Stormwater Construction Seminar 2010
AGENDA

Tuesday, May 11, 2010
Joel D. Valdez Main Library
101 N Stone Ave., Tucson, AZ 85701

8:00  Open and Check-in, Meet and Greet

8:20  Introduction – PAG, Watershed Planning, Claire Zucker and Mead Mier

1.  8:25  City of Tucson-New Rainwater Harvesting Ordinance Compliance, Joseph Linville and Fernando Molina

2.  8:45  Watershed Management Group-Benefits of Water Harvesting, James MacAdam

3.  9:05  Town of Marana - SWPPP: From Submission through Implementation, Paula Bluemer

4.  9:25  Town of Oro Valley - Stormwater Updates, David Parker

9:45  Discussion and Questions - Panel

10:15  Break

5.  10:30  ADEQ - The Cumulus Stage of Arizona’s Stormwater Program, Chris Henninger

6.  11:00  ADEQ - Compliance Programs Unit: Good & Bad Use of BMPs, Dean Moulis and Ray Morgan

11:30  Discussion and Questions - Panel

12:00  Seminar Concludes

Presentation Abstracts and Materials in the following pages.
1. **City of Tucson**  
   **Fernando Molino**, Tucson Water Conservation Program Manager  
   **Joseph Linville**, Lead Planner, Planning and Development Services Department  
   The Rainwater Harvesting Ordinance, No. 10597, takes effect June 1, 2010, and applies to new commercial construction. This presentation will focus on plan submittals. Facilities must meet 50% of their landscape demand using harvested rainwater, prepare a site water harvesting plan and water budget, meter outdoor water use and use irrigation controls that respond to soil moisture conditions at the site within 3 years of construction. Both passive systems (landscapes that infiltrate rainwater into soil), and active systems (systems that store water in tanks) are addressed in the Development Standard.

2. **Watershed Management Group**  
   **James MacAdam**, LEED-AP, Project Manager  
   The presentation will focus on the benefits of rainwater harvesting for developers, builders, and property owners and managers. The discussion will include information on construction, and operations and maintenance cost savings that can be realized through the use of water harvesting methods. Also discussed will be potential marketing benefits for projects that use water harvesting, as well as synergies with other project goals and requirements, such as landscape design, water quality improvement and flood control.

3. **Town of Marana**  
   **Paula Bluemer**, Environmental Project Coordinator  
   You’re ready to start a project, but is your SWPPP? A discussion on how to take the SWPPP off the shelf and use it in the field, and how to effectively use the SWPPP to stay in compliance. The Town of Marana passed the Stormwater Management Ordinance as Title 25 of the Land Development Code and has been conducting SWPPP reviews and site inspections since its enactment.

4. **Town of Oro Valley**  
   **David Parker**, Stormwater Utility Manager  
   Mr. Parker will present organizational and procedural changes that have occurred over the last year impacting Stormwater Management in the Town, to include revision to the drainage criteria manual, new rainwater harvesting guidelines, a draft SWPPP template, and organizational realignments.
5. **ADEQ - Stormwater and General Permits Unit**  
   **Chris Henninger**, Manager  
   Mr. Henninger will provide a status report on Arizona's stormwater program. Points of discussion will include EPA's final rule on the construction stormwater effluent limitation guideline (ELG) and rule making process on stormwater management from new development and redevelopment projects.

6. **ADEQ - Southern Regional Office**  
   **Dean A Moulis, E.I.T., & Raymond D. Morgan, P.E., P.L.S.**, Environmental Engineers/ Compliance Officers  
   The Compliance Programs Unit is out in the field inspecting SWPPPs and assisting the regulated community in complying with the requirements of ADEQ’s surface water permits. In this visual presentation, these inspectors hope to share pictures provided by the regulated community so that others can learn what has and hasn’t worked. They will also try to take the time to explain each BMP, where the BMPs should be used and which BMPs have been found to work better than others. These visual aids will not only include improper uses, but will include pictures of great examples from the field.

**Q/A.**  
**Pima County**  
**Bill Petrouston**, Department of Environmental Quality (PDEQ), Senior Hydrologist  
Mr. Petrouston will be on the panel during the Question and Answer period. He has been with PDEQ for over five years and is primarily responsible for implementing Pima County’s National Pollutant Discharge Elimination System Municipal Separate Storm Water System discharge permit. This permit has a number of Best Management Practices (BMPs) for controlling storm water pollution. Included in these BMPs is the requirement for PDEQ to identify construction sites equal to or greater than one acre and to evaluate these construction sites for compliance with the requirements of the AZPDES General Permit for Discharge from Construction Activities to Waters of the United States.

**Q/A.**  
**City of Tucson – Stormwater Section**  
**Chris McNellis**, Environmental Inspector, **Ron Ravago**, Environmental Inspector  
**Jim Flemling**, Inspection Supervisor, Planning and Development Services Department  
The inspectors will be available at the seminar for questions. The Stormwater Management Section of the Tucson Department of Transportation works to keep pollutants out of Tucson's stormwater drainage system through the Stormwater Quality Ordinance, Number 10209 (Oct. 2005). Under the Ordinance, the City can inspect businesses, facilities and construction sites to ensure that pollutants such as oil, grease, sediment and trash do not get picked up by stormwater runoff and transported to our fragile washes.
Introduction:

- Pima Association of Governments
  - Agenda and Speaker Abstracts
  - Web links and Contact List
  - Jurisdiction Comparison Chart
  - MS4 Map

1. City of Tucson
   - Rainwater and Greywater Harvesting CD

2. Watershed Management Group
   - Benefits of Water Harvesting

3. Town of Marana
   - Town of Marana's SWPPP: From Submission through Implementation (presentation's slides print-out)
   - Town of Marana's Stormwater Management Ordinance
   - SWPPP Compliance Inspection Report

4. Town of Oro Valley
   - Stormwater Updates (copies of presentation)
   - Info Sheet with Web links to Town Web Sites

Arizona Department of Environmental Quality
5. The Cumulus Stage of Arizona's Stormwater Program (presentation slides)
6. Good and Bad uses of BMPs (presentation outline)
Refreshments were Sponsored by:

Stormwater Pollution, Erosion & Sediment Control Consulting
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Thank You!
Thank you James MacAdam from Watershed Management Working Group for volunteering to present information on rainwater harvesting:

Watershed Management Group is a 501(c)(3) organization that develops community-based solutions to ensure the long-term prosperity of people and health of the environment. WMG provides consultation services, educational workshops, professional trainings, presentations, as well as project design and implementation.

James MacAdam manages Watershed Management Group's "Green Streets/Green Neighborhoods" program, which works with southwestern neighborhoods to implement green infrastructure strategies to improve water quality and community livability. He also administers WMG's Water Harvesting Certification program, a 65-hour professional certification program that offers the most rigorous training in water harvesting systems design and construction in the nation.
PAG would like to acknowledge everyone who helped make this seminar possible.

Our thanks to you for attending the seminar and participating in the survey.

We would like to thank the members of the Stormwater Management Working Group for providing oversight and for their contributions, including their presentations and materials. In addition to our speakers and Q/A panels recognized in the agenda and abstracts, we would like to extend our thanks to:

- Anastasia Olander, Pima County Regional Wastewater Reclamation Department, Permit & Regulatory Compliance
- Catesby Sueter, City of Tucson, Dept. of Transportation, Stormwater Section
- Ilene Grossman, Tucson Water, Conservation Program
- Karen Rahn, City of Tucson, Dept. of Transportation, Stormwater Section
- Roxanne Linsley, ADEQ Southern Regional Office, Environmental and Compliance Programs
- Stephanie Brown, ADOT, Office of Environmental Services, Water Quality Program
- Wendy Terlizzi, ADOT, Office of Environmental Services, Water Quality Program

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The City of Tucson generously provided the materials folders.

Much appreciation to all those who helped in preparation, staffing and registration.

Finally, credit goes to Pima Association of Governments, who made this seminar possible.