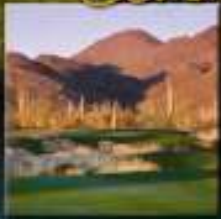


# Town of Marana Stormwater Ordinance and Common Mistakes

May 5, 2009

*Committed to the future...*



*Inspired by our past*

# Topics

- Regulatory Overview
- Town's Ordinance
  - Differences
- Common Mistakes SWPPP
- Inspections
- Common Mistakes – Implementation
- Final Stabilization
- Questions



# Regulatory Overview

Federal Regulations/EPA



State Regulations/ADEQ



Local Municipality Regulations



Operators



# Regulatory Overview

- Town of Marana - Phase II Small Municipal Separate Storm Sewer System (MS4)
- Developed Stormwater Management Program by March 2003
- Comply with MS4 General Permit – Six Minimum Control Measures
  - Title 25 of the Land Development Code



# Ordinance Background

- Internal draft developed in December 2006
- Series of internal meeting to discuss draft beginning in January 2007
- Workshop held February 3, 2007
  - Solicited stakeholder feedback and comments
  - Received 140 comments
- Presented to SAHBA SWPPP Subcommittee February 13, 2007



# Ordinance Background Cont'd

- Addressed all comments received
- Sent out response to comments and revised draft June 2007
- Revised draft to Town Attorney's office June 2007
- Adopted September 2007
- Revised April 2008 after reissuance of ADEQ AZPDES Construction General Permit



# Ordinance Overview

- Prohibition of Non-Stormwater Discharge to the MS4
  - Includes exemptions
- Operating Facilities or Activities
  - Any facility regulated under the Arizona Pollutant Discharge Elimination System
- Construction Sites
  - Over 1 acre in size or part of a common plan of development
  - Includes exemptions



# Ordinance Overview (cont'd)

- Stormwater Pollution Prevention Plans
  - Process for submittals and Town reviews
- Maintenance of Stormwater Facilities
  - Requirements for reporting
- Inspections
  - Private and public construction projects
- Enforcement and Penalties
  - Tiered approach
  - Provides for civil and/or criminal penalties





# Town Ordinance Differences

- Town does not accept waivers
- Town requires protection basins with a retention component
  - Applies to permanent basins that are used as temporary sediment basins during construction



# Operator Responsibilities

- Prepare a site-specific Stormwater Pollution Prevention Plan (SWPPP)
- Submit to the Town of Marana for review and approval
- Submit NOI
  - Copy of authorization to Town
- Implement Best Management Practices (BMPs)
- Submit Notice of Termination (NOT)
  - Copy of acknowledgement to Town



# SWPPP Review - Common Mistakes

- Not site-specific
- Only sediment controls identified and not erosion controls as well
- References 2003 CGP
- Excessive BMPs – wrap your site in silt fence
- Inadequate BMPs identified in concentrated flow areas
- Incorrect certification statement



# Inspections

- Town inspects each construction site at least once during the active construction period
- Based on inspection, Town will follow-up with:
  - Letter of Compliance
  - Notice to Correct
  - Notice of Violation
  - Stop Work Order



# Enforcement

- Actions since October 2007
  - 48 sites inspected
  - 35 Notices to Correct
  - 13 Notices of Violation
  - 1 court case with fines



# Common Mistakes On-Site

- SWPPP Document
  - Location of SWPPP
  - Records not up to date
    - Field modification changes
    - Inspection records



# Common Mistakes On-Site

- BMPs
  - Improperly Installed
  - BMPs installed in the wrong locations
    - On top of hills
    - In 404 washes
    - In concentrated flows
- Good housekeeping
- Lack of signage



# SWPPP Sign







# Silt Fence installation



# Silt Fence in concentrated flow



# Straw Wattle in concentrated flow



# Check Dam – Sand Bags in concentrated flow



# Check Dam – Sand Bags in concentrated flow



# Filter SOXX – Not maintained



# Final Stabilization

- Must have the following to Submit NOT:
  - Final stabilization achieved on all portions of the site
  - Another operator assuming control
  - for residential construction - transfer to HOA or homeowner
- Submit NOT acknowledgement to Town



# Questions

- What's wrong with this Picture?

