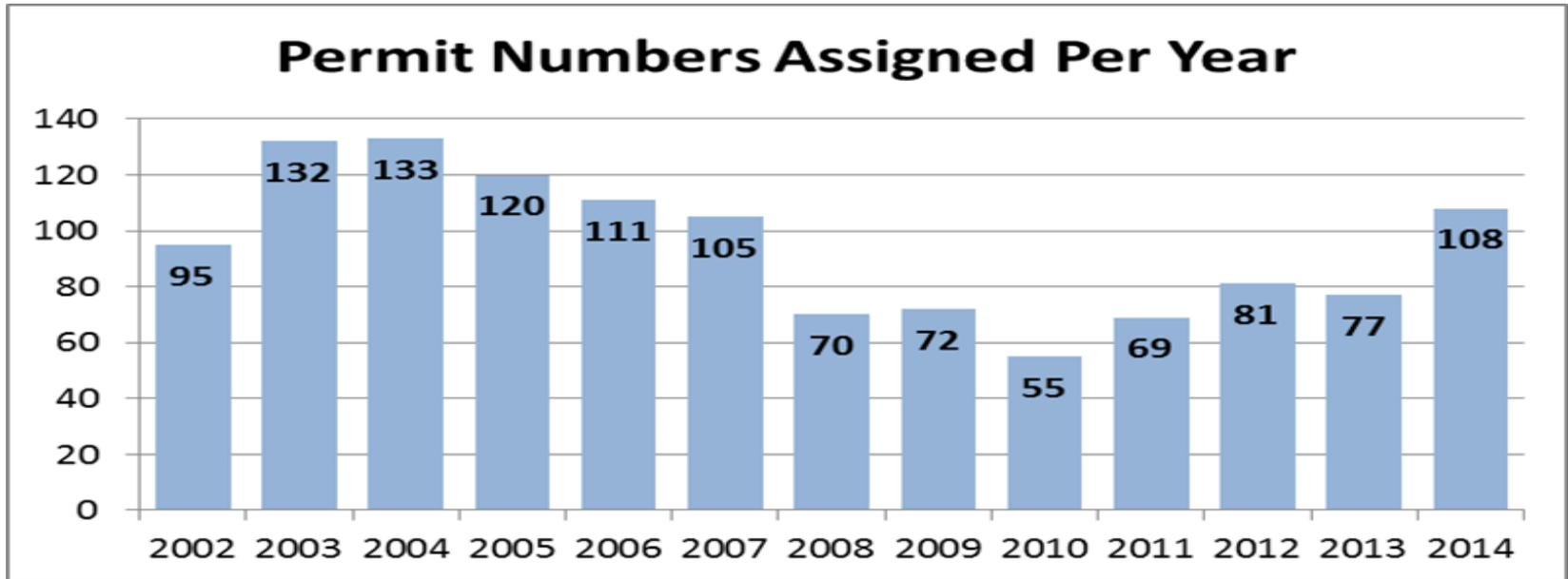
Right of Way Permit (Kaizen) Process Improvement Status

Ken Proksa
Mike Jones

FCD Ad Hoc Task Force

- 22 external FCD stakeholders convened by BOS Chairman Denny Barney 4-29-14.
- Identified 17 recommendations for District improvements.
- Recommendations adopted by BOS 9-8-14
- # 1 recommendation; “To promote the lean management philosophy throughout the department by conducting several facilitated Kaizen events with customers, staff and management on specific processes directly impacting service to citizens”.

Annual ROW Permits



- Volume has been trending upward since 2010 (~25% growth per year)
- Utility permits doubled from 2013 to 2014
- Utility & Ingress/Egress permits account for 86% of all permits

Right of Way Permit Kaizen

- Right of Way Permit process important to ensure integrity of District property and public safety. All entities must obtain a ROW permit to enter District property to perform construction, removal, repair or maintenance.
- ROW permit process was identified as both cumbersome and inefficient.

Participants

Ken Proksa - Deputy Director, Flood Control District

Bryan Slepian-Facilitator, West Monroe Partners

Mike Chase -Stanley Consultants

Dan Bonow -Pulte Homes

Sheri Furrow -Salt River Project

Kris Luna -City of Peoria

Paul Hoskin - Hoskin-Ryan Consultants



Cathy Register -Hydrologist, Acting Branch Manager (FCD Eng Div)

Angie Hardesty - Right of Way Permits Specialist (FCD Eng. Div)

Mike Jones - Civil Engineer (FCD Eng. Div)

Erik Arntz - Inspector (FCD Op & Maintenance Div)

Lisa Amos -Property Management Supervisor (FMD Real Estate Div)

Roseann Osborn-Perez-Information Technology Center (ITC), Division Manager

Right of Way Permit Kaizen

- **3 ½ day Kaizen conducted 2/2-2/5/15**
- **Objectives:**
 - Reduce permit review turnaround time
 - Improve transparency for customers to know permit status
 - Simplify the internal review process
 - Online permit submittals & payment 24/7

Kaizen Event



Key Issues Identified

- **Not enough physical file storage**
 - **Paper permit app only; permits only received (M-F 8:00-5:00 pm)**
 - **Insufficient staffing to perform administrative tasks; No backup for Permit Specialists**
-
- Absence of clear design standards & requirements
 - No ROW permit pre-application; nor permit application checklists
 - Antiquated databases; difficult to track permit status
 - Staff comments to permit applicants sent via email rather than directly through database
 - Permit applicants unable to check permit status online

Permit Specialist Cubicle (before)



Key Recommendations

- **WEB-BASED ONLINE APPLICATION & PAYMENT PROCESS**

- Integrated FCD database
- Communications captured in FCD database
- Establish & publish standards

- **STREAMLINE INTERNAL PERMIT REVIEW PROCESS**

- Admin support & centralized filing
- Schedule weekly meeting time slots for permit applicants



Implementation

- **PROVIDED ADMIN SUPPORT TO PERMIT SPECIALISTS**
- Instituted Permit Pre-application & application customer checklists
- Developed & published design standards for customers
- Established weekly meeting days/times with permittees
- Organized workspace & established central files
- **DEVELOPED AND IMPLEMENTED ONLINE PERMIT APPLICATION-ONBASE EPLAN**

Permit Specialist Cubicle (after)



Central File Storage



Online Application

- **ALLOWS THE CUSTOMER TO UPLOAD DOCUMENTS AND VIEW STATUS OF PROJECTS ONLINE 24/7**
- Provides transparency in the review process for the customer & FCD
- **ELIMINATES NEED FOR PAPER COPIES, REDUCES CUSTOMER AND FCD COST**
- Integrated with County's Electronic Document System (OnBase)
- OnBase ePlan live for customer submittals 8/1/16
- **6 PERMIT SUBMITTALS ALREADY IN PROCESS**

Customer Web Portal

Sign In or Register

The image shows two overlapping screenshots of a web portal. The top screenshot is the 'Sign In or Register' page, and the bottom screenshot is the 'Customer Permit Applications' page.

Sign In or Register Page:

- Header: ts Online
- Section: Sign In
- Form fields: User name * (input), Password * (input)
- Buttons: Sign In
- Links: [Forgot Name/Password](#), [Don't have an account? Click here to register.](#)
- Note: **NOTE:** To fully utilize the ROW Permits Online system you must use Internet Explorer.
- Right sidebar: Right-of-Way Permits, Fee Schedule, Questions on ROW, West of Central Avenue, Angie Hardesty, ROW Permits Specialist, (602) 506-5476

Customer Permit Applications Page:

- Header: Right of Way Use Permits Online
- Buttons: Permits, Settings
- Section: Start New Permit
- Form: Review Type (Select Review Type), Add Permit
- Table: View (Within Last 6 Months)

Group	Permit Number	Name	Create Date	Status
<None>	2016P104	Mikes Test Project	7/13/2016	Pre-Application

Document Upload

FLOOD CONTROL DISTRICT
Maricopa County, Arizona

POWERED BY **OnBase**

Right of Way Use Permits Online Sign Out

Permits **Settings** **Profile**

Permit Information | Plan Documents | Review Documents | Approved Documents | Related Projects | Project Invitations

Permit Number
2016P104

Group
<None>

Name
Mikes Test Project

Status
Pre-Application

Review Status

Status: Ready

<input type="checkbox"/>	<u>Name</u>	<u>Phase</u>	<u>Sheet Type</u>	<u>Description</u>	<u>Revision</u>	<u>Upload Status</u>	<u>Action</u>
<input type="checkbox"/>	2014-09-12 - DU3S Final Drainage Report (Signed)	Pre-Application	Drainage Report		2		
<input type="checkbox"/>	2014-12-18 -- FCD Channel Liner Replacement Plans	Pre-Application	Civil Plans		2		
<input type="checkbox"/>	Existing	Pre-Application	Drainage Models		3		
<input type="checkbox"/>	Review Comments for Permit Number 2016P104 Resolution	Pre-Application	Comments Response		1		

Permit Invitations

FLOOD CONTROL DISTRICT
Maricopa County, Arizona

POWERED BY **OnBase**

Right of Way Use Permits Online Sign Out

Permits **Settings** **Profile**

Permit Information | Plan Documents | Review Documents | Approved Documents | Related Projects | Project Invitations

Manage Invitations [Invite User](#)

Email address	User name	Invitation Type	Status	Grant Access	Revoke Access
miriameber@mail.maricopa.gov	MIRIAMEBER	Project	Upload Access	<input type="checkbox"/> View Only <input checked="" type="checkbox"/> Upload Access	<input checked="" type="checkbox"/>

Permit Information
Permit Number: 2016P104
Group: <None>
Name: Mikes Test Project
Status: Pre-Application

Permit Invitations

ePlan Review

The screenshot displays the OnBase (Observer) ePlan Review interface. The top navigation bar includes tabs for Home, Plan Review, Plan Review Tasks, FloodControlDistrictROWPermits, and Document. The toolbar contains various actions such as Review Comments, Add Reference Document, Add Plan Document, Refresh, Re-Assign Document, Open Document Set, Apply Markups, Stamp, Revoke Reference Document, Document Review Status, Comment, and Create Letter.

Available Projects

My Projects Search Projects

Name	Project ID	Alternate ID	Entry Date
Mikes Test Project	2016P104		8/11/2016
Kraig Hill	2016P108		8/11/2016
Kenneth Rush	2016P109		8/16/2016

Project Information

Project Name: Mikes Test Project
Project ID: 2016P104
Alternate ID:
Site Address: Durnago Phoenix, AZ, 85339
Review Type: Permit Application
Start Date: 7/13/2016
Review Status: Review Cycle 4, Closed
[View Additional Information](#)

4: 8/2/2016 - 8/2/2016 (Closed)

Reviewer Due Date: 8/10/2016
Review Cycle Due Date: 8/12/2016
Reviews Completed: 1 out of 1

Project Documents

Document	Approved	Reviewed	Open Comments	Markups	Description	Revisions	Revision Date
2014-09-12 - DUS5 Final Drainage Report (Signed) (PDF) - PRE-APPLICATION - DRAINAGE REPORT		Yes		Yes		2	7/14/2016
2014-12-18 -- FCD Channel Liner Replacement Plans (PDF) - PRE-APPLICATION - CIVIL PLANS		Yes		Yes		2	7/14/2016
Existing (ZIP) - PRE-APPLICATION - DRAINAGE MODELS		Yes				3	7/14/2016
Review Comments for Permit Number 2016P104 Resolution (WORD) - PRE-APPLICATION - COMMENTS RESPONSE						1	7/14/2016

Project View

- Mikes Test Project - (2016P104)
 - Project Information
 - Plans and Documents
 - Review Cycle Documents
 - Approved Plan Documents
 - Documents Pending Delete
 - Related Projects

ePlan Review

ePlan Review Comments

GENERAL NOTES FOR RIGHT-OF-WAY PERMITS

1. ALL CONSTRUCTION WITHIN FLOOD CONTROL DISTRICT (DISTRICT) RIGHTS-OF-WAY JURISDICTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) SPECIFICATIONS, UNLESS THE STRUCTURE INVOLVED IS A DAM. IF THE STRUCTURE IS A DAM, SPECIAL PERMIT REQUIREMENTS WILL APPLY. DAM SHALL MEAN A STRUCTURE THAT IS UNDER THE JURISDICTION OF THE ARIZONA DEPARTMENT OF WATER RESOURCES AND IS DEFINED IN ARIZONA REVISED STATUTES 45-1201.
2. CONTRACTOR MUST OBTAIN NECESSARY DISTRICT PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION WITHIN DISTRICT RIGHT-OF-WAY AND MAINTAIN A COPY OF THE PERMIT ON THE PROJECT SITE AT ALL TIMES.
3. NOTIFY THE DISTRICT'S PERMITS INSPECTOR AT 602-525-7913 OR 602-390-9829 AT LEAST 48 HOURS PRIOR TO ANY WORK BEING PERFORMED IN THE DISTRICT'S RIGHTS-OF-WAY.
4. CONTRACTOR PERFORMING EXCAVATION OPERATIONS IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES.
5. ALL COMPACTION AND BACKFILL WITHIN DISTRICT'S RIGHT-OF-WAY SHALL CONFORM TO THE LATEST MAG SPECIFICATIONS. 95% COMPACTION REQUIRED UNLESS STIPULATED OTHERWISE IN THE DISTRICT'S PERMIT.
6. ANY DAMAGE TO DISTRICT'S STRUCTURES, EQUIPMENT, MATERIALS, VEGETATION, AND/OR PROPERTY SHALL BE REPLACED AND/OR REPAIRED IN-KIND TO THE SATISFACTION OF THE DISTRICT.

Dunn Edwards - Antiscale to match
to Rurlic Red. (Frazee Aio-thane gloss
"Rurlic Lily")

ence System "C" Fixed

Project Data

Legal Description: Parcel # 170-0-001A
33°3'100.8"N
111°59'44.9"W

Section Township Range: 13 2N 3E

Zoning: SUP-P

Site Area: 1,700,240 S.F.

Vicinity Map

This Project

CS-2, Fence needs to account for slopes

OM-2 Maintain O&M access during construction

Marked Document Set

Project: Phoenix Country Day School
Project ID: 2016P103

Issue ID	Review Cycle	Status
CS-2	Review Cycle: 1	Open
Comment: Page 1 Fence needs to account for slopes		
Resolution: JONESM011 7/8/2016		
8/18/2016		
OM-2	Review Cycle: 1	Open
Comment: Page 1 Maintain O&M access during construction		
Resolution: COUITSR 7/8/2016		
8/18/2016		

Still to Come

- Online Payment by 12/31/16



- Mobile inspection application for Inspectors by 12/31/16



Questions ?

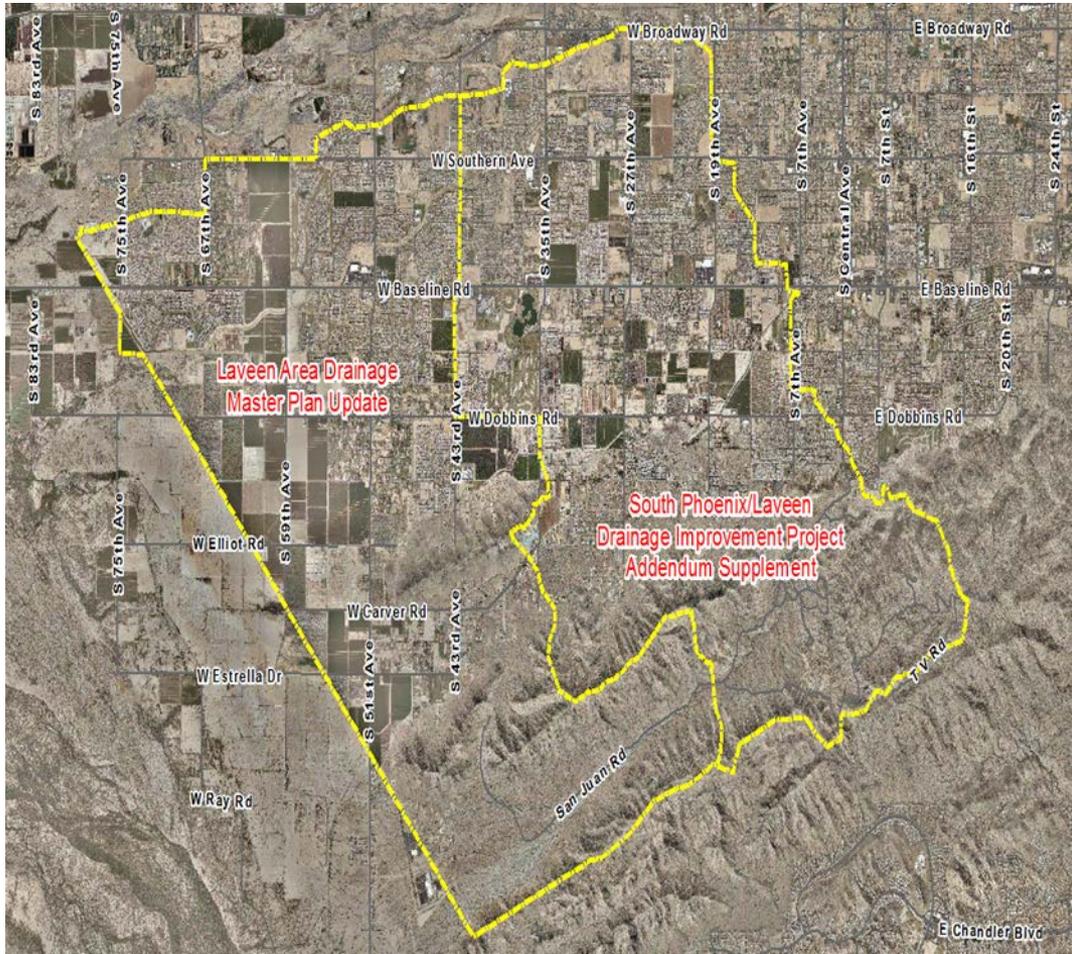


Projects Updates

Don Rerick
PPM Division Manager

Planning Study

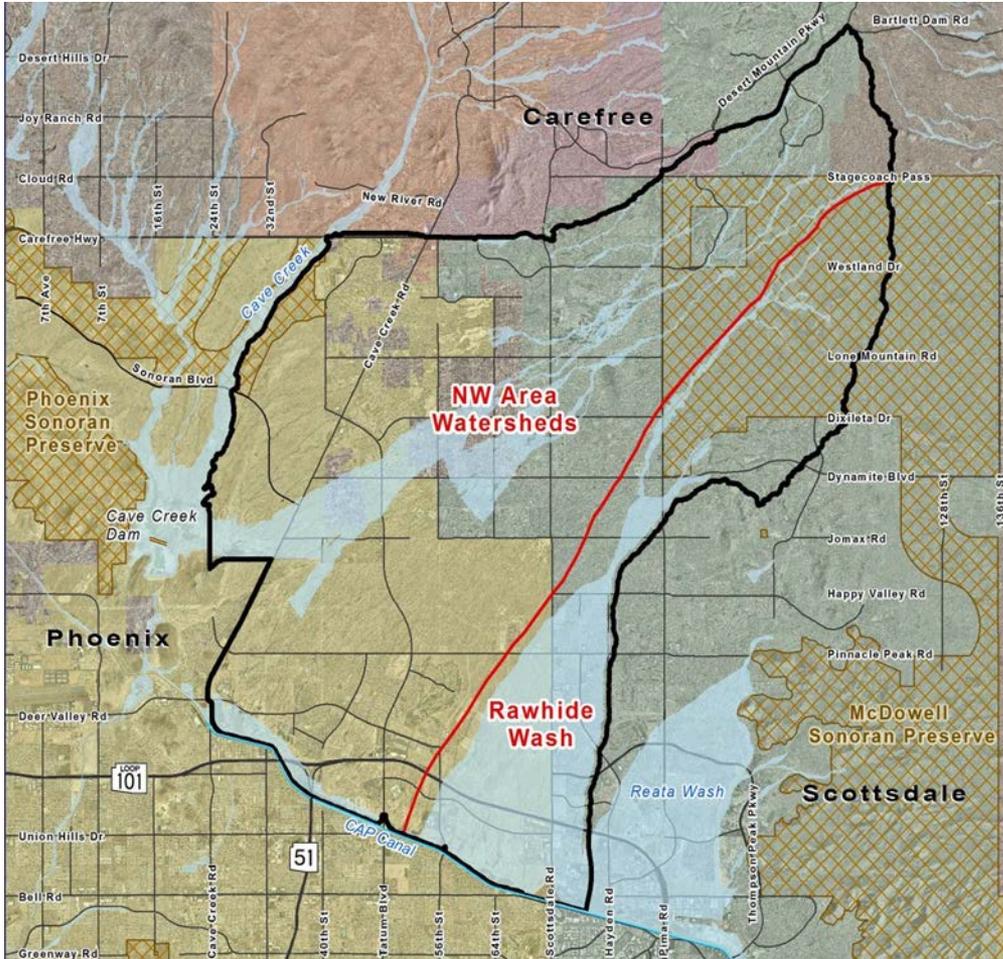
South Phx & Laveen ADMP Update



- **Study efforts continue:**
 - Finalizing the preliminary FLO-2D analysis.
 - Coordinating with ADOT on possible use of the Loop 202 freeway drainage channel as an outfall for future mitigation projects.
 - Identify flooding hazards.
- **Extensive coordination continues with Phoenix.**
- **Final study report with recommendations by early fall.**

Planning Study

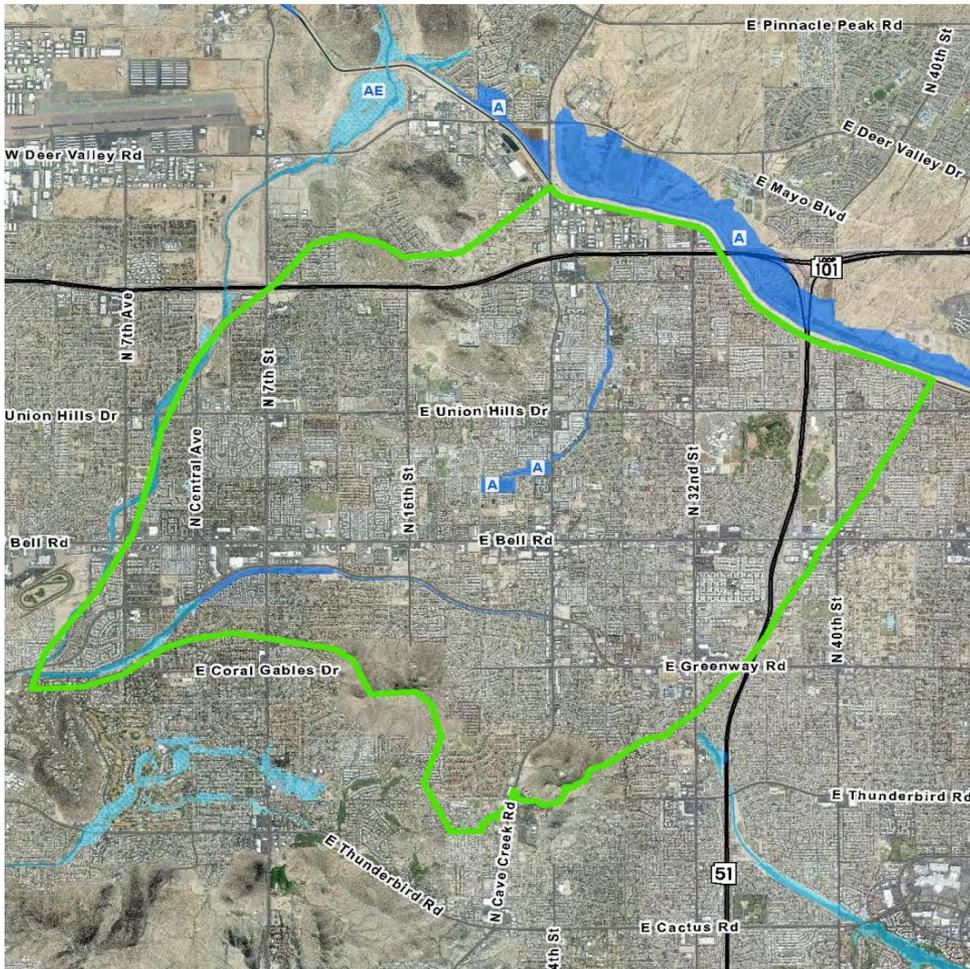
Pinnacle Peak West ADMS



- Study is complete and newsletter sent out to HOAs and residents in study area.
- Rawhide Wash mitigation alternatives:
 - Selection of preferred alternative is underway.
 - A DCR will be initiated for preferred alternative.
- Redelineation of Fans 5 & 6 floodplains continues:
 - Delineation to be sent to FEMA this fall.
- Final public meetings to be held this fall.

Planning Study

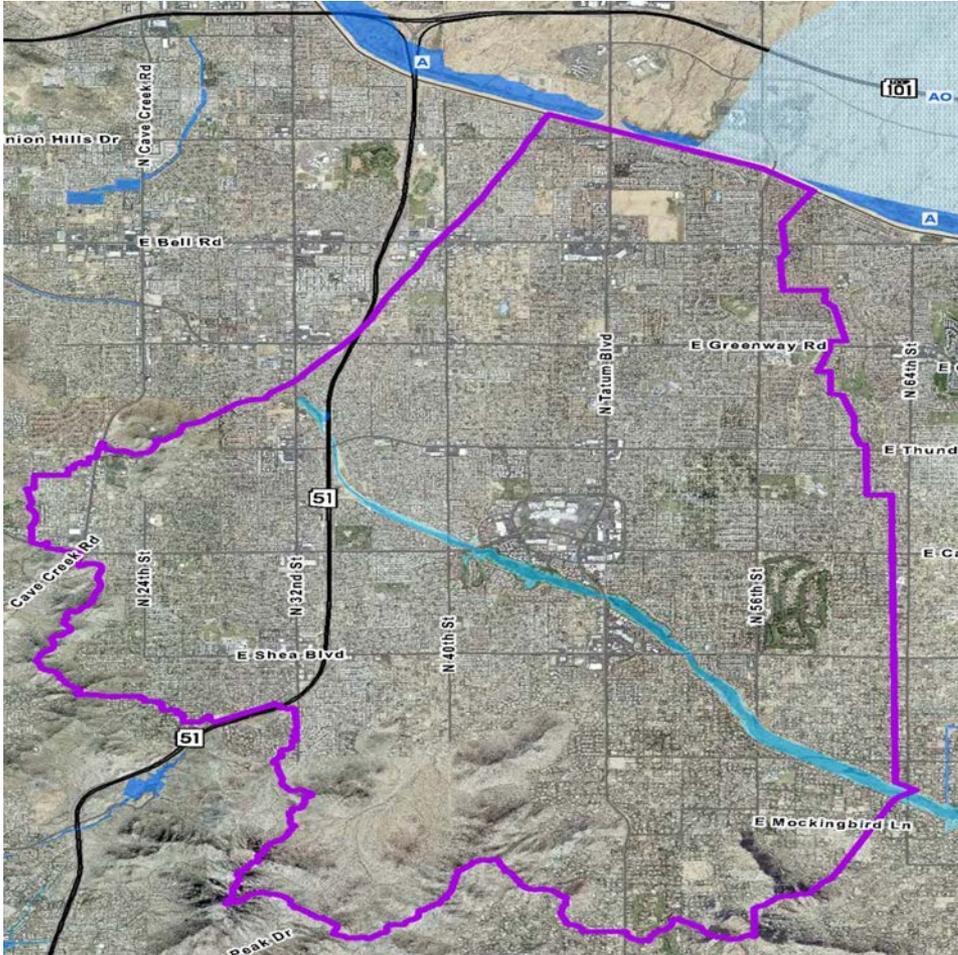
Upper East Fork Cave Creek Area Drainage Master Study Update



- **Study efforts continue:**
 - H/H modeling using FLO-2D.
 - Identify potential mitigation solutions.
 - DCRs may be implemented for selected solutions.
- **Public outreach efforts continue:**
 - Coordination on-going with Phoenix.
 - Public meetings yet to be scheduled.

Planning Study

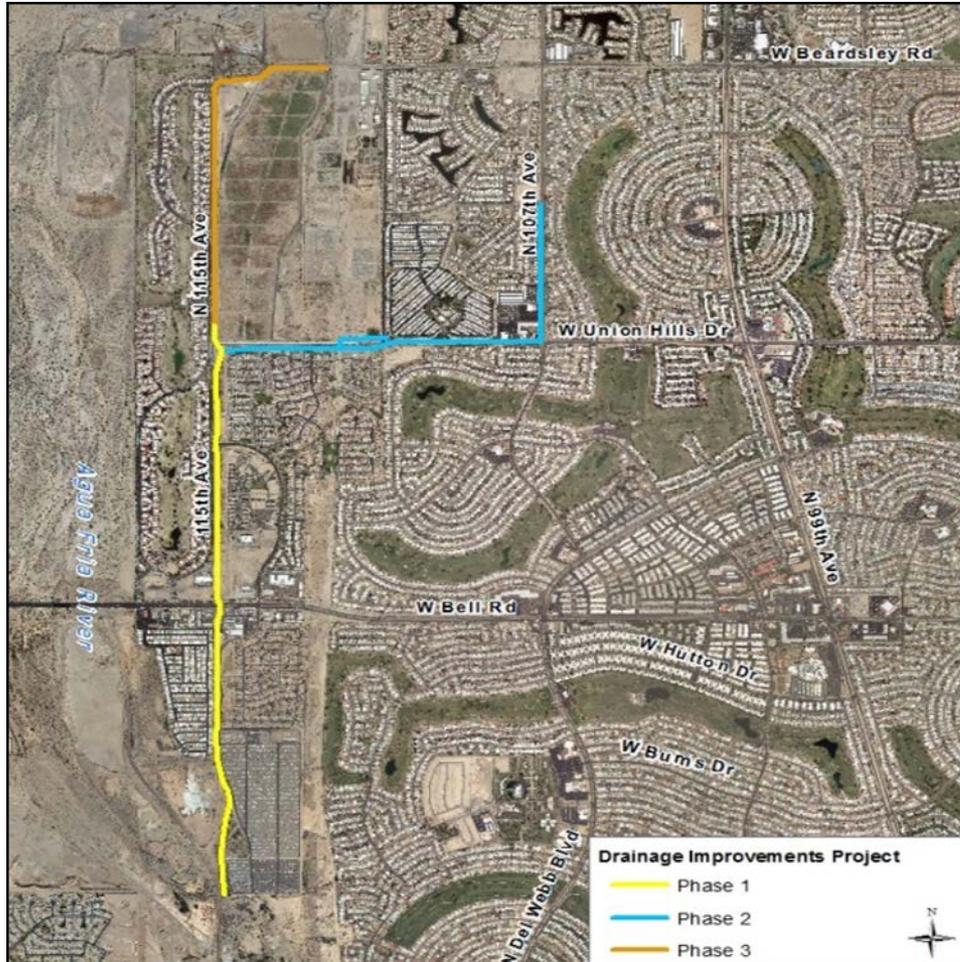
Middle Indian Bend Wash Area Drainage Master Study



- **Work Assignment #2 activities continue:**
 - FLO-2D analysis incorporating storm drain system continues.
 - Data collection is complete.
- **Coordination with Phoenix and Paradise Valley is on-going.**
- **Public meetings in Phoenix and TPV were held in July. Due to low attendance more public meetings will be scheduled.**

Design

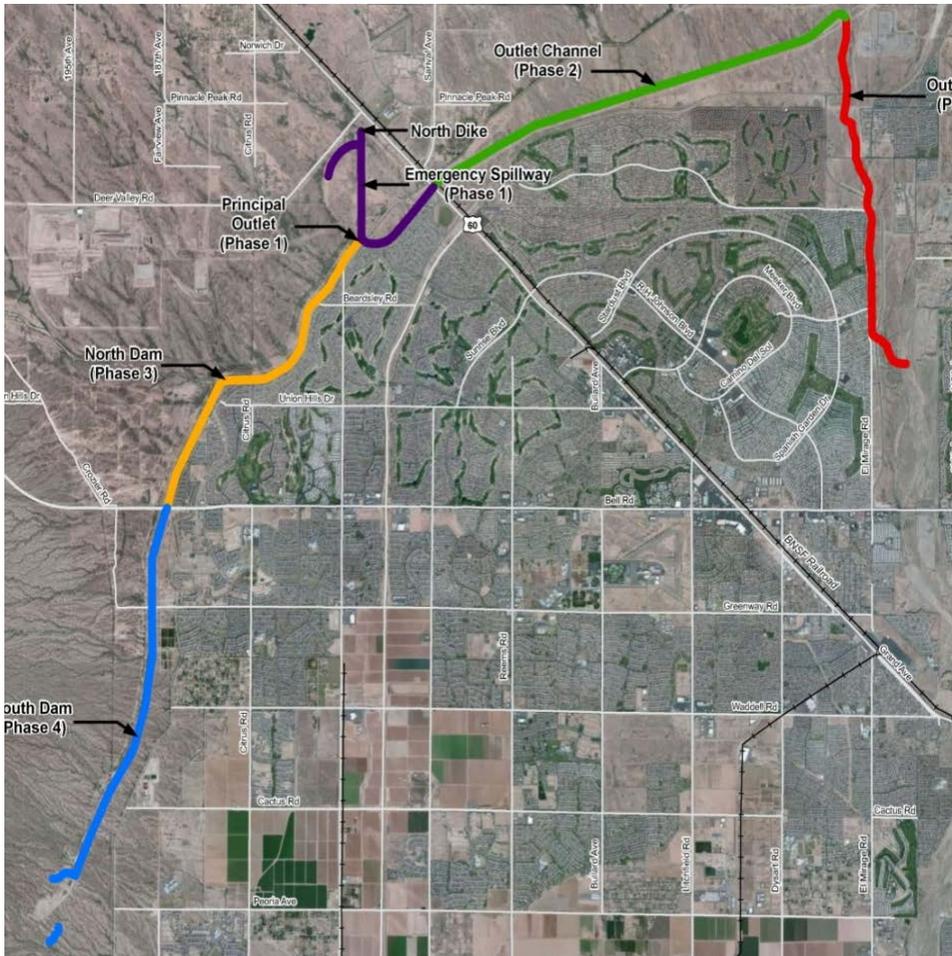
115th Avenue & Union Hills Drive Drainage Improvements



- Phase 1 and Phase 2 P&S complete.
- Utility relocations for Phase 1 are complete.
- Phase 3 design at 30%; completion to 100% is on hold.
- Construction is on hold due to budget constraints.
- Project consists of:
 - Channels and storm drains; and
 - Provides 100-yr protection.

Design

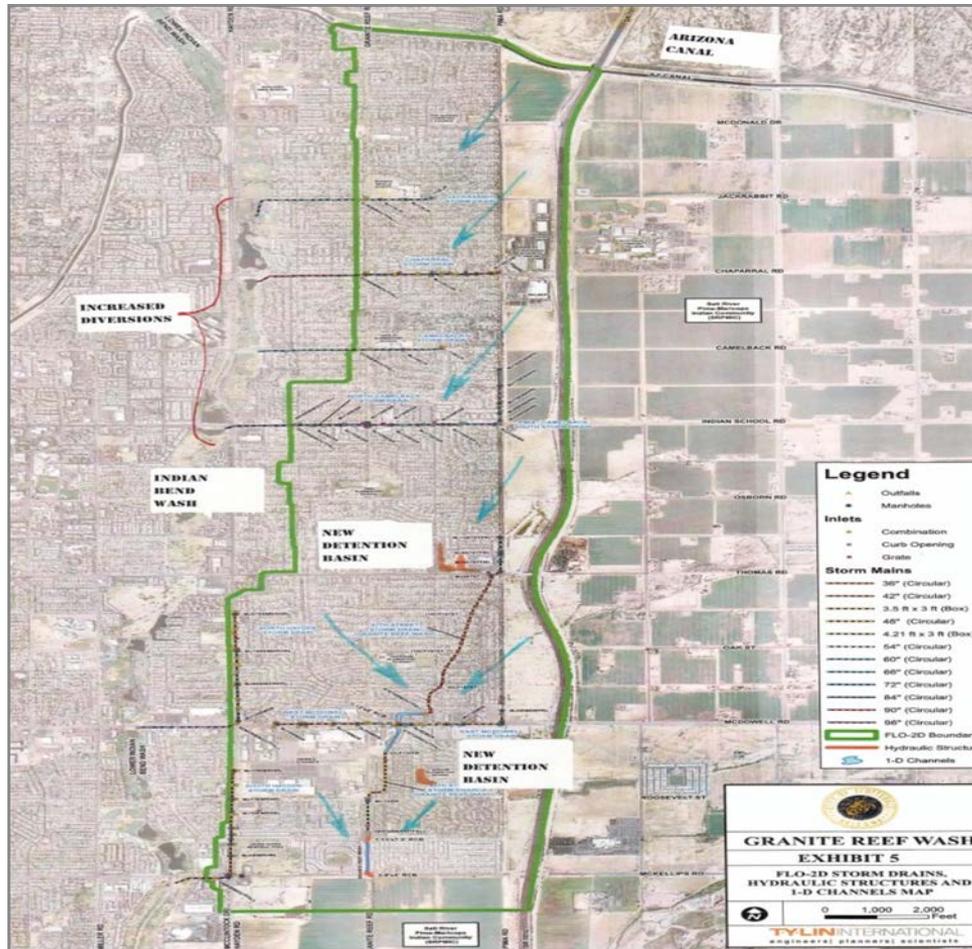
McMicken Dam Rehabilitation



- Design being done in phases.
- Phases 1 & 2 60% design continues.
- Geotechnical investigations continue.
- Outlet Channel 30% design is complete.
- Remainder of Outlet Channel design to be done in-house.
- Archaeological field investigations have been completed.

Design

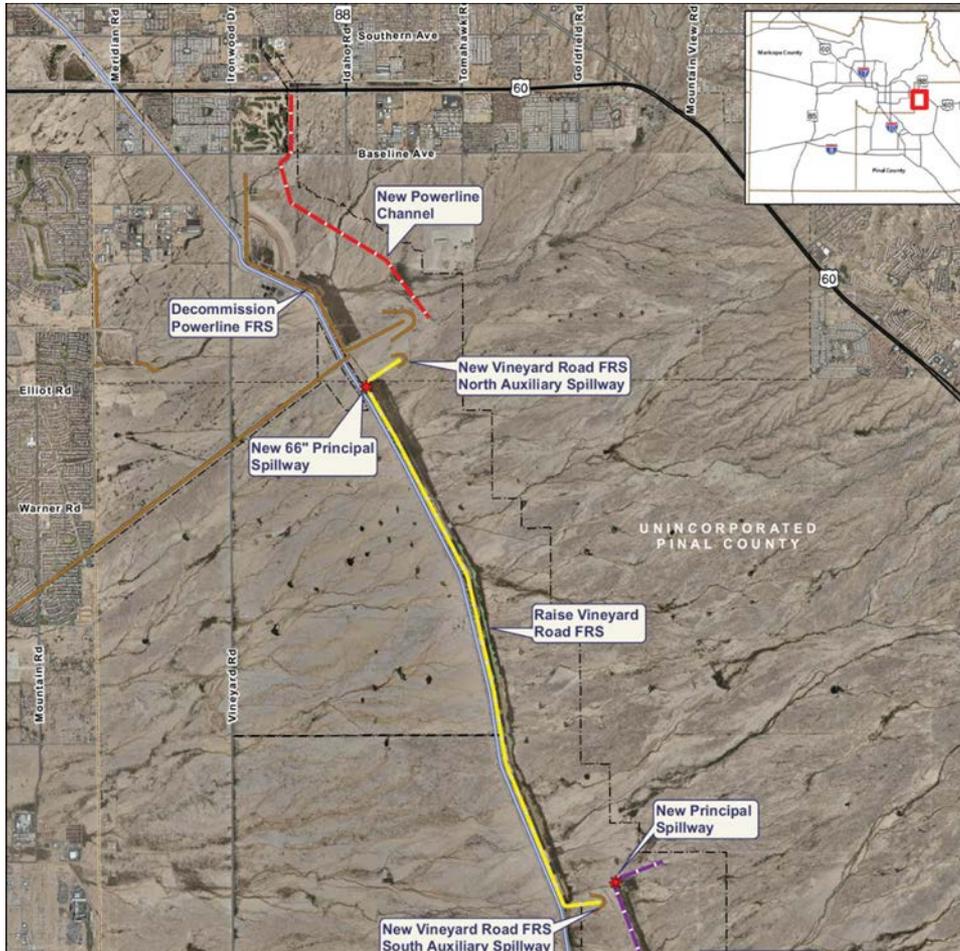
Granite Reef Watershed Project – Phase 1



- Lead Agency – City of Scottsdale
- Phase 1 & 2 activities continues:
 - Final H/H modeling to be submitted in September.
 - Phase 1 100% P&S in November.
 - Phase 1 construction start in spring 2017.
 - Phase 2 100% P&S in spring 2017.
 - Phase 2 construction start in summer 2017.

Construction Manager at Risk (CMAR)

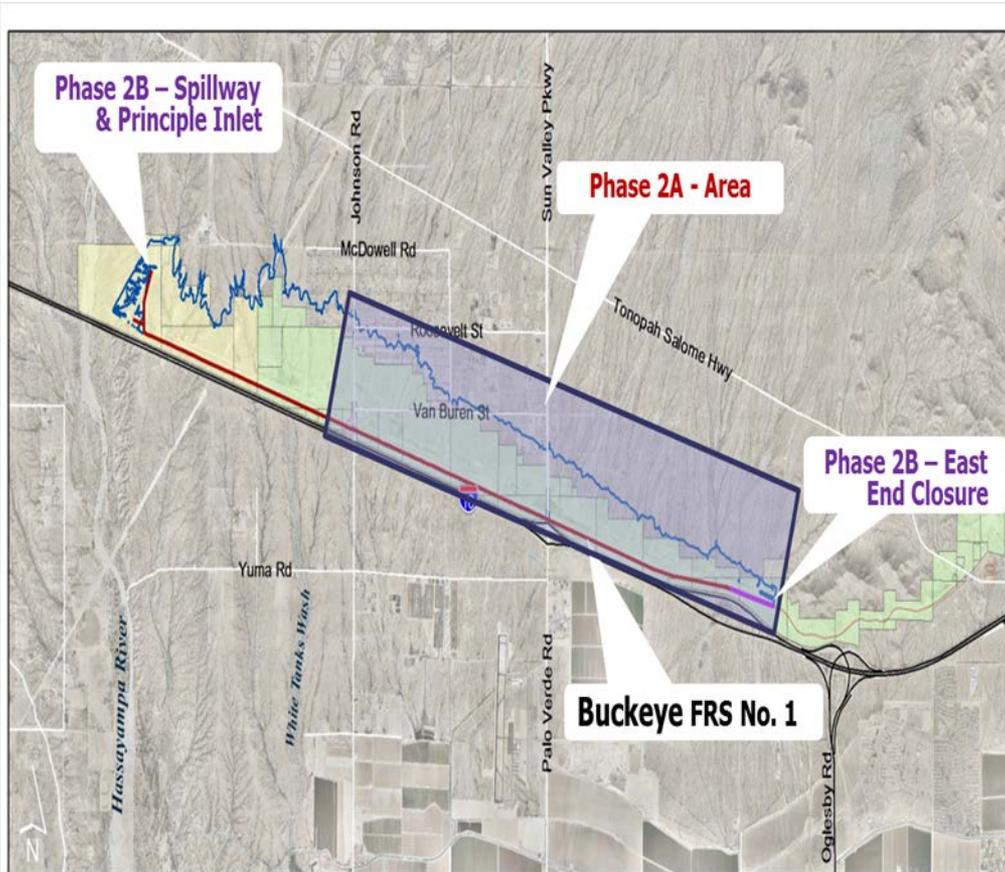
Vineyard Road & Powerline FRS Rehabilitation



- **Vineyard:**
 - Phase 2 100% P&S being reviewed by FCD and ADWR.
 - Phase 2 being split into two phases due to funding issues.
 - Phase 3 design continues.
- **Powerline:**
 - 60% design effort continues.
 - Continuing to resolve utility conflicts.
 - Geotech investigations are complete.
- **Vineyard Phase 1 construction continues by CMAR.**

Construction Manager at Risk (CMAR)

Buckeye FRS No. 1 Rehabilitation Project



 Maximum Water Surface Elevation - Probable Maximum Flood

- Construction of Phase 2A continues, with center filter construction complete.
- Phase 2B design continues.
- The CMAR has submitted his initial Phase 2B GMP costs for review.
- Portions of work from Phase 2B will be incorporated into Phase 2A to utilize remaining available NRCS funding.

Construction Manager at Risk (CMAR)

White Tanks FRS No. 4 Rehabilitation Project



- **Phase 2 Dam Rehabilitation construction activities continue:**
 - New auxiliary spillway.
 - Embankment construction.
 - Inlet channel.
 - New principal outlet.
 - Various inlet drop structures.
- **Estimated construction completion date is June, 2017.**

Construction

Ashbrook Wash Improvements



- **Construction nearly complete:**
 - Palm tree removal maintenance complete.
 - Bayfield Dr. and Saguaro Blvd. culverts complete.
 - Some roadway paving and incidentals remain.
- **Construction completion late summer 2016.**
- **Project partnership with Town of Fountain Hills.**

Questions ?

This is a photo of the large trenching machine used on the Buckeye FRS #1 Phase 2 Rehabilitation Project for construction of the center filter.



ROUND TABLE

