

Drinking Water System Permitting and Operations Program

Korissa Entringer, MBA, MSL, RS

Drinking Water Program

Water and Waste Management Division

Maricopa County Environmental Services Department

Program/Permitting Authority



US EPA

Code of Federal
Regulations

40 CFR141



ADEQ

Arizona
Administrative Code

Title 18
Chapters 4 &5



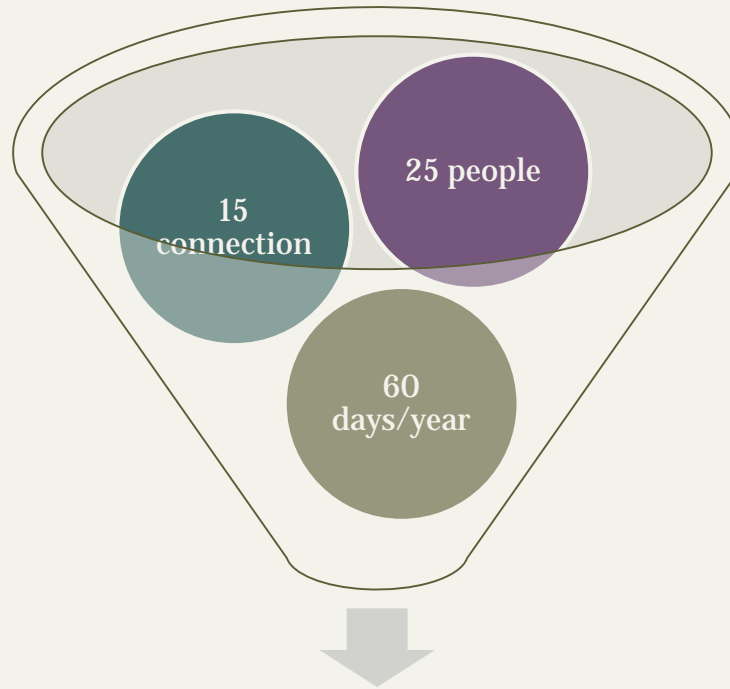
MCESD

Maricopa County
Environmental

Health Code
Chapters 1&5



Drinking Water System Permitting Threshold



Public Water System

Considerations for water resources

Who will provide water and sewer for the project?

Existing Public Water System

Property Owner (Permit may be require)



Is there a safe and reliable source of water available to support this project?

Capacity approval from existing utility provider

Capacity approvals from ADEQ, ADWR, ACC



What approvals will be required for this project:

Infrastructure construction approvals

Permit, construction and operation approvals

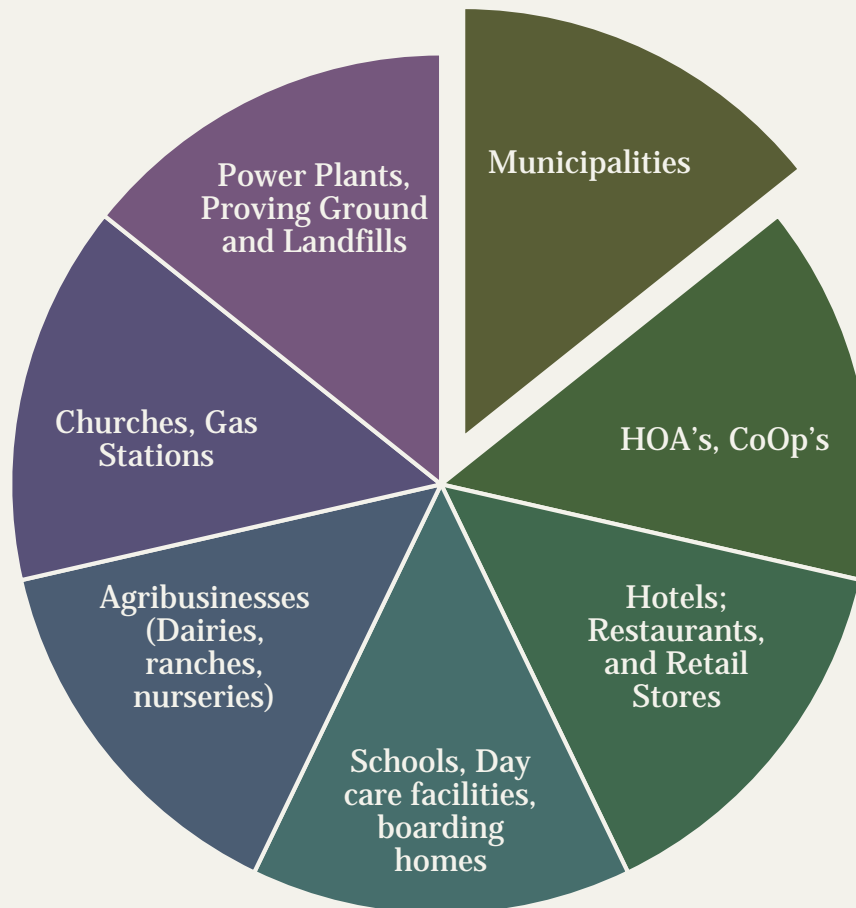


How much time is need to obtain all permitting approvals?

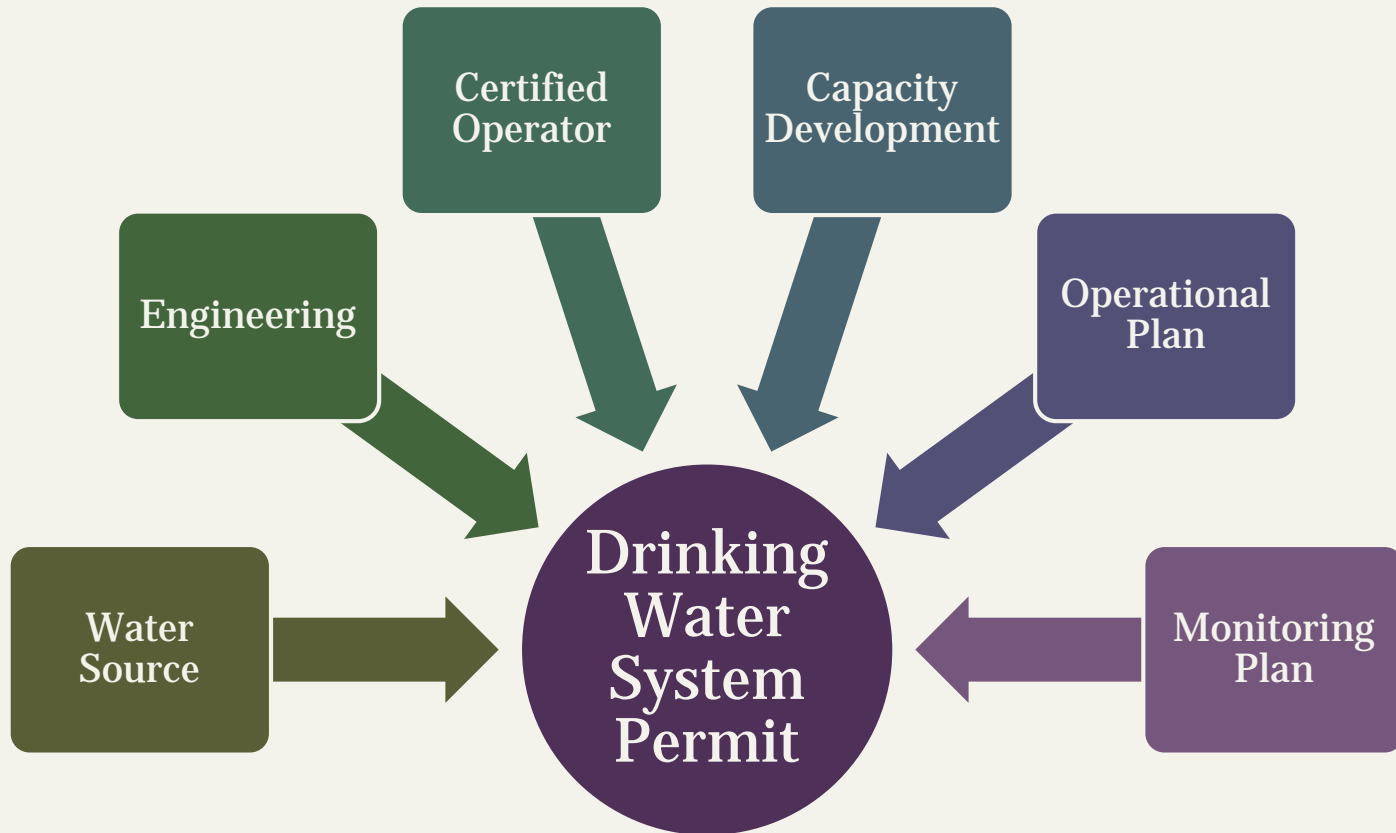
Transfer of assets

Optimizing submittal schedule

Examples of Public Water Systems



Permitting Requirements



Application types/location



All drinking water applications may be found at:
<http://esd.maricopa.gov/2483/Forms-Applications>

Application Tips

Source

- Water quality results <12 months old & on correct forms
- Well data (drillers log, registration forms, etc.)

Infrastructure

- Construction plan drawings, diagrams, cut sheets
- Engineering Report

Treatment

- Pre-application meetings

Operations

- Distribution maps with legends
- Narrative explaining how plan meets rule requirements

Examples of DW Program LTF's

Application Type	Administrative Time (days)	Substantive Time (days)	Overall Time (days)
Drinking Water – Permit	16	67	83
Drinking Water – Plan Review (NSA and Operation Plans)	16	67	83
Drinking Water – Subdivision & Infrastructure (Wells, pipes, boosters, chlorinators, storage tanks, etc.)	16	37	53
Drinking Water – Treatment Plant	16	37/67	53/83

<http://www.maricopa.gov/documentcenter/view/8109>

Questions



Korissa Entringer, MBA, MSL, RS **Supervisor | Drinking Water Program**

Maricopa County Environmental Services Department
1001 N Central Avenue, Suite 250, Phoenix, AZ 85004
Desk: 602.506.6935 | Fax: 602.372.0866

entringerk@mail.maricopa.gov | esd.maricopa.gov



Onsite Wastewater Systems

Greg Maupin P.E.

Onsite Wastewater Systems Program

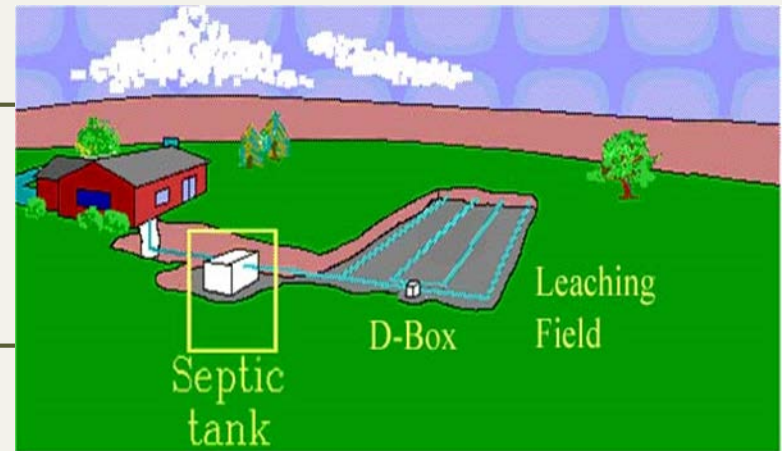
Water and Wastewater Division

Maricopa County Environmental Services Department


Program/Permitting Authority

Aquifer Protection Permit Program

- AAC Title 18, Ch.9



Permit Threshold



Onsite (septic)
systems are located
where sewer is not
available.



Provide Sewer
determination letter for
parcels located in
municipalities.

Allowable Waste Streams for Septic Systems

R18-9-A309.7

A person shall operate the permitted on-site wastewater treatment facility so that:

- a. Flows to the facility consist of typical sewage and do not include any motor oil, gasoline, paint, varnish, solvent, pesticide, fertilizer, or other material not generally associated with toilet flushing, food preparation, laundry, or personal hygiene;

Onsite Applications

- <http://www.maricopa.gov/2497/Instructions-Applications>

Instructions & Applications

Alteration

- [Alteration Application \(PDF\)](#)
- [Alteration Checklist \(PDF\)](#)
- [Alteration Instructions \(PDF\)](#)

Closure/Abandonment

- [Certification of Closure Abandonment \(PDF\)](#)
- [Closure or Abandonment Application \(PDF\)](#)
- [Closure or Abandonment Checklist \(PDF\)](#)
- [Closure or Abandonment Instructions \(PDF\)](#)

Minor Plan Review

- [Minor Plan Review Checklist \(PDF\)](#)
- [Minor Plan Review Instructions \(PDF\)](#)
- [Minor Plan Review Application \(PDF\)](#)

Phase I: Site & Soils Evaluation

- [Phase I - Site and Soils Evaluation Application \(PDF\)](#)
- [Phase I - Site and Soils Evaluation Checklist \(PDF\)](#)
- [Phase I - Site and Soils Evaluation Instructions \(PDF\)](#)

Phase II: Conventional System Design

- [Phase II - Conventional System Design Application \(PDF\)](#)
- [Phase II - Conventional System Design Checklist \(PDF\)](#)
- [Phase II - Conventional System Design Instructions \(PDF\)](#)

Phase II: Alternative System Design

- [Phase II - Alternative System Design Application \(PDF\)](#)
- [Phase II - Alternative System Design Checklist \(PDF\)](#)
- [Phase II - Alternative System Design Instructions \(PDF\)](#)

Possible roadblocks

Lot splits

Daily flows
rates

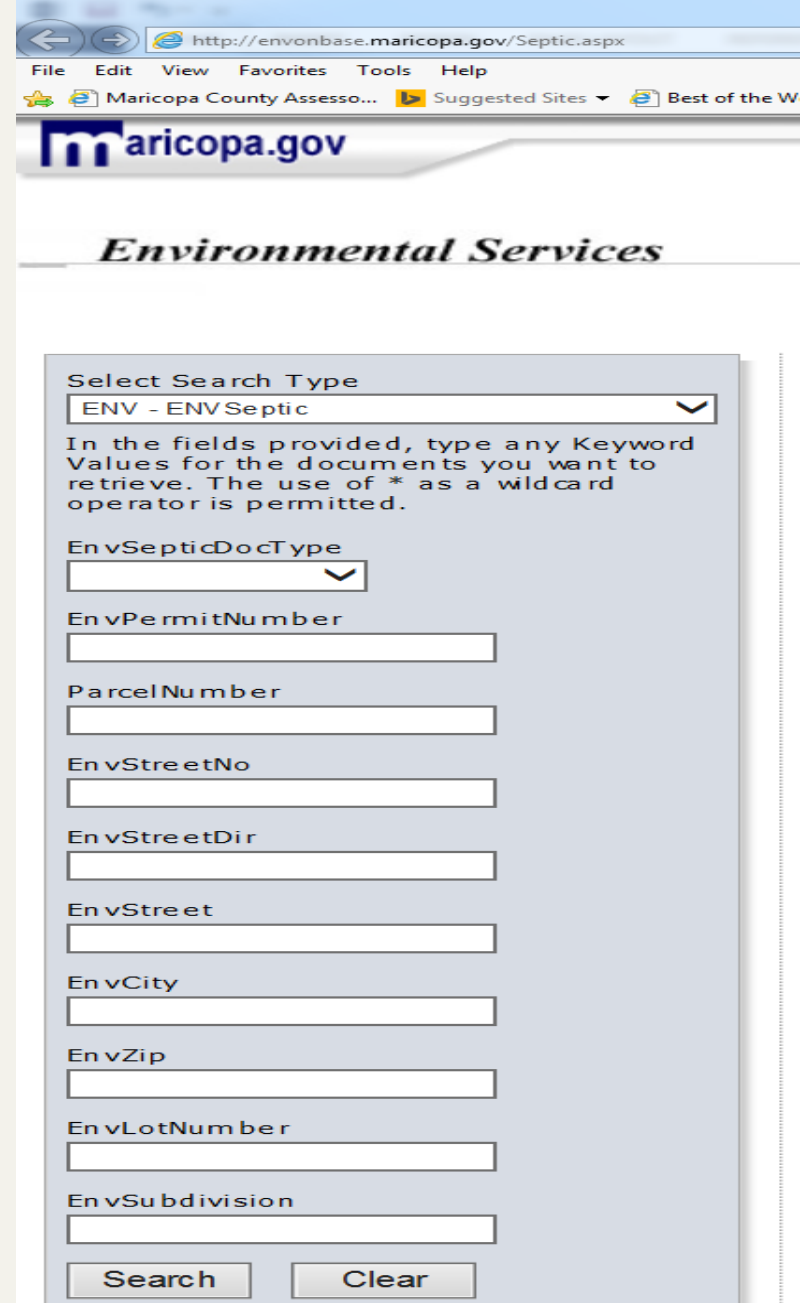
Pits vs.
Trenches

Soil
evaluations

Existing
Systems

Parcel Septic Search

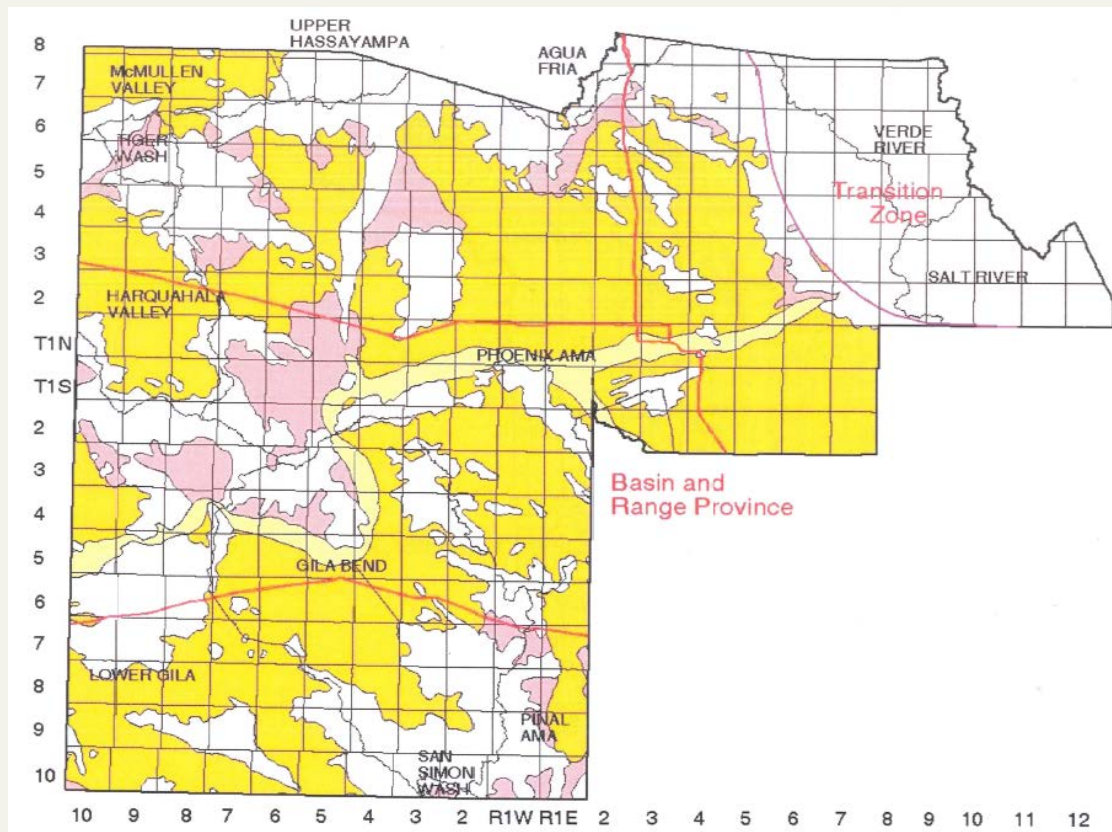
<http://envonbase.maricopa.gov/Septic.aspx>



The screenshot shows a web browser window with the URL <http://envonbase.maricopa.gov/Septic.aspx>. The browser's address bar and menu bar are visible. Below the browser window, the Maricopa County logo is displayed, followed by the heading "Environmental Services". The main content area features a search form with the following fields and controls:

- Select Search Type:** A dropdown menu with "ENV - ENVSeptic" selected.
- Instructions:** "In the fields provided, type any Keyword Values for the documents you want to retrieve. The use of * as a wildcard operator is permitted."
- EnvSepticDocType:** A dropdown menu.
- EnvPermitNumber:** A text input field.
- ParcelNumber:** A text input field.
- EnvStreetNo:** A text input field.
- EnvStreetDir:** A text input field.
- EnvStreet:** A text input field.
- EnvCity:** A text input field.
- EnvZip:** A text input field.
- EnvLotNumber:** A text input field.
- EnvSubdivision:** A text input field.
- Search:** A button to execute the search.
- Clear:** A button to reset the form.

Map of Basin and Range Alluvial Basins



Questions



Greg Maupin P.E.

Program Manager Water and Waste Management Division

Maricopa County Environmental Services department

1001 N. Central Avenue, Suite 150, Phoenix, AZ 85004

Office: 602 506-6618, Fax: 602 506-5813

gmaupin@mail.maricopa.gov | esd.maricopa.gov



Stormwater Quality Program and Construction

Souren Naradikian/Carl D'Acosta

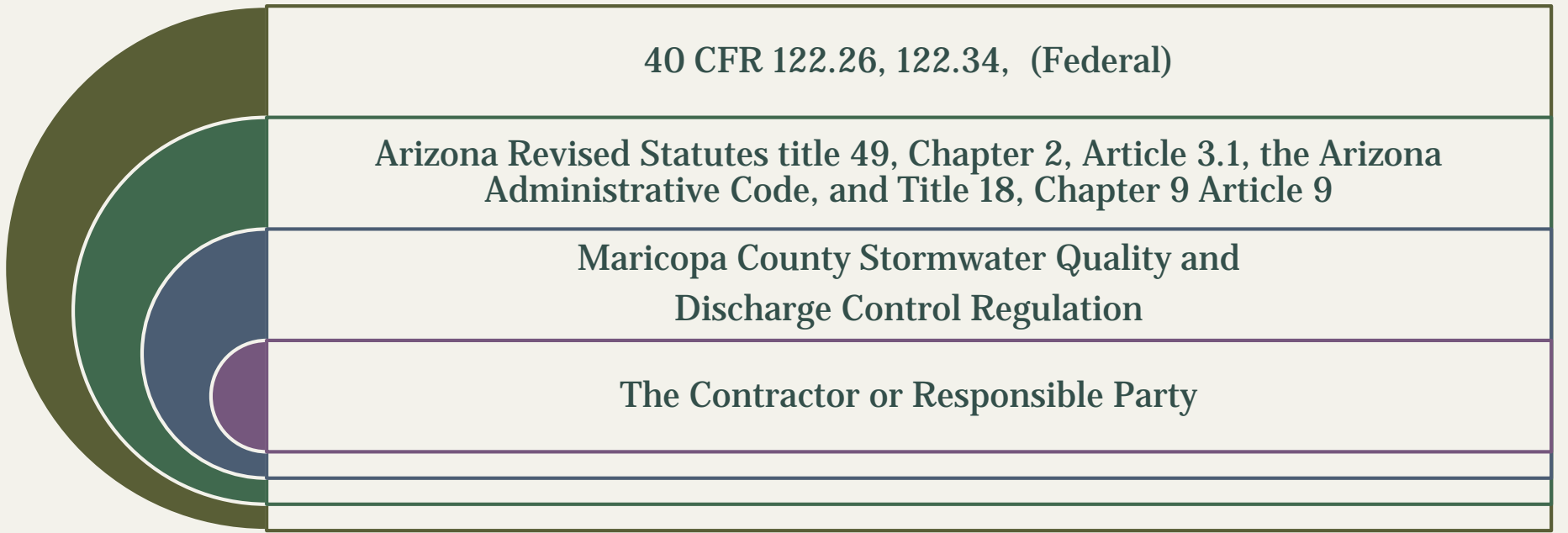
Stormwater Quality Program

Quality and Compliance Division

Maricopa County Environmental Services Department

Program/Permitting Authority

Regulation: It All Flows Down



40 CFR 122.26, 122.34, (Federal)

Arizona Revised Statutes title 49, Chapter 2, Article 3.1, the Arizona Administrative Code, and Title 18, Chapter 9 Article 9

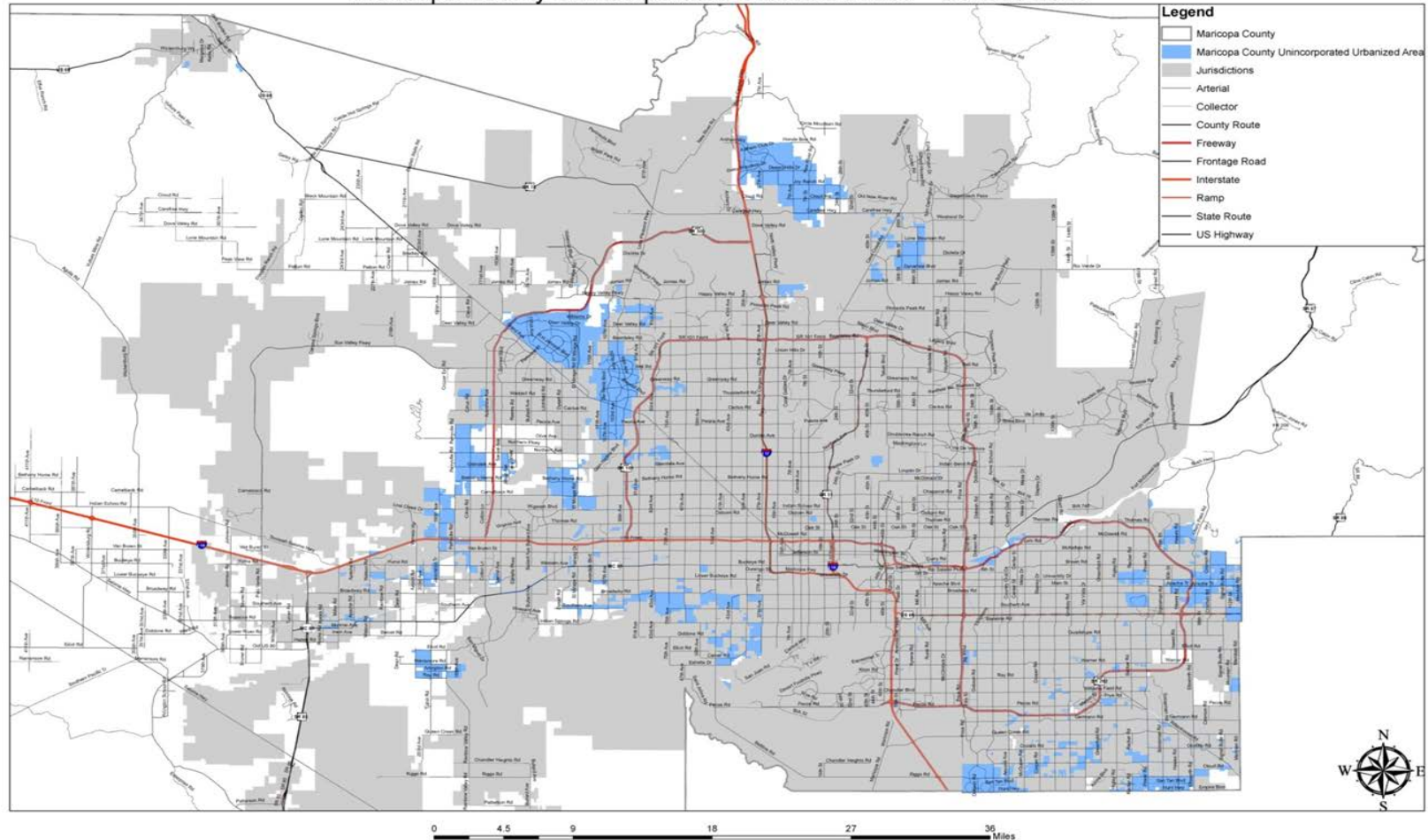
Maricopa County Stormwater Quality and
Discharge Control Regulation

The Contractor or Responsible Party

MARICOPA COUNTY AZ

Permit Threshold

Maricopa County Unincorporated Urbanized Area - Census 2010



Who needs to apply for this Pre-construction permit?

Located in the unincorporated urbanized area

Projects that disturb 1 or more acres of land **OR**

Projects less than 1 acre that are part of a larger common plan of development **AND**

Application location

<http://www.maricopa.gov/2361/Forms-Applications>

Permitting Process

Once reviewed and if approved:



Stormwater tracking number is issued

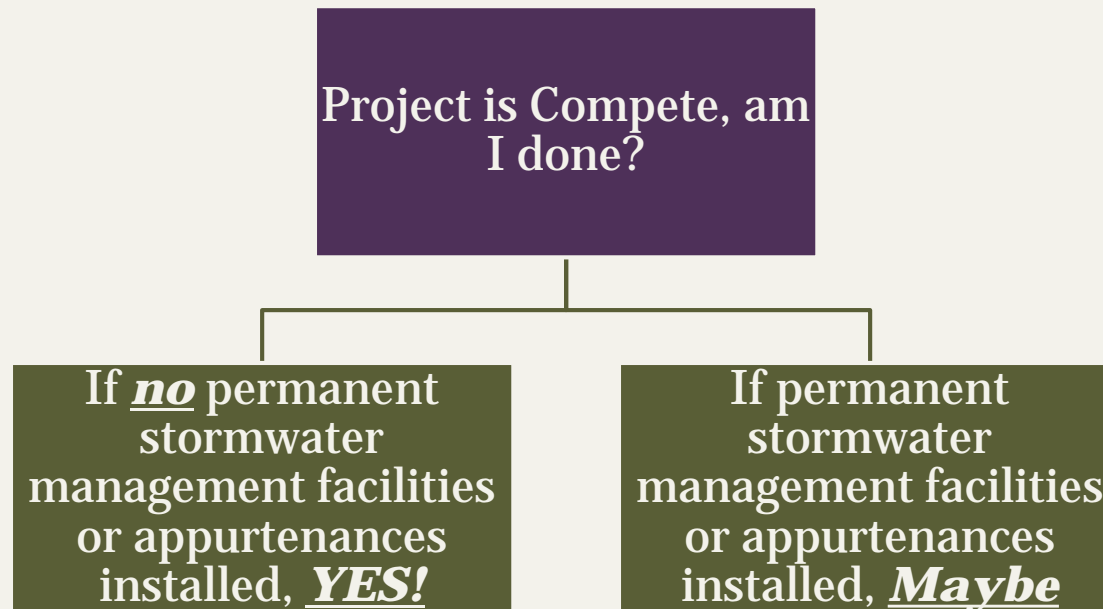


Onsite approval of BMP's installation
by MCESD



Routine inspections by MCESD to
ensure maintenance of BMP's

Application Tips



Exemptions are listed in 1103.2 of the Maricopa County Stormwater Quality Management and Discharge Control Regulation

Post Construction Permitting Process

Copy of Notice of Termination Acknowledgment received by ADEQ

Copy of As-Built Civil Engineering Plans

Copy of Operations and Maintenance (O&M) Manual

Copy of O&M Agreement

Vicinity map

Once the application package is reviewed and approved

The O&M plan shall be recorded with the Maricopa County Recorder's Office **AND**

A permit/approval letter is issued to the owner

Questions



*Working with our community
to ensure a safe and
healthy environment*

Souren Naradikian, P.E.

Engineer

Maricopa County Environmental Services Department
1001 N. Central Avenue, Suite 401, Phoenix, AZ 85004

Desk: 602.372.2907 | Fax: 602.506.5813

sourennaradikian@mail.maricopa.gov | esd.maricopa.gov

