Resources
Stormwater Regulations for the Construction Industry
2013 PAG Seminar

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Contacts

Arizona Department of Environmental Quality
ADEQ Water Quality Permits Contacts:
http://www.azdeq.gov/function/about/water.html#surface
Stormwater Program – Water Permits Section / NOI or NOT
1110 W. Washington, 5415B-3
Phoenix, AZ 85007
http://www.adeq.state.az.us/environ/water/permits/stormwater.html

Stormwater and General Permits Unit:
Christopher M. Henninger, Stormwater and General Permits; Technical Issues –
Construction, MS4, MSGP
Phone: (602) 771-4508
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Joanie M. Rhyner, Environmental Programs Specialist
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Lavinia Wright, De Minimus Discharges to Surface Waters
Phone: (602) 771-4585
wright.lavinia@azdeq.gov

ADEQ Southern Regional Office (SRO) Compliance Programs:
Roxanne Linsley, Environmental Programs Coordinator
Phone: (520) 628-6716
ril@azdeq.gov

Arizona Department of Transportation
ADOT Stormwater Program

ADOT Water Quality Group
http://www.azdot.gov/inside_adot/OES/Water_Quality/Index.asp

1611 W Jackson Street, EM04
Phoenix, Arizona 85007

Resources available on-line: http://www.PAGstorm.com/Construction
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Leigh Waite, Water Quality Analyst
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lwaite@azdot.gov

City of Tucson
Stormwater Management Section:
201 N. Stone
Tucson, AZ  85701
http://dot.tucsonaz.gov/stormwater/  and
http://www.tucsonaz.gov/dsd/
Phone: (520) 791-4251
Fax: (520) 791-4238
stormwater@tucsonaz.gov

Rainwater Harvesting-
Office of Conservation and Sustainable Development:
http://cms3.tucsonaz.gov/ocsd/water-neighborhood
For policy issues please contact
Katie Bolger, Tucson Council Ward 2
katie.bolger@tucsonaz.gov

City of South Tucson
1601 S Sixth Ave.
South Tucson, AZ 85713

Pima Association of Governments
Watershed Planning
177 N Church Ave., Suite 405
Tucson, AZ 85701
Phone: (520) 792-1093

Contact:
Claire Zucker, Sustainable Environments Program Director
czucker@pagnet.org
Mead Mier, Senior Watershed Planner, Stormwater Management Working Group
facilitator and Clean Water Starts With Me lead
mmier@pagnet.org

Resources available on-line: http://www.PAGstorm.com/Construction
Pima County Dept of Environmental Quality  
Stormwater Management Program  
33 N. Stone Ave., Suite 700  
Tucson, AZ 85701  
http://www.pima.gov/deg/water/stwmgmprog.html  
Marie Light, Principal Hydrologist  
marie.light@deg.pima.gov

Pima County Regional Flood Control District  
97 E. Congress Street  
Tucson, AZ 85701  
http://rfcd.pima.gov  
Evan Canfield, Chief Hydrologist  
evancanfield@pima.gov

Pima County Department of Transportation  
201 N. Stone Ave., 4th Floor  
Tucson, AZ 85701  
Phone: (520) 740-6410  
Fax: (520) 620-1933

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Town of Marana  
Environmental Engineering Division  
11555 W Civic Center Dr.  
Marana, AZ 85653  
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Fax: (520) 382-2644  
www.marana.com  

Town of Marana Stormwater Program:  
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Paula Bluemer, Environmental Project Coordinator  
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Town of Oro Valley  
Storm Water Utility:  
Fritz Laos, CFM  
Civil Engineer/Hydrologist  
11000 N La Canada Drive  
Oro Valley, AZ 85737  
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Phone: (520) 229-5044  
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Civil Engineering Tech/SWPPP Inspector  
680 W. Calle Concordia  
Oro Valley, AZ 85704  
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Rainwater Harvesting-  
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Conservation Sustainability Manager  
11000 N. La Canada Drive  
Oro Valley, AZ 85737  
Phone: (520) 229-4810  
bvella@orovalleyaz.gov

U.S. Army Corps of Engineers  
Los Angeles District Regulatory Home Page  
www.spl.usace.army.mil/regulatory/

Marjorie Blaine, Senior Project Manager, Pima County  
Phone: (520) 584-1684  
Fax: (520) 584-1690  
marjorie.e.blaine@usace.army.mil

Sallie McGuire, Chief, Arizona Branch  
sallie.mcguire@usace.army.mil

Resources available on-line: http://www.PAGstorm.com/Construction
U.S. Environmental Protection Agency - Region 9 Contacts

EPA Region 9 home page
http://www.epa.gov/region09/


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Phone: (415) 947-4198
miller.amy@epa.gov

Eugene Bromley (NPDES Permits and Stormwater)
Phone: (415) 972-3510
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EPA Region 9 Regional Nonpoint Source Coordinators
Christina (Tina) Yin, NPS Coordinator U.S. EPA - Region IX
75 Hawthorne Street (WTR-3) San Francisco, CA 94105
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Fax: (415) 947-3549
yin.christina@epa.gov

EPA Tribal Nonpoint Source Coordinators
Region 9 - Arizona, California, Hawaii, Nevada, American Samoa, Mariana Islands, Guam
Tiffany Eastman
U.S. EPA Region 9, 75 Hawthorne Street (MC: WTR-10), San Francisco, CA 94105 (415)
Phone: (415) 795-2435
eastman.tiffany@epa.gov

U.S. Environmental Protection Agency - Green Infrastructure Contacts

US EPA / Water Permits Division
Mail Code: 4203M
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460-0001
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Robert Goo
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goo.robert@epa.gov

US EPA / Office Of Research and Development / National Risk Management Research Laboratory
26 West Martin Luther King Dr. MS 236
Cincinnati, OH 45268
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Michelle Latham  
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Region 9 Contact  
US EPA, Region 09 Southern California Office / Water Division  
600 Wilshire Blvd, Suite 1460  
Los Angeles, CA 90017  
John Kemmerer  
Phone: (213) 244-1832  
kemmerer.john@epa.gov

Watershed Management Group  
http://www.watershedmg.org/  
PO Box 65953  
Tucson, AZ 85728  
Phone: (520)396.3266  
Contact: http://www.watershedmg.org/contact
EPA National Pollution Elimination Discharge System (NPDES) Links
EPA National Pollution Discharge Elimination System
http://cfpub.epa.gov/npdes/

EPA SWPPP
http://cfpub.epa.gov/npdes/stormwater/swppp.cfm

EPA SWPPP Assistance: Guidance, templates, sample inspection form, example SWPPPs, key resources, BMP manuals
http://cfpub.epa.gov/npdes/stormwater/swppp.cfm

EPA Webcasts on Construction SWPPPS: A-Z
http://cfpub.epa.gov/npdes/courseinfo.cfm?program_id=0&outreach_id=308&schedule_id=962

ADEQ SWPPP Checklist

NPDES Permit Program Basics Regulation
http://cfpub.epa.gov/npdes/regs.cfm?program_id=45

Other Federal Laws that affect NPDES
http://cfpub.epa.gov/npdes/fedlaws.cfm?program_id=45

Arizona Pollution Elimination Discharge System (AZPDES) Links
AZPDES

ADEQ Stormwater Permits

Construction General Permit

CGP SWPPP Guidance Checklist

Construction Notice of Intent (NOI)

Construction Notice of Termination

Smart NOI System – File an NOI, file an NOT or determine eligibility for a CGP Waiver
http://az.gov/app/smartnoi/

Small MS4 General Permit
MS4 Notice of Intent (NOI)

MS4 Notice of Termination (NOT)

Designation Criteria for small MS4

Model SWMP

Water Quality Protection Fees
http://www.azsos.gov/public_services/Title_18/18-14.htm

Local Ordinances
Tucson Stormwater Ordinance (908KB PDF)

Marana Stormwater Ordinance (100KB PDF)

Oro Valley Stormwater Ordinance (105KB PDF)

Successful SWPPP Preparation

Finding Your Site Location
Conversion of Decimal Degrees, Degrees Minutes Seconds, or Lat/Long
http://www.dot.co.pima.az.us/gis/maps/mapguide/latlon.cfm

Map Guides:
http://www.dot.co.pima.az.us/gis/maps/mapguide/

Google maps
http://maps.google.com/

Township Range Section (PLSS) Conversion to Lat/Long
http://www.esg.montana.edu/gl/trs-data.html

Orthophotography of Tucson Region, 2008
**Guidance on SWPPPs and Best Management Practices**

ADOT Erosion and Pollution Control Manual


Sediment Control and Water Quality Protection BMP Details


ADOT Methodology Final Stabilization


Post-Construction BMP Manual


Maintenance and Facilities BMP Manual


Stormwater Monitoring Guidance Manuals for Construction


Stormwater Monitoring Guidance Manuals for MS4s


ADOT Roadside Development


ADOT Statewide Stormwater Discharge Permit


Construction Stormwater Pollution Prevention Plan (SWPPP) Template


CALTRANS Construction Site BMP Manual


Maricopa County’s Erosion Control Manual (including Best Management Practice (BMP)s, sample Arizona Pollutant Discharge Elimination System (AZPDES) Construction, Storm Water Pollution Prevention Plan (SWPPP) checklists and vendor product registration and information)


Pima Association of Governments (PAG) Stormwater Training

www.PAGstorm.com/construction (520) 792-1093
Resources available on-line: http://www.PAGstorm.com/Construction

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Tucson Utility Contractors Association construction BMP training program
www.tuca-az.org

Southern Arizona Home Builders Association
http://www.sahba.org/

Hazardous Materials
Household Hazardous Waste collection locations and hours in Pima County and City of Tucson:
http://cms3.tucsonaz.gov/es/household_hazardous_waste

Report oil or hazardous materials releases in excess of reportable quantities, or that may endanger human health or the environment, within 24 hours to ADEQ
Phone: (602) 771-4466
Fax: (602) 771-4505

NOI References
“Smart NOI” system
http://az.gov/app/smartnoi/

NOI Form

NOI must be submitted to ADEQ in Phoenix by FAX to (602) 771-4674, By Certified Mail with Return Receipt, Hand delivered, or Via SMART NOI system

Questions- (602) 771-4632

U.S. Army Corps of Engineers
Los Angeles District Regulatory Home Page
www.spl.usace.army.mil/regulatory/

Code of Federal Regulations
http://www.gpoaccess.gov/cfr/index.html

Jurisdictional Determination:
http://www.spl.usace.army.mil/regulatory/

“R” Factor
See EPA’S fact sheet on the “R” factor at
http://cfpub2.epa.gov/npdes/stormwater/swfinal.cfm?program_id=6

To calculate “R” by computer, see the Erosion Model at
http://fargo.nserl.purdue.edu/rusle2_dataweb/RUSLE2_Index.htm
Rain Gages
Pima County ALERT system
http://rfcd.pima.gov/wrd/alertsys/index.htm

USGS Water Data for Arizona
http://waterdata.usgs.gov/az/nwis/nwis

Report Illegal Dumping and Trash
Wildcat Dumping/Illegal Dumping
http://cms3.tucsonaz.gov/infoguide/3152

Don’t Trash Arizona Home
http://donttrashaz.org/
Rainwater Harvesting (RWH) and Xeriscape
City of Tucson RWH Ordinance

City of Tucson Land Use Code for Cistern placement (building permit design requirements based on property line proximity)

City of Tucson Development Standard No. 10-03.0 for Commercial RWH

City of Tucson Commercial Rainwater Harvesting Water Budget Spreadsheet
http://cms3.tucsonaz.gov/files/dsd/water_budget_spreadsheet.xls

City of Tucson RWH Guidance Manual

Town of Oro Valley RWH Ordinance (Greywater, Xeriscape)

Town of Oro Valley’s RWH Engineering Technical Memorandum

Local RWH Resources (Books, Consultants, Incentives, Demo. sites, Vendors, Workshops)

RWH Storage and Use Calculator
http://www.harvestingrainwater.com/rainwater-harvesting-infresources/rainwater-harvesting-online-calculator/

Guidance on Drought Tolerant Vegetation and How to Calculate Plants’ Water Requirements (ADWR permissible species lists)

PAG RWH Web Site (FAQ, Maps of Sites, Community Time-Line)

Harvesting Rainwater for Drylands and Beyond (Brad Lancaster’s Comprehensive Site)
http://www.harvestingrainwater.com/

Green Infrastructure/ Low Impact Development
EPA Green Infrastructure Page
http://water.epa.gov/infrastructure/greeninfrastructure/index.cfm

EPA’s Non-Point Source Pollution Page for LID: contains BMPs, Designs, Integrated Approaches and Examples
http://www.epa.gov/owow/NPS/lid/
NPDES LID BMP Menu: A search able database of BMPs including design, cost, water quality effectiveness, maintenance and limitations considerations

Watershed Management Group Manual - Green Infrastructure for Southwestern Neighborhoods
http://watershedmg.org/node/179

The ADOT Post Construction BMP Manual

Section 3.1.3 states that roadway designers should incorporate LID techniques and BMPs whenever possible.
Table 2.1 – ADOT Recommended List of LID Applications and locations where rainwater harvesting is recommended within Post-Construction BMPs. The following post ADOT Manual pages include specified ratings, appropriate applications, materials, design standards, design considerations, maintenance and schematics.

Off-road, Overland Flow Erosion Control
- Impervious Cover

Roadway Drainage Conveyance
- Impervious Channel Lining (PAGE 3-12, 3-52)
- Pervious Channel Lining (PAGE 3-12, 3-52)
- Rainwater Harvesting (PAGE 3-56)

Water Quality and Treatment
- Bioretention (PAGE 3-73)
- Filtration Structures
- Infiltration Basin (PAGE 3-56)
- Infiltration Trench (PAGE 3-56)
- Retention and Detention Basins (pond-in-place practices)
- Vegetated Filter Strips

LID Center -Green Streets - Standard Specifications, Details and Policies
http://www.lowimpactdevelopment.org/greenstreets/practices.htm

Arid LID Information Center and Conferences
http://www.aridlid.org/

LID Working Group (Pima County Regional Flood Control District): Manual review, LID/GI resources, Stormwater resources, Water Harvesting Spreadsheets, Cost Effectiveness of LID, Case Studies, Plant Guidance, Schematics
http://rfcd.pima.gov/pdd/lid/workinggroup.htm