



Introduction to the ADOT Erosion and Pollution Control Manual

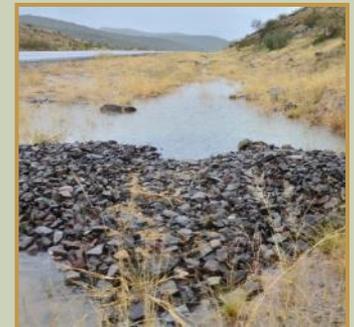
This presentation complements the ADOT Erosion and Pollution Control Manual for Highway Design and Construction (EPCM). It provides a general overview of EPCM content.

2012

This self-paced presentation is designed for individual use or for small group presentations where discussion can be accommodated. It is helpful to have the EPCM as a reference when viewing the tutorial.

Navigating the tutorial:

Click once to advance from slide to slide.



ADEQ	Arizona Department of Environmental Quality
ADOT	Arizona Department of Transportation
AZCGP	Arizona Construction General Permit
AZPDES	Arizona Pollutant Discharge Elimination System
BMP	Best Management Practice
EPCM	Erosion and Pollution Control Manual
ECC	Erosion Control Coordinator
EPA	Environmental Protection Agency
Engineer	ADOT Resident Engineer or Resident Landscape Architect
FCGP	Federal Construction General Permit
NOI	Notice of Intent
NOT	Notice of Termination
SWPPP	Stormwater Pollution Prevention Plan



Stormwater Tutorials available via the ADOT Roadside Development Section website include:

- ADOT Erosion and Pollution Control Manual
- Mastering the SWPPP
- Stormwater Best Management Practices Implementation

http://www.azdot.gov/Highways/Roadway_Engineering/Roadside_Development/Resources.asp



Welcome to the ADOT Stormwater Best Management Practices (BMP) Implementation Tutorial

This presentation complements the ADOT Erosion and Pollution Control Manual for Highway Design and Construction (EPCM). It focuses primarily on **HOW** to implement stormwater BMPs on a construction site. Prior knowledge and experience with ADOT Stormwater BMPs and the EPCM will enhance understanding of the material presented in this tutorial.

2012

ADOT TUTORIAL: STORMWATER BEST MANAGEMENT PRACTICES IMPLEMENTATION



Welcome to the ADOT Mastering the SWPPP Tutorial

This presentation covers the fundamentals of Stormwater Pollution Prevention Plans, including available resources, key roles, processes, and common SWPPP omissions. The Tutorial complements the ADOT SWPPP Template.

2012

ADOT TUTORIAL: MASTERING THE SWPPP

Resources available on the ADOT Stormwater Website include:

- ADOT SWPPP Template and Instructions
- ADOT Statewide Stormwater Discharge Permit
- ADOT Maintenance and Facilities BMP Manual
- Outstanding, Impaired, and Not-Attaining Waters Maps by County

http://www.azdot.gov/inside_adot/OES/Water_Quality/Stormwater/index.asp

Additional Stormwater Resources:

- ADEQ Water Quality Division (Smart NOI System, Permits)

<http://www.azdeq.gov/environ/water/permits/index.html>

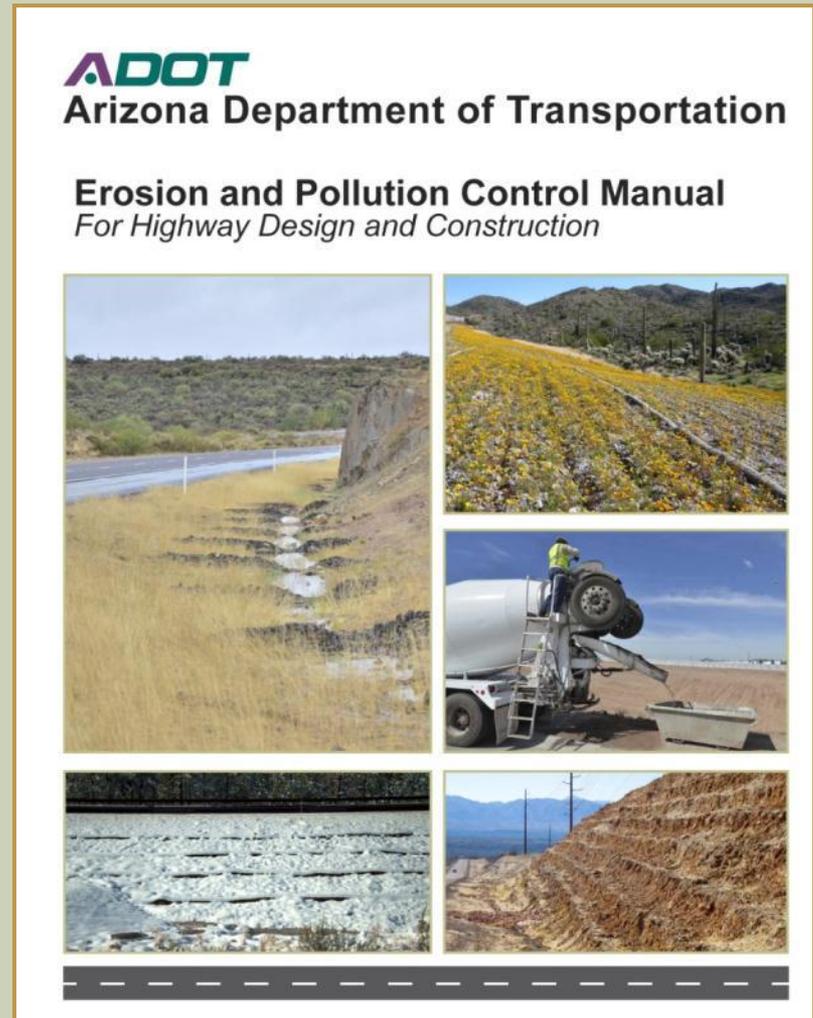
- EPA "Developing Your Stormwater Pollution Prevention Plan – A Guide for Construction Sites"

<http://www.epa.gov/npdes/swpppguide>

ADOT Erosion and Pollution Control Manual

EPCM Content

- Chapter 1: Introduction
- Chapter 2: Project Planning and Design Guide
- Chapter 3: Instructions for Obtaining Stormwater Discharge Permit Authorization for ADOT Construction Projects
- Chapter 4: Stormwater Pollution Prevention Plans
- Chapter 5: Best Management Practices



1

Introduction

Highway Construction and Stormwater Quality

Stormwater runoff from highway construction activities is a primary source of soil erosion and generation of sediment.

Purpose of the EPCM

- Provide an overview of water quality regulations and permits.
- Outline ADOT's procedures for complying with water quality regulations and permits.
- Provide a "tool box" of construction BMPs, and guidance for selection, implementation, and maintenance.



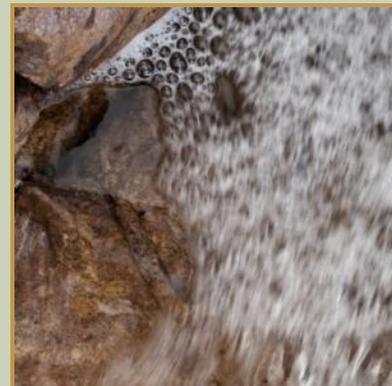
1

Introduction

Water Quality Regulations and Permits

All ADOT construction projects must comply with federal, state and local water quality regulation and permit requirements.

- Clean Water Act (CWA)
- Other AZPDES Permits
- Aquifer Protection Program Permit (ADEQ)
- Additional Federal Land Requirements
- Local Government Requirements

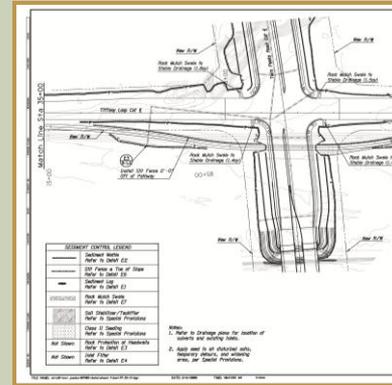


2

Project Planning and Design Guide

Introduction

- Effective erosion and pollution control is ongoing through project establishment and maintenance.
- Low Impact Design (LID) strategies can help meet stormwater management goals.



Project Planning & Design

- The Engineer and Landscape Architect work together to minimize impacts to water quality.
- Erosion and Pollution Control Plans are developed that provide general direction and specific BMP expectations to the Contractor.



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Project Planning and Design Guide

Best Management Practices

A BMP is an Operational Activity or Physical Control that reduces the discharge of pollutants and minimizes potential impacts upon receiving waters. This manual focuses on Construction BMPs, which are used during the construction process.

AT A GLANCE

GENERAL INFORMATION	RATINGS	H	M	I	L
Key Design Considerations	Associated Costs				
<ul style="list-style-type: none"> Soils need to be appropriate for infiltration Locate to minimize potential for groundwater contamination Use for drainage areas of 5 acres or less 	Design: X Construction: X Maintenance: X				
Alternate BMPs to consider:	BMP Objectives				
<ul style="list-style-type: none"> SC-1 Sediment Control Berm 	Erosion Control: X Runoff Control: X Sediment Control: X Good Housekeeping: X Non-Stormwater: X				
Use in combination with:	Waste Management				
<ul style="list-style-type: none"> RC-1 Earth Dams/Drainage Swales and Lined Ditches RC-4 Rock Outlet Protection/Velocity Dissipation Devices RC-6 Slope Drain SC-6 Sediment Wall SC-7 Gravel Bay Protection 					
Maintenance Needs:					
<ul style="list-style-type: none"> Inspect after storm events to ensure functionality Repair eroded areas or re-evaluate placement if erosion occurs frequently or install additional BMPs Remove accumulated sediment when 50% capacity is reached 					



Small sediment trap



Sediment trap with rock protection

DEFINITION:
The carefully planned protection of in place, undisturbed trees and natural vegetated areas within the construction site right-of-way.

PURPOSE:

- Minimize the amount of bare soil exposed to erosion factors
- Reduce soil erosion, sediment transport and tracking
- Reduce maintenance
- Provide buffers, screens and aesthetic values
- Provide stormwater detention, infiltration and fully developed habitat for wildlife

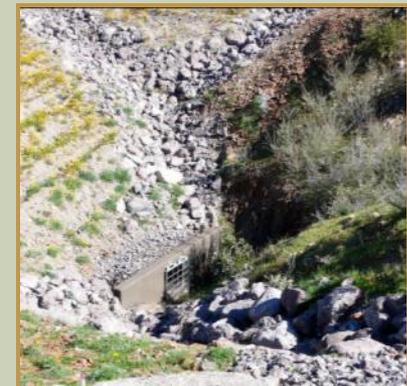
AT A GLANCE

GENERAL INFORMATION	RATINGS	H	M	I	L
Key Design Considerations	Associated Costs				
<ul style="list-style-type: none"> Implement best-practice grading practices required for slope staking per plans Identify and protect native vegetation to preserve Provide erosion control Locate temporary roads and staging areas to avoid vegetation Maintain pre-construction storage areas 	Design: X Construction: X Maintenance: X				
Alternate BMPs to consider:	BMP Objectives				
<ul style="list-style-type: none"> SC-1 Sediment Control Berm SC-2 Silt Fence SC-3 Silt Fence SC-4 Silt Fence SC-5 Silt Fence SC-6 Silt Fence SC-7 Gravel Bay Protection SC-8 Silt Fence SC-9 Silt Fence SC-10 Silt Fence SC-11 Silt Fence SC-12 Silt Fence SC-13 Silt Fence SC-14 Silt Fence SC-15 Silt Fence SC-16 Silt Fence SC-17 Silt Fence SC-18 Silt Fence SC-19 Silt Fence SC-20 Silt Fence SC-21 Silt Fence SC-22 Silt Fence SC-23 Silt Fence SC-24 Silt Fence SC-25 Silt Fence SC-26 Silt Fence SC-27 Silt Fence SC-28 Silt Fence SC-29 Silt Fence SC-30 Silt Fence SC-31 Silt Fence SC-32 Silt Fence SC-33 Silt Fence SC-34 Silt Fence SC-35 Silt Fence SC-36 Silt Fence SC-37 Silt Fence SC-38 Silt Fence SC-39 Silt Fence SC-40 Silt Fence SC-41 Silt Fence SC-42 Silt Fence SC-43 Silt Fence SC-44 Silt Fence SC-45 Silt Fence SC-46 Silt Fence SC-47 Silt Fence SC-48 Silt Fence SC-49 Silt Fence SC-50 Silt Fence 	Erosion Control: X Runoff Control: X Sediment Control: X Good Housekeeping: X Non-Stormwater: X				
Use in combination with:					
<ul style="list-style-type: none"> SC-1 Sediment Control Berm SC-2 Silt Fence SC-3 Silt Fence SC-4 Silt Fence SC-5 Silt Fence SC-6 Silt Fence SC-7 Gravel Bay Protection SC-8 Silt Fence SC-9 Silt Fence SC-10 Silt Fence SC-11 Silt Fence SC-12 Silt Fence SC-13 Silt Fence SC-14 Silt Fence SC-15 Silt Fence SC-16 Silt Fence SC-17 Silt Fence SC-18 Silt Fence SC-19 Silt Fence SC-20 Silt Fence SC-21 Silt Fence SC-22 Silt Fence SC-23 Silt Fence SC-24 Silt Fence SC-25 Silt Fence SC-26 Silt Fence SC-27 Silt Fence SC-28 Silt Fence SC-29 Silt Fence SC-30 Silt Fence SC-31 Silt Fence SC-32 Silt Fence SC-33 Silt Fence SC-34 Silt Fence SC-35 Silt Fence SC-36 Silt Fence SC-37 Silt Fence SC-38 Silt Fence SC-39 Silt Fence SC-40 Silt Fence SC-41 Silt Fence SC-42 Silt Fence SC-43 Silt Fence SC-44 Silt Fence SC-45 Silt Fence SC-46 Silt Fence SC-47 Silt Fence SC-48 Silt Fence SC-49 Silt Fence SC-50 Silt Fence 					
Maintenance Needs:					
<ul style="list-style-type: none"> Maintain fencing Inspect vegetation for signs of stress and address as necessary Repair or replace damaged vegetation immediately 					




Erosion and Sediment Control and Good Housekeeping Principles

These principles are the foundation for successful erosion and pollution control. They drive planning, design, construction and maintenance of erosion and pollution control measures.



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Project Planning and Design Guide

Applying The Principles

- A successful project is the result of effective planning and cooperation amongst many team members.
- Refer to the EPCM for suggested erosion and pollution control roles of planners, designers and contractors.



Construction BMP Selection Guide

- Identify and evaluate potential erosion and pollutant sources.
- Using the Principles, develop a list of BMPs considering site conditions, appropriateness, and cost.



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Obtaining Stormwater Discharge Permit Authorization

Introduction

- ADOT is authorized to discharge stormwater to the waters of the US under a Statewide Stormwater Discharge Permit issued by ADEQ.
- Contractors working under contract to ADOT must obtain authorization to discharge stormwater under the AZPDES Arizona Construction General Permit.
- Erosion and pollution control is a shared obligation among ADOT, the general contractor, and subcontractors.

State of Arizona
Department of Environmental Quality
Water Quality Division

**ARIZONA DEPARTMENT OF TRANSPORTATION STATEWIDE PERMIT
FOR DISCHARGE TO WATERS OF THE UNITED STATES
UNDER THE ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM PROGRAM**

This permit provides authorization to the following Permittee to discharge stormwater under the Arizona Pollutant Discharge Elimination System (AZPDES) program, in compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Article 3.1; Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 9 and 10; and the Clean Water Act, as amended (33 U.S.C. 1251 et seq.).

**Arizona Department of Transportation
206 South 17th Avenue
Phoenix, Arizona 85007**

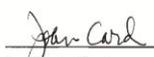
The Permittee, hereinafter known as ADOT, is authorized statewide (except for Indian Country) to discharge stormwater and other discharges specified in this permit from the following listed activities and facilities to waters of the United States in Arizona according to the terms and conditions in this permit:

1. Activities associated with the municipal separate storm sewer system (MS4) operated by ADOT;
2. Activities associated with construction from the "commencement of construction activities" until "final stabilization," that are initiated and controlled by ADOT during this permit term; and
3. Facilities associated with industrial and maintenance activities owned and operated by ADOT.

This stormwater discharge permit supersedes ADOT's coverage under the Phase I municipal stormwater permit issued by USEPA on September 30, 1999, and ADOT's coverage under both the AZPDES Construction General Permit and the AZPDES Multi-Sector General Permit.

This permit is effective on September 19, 2008.

This permit and the authorization to discharge expire at midnight, September 18, 2013.



Joan Card, Director
Water Quality Division
Arizona Department of Environmental Quality
Signed this 15th day of August, 2008

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Obtaining Stormwater Discharge Permit Authorization

Step 1: Prepare A SWPPP

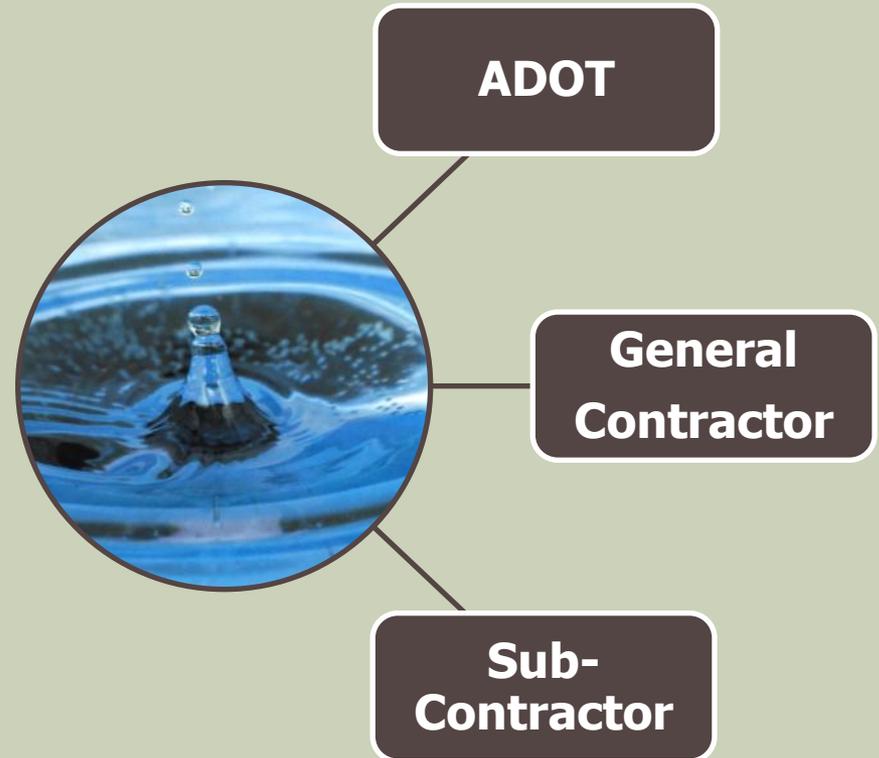
- A complete SWPPP shall be developed by the ECC using the design team's Erosion and Pollution Control Plans as a guide.

Step 2: Certify The SWPPP

- ADOT, the general contractor and any subcontractors responsible for constructing erosion and pollution controls must certify the SWPPP.

Step 3: Submit Notice of Intent (NOI)

- The NOI serves as a promise that the operator(s) will comply with the AZCGP.



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Obtaining Stormwater Discharge Permit Authorization

Step 4: Retain Documents at the Job Site

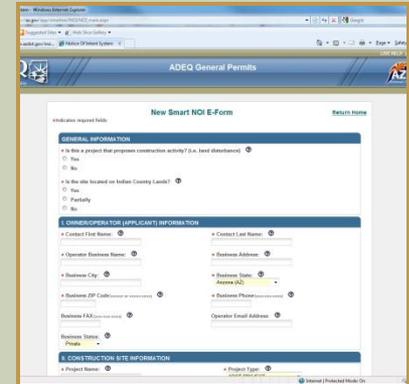
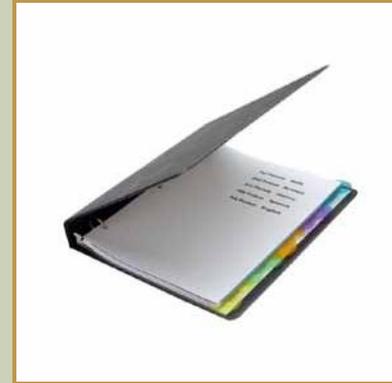
- The EPCM lists a number of documents that must be kept with the SWPPP on the job site.

Step 5: Implement The SWPPP

- The SWPPP may be implemented after the NOI is accepted. The Engineer and contractor are jointly responsible for implementation.

Step 6: Inspect BMPs Regularly

- Regular site inspection will ensure that BMPs are functioning properly and that the SWPPP is properly maintained.

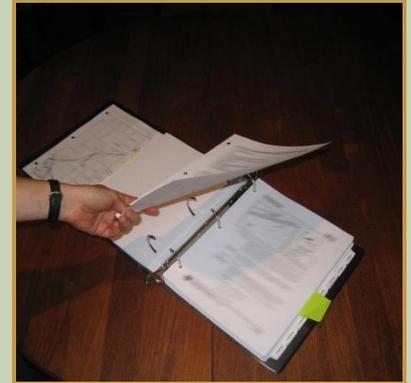


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Obtaining Stormwater Discharge Permit Authorization

Step 7: Adjust the SWPPP to Fit Site Conditions

- The operator shall complete follow-up actions based on results of the inspection process.



Step 8: Maintain an Updated SWPPP

- The SWPPP must be kept current with changes made in the field.



Step 9: Maintain the BMPs

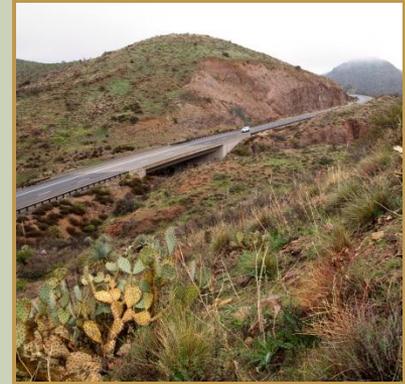
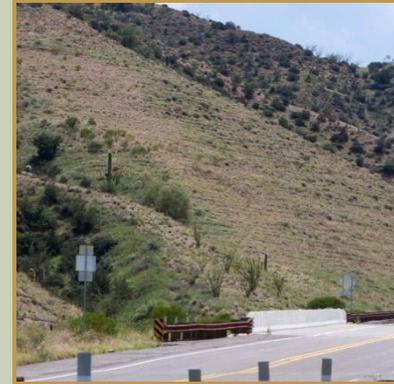
- All erosion and pollution control measures identified in the SWPPP must be maintained in effective operational condition.

3

Obtaining Stormwater Discharge Permit Authorization

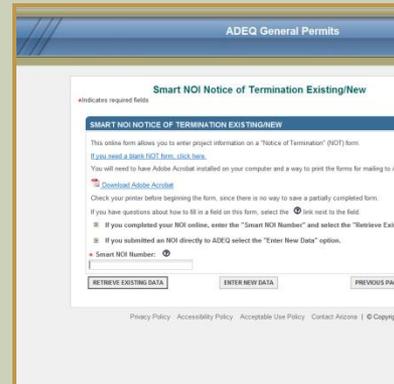
Step 10: Evaluate Job Site To Determine Final Stabilization

- Soil-disturbing activities are complete, vegetative cover is established and permanent stabilization measures are operational.



Step 11: Submit Notice of Termination (NOT)

- Submitted to ADEQ after project has met final stabilization or ADOT assumes NOI responsibility.



Step 12: Retention of Records

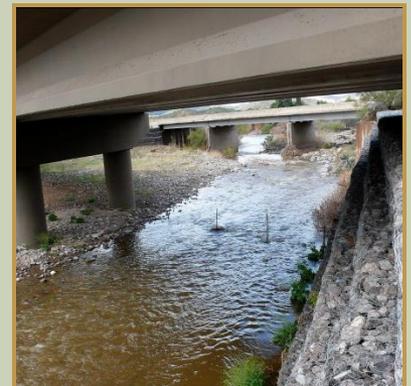
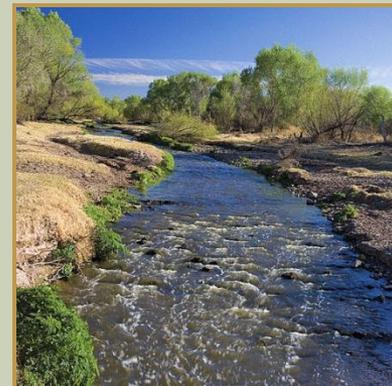
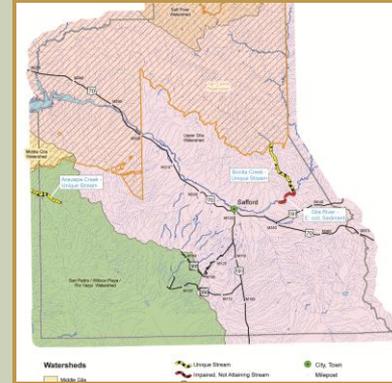
- Contractor shall retain copies of SWPPP for at least three (3) years from the date of NOT filing.

3

Obtaining Stormwater Discharge Permit Authorization

Special Conditions, Requirements and Exceptions.

- Indian Country.
- Post-Construction Discharges.
- Discharges Mixed with Non-Stormwater.
- Discharges Covered by Another AZPDES Permit.
- Projects located within ¼ mile of Impaired or Outstanding Waters.
- Batch Plants, Borrow Pits and Material Pits.
- Small Construction Activities.



4

Stormwater Pollution Prevention Plans

Introduction

- SWPPP preparation is the first step toward obtaining the CGP authorization.
- Draft SWPPP must be submitted within 14 days of ECC approval.
- ADOT Construction SWPPP Template provides step-by-step instructions.

Stormwater Pollution Prevention Plan

ADOT Project Name: _____
 Federal Aid No.: _____
 ADOT Project No.: _____
 Route: _____ Begin Milepost: _____ End Milepost: _____
 _____ Begin Latitude: _____ End Latitude: _____
 _____ Begin Longitude: _____ End Longitude: _____
 Provide the latitude/longitude of the construction site at the point nearest the receiving water: _____ Latitude: _____ Longitude: _____
 Submittal Number: _____ 1 Date: _____
 _____ 2 Date: _____
 _____ 3 Date: _____
 Identify receiving water: _____
 Is this project located within 1/4 mile of unique or impaired waters? Yes No

Prepared for: _____

 Prepared by: _____

 Owner: _____



Permit Related Documents

- The EPCM contains a list of permit-related records to include in the SWPPP.

Chapter 4: SWPPP Development—Selecting Erosion and Sediment Control BMPs

This document is not intended as an engineering or design manual on BMPs. The engineer or other qualified person that develops the details of your sediment and erosion control plan should be using the appropriate state or local specifications. The descriptions below provide a kind of checklist of the things to look for and some helpful installation and maintenance hints.

Erosion and sediment controls are the structural and non-structural practices used during the construction process to keep sediment in place (erosion control) and to capture any sediment that is moved by movement before it leaves the site (sediment control). Erosion control—keeping soil where it is—avoids the heart of any effective SWPPP. Your SWPPP should rely on erosion controls as the primary means of preventing stormwater pollution. Sediment controls provide a necessary second line of defense to properly designed and installed erosion controls.

The suite of BMPs that you include in your SWPPP should reflect the specific conditions at the site. The information that you collected in the previous steps should help you select the appropriate BMPs for your site.

An effective SWPPP includes a combination of some of BMPs that are designed to work together.

Ten Keys to Effective Erosion and Sediment Control (ESC)

The ultimate goal of any SWPPP is to protect rivers, lakes, wetlands, and coastal waters that could be affected by your construction project. The following principles and tips should help you build an effective SWPPP. Keep in mind that there are many BMP options available to you. We have selected a few common BMPs to help illustrate the principles discussed in this chapter.

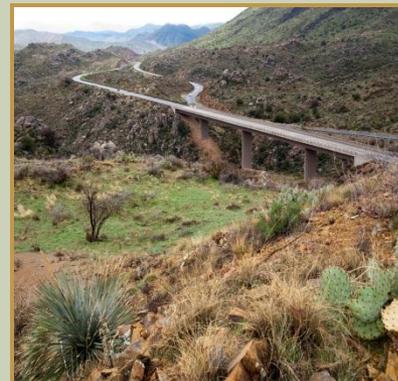
Erosion Control (Keeping the dirt in place) and Minimizing the Impact of Construction

1. Minimize disturbed area and protect natural features and soil
2. Phase construction activity
3. Control stormwater during sets and through the project
4. Stabilize soils promptly
5. Protect slopes

Sediment Controls (the second line of defense)

6. Protect down-drain sites
7. Establish perimeter controls
8. Retain sediment on site and control dewatering practices

Note: This chapter presents a brief discussion of erosion and sediment control principles and a discussion of some commonly used BMPs.



5

Best Management Practices

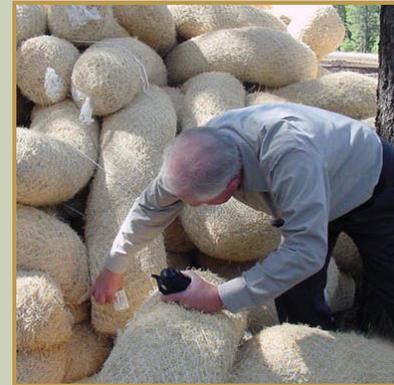
Introduction

- Each project has unique conditions that require appropriate BMPs.
- Erosion and pollution control BMPs evolve rapidly – check for updates.

Implementing Construction Site BMPs

Successful implementation of BMPs depends on:

- Thorough project site assessment.
- Combining BMPs to maximize erosion and pollution control.
- Inspection, maintenance and repair or replacement of BMPs.
- Proper employee training.
- Documentation of inspections, performance and maintenance.



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Best Management Practices

Construction Best Management Practices

BMP Categories and BMPs included in the EPCM.

CP	Construction Site Planning and Management
CP-1	Construction Sequencing
CP-2	BMP Inspection and Maintenance
EC	Erosion Control
EC-1	Preserve Existing Vegetation
EC-2	Minibenches/Slope Roughening
EC-3	Mulch Cover
EC-4	Seeding
EC-5	Geotextiles/Erosion Control Blankets
EC-6	Soil Binders
EC-7	Crown Ditch
RC	Runoff Control
RC-1	Earth Dikes/Drainage Swales and Lined Ditches
RC-2	Cut to Fill Slope Transitions
RC-3	Erosion Protection at Structures
RC-4	Rock Outlet Protection/ Velocity Dissipation Devices
RC-5	Slope Drains
RC-6	Check Dam
SC	Sediment Control
SC-1	Sediment Control Berm
SC-2	Silt Fence
SC-3	Sediment Trap
SC-4	Sediment Basin
SC-5	Sediment Wattle
SC-6	Sediment Log
SC-7	Gravel Bag Protection
SC-8	Storm Drain Inlet Protection
SC-9	Curb Inlet Protection
SC-10	Stabilized Construction Entrance/Exit
SC-11	Stabilized Construction Roadway

SC	Sediment Control, continued
SC-12	Compost Sock
SC-13	Rock Berm
GH	Good Housekeeping
GH-1	Vehicle and Equipment Cleaning
GH-2	Vehicle and Equipment Fueling
GH-3	Vehicle and Equipment Maintenance
GH-4	Street Sweeping and Vacuuming
GH-5	Material Delivery and Storage
GH-6	Material Use
GH-7	Stockpile Management
GH-8	Spill Prevention and Control
GH-9	Portable Toilet
NS	Non-Stormwater
NS-1	Water Conservation Practices
NS-2	Dewatering Operations
NS-3	Paving and Milling Operations
NS-4	Temporary Watercourse Crossing
NS-5	Water Diversion
NS-6	Structure Demolition/Removal Over or Adjacent to Water
NS-7	Material and Equipment Use In/Over Watercourses
WM	Waste Management
WM-1	Solid Waste Management
WM-2	Hazardous Waste Management
WM-3	Contaminated Soil Management
WM-4	Concrete Waste Management
WM-5	Liquid Waste Management

5

Best Management Practices

Construction Best Management Practices

- Construction Site Planning and Management BMPs.
 - Address construction sequencing and proper BMP inspection and maintenance.
- Erosion Control BMPs.
 - Consist of preparing the soil surface and applying BMPs to disturbed soil areas.
- Runoff Controls BMPs.
 - Used to intercept, direct, divert, convey, and discharge concentrated flows with a minimum of soil erosion.

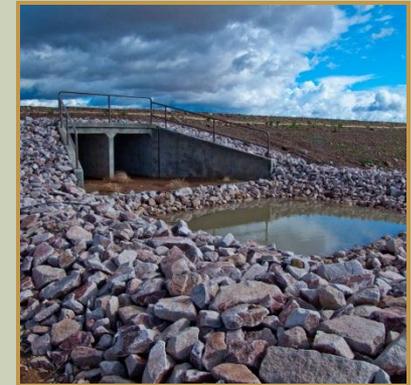


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Best Management Practices

Construction Best Management Practices

- Sediment Control BMPs.
 - Back-up control measures to erosion control BMPs to keep sediment from leaving the construction site.
- Good Housekeeping and Material Management BMPs.
 - Procedural and structural pollution prevention measures designed to prevent contamination of stormwater from a broad range of materials.



5

Best Management Practices

Construction Best Management Practices

- Non-stormwater Management BMPs.
- Waste Management BMPs.
- Both of these BMP categories are source control measures intended to prevent pollution by limiting or reducing potential pollutants at the source before they come in contact with stormwater.



A

Appendices

Appendices

- Appendix A: Abbreviations and Acronyms
- Appendix B: Definitions of Terms
- Appendix C: Reference Forms and Checklists
- Appendix D: 2-year, 24-hour precipitation isopluvials
- Appendix E: References and Resources
- Appendix F: Additional Photos
- Appendix G: Document Revision History

APP	Aquifer Protection Permit
ARS	Arizona Revised Statutes
AZCGP	Arizona Construction General Permit
AZGFD	Arizona Game and Fish Department
AZPDES	Arizona Pollutant Discharge Elimination System
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
BMP	Best Management Practice
CFR	Code of Federal Regulations
CGP	Construction General Permit
CORPS	United States Army Corps of Engineers

Arizona Construction General Permit (AZCGP)
Provides authorization to discharge under the Act specifically authorizes only discharges from construction and operators who meet eligibility requirements and conditions.

ADOT
The Arizona Department of Transportation as the manager of all its contractors and sub-contractors.

Arizona Pollutant Discharge Elimination System (AZPDES)
The Arizona Department of Environmental Quality's program for allowable discharges to waters of the United States. Candidates for coverage under the Arizona Construction General Permit include:

Aquifer Protection Permit (APP)
The Arizona Department of Environmental Quality's program for discharges directly or indirectly to an aquifer or to the land surface that may reach an aquifer in such a manner that the pollutant will reach an aquifer.

Arizona Revised Statutes
Statutory laws in the state of Arizona.

ADEQ Arizona Department of Environmental Quality

NOTICE OF INTENT (NOI)
for Construction Activity Discharges
to Waters of the United States under the
AZPDES Stormwater Construction General Permit
(AZG2008-001)

FOR COVERAGE, A COMPLETE AND ACCURATE NOI (INCLUDING REQUIRED FEE) MUST BE SUBMITTED TO:
Arizona Department of Environmental Quality, Surface Water Section / Stormwater and General Permits Unit
1119 West Washington Street, 4615A-1, Phoenix, Arizona 85007

This NOI is a revision to a project filed under the 2008 AZPDES Stormwater Construction General Permit? YES NO If Yes, complete the following:

- Provide your current authorization number: AZCON: _____
- Provide the name of the project site in Part 6 below. You do not need to complete the entire form. Provide only the information that is being changed from the original NOI.
- Complete the certification in Part VI (including signature of authorized signatory).

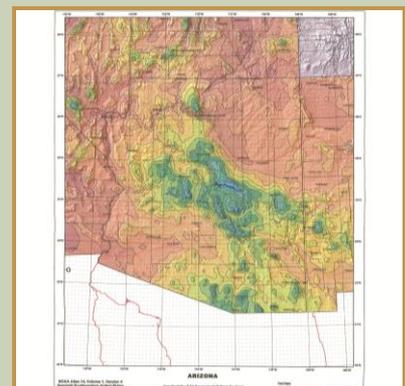
Is the site located on Indian Country Lands? YES NO

OPERATOR (Applicant) INFORMATION:

- Contact Name: _____
- Phone Number: _____ Fax Number: _____
- Operator's Business Name: _____
- Operator's Mailing Address: _____
- City: _____ State: _____ Zip Code: _____
- Business Type: General Retail Other Public Private _____

CONSTRUCTION SITE INFORMATION:

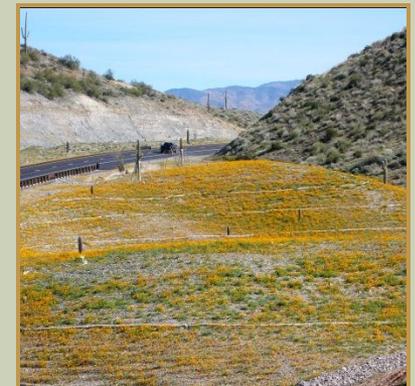
- Project Site Name: _____
- County Parcel No. (at main entrance): _____ Phone Number: _____



Key Points

The ADOT Erosion and Pollution Control Manual is a source for:

- Water quality regulations and permit information.
- Principles of erosion and sediment control.
- Construction BMPs.
- Links to online forms.
- Resource lists for additional sources of information.



ADOT Stormwater Tutorials

Watch more, Learn more...

Thank you for viewing the Introduction to the ADOT Erosion and Pollution Control Manual Tutorial.

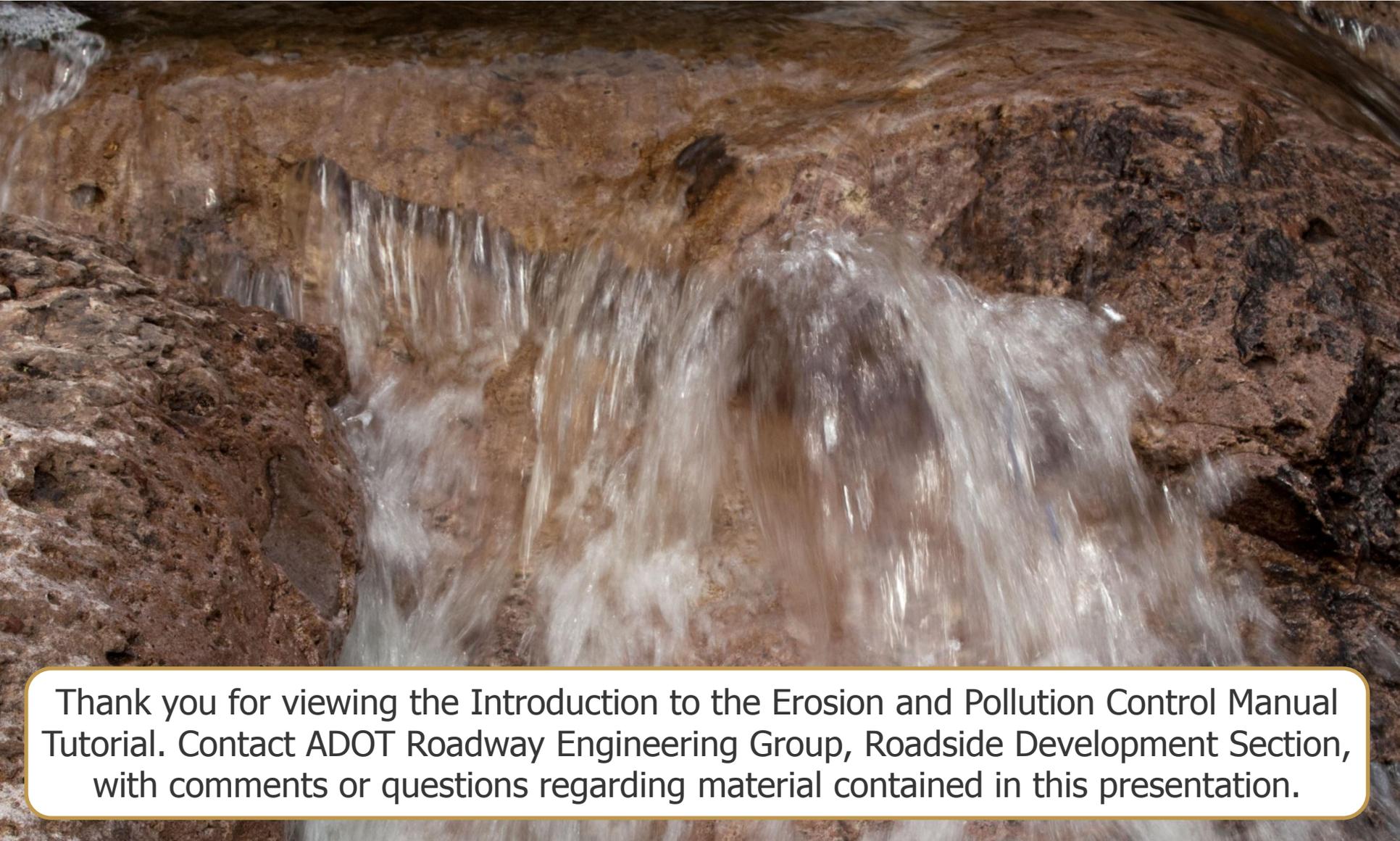
Stormwater Tutorials available via the ADOT Roadside Development Section website include:

- ADOT Erosion and Pollution Control Manual
- Mastering the SWPPP
- Stormwater Best Management Practices Implementation



http://www.azdot.gov/Highways/Roadway_Engineering/Roadside_Development/Resources.asp

Keep it Clean



Thank you for viewing the Introduction to the Erosion and Pollution Control Manual Tutorial. Contact ADOT Roadway Engineering Group, Roadside Development Section, with comments or questions regarding material contained in this presentation.