Chapter Overview Presentations

Twelve Chapter Overview presentations supplement the Guidelines document. Chapters 1-11 each have a Chapter Overview and an additional one summarizes appendices A-O.

These self-paced presentations are designed for individual use or for small group presentations where discussion can be accommodated. It is helpful to have the Guidelines document as a reference when viewing the presentations.


Navigate the Chapter Overview by scrolling through the pages.
Chapter 8: Storm Water and Pollution Control
Acknowledgments:

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Arizona Department of Transportation
Guidelines for Highways on Bureau of Land Management and U.S. Forest Service Lands

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Guidelines Contents

1 Introduction
2 ADOT Development Process on BLM and USFS Lands
3 Habitat Connectivity
4 Roadway Design and Construction
5 Major Structure Design and Construction
6 Drainage Design and Construction
7 Landscape Restoration
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9 Material Sites
10 Construction
11 Maintenance Operations
Appendices A - O
After reviewing the Chapter 8 Tutorial you should…

- Know to refer to the *ADOT Erosion and Pollution Control Manual* for erosion control requirements on ADOT projects and BMPs.
- Be able to define NPDES and AZPDES and their role in water quality control.
- Be able to give examples of Temporary and Permanent BMPs.
- Know what SWPPP stands for.
- Be able to access the ADOT Storm Water Program webpage.
- Know how to access the *ADOT Post-Construction BMP Manual*. 
Chapter 8 Contents

8.1 Chapter Goals
8.2 Design
8.3 Construction
8.4 Additional Resources
8.1 Chapter Goals

- Direct the reader to the ADOT Erosion and Pollution Control Manual.
- Introduce the National Pollution Discharge Elimination System (NPDES) and the Arizona Pollution Discharge Elimination System (AZPDES).
- Define Best Management Practices (BMPs).
  - Temporary
  - Permanent
8.1 NPDES / AZPDES

- The Environmental Protection Agency’s National Pollution Discharge Elimination System (NPDES) and the Arizona Department of Environmental Quality’s Arizona Pollution Discharge Elimination System (AZPDES) describe requirements for control of storm water quality.
• Temporary Best Management Practices are intended to improve storm water quality during the construction process and include:
  – Sediment Logs
  – Silt Fence
  – Gravel Bags

• Permanent Best Management Practices are intended to improve storm water quality both during and after construction and include:
  – Preservation of Existing Vegetation
  – Sediment Wattles
  – Sediment Control Berm
8.2 Design

- The ADOT Erosion and Pollution Control Manual describes in greater detail the goal for erosion control on ADOT construction projects. Each BMP is illustrated and defined with information provided on appropriate use, limitations and typical materials.
8.2 Design

- Roadway and Drainage Plans include Permanent BMPs.
- Storm Water Pollution Prevention Plans (SWPPP) describing Temporary BMPs are typically prepared at Stage III.
8.3 Construction

- Prior to earth-disturbing activities, the contractor prepares and delivers to ADOT the proposed SWPPP for approval.
- Inspect and maintain temporary BMPs during the construction process.
8.4 Additional Resources

- ADOT Storm Water Program

- ADOT Post-Construction BMP Manual
Read Chapter 8

- As an introduction to storm water and pollution control on ADOT projects.
- For examples of Temporary and Permanent BMPs and how they differ.
- For the meanings of NPDES, AZPDES, and SWPPP.
- To locate additional erosion and pollution control information.
Knowledge Check: Do you......

- Know to refer to the *ADOT Erosion and Pollution Control Manual* for erosion control requirements on ADOT projects and BMPs?
- Know what NPDES and AZPDES and understand their role in water quality control?
- Recognize Temporary and Permanent BMPs?
- Know what SWPPP stands for?
- Know how to find the ADOT Storm Water Program webpage?
- Know how to access the *ADOT Post-Construction BMP Manual* on the ADOT website?
Guidelines Appendices

- Acronyms and Abbreviations
- Glossary of Terms
- ADOT-FHWA-USFS MOU
- ADOT-FHWA-BLM MOU
- Slope Design Details
- Easement Development
- Section 106 Process on Forest Service Lands
- Typical Blasting Plan Content
- Comparison of Permit Processes for Material Sites
- Signing
- Project Reference Fact Sheet
- Native Plant Salvage & Replanting Evaluation Guidelines
- References and Photography Credits
- Additional Photos (online appendix)
- Document Revision History
Document Availability

Purchase from:
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