

10 Dust Group Update

What I Will Cover

- Brief History Summary
- 2017 Accomplishments
- I-10 Dust Group Process Moving Forward
- MM 214 Project Completed
- MM 214 Project Monitoring (Scott Dibiase, Pinal Co.)

Group Member Agencies

Arizona Department of Environmental Quality (ADEQ) – current lead

Arizona Department of Transportation (ADOT)

AZ Department of Public Safety (DPS)

National Weather Service (NWS) Phoenix & Tucson

Arizona Department of Agriculture (ADA)

Pinal County Sherriff's Office

USDA Natural Resource Conservation Service (USDA NRCS)

Pinal County Air Quality

University of Arizona

National Oceanic and Atmospheric Administration (NOAA)

Gila River Indian Community (GRIC)

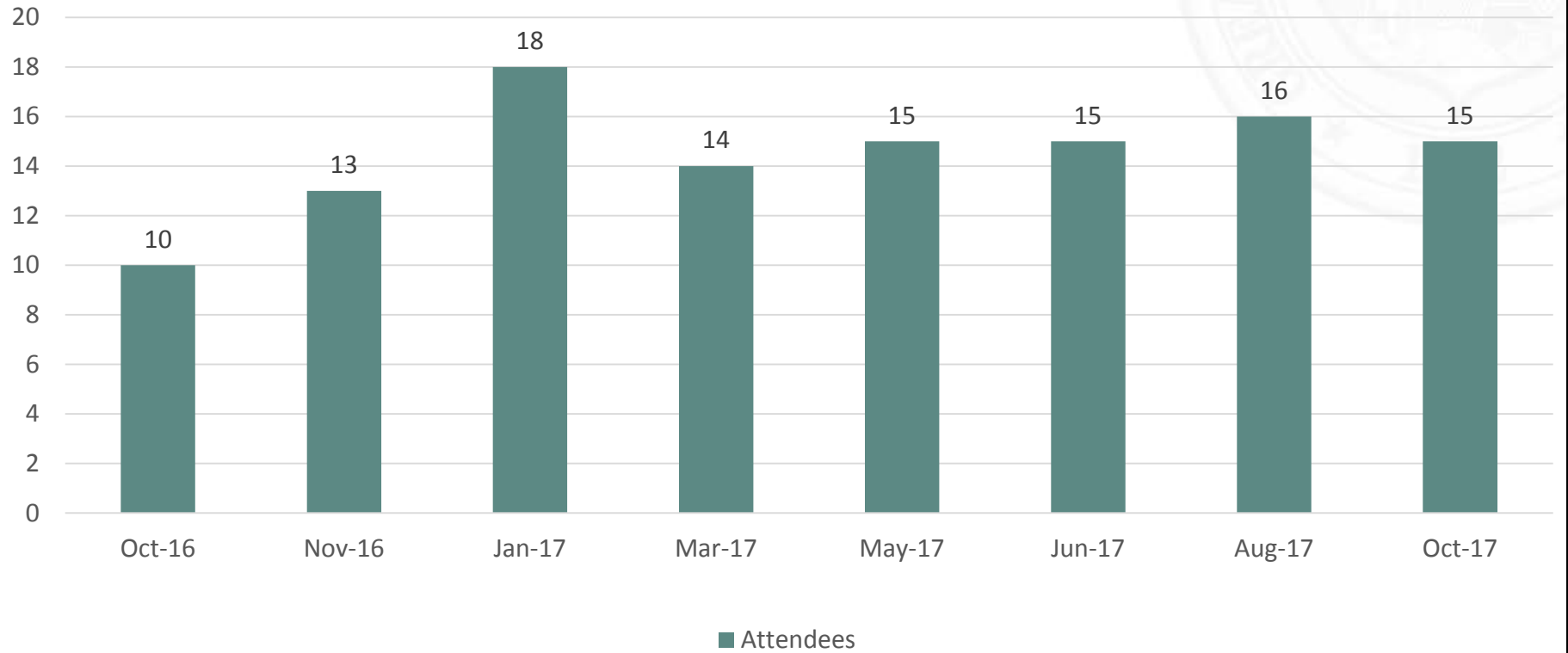
Tohono O'Odham Nation

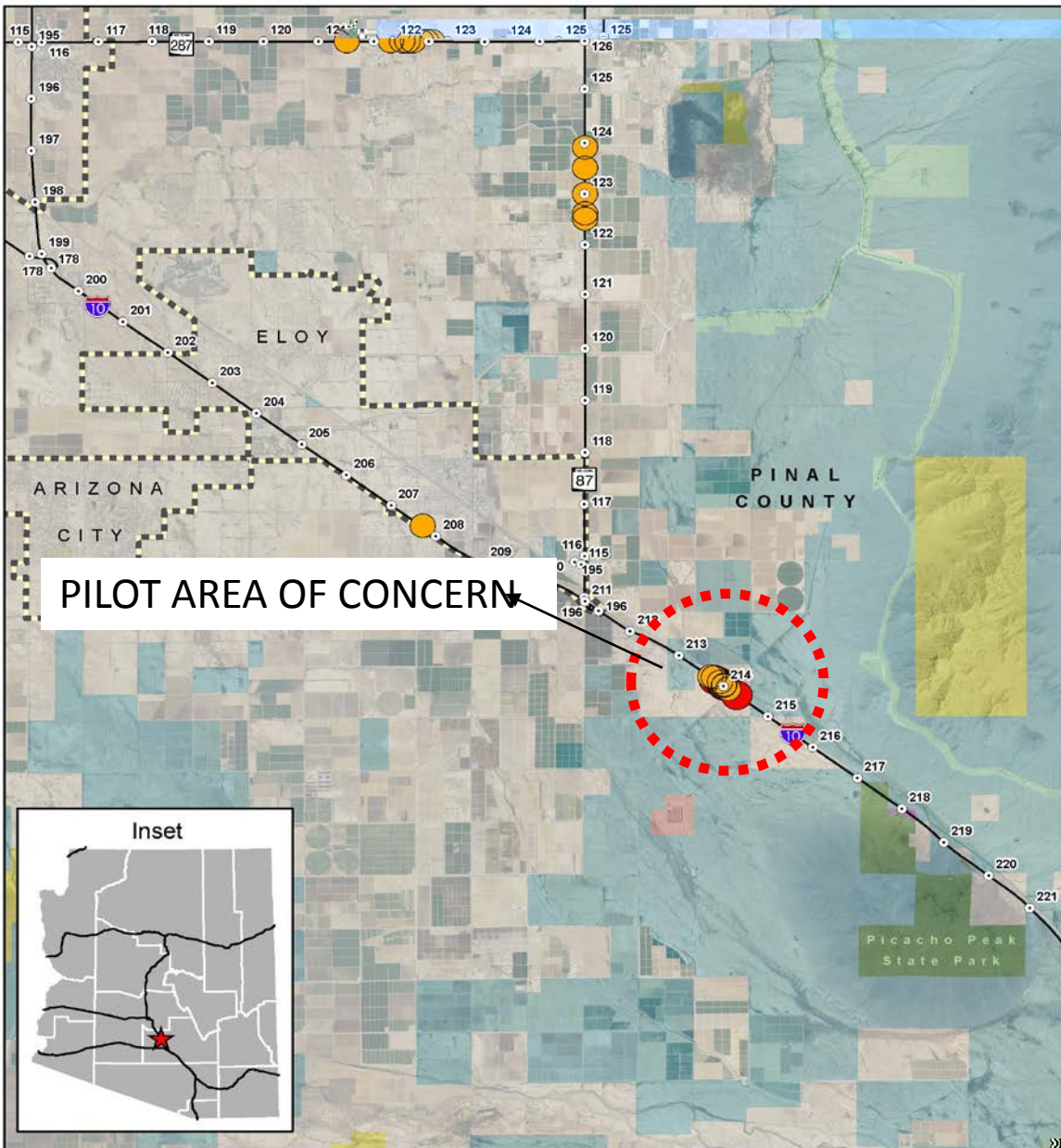
AZ State Lands Department

New Mexico DOT *(added to email list Fall 2017)*

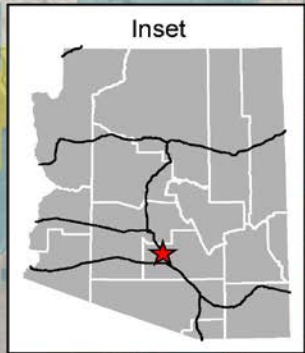
I-10 Dust Group Participation

Meeting Attendees





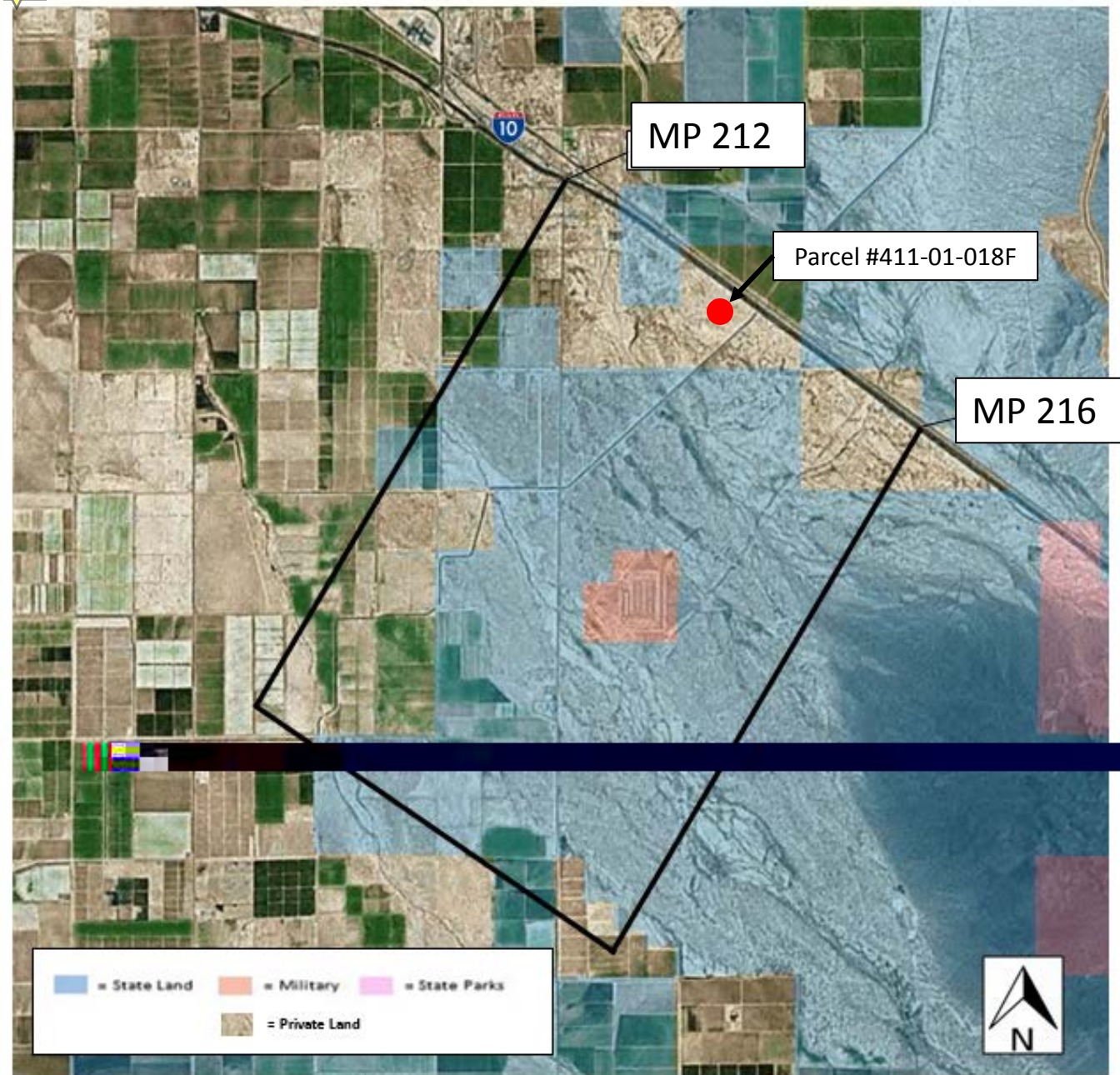
**Problem
Being Solved:**
*Wind blown
dust creates
hazardous
driving and
health
conditions
along the I-10
corridor*







Dust Related Car Crashes (1991-2015)



I-10 Dust Group Pilot Focus Area Scope Land Ownership



- Partners currently collecting data to confirm land activities and soil type in focus area. 
- Identify root cause(s) of dust impacting I-10 in scope area. (January meeting) 
- Identify solution projects to mitigate dust root cause(s) to be implemented. (February/March meeting)
 - Identify resource/funding needs and sources 
 - Establish or determine existing private landowner/agency partnerships to assist in project implementation 

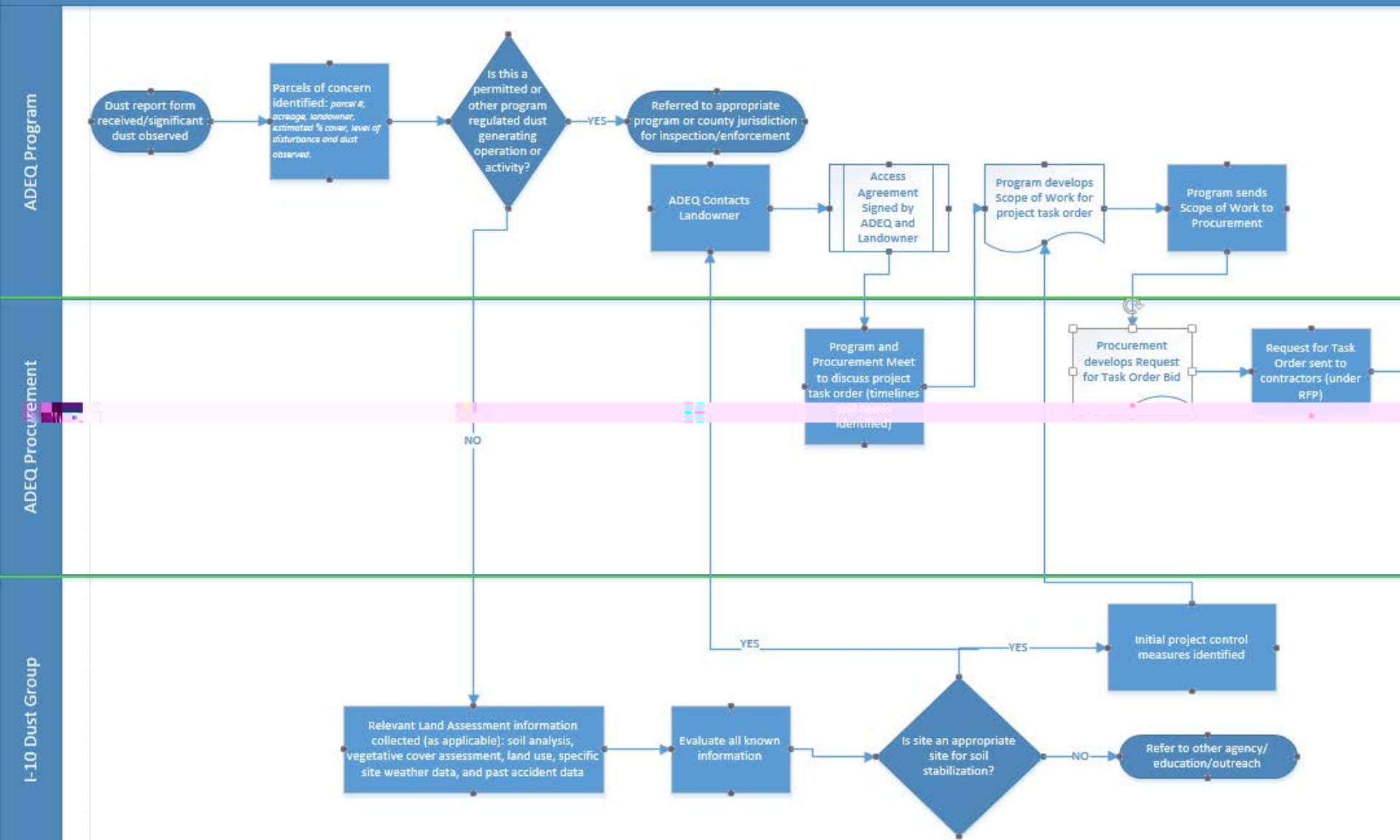


= Items Completed in 2017

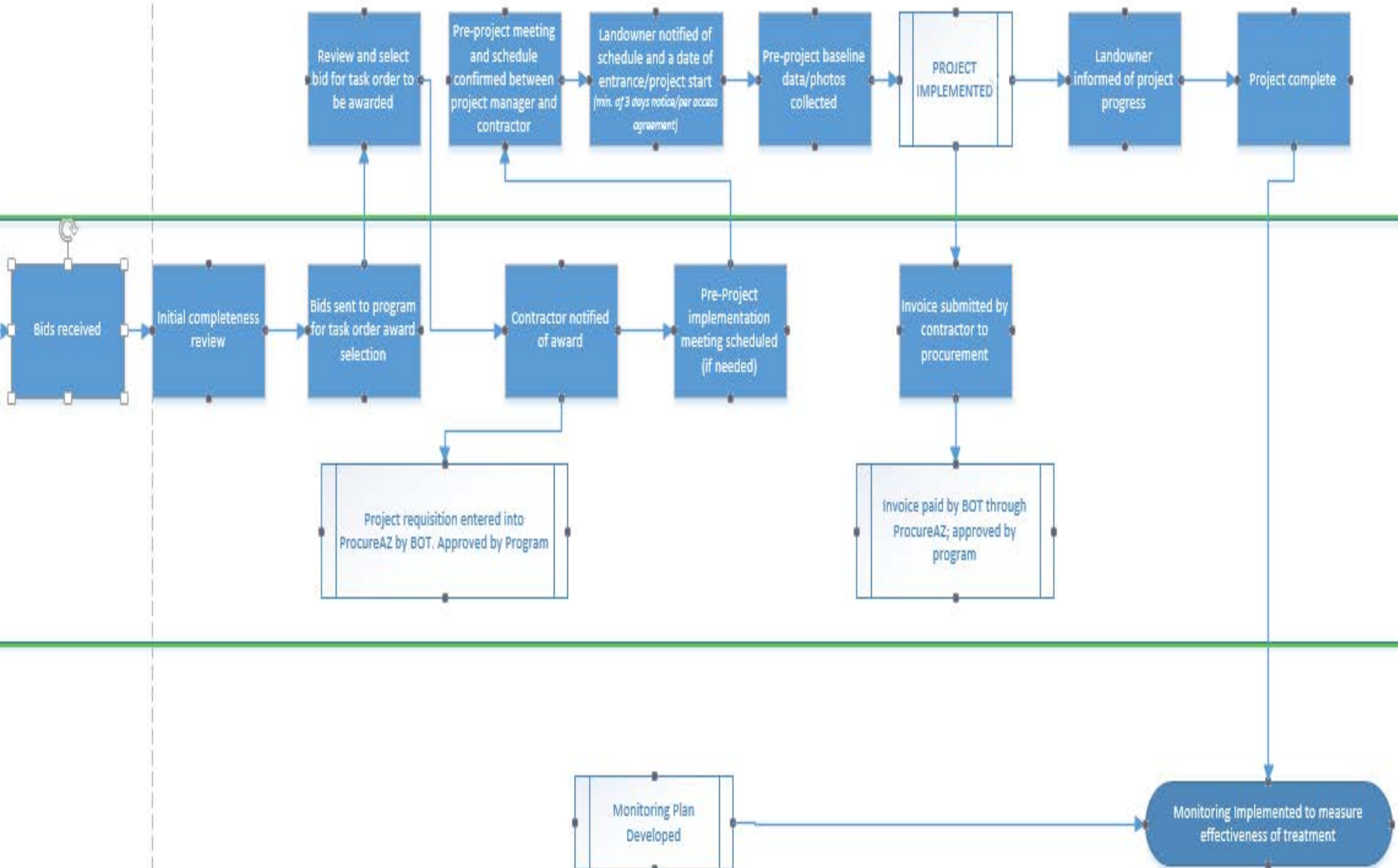
- ADEQ established a funding resource for mitigation projects
- Developed and began using the Dust Report Form
- Established I-10 Dust Group Process for Response and on the ground implementation of mitigation measures as appropriate
- Completed chemical dust stabilization pilot project at MM214
- Established monitoring pilot protocol for mitigation projects with chemical dust stabilization method used

Project Development Process

Dust Mitigation Project Process Flow



Project Development Process

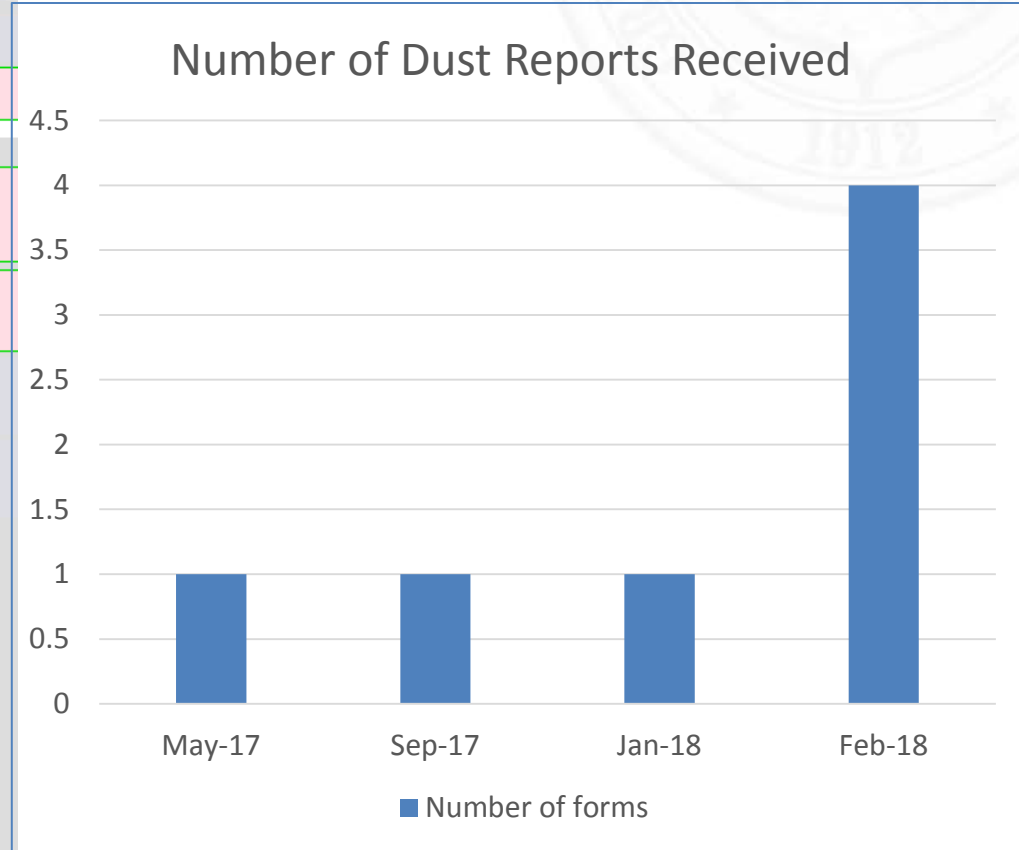


I-10 Dust Report Form

Dust Observation Form

Observer	Agency	Name
Email	Number	Phone
OBSERVATION DETAILS:		
Location		
Land Description		
Weather Conditions		
Dust Description		
Photo of Dust Observed		

Distributed in May 2017.
Used by DPS, ADOT and Pinal Co. SO

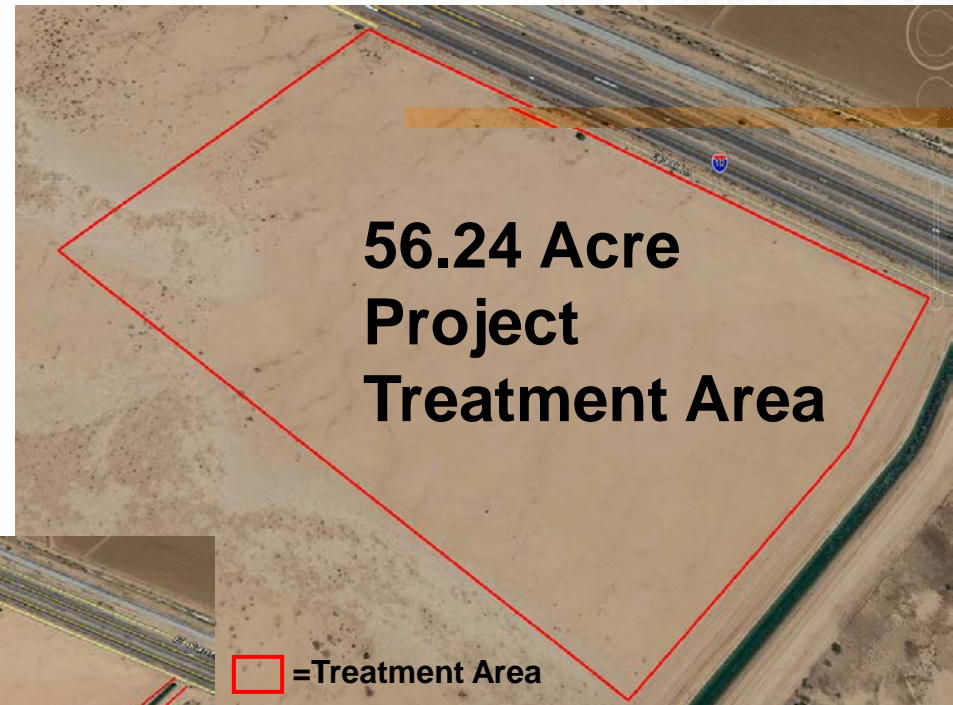
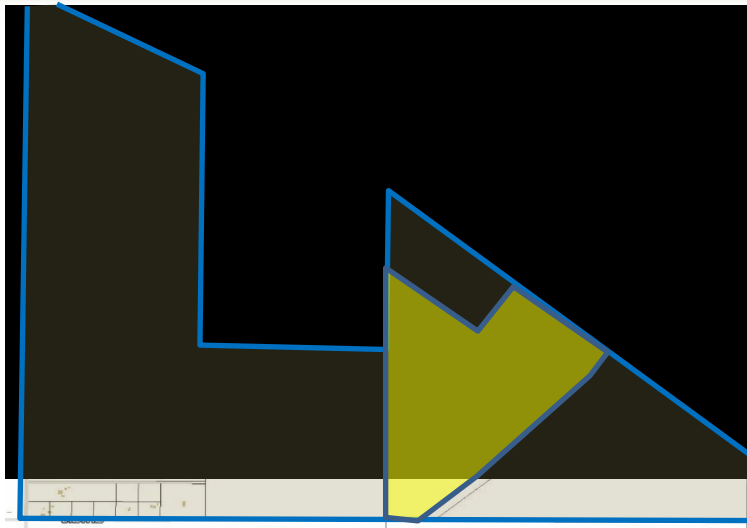


** Please email this form to I-10 Dust Group facilitators at ADEQ at ja9@azdeq.gov.

I-10 Dust Group Next Steps

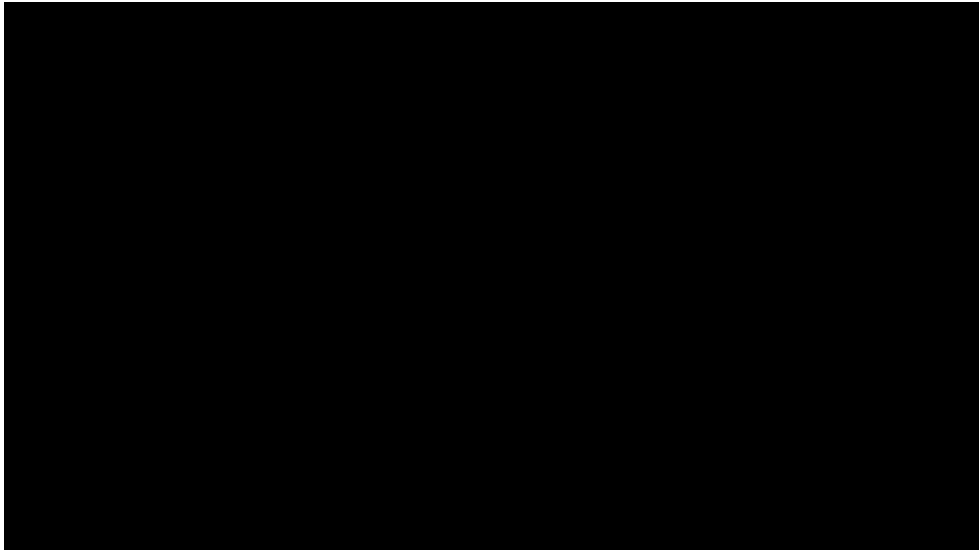
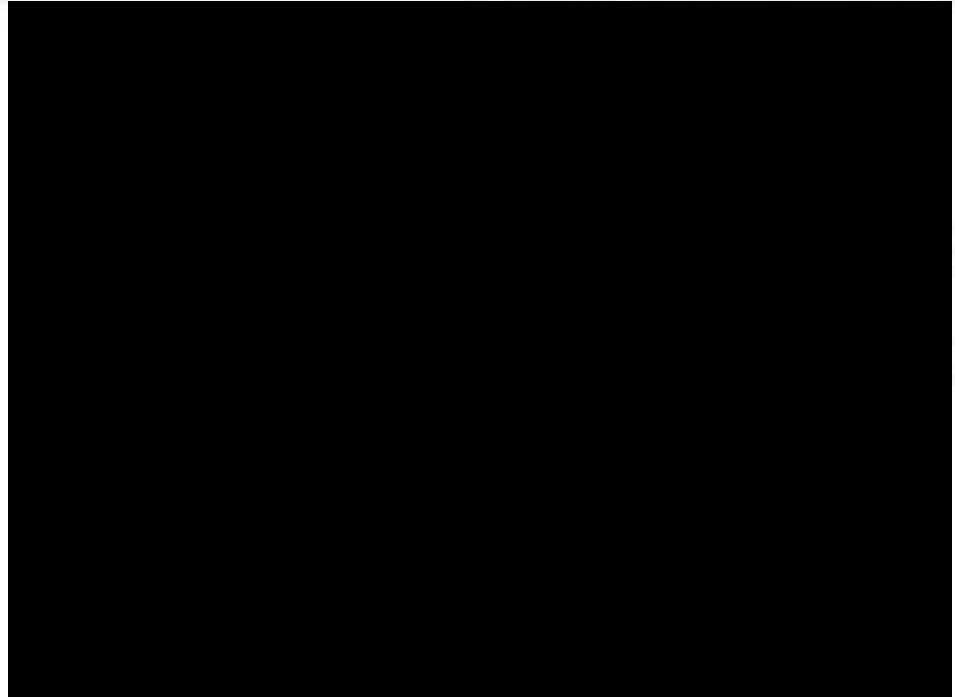
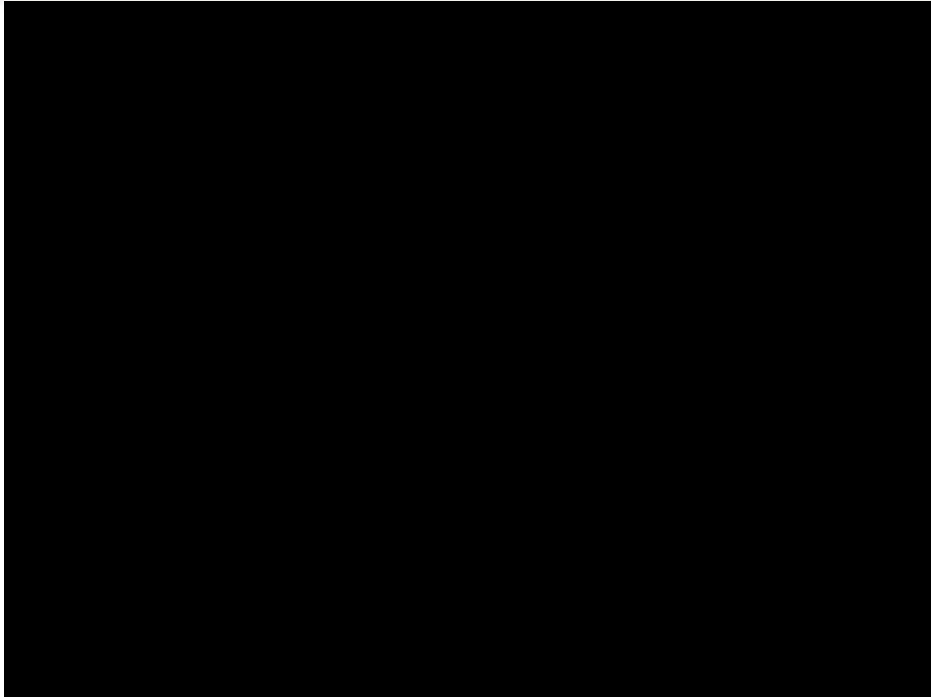
1. Identify new project areas – USE DUST REPORT FORM
2. Implement process and collect more data on sources for localized dust events impacting I-10
3. Continue monitoring success of MM214 Project

MM 214 Project



Parcel #411-010-018F
Landowner: Louis Tsakiris
162.38 Acres

MM 214 Pre-treatment



MM 214 Project

WHO: ADEQ Contract with Pinal County Dust Permit
Contractor: EarthCare Consultants

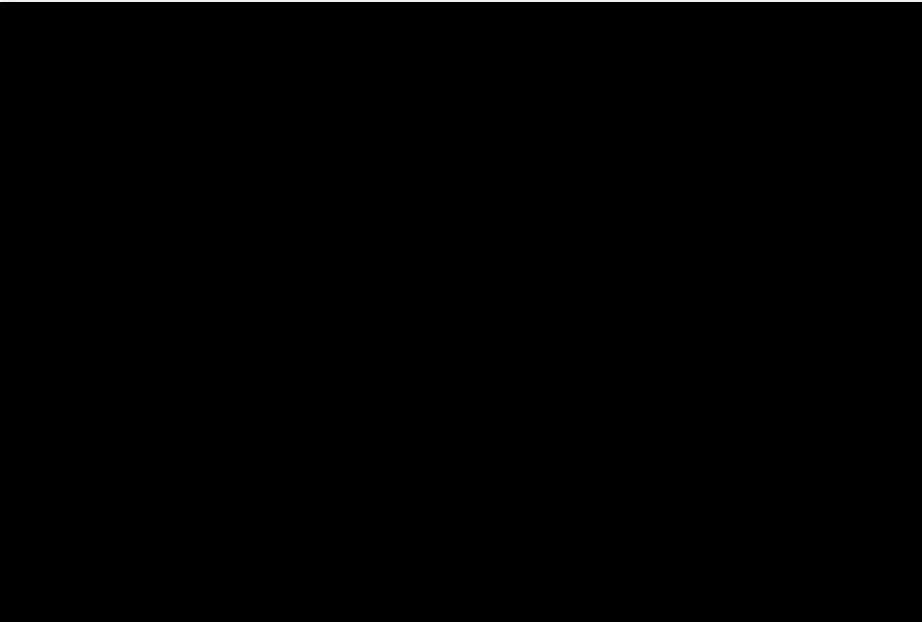
WHAT: Application of chemical dust stabilizer: Soil~Sement©



WHEN: September 15 – September 26, 2017

FUNDING: \$108,138.96

MM 214 During Treatment



09/20/2017 11:42

MM 214 Post Treatment

November 30, 2017

December 30, 2017



January 30, 2018

MILE POST 214 TREATMENT MONITORING

Scott DiBiase
Pinal County Air Quality Control
February 27, 2018



MP214 Pretreatment

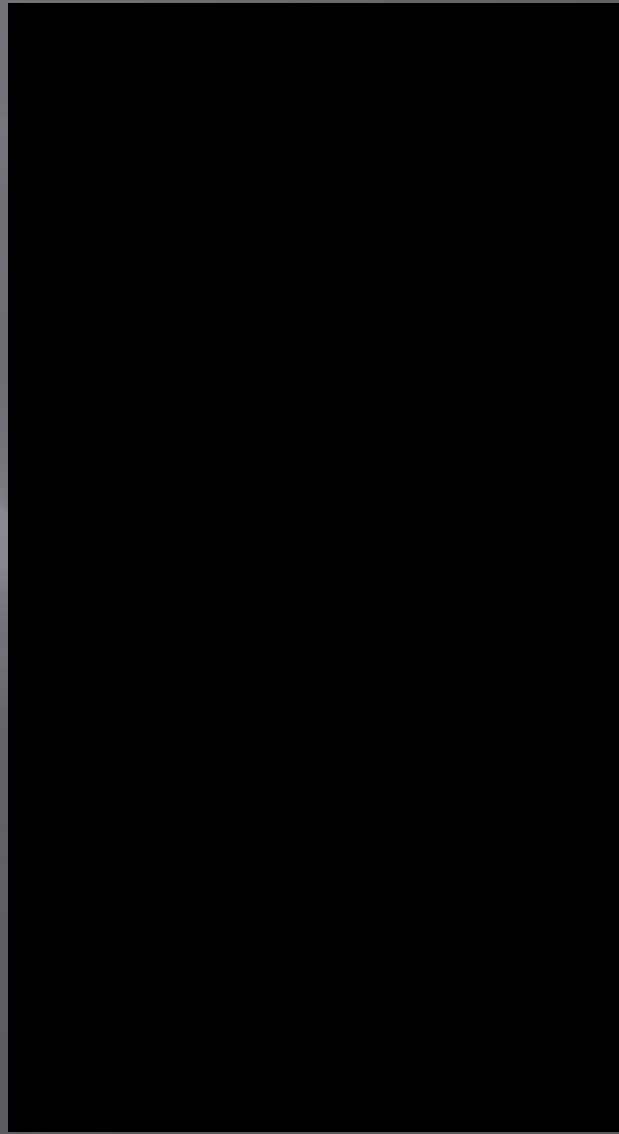


MP 215 Monitoring

- ▣ Post application monitoring in coordination with U of A – Joey Blankenship & Jayson Fields
- ▣ Goals:
 - determine treatment longevity
 - soil influx
- ▣ BSNE (Big Spring Number Eight) passive saltation monitors
- ▣ Gravimetric analysis after collection
- ▣ 6 Monitors deployed Fall 2017 (3 on treatment, 3 off treatment)

Monitoring Locations





Results to Date

- ▣ Monthly sample collection
- ▣ 10/18/17 - Installed
- ▣ 11/20/17 - No accumulation
- ▣ 12/18/17 - No accumulation (water in samplers due to rain)
- ▣ 1/30/18 - No accumulation

QUESTIONS?

