

An Overview of General Permits in the Aquifer Protection Program

SAEMS Regulatory Roundup

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February 23, 2011

Categorical Discharging Facilities

- Surface impoundments
- Solid waste disposal facilities
- Injection wells
- Land treatment facilities
- Facilities that add pollutant to salt dome, salt bed, drywell or underground cave or mine
- Mine tailings piles and ponds



Categorical Discharging Facilities, cont'

- Mine leaching operations
 - Underground water storage facilities
 - Sewage treatment facilities
 - Wetlands that treat municipal or industrial wastewater for underground storage
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Type 1 General Permits (subject to conditions)

AAC R18-9-B301

- Automatically covered if facility/ activity meets the general provisions & specific terms of the Type 1
- No NOI; no reporting, monitoring or fees
- Type 1.01 – discharge of wash water from sand and gravel, placer mining, or similar operation
- Type 1.02 – hydrostatic tests of a drinking water system & pipelines
- Type 1.03 – hydrostatic tests of a pipeline, etc
- Type 1.04 – discharge to the same aquifer in approximately the same location
- Type 1.05 – discharge <1000 gpd: filter backwash (drinking water or swimming pool), condensate, evaporative cooler overflows, heat exchange system return water

Type 1 General Permits, cont'd

- Type 1.06 – waste tire burial at the mine site
 - Type 1.07 – operation of dockside facilities & watercraft
 - Type 1.08 – fixed/ portable privies & toilets, if allowed by a county health or environmental dept.
 - Type 1.09 – <20,000 gpd sewage or on-site WWTP operating before Jan. 1, 2001
 - Type 1.10* – grandfathers >3000 gpd sewage collection system installed before January 1, 2001
 - Type 1.11* – < 3000 gpd sewage collection system
*anything newer needs a Type 4 permit
 - Type 1.12 – concrete washouts; tied to an AZPDES Construction General Permit
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Type 2 General Permits

- Submit NOI; pay applicable fee
 - Meet the general provisions of AAC R18-9-A301 & specific terms of the Type 2 permit (R18-9-C301-306)
 - **Type 2.01** – Drywells where hazardous substances are present
 - **Type 2.02** – Intermediate stockpiles at mining sites
 - **Type 2.03** – Hydrologic tracer studies
 - **Type 2.04** – Drywells where motor fuel is present
 - Type 2.05 – Manage, operate, and maintain a sewage collection system under a CMOM (Capacity, Management, Operation, and Maintenance) Plan
 - Type 2.06 – Fish hatchery discharge to a perennial surface water
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AAC R18-9-C302: Type 2.02 – Intermediate stockpiles at mining sites

- Submit the construction and operation specifications used to satisfy the permit's requirements:
 - ❑ Cannot not impound water
 - ❑ Direct storm runoff to the pit or other permitted facility
 - ❑ Maintain any engineered feature in good working condition
 - ❑ Visually inspect the facility at least quarterly and repair any defect as soon as practical
 - Closure requirements
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AAC R18-9-C303: Type 2.03 – Hydrologic tracer studies

- Supplemental information:
 - Narrative description of the tracer test including the type and amount of tracer used;
 - MSDS of the tracer
 - Unless within a passive containment system of A.R.S. § 49-243(G), submit a narrative description of the impacts, anticipated effects and concentrations, monitoring
- Design and operational requirements for the injection well and monitoring requirements
- Recordkeeping requirements
- Closure requirements

Two general permits for drywells



- Type 2.01
- Areas where hazardous substances are used, stored, loaded, or treated
- AAC R18-9-C301
- Type 2.04
- Areas where motor fuels are used, stored or loaded
- Vehicle service bays are not covered under this general permit
- AAC R18-9-C304

Similarities of the drywell GPs

- Register the drywell
 - Stormwater disposal only
 - Utilize a flow control & / or pre-treatment technology
 - Design, operational, inspection, recordkeeping & reporting requirements
 - Closure and decommissioning requirements
 - Bottom of drywell must be 10 ft. or more above water table
 - Meet surface setback requirements
 - Five year life / renewable
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Drywells Draining Hazardous Substance Areas

APP Type 2.01

- Kinds of facilities needing these permits:
 - Sites where hazardous materials are stored, used, loaded, treated
 - Where a flow control / pretreatment technology must be tailor-made to fit site
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Drywells Draining Motor Fuel Dispensing Areas

APP Type 2.04

- Type 2.04 is specifically written for fuel dispensing facilities that have drywells for stormwater management:
 - A commercial gasoline station with an underground storage tank
 - Motor fuel dispensing facility owned/ operated by a federal, state, county, or local government
 - Other motor fuel dispensing facility
 - Vehicle service bays are not covered under this general permit
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Type 3 General Permits

- Submit NOI; pay applicable fee
 - Meet the general provisions of AAC R18-9-A301 & specific terms of the Type 3 permit (R18-9-D301-307)
 - Satisfy any deficiency requests
 - Receive a written Discharge Authorization from ADEQ
 - Type 3.01 – Lined impoundments
 - Type 3.02 – Process water discharges from water treatment facilities
 - Type 3.03 – Vehicle and equipment washes
 - Type 3.04 – Non-stormwater impoundments at mining sites
 - Type 3.05 – Disposal wetlands
 - Type 3.06 – Constructed wetlands to treat acid rock drainage at mining sites
 - Type 3.07 – Tertiary treatment wetlands
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AAC R18-9-D301: Type 3.01 – Lined impoundments

- Allows for a lined surface impoundment or lined secondary containment structure
 - Supplemental information required with the NOI
 - Only certain types of discharges are authorized
 - Design and installation requirements
 - Operational requirements
 - Recordkeeping requirements
 - Reporting requirements
 - Closure requirements
 - Notify ADEQ that the closure is complete
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AAC R18-9-D303: Type 3.03 – Vehicle and equipment washes

- Prohibited discharges:
 - ❑ Vehicle engine washing, unless the discharge is to a lined surface impoundment
 - ❑ Sanitary sewage, vehicle lubricating oils, antifreeze, gasoline, paints, varnishes, solvents, pesticides, or fertilizers
 - ❑ Washing the interior of vessels used to transport fuel products or chemicals, or washing equipment contaminated with these pollutants
 - ❑ Washing the interior of vehicles used to transport mining concentrates originating from the same mine site, unless the discharge is to a lined surface impoundment
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Permit requirements – vehicle and equipment washes

- Design, installation, and testing requirements
 - Operational requirements
 - Recordkeeping requirements
 - Monitoring requirements
 - Closure requirements
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AAC R18-9-D304: Type 3.04 – Non-storm-water impoundments at mining sites

■ Discharges allowed:

- ❑ Seepage from tailing impoundments, unleached rock piles, or process areas
- ❑ Temporary storage of process solutions
- ❑ Stormwater / non-stormwater mixture & other runoff
- ❑ Wash water specific to sand and gravel operations not covered by Type 1.01

■ Prohibitions:

- ❑ Not for continual storage; or
 - ❑ ARS § 49-243(I) toxic/ organics that will compromise the liner
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Permit requirements – non-stormwater impoundments at mining sites

- Design, construction, and installation requirements
 - Operational requirements
 - Recordkeeping requirements
 - Reporting requirements
 - Closure requirements
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General permit application fees are flat fees, non-refundable, not charged by the hour

Currently:

■ Application Fees

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| □ Type 2 General Permit | \$600 |
| □ Type 3 General Permit | \$3000 |

■ Renewal Fees

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| □ Type 2 General Permit | \$200 |
| □ Type 3 General Permit | \$1000 |

■ Transfer Fees

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| □ Type 2 General Permit | \$50 |
| □ Type 3 General Permit | \$50 |
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General permit fees, cont'd

Proposed for 2011:

■ Type 2 Application Fees

- Standard \$1500
- Complex \$3000

■ Type 3 Application Fees

- Standard \$4500
- Complex \$7500

■ Renewal Fees

- Type 2 standard \$500
- Type 2 complex \$1000
- Type 3 standard \$1500
- Type 3 complex \$2500

Multiple Type 2 & Type 3 permits, substantially similar in design, etc. on the same site:

initial permit fee; 50% for each additional permit

General Permit Fees, cont'd

- Submit payment with the NOI
 - Non-refundable, flat fee, not charged by the hour
 - ADEQ will not review any general or individual permit if:
 - Initial fee has not been paid
 - An outstanding balance exists for other Groundwater Section bills not under appeal
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