



**STATE OF ARIZONA
DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PHOENIX, ARIZONA 85007**

**ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM
GENERAL PERMIT FOR POINT SOURCE DISCHARGES FROM THE APPLICATION OF PESTICIDES
TO WATERS OF THE UNITED STATES**

This permit provides authorization for point source discharges from the application of pesticides to waters of the United States under the Arizona Pollutant Discharge Elimination System (AZPDES) program, in compliance with the provisions of the Arizona Revised Statutes, Title 49, Chapter 2, Article 3.1, the Arizona Administrative Code (A.C.C.), Title 18, Chapter 9, Article 9, and the Clean Water Act as amended (33 U.S.C.1251 et seq.).

This general permit specifically authorizes only point source discharges from the application of pesticides to waters of the United States in Arizona by those operators who meet the eligibility requirements of this permit and who comply with the general permit requirements and conditions. All discharges authorized by this general permit shall be consistent with the terms and conditions of this general permit.

This general permit becomes effective on _____, 2011.

This general permit and the authorization to discharge expire at midnight, _____, 2016.

Issued this ____ day of _____, 2011.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Michael A. Fulton, Director
Water Quality Division

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1.0 COVERAGE UNDER THIS GENERAL PERMIT

1.1 Permit Area

This general permit covers the state of Arizona, except for Indian Country.¹

1.2 Eligibility

This permit covers any operator that meets the eligibility requirements identified in section 1.2

Any discharges that are not consistent with the eligibility conditions of this permit are not authorized by this permit. A person shall either apply for a separate Arizona Pollutant Discharge Elimination System (AZPDES) permit to cover such discharge(s), cease the discharge(s), or take necessary steps to make the discharge(s) eligible for coverage under this permit.

1.2.1 Activities Covered

This permit is available to operators who discharge to waters of the U.S. from the application of (1) biological pesticides or (2) chemical pesticides that leave a residue (hereinafter collectively "pesticides"), when the pesticide application is for one (1) of the following pesticide use patterns:

- a. Mosquito and Other Flying Insect or Pest Control – to control public health/nuisance pests which develop or are present during a portion of their life cycle in or above standing or flowing water. Public health/nuisance and other insect pests in this use category include but are not limited to mosquitoes and black flies.
- b. Weed, Algae, and Vegetation (herbaceous and woody) Control – to control invasive or other nuisance weeds, vegetation, and algae in water and at water's edge, including irrigation ditches and/or irrigation canals.
- c. Nuisance Animal Control² – to control invasive or other nuisance animals in water and at water's edge. Nuisance animals in this use category include, but are not limited to fish, lampreys, and mollusks.
- d. Forest Canopy Pest Control – the application of a pesticide to the forest canopy to control the population of a pest species (e.g., insect or pathogen) where to target the pests effectively, a portion of the pesticide unavoidably will be applied over and deposited to water.
- e. Specific Approvals – other similar pesticide discharges determined to be in the scope of this permit and approved in writing by the department in advance of the discharge.

1. The state of Arizona, Department of Environmental Quality, Water Quality Division, does not have permitting authority for Indian Country. Pesticide discharge permits for Indian Country within the state shall be acquired through the Environmental Protection Agency (EPA) Region 9 or other appropriate permitting authority.

2. The use of pesticides to kill (take) aquatic wildlife (aquatic vertebrate animals, crustaceans, and mollusks) is strictly limited under A.R.S. Title 17-301. Any use of an aquatic pesticide for removal of aquatic wildlife should be coordinated with the Arizona Game and Fish Department.

1.2.2 Limitations of Coverage

1.2.2.1 Discharges to Impaired Waters

An operator is not automatically eligible for coverage under this permit for any discharges from a pesticide application to waters of the U.S. if the water is identified as impaired by that pesticide or its degradates. For purposes of this permit, impaired waters are those that have been identified by ADEQ or EPA pursuant to section 303(d) of the CWA as not meeting applicable water quality standards. A list of these impaired waters is available at:

http://www.azdeq.gov/environ/water/assessment/download/2008/2006_2008.pdf

If your discharge would not be eligible under this permit because the water is listed as impaired for that specific pesticide, but you have evidence that shows the water is no longer impaired, you may submit this information to ADEQ and request that coverage be allowed under this permit.

- a. To be considered for coverage under this permit, the applicant shall submit a Notice of Intent (NOI) and Pesticide Discharge Management Plan (PDMP) (see section 6) to ADEQ. The PDMP shall specifically identify and evaluate control measures to meet effluent limitations and minimize discharges to impaired waters.
- b. If a discharge contains pollutants for which a Total Maximum Daily Load (TMDL) has been established, the PDMP shall specifically identify control measures necessary to ensure the discharges will be consistent with the provisions of the TMDL.
- c. If the operator receives a notification from ADEQ that the PDMP is incomplete or otherwise found to be deficient, the operator shall revise it to address the department's comments. Prior to authorization, ADEQ may require specific control measures or specific Best Management Practices (BMPs) be implemented.
- d. Within 31 calendar days of receipt of the PDMP and a complete and accurate NOI, ADEQ will notify the operator whether: 1) it is acceptable to proceed under this general permit; 2) the PDMP requires revisions; or 3) there is cause for eligibility denial. If notification is not received in this time frame, the operator may assume coverage under this permit.
- e. Where the existing water quality does not meet applicable water quality standards (i.e., impaired water), further degradation is not allowed under this permit. If an operator's discharge causes or contributes to non-attainment of standards, more effective and/or additional control measures shall be added. If after the implementation of additional and/or more effective control measures the discharge continues to contribute to nonattainment, the operator shall cease all discharges under this permit and apply for coverage under an individual permit.

1.2.2.2 Discharges to Outstanding Arizona Waters (OAWs)

An operator is not automatically eligible for coverage under this permit for discharges from a pesticide application to waters designated as an OAW in A.A.C. R18-11-112(G). A list of Outstanding Arizona Waters is available at:

http://www.azsos.gov/public_services/Title_18/18-11.htm

- a. To be considered for coverage under this permit, the applicant shall submit a NOI and PDMP (see section 6) to ADEQ. The PDMP shall specifically identify and

evaluate control measures to meet effluent limitations and minimize discharges to outstanding Arizona waters.

- b. If the operator receives a notification from ADEQ that the PDMP is incomplete or otherwise found to be deficient, the operator shall revise it to address the department's comments. Prior to authorization, ADEQ may require specific control measures or specific BMPs be implemented.
- c. Within 31 calendar days of receipt of the PDMP and a complete and accurate NOI, ADEQ will notify the operator whether: 1) it is acceptable to proceed under this general permit; 2) the PDMP requires revisions; or 3) there is cause for eligibility denial. If notification is not received in this time frame, the operator may assume coverage under this permit.

1.2.2.3 Discharges Covered by Another AZPDES Permit

You are not eligible for coverage under this permit if any of the following circumstances apply:

- a. The discharges are covered by another AZPDES permit, or
- b. The discharges were included in a permit that within the last five (5) years has been or is in the process of being denied, terminated, or revoked by ADEQ (this does not apply to the routine reissuance of permits every five [5] years).

2.0 AUTHORIZATION TO DISCHARGE UNDER THIS GENERAL PERMIT

Important: The operator shall read and understand all the conditions and requirements of this permit prior to the first discharge activity.

2.1 Effective Date of Permit Coverage

Notwithstanding sections 1.2.2.1 and 1.2.2.2, and subject to all other applicable terms and conditions of this permit, operators are automatically covered on the effective date of this permit until July 18, 2011. Pesticide discharge activities requiring an NOI (section 2.4.a and 2.4.b) after July 18, 2011 must be submitted at least seven (7) days before the planned discharge activity.

Operators that discharge to an impaired water (section 1.2.2.1), an outstanding Arizona water (1.2.2.2) and operators requesting specific approval (section 1.2.1.e) are not automatically covered and must submit an NOI at least 31 calendar days before the planned discharge activity.

2.2 How to Obtain Authorization

To obtain authorization under this permit:

- a. You must meet the eligibility requirements under section 1.2; and
- b. Operators (decision maker, section 2.3.a) engaging in one or more of the pesticide discharge activities identified in section 2.4 must submit a complete and accurate NOI prior to the pesticide discharge.
- c. Operators whose discharges are not subject to the requirement to submit an NOI, as identified in section 2.4, are automatically authorized to discharge on the effective date of this permit in compliance with all other applicable requirements of this permit without submitting a NOI.

An NOI provides notice of an operator's intent for discharges from its pesticide application activities to be covered under this permit. Authorization to discharge extends to the

operator who filed the NOI, including its employees, contractors, subcontractors, and other agents, for all activities identified on the NOI for the duration of this permit unless coverage is terminated pursuant to sections 2.6 or 2.7. If a submitted NOI is not timely, accurate, or complete, then any employee, contractor, subcontractor or other entity that discharges without the required NOI is not covered by this permit.

2.3 Persons Subject to This Permit (Operator)

For the purpose of this permit, those persons that meet one (1) or both of the following definitions of an *operator* are subject to the requirements of this permit:

- a. Decision Maker – the *person* responsible for the decision (and ability to modify that decision) to conduct the pesticide application that results in a *discharge*; and
- b. Applicator – the *person* that conducts the pesticide application, or has day to day control of the pesticide application, that results in a *discharge*.

2.4 Pesticide Discharges Requiring a NOI

Operators (decision makers) discharging pesticides characterized by one (1) or more of the following categories must submit a complete and accurate NOI to the department:

- a. Discharges to waters designated as aquatic and wildlife (warm or cold water);
- b. Discharges to effluent dependant waters that flow more than 2.5 miles from the nearest point source;
- c. Discharges to impaired waters (see section 1.2.2.1);
- d. Discharges to Outstanding Arizona Waters (see section 1.2.2.2); and
- e. Specific approvals (see section 1.2.1.e).

Additionally, the department may, on a case-by-case basis, specifically require that an operator submit a NOI. This request may be made in consideration of the amount or type of pesticide to be used, the treatment area, and other factors in consideration of protecting public health and the environment.

For pesticide discharge activities that involve more than one (1) operator, only the *decision maker* (i.e., the person with control over the decision to conduct pesticide applications including the ability to modify those decisions) is required to submit a NOI. The *decision maker* shall identify the *applicator* on the NOI if the *applicator* is a different person than the *decision maker*. Note, although the applicator is not required to submit a NOI, the applicator is still an *operator* and subject to other terms and conditions of this permit.

2.4.1 NOI Requirements

Operators identified in section 2.3 seeking authorization for pesticide discharges under this general permit shall submit (by photocopy, facsimile, email, or electronically) a complete and accurate AZPDES NOI form to ADEQ. The NOI form contains, at a minimum, the following:

- a. The name, address, and telephone number of the owner of the facility or discharge activity;
- b. The name, address, and telephone number of the operator of the facility or activity, if different than the owner;
- c. The type(s) of pesticide use pattern(s);
- d. If the operator is requesting specific approval (section 1.2.1.e), include a copy of the PDMP with the NOI;

- e. An accurate (within 15 seconds) latitude and longitude (in degrees/minutes/seconds format) of the water subject to the pesticide application, or the closest receiving water that may be impacted by the pesticide application;
- f. Whether any section of the site is located on Indian Country;
- g. If required by section 6, provide confirmation that a PDMP meeting the requirements in section 6 of this permit has been developed and will be implemented prior to commencement of pesticide discharge activity. If the NOI is a late application, the operator shall certify that a PDMP has been developed and implemented prior to submittal of the NOI;
- h. The location where the PDMP may be viewed and the name and telephone number of the contact person;
- i. Provide the name(s) of the closest receiving water(s) which may include unnamed washes;
- j. The estimated start and completion dates for the discharge activity;
- k. Whether the pesticide will be applied directly to, or has the potential to reach, an impaired or Outstanding Arizona Water, and if so include a copy of the PDMP with the NOI (see sections 1.2.2.1 and 1.2.2.2);
- l. The watershed in which the discharge is to occur; and
- m. The following certification statement, signed and dated by a qualified signatory, as defined in section 9.10, and the name and title of the person who signs:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision, as applicable, in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, I believe the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition as an owner or operator, I certify that I have reviewed and intend to comply with all terms and conditions stipulated in 2011 Pesticide General Permit No. AZG2011-001 issued by the director."

2.4.2 Type of Permit Coverage and Associated Fee

In addition to the NOI information required by section 2.4.1, an applicant must identify if permit coverage is for:

- a. Single source discharge – a discharge activity to one (1) receiving water, but may be recurring throughout the term of this permit. A single source discharge is subject to AZPDES Level 1A fees as listed in A.A.C. R18-14-109, Table 6, under the category, General Permits for Non-Stormwater Discharges. The initial fee for a single source discharge is \$250.00. The annual fee is \$250.00.
- b. Areawide discharge – discharges to two (2) or more receiving waters and may be recurring throughout the term of this permit. However, separate NOIs are required for areawide discharges that cross a watershed, a political boundary, district (irrigation, flood control, etc), or other discernable political or geographic boundary. Areawide permit coverage is subject to AZPDES Level 1B fees as listed in A.A.C. R18-14-109, Table 6, under the category, General Permits for Non-Stormwater Discharges. The initial fee for areawide coverage is \$500.00. The annual fee is \$500.00.

The initial fee must be included with the NOI when submitted to ADEQ otherwise the NOI

will be considered incomplete and returned. The department will invoice the permittee annually until such time as permit coverage is terminated pursuant to section 2.6

2.4.3 Where to Submit

The applicant shall submit the NOI electronically via the Smart NOI website (if available) or submit a paper copy to:

Arizona Department of Environmental Quality
Surface Water Section/Stormwater and General Permits
1110 W. Washington Street, 5415A-1
Phoenix, Arizona 85007
or facsimile to (602) 771-4528

*Note: The operator will receive an Authorization Certificate (by mail, faxed, or electronically via the Smart NOI system for electronic submittals with e-signatures, if available) assigning a permit authorization number and stating the approval date. This Authorization Certificate is **not** the permit - it merely acknowledges the NOI has been received by the department and the operator is authorized to discharge subject to the terms and conditions of this general permit.*

2.4.4 Routine Coverage

Except as provided in sections 1.2.2.1 through 1.2.2.3, an eligible operator that is required to submit a NOI is authorized to discharge pesticides seven (7) calendar days after a signed NOI is received by the department or when an authorization certificate is issued, whichever is earlier. However, in order to rely on the seven (7) calendar day "default" provision, the operator must submit the NOI in a manner that documents the date of ADEQ's receipt (i.e., certified mail, hand delivery, or other form of receipt).

Operators that are not required to submit a NOI have immediate coverage, subject to all other terms and conditions of this permit.

2.4.5 Discharges to Impaired or Outstanding Arizona Waters

Applicants proposing a pesticide discharge to an impaired water or Outstanding Arizona Water are not authorized to discharge under this permit for a minimum of 31 calendar days following receipt of the signed NOI and complete PDMP. ADEQ may notify operators within this time frame that there is cause for a pesticide discharge management plan amendment or denial of coverage as specified in sections 1.2.2.1 and 1.2.2.2 of this permit. If notification is not received in the 31-calendar-day time period, the operator must verify with the department that the Surface Water Section received the NOI and PDMP prior to commencement of pesticide application.

2.4.6 NOIs Requiring Additional Evaluation

If ADEQ notifies an operator within seven (7) of receipt of the NOI that review of the NOI identifies information requiring further evaluation, the operator shall not discharge for up to 31 calendar days. This notification may be made either in writing, electronic mail, by facsimile or phone contact. Operators receiving notice of a delay in coverage may discharge 31 calendar days after the date the signed NOI is received unless further notice is received from ADEQ during this time period. Such further notice may confirm authorization to discharge or deny permit coverage and require an application for an individual permit.

2.4.7 Incomplete NOI

If ADEQ notifies the applicant that an NOI is incomplete or incorrect, the operator shall resubmit an amended NOI if the operator still intends to obtain coverage under this permit; and

Whether or not ADEQ notifies the applicant of a deficiency in the NOI, discharges are not authorized under this permit if the operator submits an incomplete or incorrect NOI.

2.4.8 Change in Operators

For projects where the operator changes, including instances where an operator is added after an NOI has been submitted, the new operator shall file for an NOI and receive an authorization certificate prior to the first pesticide discharge.

2.4.9 Late Applications

Operators that are required to submit a NOI pursuant to section 2.4 are only permitted for discharges that occur after a complete and accurate NOI is received by ADEQ and authorization is granted. ADEQ reserves the right to take enforcement action for any unpermitted discharges or permit non-compliance that occurs between the time the pesticide discharge was initiated and either permit authorization is granted or denied.

2.5 Continuation of this Permit

If this permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with Arizona Administrative Code R18-9-C903 and remain in force and effect. If you were authorized to discharge under this permit prior to the expiration date, any discharges authorized under this permit will automatically remain covered by this permit until the earliest of:

- a. Your authorization for coverage under a reissued permit or a replacement of this permit following your timely and appropriate submittal of a complete NOI requesting authorization to discharge under the new permit and compliance with the requirements of the NOI;
- b. The processing and posting of your Notice of Termination (NOT) consistent with section 2.6;
- c. The issuance or denial of an individual permit for a discharge resulting from application of a pesticide that would otherwise be covered under this permit;
- d. A formal permit decision by ADEQ not to reissue this general permit, at which time ADEQ will identify a reasonable time period for covered dischargers to seek coverage under an alternative general permit or an individual permit. Coverage under this permit will cease when coverage under another permit is granted/authorized; or
- e. ADEQ has informed you that you are no longer covered under this permit.

2.6 How to Terminate Coverage

2.6.1 Submitting a Notice of Termination (NOT)

To terminate permit coverage, an operator who is required to submit an NOI as identified in section 2.4, must submit a complete and accurate Notice of Termination (NOT) to ADEQ. If you submit a NOT without meeting one (1) or more of the conditions identified in section 2.6.2, then your NOT is not valid. You are responsible for complying with the terms of this permit until your authorization is terminated. If you are required to submit annual reports pursuant to section 8, you must file an annual report for the portion of the

year up through the date of your termination. The annual report is due no later than 45 days after your termination date.

Permit coverage for operators covered under this permit that are not required to submit an NOI is automatically terminated when there is no longer a discharge from the application of pesticides or the discharges are covered under an AZPDES individual permit or alternative AZPDES general permit.

2.6.2 When to Submit a Notice of Termination

To terminate permit coverage, the operator who submitted the NOI must submit a complete and accurate NOT to the department at the address listed in section 2.4.3. Authorization to discharge terminates at midnight of the day that a complete and accurate NOT is received by the department. An operator is eligible to terminate permit coverage when one of the following conditions has been met:

- a. A new operator has taken over responsibility of your pest control activities. In such cases, you must submit an NOT within 30 calendar days of the new operator taking over control of the discharge activity;
- b. You have ceased all discharges from the application of pesticides for which you obtained permit coverage and you do not expect to discharge during the remainder of the permit term for any of the use patterns as identified in section 1.2.1; or
- c. You have obtained coverage under an individual permit or an alternative general permit for all discharges required to be covered by an AZPDES permit, unless you obtained coverage consistent with section 2.7, in which case coverage under this permit will terminate automatically.

The operator is responsible for meeting the terms and conditions of this permit until such time permit coverage is terminated.

2.6.3 The NOT Form at a Minimum Shall Include

- a. The AZPDES authorization number for the pesticide discharge;
- b. The basis for submitting the NOT;
- c. The name, address, and telephone number of the operator submitting the NOT;
- d. The name of the project and street address (or a description of location if no street address is available) of the pesticide application site for which the notification is submitted;
- e. An accurate (within 15 seconds) latitude and longitude (in degrees/minutes/seconds format) of the water subject to the pesticide application, or the closest receiving water that may be impacted by the pesticide application; and
- f. The following certification, signed by a qualified signatory as defined in section 9.10 of this permit, the printed name and title of the person who signs, and including the date of signature.

"I certify under penalty of law that all pesticide discharges that are permitted by the authorization number indicated above have been eliminated or that I no longer meet the definition of an operator for the permitted discharge. I understand that by submitting this Notice of Termination, I am no longer permitted to discharge pesticides under this authorization number and that discharging pollutants to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES or AZPDES permit. I also understand that the submittal of this Notice of Termination does not release me from liability for any violations of

this permit or the Clean Water Act.”

2.6.4 Where to Submit

The operator shall submit the complete and accurate NOT form electronically via the Smart NOI website (if available) or submit a paper copy to:

Arizona Department of Environmental Quality
Surface Water Section/Stormwater and General Permits
1110 W. Washington Street, 5415A-1
Phoenix, Arizona 85007
or fax to (602) 771-4528

Note: The permittee will receive an acknowledgement letter terminating coverage upon ADEQ's processing of the permittee's completed NOT form.

2.6.5 Effective Date of Permit Termination

Authorization to discharge terminates under this permit at midnight on the date the NOT is received by the department.

2.6.6 Operators Not Required to Submit a NOI

Operators covered under this permit that are not required to submit an NOI are terminated from permit coverage when they no longer have a discharge from the application of pesticides or their discharges are covered under an AZPDES individual permit or alternative AZPDES general permit.

2.7 Alternative Permits

2.7.1 Coverage under an Alternative Permit

ADEQ may require you to apply for authorization to discharge under either an individual AZPDES permit or an alternative AZPDES general permit in accordance with A.A.C. R18-9-C902(A).

2.7.2 Operator Requesting Coverage under an Alternative Permit

An operator who does not want to be covered by this general permit, but needs permit coverage, can apply for an individual permit pursuant to A.A.C. R18-9-C902(B). The request may be granted by issuance of an individual permit or authorization of coverage under an alternative general permit, if warranted.

When permit coverage is issued under an alternative AZPDES individual or general permit, authorization to discharge under this permit is terminated on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit.

2.8 Severability

Invalidation of a portion of this permit does not render the whole permit invalid. ADEQ's intent is that the permit will remain in effect to the extent possible; in the event that any part of this permit is invalidated, the remaining parts of the permit will remain in effect

unless ADEQ issues a written statement otherwise.

2.9 Other Federal and State Laws

You must comply with all other applicable federal and state laws and regulations that pertain to your application of pesticides. For example, this permit does not negate the requirements under Federal Insecticide Fungicide and Rodenticide Act (FIFRA) and its implementing regulations to use registered pesticides consistent with the product's labeling. Additionally, there are other laws and regulations that may apply to certain activities that are also covered under this permit (e.g., Arizona Game and Fish regulations).

3.0 TECHNOLOGY-BASED EFFLUENT LIMITATIONS

To meet the effluent limitations in section 3, you must implement site-specific control measures that minimize discharges of pesticides to waters of the U.S. The terms "minimize" and "control measure" are defined in section 11.

3.1 Minimize Pesticide Discharges to Waters of the United States

All operators, regardless of whether you are required to submit an NOI, must minimize the discharge of pollutants resulting from the application of pesticides. All operators must also do the following:

- 3.1.1** Use the lowest effective amount of pesticide product per application and optimum frequency of pesticide applications necessary to control the target pest;
- 3.1.2** Perform regular maintenance activities to reduce leaks, spills, or other unintended discharges of pesticides associated with the application of pesticides covered under this permit; and
- 3.1.3** Maintain pesticide application equipment in proper operating condition by adhering to any manufacturer's conditions and industry practices, and by calibrating, cleaning, and repairing such equipment on a regular basis to ensure effective pesticide application and pest control. You must ensure that the equipment's rate of pesticide application is calibrated to deliver the precise quantity of pesticide needed to achieve greatest efficacy against the target pest.

3.2 Pest Management Measures (PMM)

Operators required to submit an NOI (pursuant to section 2.2) that engage in a discharge of pesticides that meets or exceeds the annual threshold(s) identified in Table 3.2 must comply with the PMM practices of this section.

Table 3.2	
Pesticide Use	Annual Threshold
<i>Mosquitoes and Other Flying Insect Pests</i>	
In Water	6,400 acres of treatment area ¹
<i>Weed, Algae and Vegetation Control</i>	
In Water	80 acres of treatment area ²
At Water's Edge	20 linear miles of treatment area at water's edge ²
<i>Nuisance Animal Control</i>	
In Water	80 acres of treatment area ²
At Water's Edge	20 linear miles of treatment area at water's edge ²
<i>Forest Canopy Pest Control</i>	
In Water	6,400 acres of treatment area ¹
<i>Discharges to Impaired Waters or Outstanding Arizona Waters</i>	
In Water	Any amount
At Water's Edge	Any amount
<i>Specific Approvals</i>	
In Water	Any amount
At Water's Edge	Any amount

¹ Each pesticide application is to be added for a cumulative total and compared to the annual threshold.

² Count each area only one (1) time regardless of number of pesticide applications to each area annually.

If your discharge of pollutants results from the application of a pesticide that is being used solely for the purpose of "pesticide research and development," as defined in section 11, you are not required to fully implement section 3.2 for such discharge, but you still must implement section 3.2 to the extent that its requirements do not compromise the research design.

Note: Section 6 of this permit requires any operator that is required to submit an NOI and exceeds the thresholds identified in Table 3.2 to also develop and implement a written Pesticide Discharge Management Plan (PDMP) to document measures taken to meet the effluent limits.

3.2.1 Mosquito and Other Flying Insect or Pest Control

This section applies to discharges from the application of pesticides for mosquito and other flying insect or pest control as identified in section 1.2.1.

3.2.1.1 Identify the Problem

Prior to the first pesticide application covered under this permit that will result in a discharge to waters of the U.S., and at least once each calendar year thereafter prior to the first pesticide application for that calendar year, you must do the following for each pest management area, as defined in section 11:

- a. Establish densities for larval and adult mosquito or flying insect pest populations to serve as action threshold(s) for implementing pest management strategies;
- b. Identify target mosquito or flying insect pest species to develop species-specific pest management strategies based on developmental and behavioral considerations for each species;
- c. Identify known breeding sites for source reduction, larval control program, and habitat management;
- d. Analyze existing surveillance data to identify new or unidentified sources of mosquito or flying insect pest problems as well as sites that have recurring pest problems; and
- e. In the event there are no data for your pest management area in the past calendar year, see section 6 for documentation requirements regarding why current data are not available and the data you used to meet the permit conditions in section 3.2.1.1

3.2.1.2 Pest Management

Prior to the first pesticide application covered under this permit that will result in a discharge to waters of the U.S., and at least once each calendar year thereafter prior to the first pesticide application for that calendar year, you must select and implement, for each pest management area, efficient and effective means of pest management that minimize discharges resulting from application of pesticides to control mosquitoes or other flying insect pests. In developing these pest management strategies, you must evaluate the following management options, considering impact to water quality, impact to non-target organisms, feasibility, and cost effectiveness:

- a. No Action
- b. Prevention
- c. Mechanical or Physical Methods
- d. Cultural Methods
- e. Biological Control Agents
- f. Pesticides

3.2.1.3 Pesticide Use

If a pesticide is selected to manage mosquitoes or flying insect pests and application of the pesticide will result in a discharge to waters of the U.S., you must:

- a. Conduct larval and/or adult surveillance prior to each pesticide application to assess the pest management area and to determine when action threshold(s) are met that necessitate the need for pest management;
- b. Assess environmental conditions (e.g., temperature, precipitation, and wind speed) in the treatment area prior to each pesticide application to identify whether existing environmental conditions support development of pest populations and are suitable for control activities;
- c. Reduce the impact on the environment and on non-target organisms by applying the pesticide only when the action threshold has been met;

- d. In situations or locations where practicable and feasible for efficacious control, use larvicides as a preferred pesticide for mosquito or flying insect pest control when larval action thresholds have been met; and
- e. In situations or locations where larvicide use is not practicable or feasible for efficacious control, use adulticides for mosquito or flying insect pest control when adult action thresholds have been met.

3.2.2 Weed, Algae and Vegetation (herbaceous and woody) Control

This section applies to discharges from the application of pesticides for weed, algae and vegetation control as identified in section 1.2.1.

3.2.2.1 Identify the Problem

Prior to the first pesticide application covered under this permit that will result in a discharge to waters of the U.S., and at least once each calendar year thereafter prior to the first pesticide application for that calendar year, you must do the following for each pest management area, as defined in section 11:

- a. Identify areas with weed or algae problems and characterize the extent of the problems, including, for example, water use goals not attained (e.g., wildlife habitat, fisheries, vegetation, and recreation);
- b. Identify target weed species;
- c. Identify possible factors causing or contributing to the weed or algae problem (e.g., nutrients, invasive species);
- d. Establish past or present weed or algae densities to serve as action threshold(s) for implementing pest management strategies; and
- e. In the event there are no data for your pest management area in the past calendar year, see section 6 for documentation requirements regarding why current data are not available and the data you used to meet the permit conditions in section 3.2.2.1.

3.2.2.2 Pest Management

Prior to the first pesticide application covered under this permit that will result in a discharge to waters of the U.S., and at least once each calendar year thereafter prior to the first pesticide application for that calendar year, you must select and implement, for each pest management area, efficient and effective means of pest management that minimize discharges resulting from application of pesticides to control weeds, algae and vegetation. In developing these pest management strategies, you must evaluate the following management options, considering impact to water quality, impact to non-target organisms, feasibility, and cost effectiveness:

- a. No Action
- b. Prevention
- c. Mechanical or Physical Methods
- d. Cultural Methods
- e. Biological Control Agents
- f. Pesticides

3.2.2.3 Pesticide Use

If a pesticide is selected to manage weeds or algae and application of the pesticide will result in a discharge to waters of the U.S., you must:

- a. Conduct surveillance prior to each pesticide application to assess the pest management area and to determine when the action threshold is met that necessitates the need for pest management; and
- b. Reduce the impact on the environment and non-target organisms by applying the pesticide only when the action threshold has been met.

3.2.3 Nuisance Animal Control

This section applies to discharges from the application of pesticides for nuisance animal control as identified in section 1.2.1.

3.2.3.1 Identify the Problem

Prior to the first pesticide application covered under this permit that will result in a discharge to waters of the U.S., and at least once each calendar year thereafter prior to the first pesticide application for that calendar year, you must do the following for each pest management area, as defined in section 11:

- a. Identify areas with nuisance animal problems and characterize the extent of the problems, including, for example, water use goals not attained (e.g., wildlife habitat, fisheries, vegetation, and recreation);
- b. Identify target nuisance animal species;
- c. Identify possible factors causing or contributing to the problem (e.g., nutrients, invasive species);
- d. Establish past or present nuisance animal densities to serve as action threshold(s) for implementing pest management strategies; and
- e. In the event there are no data for your pest management area in the past calendar year, see section 6 for documentation requirements regarding why current data are not available and the data you used to meet the permit conditions in section 3.2.3.1

3.2.3.2 Pest Management

Prior to the first pesticide application covered under this permit that will result in a discharge to waters of the U.S., and at least once each calendar year thereafter prior to the first pesticide application for that calendar year, you must select and implement, for each pest management area, efficient and effective means of pest management that minimize discharges resulting from application of pesticides to control nuisance animals. In developing these pest management strategies, you must evaluate the following management options, considering impact to water quality, impact to non-target organisms, feasibility, and cost effectiveness:

- a. No Action
- b. Prevention
- c. Mechanical or Physical Methods
- d. Cultural Methods
- e. Biological Control Agents
- f. Pesticides

3.2.3.3 Pesticide Use

If a pesticide is selected to manage nuisance animals and application of the pesticide will result in a discharge to waters of the U.S., you must:

- a. Conduct surveillance prior to each pesticide application to assess the pest management area and to determine when the action threshold is met that necessitates the need for pest management; and
- b. Reduce the impact on the environment and non-target organisms by applying the pesticide only when the action threshold has been met.

3.2.4 Forest Canopy Pest Control

This section applies to discharges from the application of pesticides for forest canopy pest control as defined in section 1.2.1.

3.2.4.1 Identify the Problem

Prior to the first pesticide application covered under this permit that will result in a discharge to waters of the U.S., and at least once each calendar year thereafter prior to the first pesticide application in that calendar year, you must do the following for each pest management area, as defined in section 11:

- a. Establish target pest densities to serve as action threshold(s) for implementing pest management strategies;
- b. Identify target species to develop a species-specific pest management strategy based on developmental and behavioral considerations for each species;
- c. Identify current distribution of the target pest and assess potential distribution in the absence of control measures; and
- d. In the event there are no data for your pest management area in the past calendar year, see section 6 for documentation requirements regarding why current data are not available and the data you used to meet the permit conditions in section 3.2.4.1.

3.2.4.2 Pest Management

Prior to the first pesticide application covered under this permit that will result in a discharge to waters of the U.S., and at least once each calendar year thereafter prior to the first pesticide application for that calendar year, you must select and implement, for each pest management area, efficient and effective means of pest management that minimize discharges resulting from application of pesticides to control forestry pests. In developing these pest management strategies, you must evaluate the following management options, considering impact to water quality, impact to non-target organisms, feasibility, and cost effectiveness:

- a. No Action
- b. Prevention
- c. Mechanical or Physical Methods
- d. Cultural Methods
- e. Biological Control Agents
- f. Pesticides

3.2.4.3 Pesticide Use

If a pesticide is selected to manage forestry pests and application of the pesticide will result in a discharge to waters of the U.S., you must:

- a. Conduct surveillance prior to each application to assess the pest management area and to determine when the pest action threshold is met that necessitates the need for pest management;
- b. Assess environmental conditions (e.g., temperature, precipitation, and wind speed) in the treatment area to identify conditions that support target pest development and are conducive for treatment activities;
- c. Reduce the impact on the environment and non-target organisms by evaluating the restrictions, application timing, and application methods in addition to applying the pesticide only when the action thresholds have been met; and
- d. Evaluate using pesticides against the most susceptible developmental stage.

3.2.5 Specific Approvals

This section applies to discharges that are not otherwise characterized in section 1.2.1(a) through (d), but are determined to be in the scope of this permit and approved in writing by the department in advance of the discharge.

3.2.5.1 Identify the Problem

Prior to the first pesticide application covered under this permit that will result in a discharge to waters of the U.S., and at least once each calendar year thereafter prior to the first pesticide application in that calendar year, you must do the following for each pest management area, as defined in section 11:

- a. Establish target pest densities to serve as action threshold(s) for implementing pest management strategies;
- b. Identify target species to develop a species-specific pest management strategy based on developmental and behavioral considerations for each species;
- c. Identify current distribution of the target pest and assess potential distribution in the absence of control measures; and
- d. In the event there are no data for your pest management area in the past calendar year, see section 6 for documentation requirements regarding why current data are not available and the data you used to meet the permit conditions in section 3.2.5.1.

3.2.5.2 Pest Management

Prior to the first pesticide application covered under this permit that will result in a discharge to waters of the U.S., and at least once each calendar year thereafter prior to the first pesticide application for that calendar year, you must select and implement, for each pest management area, efficient and effective means of pest management that minimize discharges resulting from application of pesticides. In developing these pest management strategies, you must evaluate the following management options, considering impact to water quality, impact to non-target organisms, feasibility, and cost effectiveness:

- a. No Action
- b. Prevention
- c. Mechanical or Physical Methods
- d. Cultural Methods

- e. Biological Control Agents
- f. Pesticides

3.2.5.3 Pesticide Use

If a pesticide is the selected management approach and it results in the discharge to waters of the U.S., you must:

- a. Conduct surveillance prior to each application to assess the pest management area and to determine when the pest action threshold is met that necessitates the need for pest management;
- b. Assess environmental conditions (e.g., temperature, precipitation, and wind speed) in the treatment area to identify conditions that support target pest development and are conducive for treatment activities;
- c. Reduce the impact on the environment and non-target organisms by evaluating the restrictions, application timing, and application methods in addition to applying the pesticide only when the action thresholds have been met; and
- d. Evaluate using pesticides against the most susceptible developmental stage.

4.0 SURFACE WATER QUALITY-BASED EFFLUENT LIMITATIONS

Your discharge must be controlled as necessary to meet applicable numeric and narrative surface water quality standards.

If at any time you become aware, or ADEQ determines, that your discharge causes or contributes to an excursion of applicable surface water quality standards, you must take corrective action as required in section 7 of this permit. The director may require the operator to obtain coverage under an individual permit pursuant to section 2.7.

5.0 SITE MONITORING

5.1 Monitoring Requirements for Pesticide Applicators

You must monitor the amount of pesticide applied to ensure that you are using the lowest effective amount to control the pest. You must also monitor your pesticide application activities to ensure you are performing regular maintenance activities and to ensure that your application equipment is in proper operating condition to reduce the potential for leaks, spills, or other unintended discharge of pesticides to waters of the U.S.

Additionally, you must monitor your pesticide application activities to ensure that the application equipment is in proper operating condition by adhering to any manufacturer's conditions and industry practices, and by calibrating, cleaning, and repairing equipment on a regular basis.

5.2 Visual Monitoring Requirements for all Operators

All operators covered under this permit must conduct spot checks in the area to and around where pesticides are applied for possible and observable adverse incidents, as defined in section 11, caused by application of pesticides, including but not limited to the unanticipated death or distress of non-target organisms and disruption of wildlife habitat, recreational or municipal water use. Visual assessments of the application site must be performed:

- a. During any post-application surveillance or efficacy check that you conduct, if surveillance or an efficacy check is conducted; and
- b. During any pesticide discharge, when safety and feasibility allow.

6.0

PESTICIDE DISCHARGE MANAGEMENT PLAN PREPARATION

Operators required to submit an NOI (pursuant to section 2.4) that engage in a discharge of pesticides that meets or exceeds the annual threshold(s) identified in Table 3.2 must prepare and implement a pesticide discharge management plan (PDMP) in accordance with this section.

The PDMP must be kept up-to-date for the duration of coverage under this general permit, even if the discharge(s) subsequently fall below one (1) or more of the thresholds identified in Table 3.2. The PDMP must be developed consistent with the deadline(s) identified in Table 6.1.

Table 6.1 Pesticide Discharge Management Plan Deadline	
Category	PDMP Deadline
Operators not required to submit an NOI and will not exceed one or more thresholds identified in Table 3.2.	Not applicable
Operators required to submit an NOI and who know or should reasonably know prior to commencement of discharge that the discharge(s) will exceed an annual treatment area threshold identified in Table 3.2 for that year.	Prior to first pesticide application covered under this permit.
Operators proposing to discharge pesticides to an impaired water or Outstanding Arizona Water	Submit completed PDMP with NOI at least 31 calendar days prior to the first discharge activity.
Operators who are required to submit an NOI and do not know or would reasonably not know until after commencement of discharge, that they will exceed an annual treatment area threshold identified in Table 3.2 for that year.	Prior to exceeding an annual treatment area threshold.
Operators required to submit an NOI and are commencing discharge in response to a <u>declared pest emergency situation</u> as defined in section 11 that will cause the operator to exceed an annual treatment area threshold.	No later than 90 days after responding to declared pest emergency situation.
Operators requesting a specific approval (proposed discharge activity not included in 1 or more of the 4 defined use patterns)	Submit completed PDMP with NOI at least 31 calendar days prior to the first discharge activity.

The PDMP does not contain effluent limitations; the limitations are contained in sections 3 and 4 of the permit. The PDMP documents how you will implement the effluent limitations in sections 3 and 4 of the permit, including your evaluation and selection of control measures to meet those effluent limitations and minimize discharges. The PDMP may incorporate by reference any procedures or plans in other documents that meet the requirements of this permit. If you rely upon other documents to describe how you will comply with the effluent limitations in this permit, such as a pre-existing integrated pest management (IPM) plan, you must attach to your PDMP a copy of any portions of any documents that you are using to document your implementation of the effluent limitations.

All operators subject to the effluent limitations described above must implement control measures to satisfy the effluent limitations in sections 3 and 4. This includes the operator who submitted the NOI as well as any employees, contractors, subcontractors, or other agents. The control measures implemented and any sharing or responsibility must be documented in the updated PDMP.

6.1 Contents of Pesticide Discharge Management Plan

Your PDMP must include the following elements:

- a. Pesticide Discharge Management Team
- b. Pest Management Area Description
- c. Control Measure Description
- d. Schedules and Procedures
 1. Pertaining to Control Measures Used to Comply with the Effluent Limitations in section 3:
 - a. Application Rate and Frequency Procedures
 - b. Spill Prevention Procedures
 - c. Pesticide Application Equipment Procedures
 - d. Pest Surveillance Procedures
 - e. Assessing Environmental Conditions Procedures
 2. Pertaining to Other Actions Necessary to Minimize Discharges:
 - a. Spill Response Procedures
 - b. Adverse Incident Response Procedures
 - c. Pesticide Monitoring Schedules and Procedures
 - d. Documentation to Support Eligibility Considerations under Other Federal Laws
 - e. Signature Requirements

6.1.1 PDMP Team

You must identify all the persons (by name or position/title and contact information) that compose the team as well as each person's individual responsibilities, including:

- a. Person(s) responsible for managing pests in relation to the pest management area;
- b. Person(s) responsible for developing and revising the PDMP;
- c. Person(s) responsible for developing, revising, and implementing corrective actions and other effluent limitation requirements; and
- d. Person(s) responsible for pesticide applications. If the pesticide applicator is unknown at the time of plan development, indicate whether or not a for-hire applicator will be used and when you anticipate that you will identify the applicator.

Identification of team members must include any written agreement(s) between the decision maker and any other operator(s), such as a for-hire pesticide applicator, that specify the division of responsibilities between operators as necessary to comply with the provisions of this permit.

6.1.2 Pest Management Area Description

Provide a physical description of the area subject to the pesticide discharge activities, including the identification of receiving water(s). In the plan, include a general location map (e.g., USGS map, a portion of a city or county map, or other map) that identifies the geographic boundaries of the area to which the plan applies

6.1.3 Pest Problem Description

Document a description of the pest problem at your pest management area, including identification of the target pest(s), source of the pest problem, and source of data used to identify the problem in sections 3.2.1, 3.2.2, 3.2.3, 3.2.4, and 3.2.5

- a. Identification of target species;
- b. Action Threshold(s). Describe the action threshold(s) for your pest management area, including a description of how they were determined; and
- c. Water Quality Standards. Document the water quality standards applicable to waters to which there may be a discharge, including the list of pesticide(s) or any degradates for which the water is impaired.

6.1.4 Control Measure Description

You must document your evaluation of control measures for your pest management area. You must document the control measures you will implement to comply with the effluent limitations required in sections 3 and 4. Include in the description the active ingredient(s) evaluated.

6.1.5 Schedules and Procedures

The following schedules and procedures must be documented in your PDMP:

6.1.5.1 Control Measures Used to Comply with the Effluent Limitations in Section 3

The following must be documented in the PDMP:

- a. Application Rate and Frequency. (section 3.1.1) Procedures for determining the lowest effective amount of pesticide product per application and the optimum frequency of pesticide applications necessary to control the target pest;
- b. Spill Prevention. (section 3.1.2) Procedures and schedule of maintenance activities for preventing spills and leaks of pesticides associated with the application of pesticides covered under this permit;
- c. Pesticide Application Equipment. (section 3.1.3) Schedules and procedures for maintaining the pesticide application equipment in proper operating condition, including calibrating, cleaning, and repairing the equipment;
- d. Pest Surveillance. (sections 3.2.1.3.a, 3.2.2.3.a, 3.2.3.3.a, and 3.2.4.3.a) Procedures and methods for conducting pre-application pest surveillance; and
- e. Assessing Environmental Conditions. (sections 3.2.1.3.b and 3.2.4.3.b) Procedures and methods for assessing environmental conditions in the treatment area.

6.1.5.2 Other Actions Necessary to Minimize Discharges.

The following must be documented in the PDMP:

- a. Spill Response Procedures
 - 1. Procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. Employees who may cause, detect, or respond to a spill or leak must be trained in these procedures and have necessary spill response equipment available. If possible, one (1) of these individuals should be a member of your PDMP team; and
 - 2. Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies.

- b. Adverse Incident Response Procedures

At a minimum you must have:

- 1. Procedures for responding to any incident resulting from pesticide applications;
 - 2. Procedures for notification of the incident, both internal to your agency/organization and external. Contact information for state/federal permitting agency, nearest emergency medical facility, and nearest hazardous chemical responder must be in locations that are readily accessible and available; and
 - 3. Pesticide Monitoring Schedules and Procedures – You must document procedures for monitoring consistent with the requirements in section 5 including:
 - a. The process for determining the location of any monitoring;
 - b. A schedule for monitoring;
 - c. The person (or position) responsible for conducting monitoring; and
 - d. Procedures for documenting any observed impacts to non-target organisms resulting from your pesticide discharge.
- c. Pesticide Monitoring Schedules and Procedures: At a minimum, the procedures for monitoring consistent with the requirements in section 5 must be documented:
 - 1. The process for determining the location of any monitoring;
 - 2. A schedule for monitoring;
 - 3. The person (or position) responsible for conducting monitoring; and
 - 4. Procedures for documenting any observed impacts to non-target organisms resulting from your pesticide discharge.

6.1.6 Signatory Requirements

The PDMP must be signed, dated and certified in accordance with section 9.10.

6.2 Pesticide Discharge Management Plan Modifications

The PDMP must be modified whenever necessary to address any of the triggering conditions for corrective action in section 7 or when a change in pest control activities significantly changes the type or quantity of pollutants discharged. Changes to your PDMP must be made before the next pesticide application that results in a discharge, if

practicable, or if not, as soon as possible thereafter. The revised PDMP must be signed and dated in accordance with section 9.10.

You must review your PDMP at a minimum once per calendar year and whenever necessary to update the pest problem identified and pest management strategies evaluated for your pest management area.

6.3 Pesticide Discharge Management Plan Availability

You must retain a copy of the current PDMP, along with all supporting maps and documents, at the address provided in the NOI. The PDMP and all supporting documents must be readily available, upon request, and copies of any of these documents provided, upon request to ADEQ; EPA; or other state, federal, or local agency governing discharges or pesticide. ADEQ may provide copies of your PDMP or other information related to this permit that is in its possession to members of the public. Any Confidential Business Information (CBI), as defined in 40 CFR Part 2, may be withheld from the public provided that a claim of confidentiality is properly asserted and documented in accordance with 40 CFR Part 2; however, CBI must be submitted to ADEQ, if requested, and may not be withheld from those staff within ADEQ, EPA, or other state, federal, or local authority cleared for CBI review.

7.0 CORRECTIVE ACTION

7.1 Situations Requiring Revision of Control Measures

If any of the following situations occur, you must review and, as necessary, revise the evaluation and selection of your control measures to ensure that the situation is eliminated and will not be repeated in the future:

- a. An unauthorized release or discharge associated with the application of pesticides (e.g., spill, leak, or discharge not authorized by this or another AZPDES permit) occurs;
- b. You become aware, or ADEQ concludes, that your control measures are not adequate/sufficient for the discharge to meet applicable water quality standards; and
- c. Any monitoring activities indicate that you failed to:
 1. Use the lowest effective amount of pesticide per application and optimum frequency of pesticide applications necessary to control the target pest;
 2. Perform regular maintenance activities to reduce leaks, spills, or other unintended discharges of pesticides associated with the application of pesticides covered under this permit; or
 3. Maintain pesticide application equipment in proper operating condition by adhering to any manufacturer's conditions and industry practices, and by calibrating, cleaning, and repairing such equipment on a regular basis to ensure effective pesticide application and pest control. You must ensure that the equipment's rate of pesticide application is calibrated to deliver the precise minimum quantity of pesticide needed to achieve greatest efficacy against the target pest.
- d. An inspection or evaluation of your activities by an ADEQ official reveals that modifications to the control measures are necessary to meet the non-numeric effluent limits in this permit; or
- e. You observe, for example, during visual monitoring that is required in section 5.2, or are otherwise made aware of, an adverse incident, as defined in section 11.

7.2 Corrective Action Deadlines

If you determine that changes to your control measures are necessary to eliminate any situation identified in section 7.1, such changes must be made before the next pesticide application that results in a discharge if practicable, or if not, as soon as possible thereafter.

7.3 Effect of Corrective Action

The occurrence of a situation identified in section 7.1 may constitute a violation of the permit. Correcting the situation according to section 7.1 does not absolve you of liability for any original violation. However, failure to comply with section 7.1 constitutes an additional permit violation. ADEQ will consider the appropriateness and promptness of corrective action in determining enforcement responses to permit violations.

ADEQ or a court may impose additional requirements and schedules of compliance, including requirements to submit additional information concerning the condition(s) triggering corrective action or schedules and requirements more stringent than specified in this permit. Those requirements and schedules will supersede those of section 7.1 if such requirements conflict.

7.4 Adverse Incident Documentation and Reporting

7.4.1 Twenty-Four (24) Hour Adverse Incident Notification

If you observe or are otherwise made aware of an adverse incident, as defined in section 11, that may have resulted from a discharge from your pesticide application, you must immediately notify ADEQ by calling:

ADEQ's 24-Hour Hotline at (602) 771-2330
ADEQ Water Quality Compliance Manager at (602) 771-4841

This notification must be made by telephone within 24 hours of you becoming aware of the adverse incident and must include at least the following information:

- a. The caller's name and telephone number;
- b. Operator name and mailing address;
- c. If covered under an NOI, the NOI AZPDES tracking number;
- d. The name and telephone number of a contact person, if different than the person providing the 24-hour notice;
- e. How and when you became aware of the adverse incident;
- f. Description of the location of the adverse incident;
- g. Description of the adverse incident identified and the ADEQ pesticide registration number for each product you applied in the area of the adverse incident; and
- h. Description of any steps you have taken or will take to correct, repair, remedy, cleanup, or otherwise address any adverse effects.

If you are unable to notify ADEQ within 24 hours, you must do so as soon as possible and also provide your rationale for why you were unable to provide such notification within 24 hours.

The adverse incident notification and reporting requirements are in addition to what the registrant is required to submit under FIFRA section 6(a)(2) and its implementing regulations at 40 CFR Part 159.

Reporting of adverse incidents is not required under this permit in the following situations:

- a. You are aware of facts that clearly establish that the adverse incident was not related to toxic effects or exposure from the pesticide application.
- b. You have been notified in writing by ADEQ that the reporting requirement has been waived for this incident or category of incidents.
- c. You receive information notifying you of an adverse incident but that information is clearly erroneous.
- d. An adverse incident occurs to pests that are similar in kind to pests identified as potential targets on the FIFRA label.

7.4.2 Five (5) Day Adverse Incident Written Report

Within five (5) days of a reportable adverse incident pursuant to section 7.4, you must provide a written report of the adverse incident to ADEQ. Your adverse incident report must include at least the following information:

- a. Information required to be provided in section 7.4.1;
- b. Date and time you contacted ADEQ notifying the agency of the adverse incident and who you spoke with at ADEQ and any instructions you received from ADEQ;
- c. Location of incident, including the names of any waters affected and appearance of those waters (sheen, color, clarity, etc);
- d. A description of the circumstances of the adverse incident including species affected, estimated number of individual and approximate size of dead or distressed organisms;
- e. Magnitude and scope of the effected area (e.g., aquatic square area or total stream distance affected);
- f. Pesticide application rate, intended use site (e.g., banks, above, or directly to water), method of application, and name of pesticide product, description of pesticide ingredients, and ADEQ registration number;
- g. Description of the habitat and the circumstances under which the adverse incident occurred (including any available ambient water data for pesticides applied);
- h. If laboratory tests were performed, indicate what test(s) were performed, and when, and provide a summary of the test results within five (5) days after they become available;
- i. If applicable, explain why you believe the adverse incident could not have been caused by exposure to the pesticide;
- j. Actions to be taken to prevent recurrence of adverse incidents; and
- k. Signed and dated in accordance with section 9.10.

You must report adverse incidents even for those instances when the pesticide labeling states that adverse effects may occur.

ADEQ may waive the written report required under this section on a case-by-case basis, provided the operator made the 24-hour verbal notification (see sections 7.4.1), and follows up with ADEQ before the five (5) day time frame expires. ADEQ will consider the circumstances of the adverse incident when determining if the requirement for a written report can be waived.

7.4.3 Adverse Incident to Threatened or Endangered Species or Critical Habitat

Notwithstanding any of the other adverse incident notification requirements of this section, if you become aware of an adverse incident to a federally-listed threatened or endangered species or its federally-designated critical habitat, that may have resulted from a discharge from your pesticide application, you must immediately notify the U.S. Fish and

Wildlife Service (USFWS) at (602) 242-0210 and Arizona Game and Fish Department (AZGFD) at (623) 236-7201. This notification must be made by telephone immediately upon your becoming aware of the adverse incident and must include at least the following information:

- a. The caller's name and telephone number;
- b. Operator name and mailing address;
- c. The name of the affected species;
- d. How and when you became aware of the adverse incident;
- e. Description of the location of the adverse incident;
- f. Description of the adverse incident, including the EPA pesticide registration number for each product you applied in the area of the adverse incident; and
- g. Description of any steps you have taken or will take to alleviate the adverse impact to the species.

Additional information on federally-listed threatened or endangered species and federally-designated critical habitat is available from USFWS (www.fws.gov).

7.5 Reportable Spills and Leaks

7.5.1 Spill, Leak, or Other Unpermitted Discharge Notification

Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs in any 24-hour period, you must notify the National Response Center (NRC) immediately at 800-424-8802 in accordance with the requirements of 40 CFR Part 110, 40 CFR Part 117, and 40 CFR Part 302 as soon as you have knowledge of the release. Contact information must be in locations that are readily accessible and available in the area where the spill, leak, or other unpermitted discharge may occur.

State or local requirements may necessitate also reporting spills or leaks to local emergency response, public health, or drinking water supply agencies.

7.5.2 Five-Day Spill, Leak, or Other Unpermitted Discharge Documentation

Within five (5) days of you becoming aware of a spill, leak, or other unpermitted discharge triggering the notification in section 7.4.2, you must document and retain the following information:

- a. Information required to be provided in section 7.4.2;
- b. Summary of corrective action taken or to be taken including date initiated and date completed or expected to be completed; and
- c. Any measures to prevent recurrence of such a spill or leak or other discharge, including notice of whether PDMP modifications are required as a result of the spill or leak.

7.6 Other Corrective Action Documentation

For situations identified in section 7.0, other than for adverse incidents (addressed in section 7.4), or reportable spills or leaks (addressed in section 7.5), you must document the situation triggering corrective action and your planned corrective action within five (5) days of you becoming aware of that situation and retain a copy of this documentation. This documentation must include the following information:

- a. Identification of the condition triggering the need for corrective action review, including any ambient water quality monitoring that assisted in determining that discharges did not meet water quality standards;
- b. Brief description of the situation;
- c. Date the problem was identified;
- d. Brief description of how the problem was identified and how the operator learned of the situation and date the operator learned of the situation;
- e. Summary of corrective action taken or to be taken including date initiated and date completed or expected to be completed; and
- f. Any measures to prevent reoccurrence of such an incident, including notice of whether PDMP modifications are required as a result of the incident.

8.0 RECORDKEEPING and ANNUAL REPORTING

Operators must keep written records as required in this permit. These records must be accurate and complete and sufficient to demonstrate your compliance with the conditions of this permit. You can rely on records and documents developed for other obligations, such as requirements under FIFRA, and state or local pesticide programs, provided all requirements of this permit are satisfied.

ADEQ recommends that all operators covered under this permit keep records of acres or linear miles treated for all applicable use patterns covered under this general permit. The records should be kept up-to-date to help you determine if you will meet the annual treatment area threshold during any calendar year, as identified in Table 3.2.

For discharge activities involving more than one operator (e.g., decision maker and a hired applicator) the operators may share the responsibility of preparing and maintaining records required in this section to minimize or avoid duplication of effort. Operators are encouraged to document any sharing of responsibility to ensure the requirements of this section are met.

8.1 Recordkeeping for all Operators

All operators covered under this permit, regardless of whether or not you were required to submit a NOI pursuant to section 2.4, must keep the following records:

- a. A copy of this permit (an electronic copy is also acceptable);
- b. A copy of any Adverse Incident Reports (see section 7.4);
- c. Your rationale for any determination that reporting of an identified adverse incident is not required consistent with allowances identified in section 7.4.1; and
- d. A copy of any corrective action documentation (see section 7.6).

8.2 Recordkeeping for Operators Required to Submit a NOI and Prepare a PDMP

This section applies to operators that are required to submit an NOI (see section 2.4) and prepare a PDMP (see section 6.0). Records listed below are required to be kept at the address provided on the NOI, as identified in section 2.4.1.

- a. A copy of the NOI submitted to ADEQ, any correspondence exchanged between you and ADEQ specific to coverage under this permit, and a copy of the ADEQ acknowledgment letter assigning your permit tracking number;
- b. If you were required to submit an NOI, the date on which you knew or reasonably should have known that you would exceed an annual treatment area threshold

- during any calendar year, as identified in section 3.2;
- c. Surveillance method(s) used, date(s) of surveillance activities, and findings of surveillance;
 - d. Target pest(s);
 - e. Pest density prior to pesticide application;
 - f. Company name and contact information for pesticide applicator;
 - g. Pesticide application date(s);
 - h. Description of treatment area, including location and size (acres or linear feet) of treatment area and identification of any waters, either by name or by location, to which you discharged any pesticide(s);
 - i. Name of each pesticide product used including the EPA registration number;
 - j. Quantity of pesticide applied (and specify if quantities are for the pesticide product as packaged or as formulated and applied);
 - k. Concentration (percent) of active ingredient in formulation;
 - l. For pesticide applications directly to waters, the effective concentration of active ingredient required for control;
 - m. Any unusual or unexpected effects identified to non-target organisms;
 - n. Documentation of any equipment cleaning, calibration, and repair (to be kept by pesticide application equipment operator); and
 - o. If required to prepare a PDMP (see section 6), a copy of your PDMP, including any modifications made to the PDMP during the term of this permit.

8.3 Recordkeeping Maintenance and Retention

All required records must be documented as soon as possible but no later than 14 days following completion of such activity. You must retain any records required under this permit for at least three (3) years from the date that your coverage under this permit expires or is terminated. You must make available to ADEQ all records kept under this permit upon request and provide copies of such records, upon request.

8.4 Annual Reporting

Operators who are required to submit a NOI (see section 2.4) and exceed one (1) or more of the thresholds identified in Table 3.2 must prepare an annual report on a form provided by the department. The annual must be kept with the PDMP and be available to the department upon request.

Additionally, operators that discharge to an impaired water (section 2.4.c), an outstanding Arizona water (section 2.4.d), or are authorized coverage under this permit with specific approval from ADEQ (section 2.4.e) must submit their annual report to ADEQ.

The annual reporting period for discharges subject to this subsection is from January 1 through December 31 of each year. Annual reports for each year shall be completed and included with the PDMP no later than February 14 for the preceding reporting year. Annual reports for operators who are required to submit an annual report to the department shall be received by ADEQ no later than February 21 for the preceding reporting year.

Once the requirements to prepare or prepare and submit an annual report are met, you must comply with the annual reporting requirements for each calendar year thereafter for the duration of coverage under this general permit, whether or not you have discharges from the application of pesticides in any subsequent calendar year.

The annual report must include information for the calendar year, with the first annual report required to include activities for the portion of the calendar year after the effective date of the NOI. If the effective date is after December 1, you are not required to submit an annual report for that first partial year but must submit annual reports thereafter with the first annual report submitted also including information from the first partial year. When you terminate permit coverage, as specified in section 2.6, you must submit an annual report for the portion of the year up through the date of your termination. The final annual report must be submitted with the notice of termination.

The annual report must contain the following information:

- a. Operator's name
- b. NPDES permit tracking number(s)
- c. Contact person name, title, e-mail address (if any), and phone number
- d. For each pest treatment area, report the following information:
 1. Identification of any waters or other treatment area, including size, either by name or by location, to which you discharged any pesticide(s);
 2. Pesticide use pattern(s) (i.e., mosquito and other flying insects, weeds and algae, nuisance animals, or forest canopy) and target pest(s);
 3. Company name(s) and contact information for pesticide applicator(s);
 4. Total amount of each pesticide product applied for the reporting year by the EPA registration number(s) and by application method (e.g., aerially by fixed-wing or rotary aircraft, broadcast spray, etc.);
 5. Whether this pest control activity was addressed in your PDMP prior to pesticide application;
 6. If applicable, an annual report of any adverse incidents as a result of these treatment(s), for incidents, as described in section 7.4; and
 7. A description of any corrective action(s), including spill responses, resulting from pesticide application activities and the rationale for such action(s).

9.0 STANDARD PERMIT CONDITIONS

9.1 Duty to Comply

[A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(a)(1) and A.R.S. § 49-261, 262, 263.01, and 263.02.]

- a. The operator shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act; A.R.S. Title 49, Chapter 2, Article 3.1; and A.A.C. Title 18, Chapter 9, Articles 9 and 10, and is grounds for enforcement action, permit termination, revocation and reissuance, or modification, or denial of a permit renewal application.
- b. The issuance of this permit does not waive any federal, state, county, or local regulations or permit requirements with which a person discharging under this permit is required to comply.
- c. The operator shall comply with any effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.

9.2 Need to Halt or Reduce Activity Not a Defense

[A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(c)]. It shall not be a defense for an operator in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

9.3 Duty to Mitigate

[A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(d)] The operator shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

9.4 Proper Operation and Maintenance

[A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(e)] The operator shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the operator to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures.

9.5 Permit Actions

[A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(f)] This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the operator for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

9.6 Property Rights

[A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(g)] This permit does not convey any property rights of any sort, or any exclusive privileges.

9.7 Duty to Provide Information

[A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(h)] The operator shall furnish to ADEQ, within a reasonable time, any information which the director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The operator shall also furnish to ADEQ upon request, copies of records required to be kept by this permit.

9.8 Inspection and Entry

[A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(i)] The operator shall allow the director, or an authorized representative, upon the presentation of credentials and such other documents as may be required by law, to:

- a. Enter upon the operator's premises where a regulated facility or activity is located or conducted, or where records shall be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that shall be kept under the terms of the permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring equipment or control equipment), practices or operations regulated or required

- under this permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by A.R.S. Title 49, Chapter 2, Article 3.1, and A.A.C. Title 18, Chapter 9, Article 9, any substances or parameters at any location.

9.9 Monitoring and Records

[A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(j)] The operator must retain records of all reports required by this permit, and records of all data used to complete the NOI for this permit (if required), for a period of at least three (3) years from the date the permit expires or the date the operator's authorization is terminated. The period may be extended by request of ADEQ at any time.

[Note, this permit does not require all operators to conduct the type of sample collection and monitoring described in the following sections. However, when required, the sample collections and monitoring requirements apply to those operators that collect samples.]

- a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- b. The operator shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the director at any time.
- c. Monitoring shall be conducted according to test procedures approved under 9 A.A.C. Chapter 14, Article 6 as incorporated by reference in R18-9-A905(B); unless specific test procedures have been otherwise specified in this permit.
- d. Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained in this permit is subject to the enforcement actions established under A.R.S. Title 49, Chapter 2, Article 4, which includes the possibility of fines and/or imprisonment.

9.10 Signatory Requirements

[A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(k) and (l); A.A.C. R18-9-A905(A)(1)(c) which incorporates 40 CFR 122.22]

- a. NOIs. All NOIs shall be signed and certified as follows:
1. For a corporation: By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - i. A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
 - ii. The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the

regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

2. For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or
 3. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency is the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
- b. Reports and Other Information: All NOTs, PDMPs, reports, certifications, or other information required by this permit and other information requested by ADEQ shall be signed by a person described in section 9.10(a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:
1. The authorization is made in writing by a person described in section 9.10(a);
 2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the operator. (A "duly authorized representative" may be either a named individual or any individual occupying a named position); and
 3. The signed and dated written authorization is included in the PDMP and submitted to ADEQ upon request.
- c. Changes to Authorization. If the information on the NOI filed for general permit coverage is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a revised NOI shall be submitted to ADEQ prior to or together with any reports, information, or applications to be signed by the signatory or an authorized representative.
- d. Certification. Any person signing documents, including inspection reports under the terms of this permit shall make the following certification:

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

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9.11

Reporting Requirements

[A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(l)]

- a. Planned Changes. The operator shall give notice to the director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
1. The alteration or addition to a permitted facility may meet one (1) of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b) (incorporated by reference at R18-9-A905(A)(1)(e)); or
 2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42(a)(1) (incorporated by reference at R18-9-A905(A)(3)(b)).
- b. Anticipated Noncompliance. The operator shall give advance notice to the director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- c. Monitoring Reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit. If the operator monitors any pollutant more frequently than required by the permit, using test procedures approved under 9 A.A.C. Chapter 14, Article 6 or as specified in the permit, then the results of this monitoring shall be included in the calculation and reporting of the data to ADEQ.
- d. Twenty-four Hour Reporting.
1. In addition to adverse incident and spill reporting requirements in sections 7.4 and 7.5, respectively, operators must report any noncompliance which may endanger health or the environment. Any information must be provided verbally within 24 hours from the time you become aware of the circumstances. The 24-hour reporting requirement shall be made to:

ADEQ's 24-Hour Hotline at (602) 771-2330;
ADEQ Water Quality Compliance Manager at (602) 771-4841

Note: Additional federal, state, or local release reporting may also be required.

A written report must also be submitted to ADEQ within five (5) days of the time you become aware of the circumstances (unless waived by ADEQ). The written report must contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The report must be directed to:

Arizona Department of Environmental Quality
1110 W. Washington, 5515B-1
Phoenix, Arizona 85007
Fax: (602) 771-4528

2. For purposes of this permit, you must submit a 24-hour report under this section for any upset, as defined in section 9.16, which exceeds any effluent limitation in the permit.
 3. ADEQ may waive the written report on a case-by-case basis for reports under section 9.11(d)(2) if the verbal notification was made within 24 hours of the incident.
- e. Other Noncompliance. The operator shall report all instances of noncompliance (not otherwise required to be reported as prescribed in section 9.11(a),(b), and (d)) at the time any applicable annual or monitoring reports are submitted. The reports must contain the information listed in section 9.11(d)(1).
 - f. Other Information. When the operator becomes aware that he or she failed to submit any relevant facts in the NOI or in any other report to ADEQ, the operator shall promptly submit the facts or information to the Surface Water Section of ADEQ.

9.12 Reopener Clause

[A.A.C. R18-9-A905(A)(3)(d), which incorporates 40 CFR 122.44(c)]. ADEQ may elect to modify the permit prior to its expiration (rather than waiting for the new permit cycle) to comply with any new statutory or regulatory requirements, such as for effluent limitation guidelines that may be promulgated in the course of the current permit cycle.

9.13 Other Environmental Laws

No condition of this general permit releases the operator from any responsibility or requirements under other environmental statutes or regulations. For example, this permit does not authorize the "take" of endangered or threatened species as prohibited by section 9 of the Endangered Species Act, 16 U.S.C. 1538. Information regarding the location of endangered and threatened species and guidance on what activities constitute a "take" are available from the U.S. Fish and Wildlife Service at www.fws.gov.

9.14 State or Tribal Law

[Pursuant to A.A.C. R18-9-A904(C)] Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the operator from any responsibilities, liabilities, or penalties established pursuant to any applicable State or Tribal law or regulation under authority preserved by section 510 of the Clean Water Act.

9.15 Severability

The provisions of this general permit are severable, and if any provision of this general permit, or the application of any provision of this general permit to any circumstance, is held invalid, the application of the provision to other circumstances, and the remainder of this general permit shall not be affected.

9.16 Upset

[A.R.S. §§ 49-255(8) and 255.01(E), A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41(n)]

- a. Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the operator. An upset does

not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

- b. Effect of an Upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of part c. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- c. Conditions Necessary for a Demonstration of Upset. An operator who wishes to establish the affirmative defenses of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - 1. An upset occurred and that operator can identify the cause(s) of the upset;
 - 2. The permitted facility was at the time being properly operated;
 - 3. The operator submitted notice of the upset as required in section 9.11.d.2; and
 - 4. The operator has taken appropriate measure including all reasonable steps to minimize or prevent any discharge or sewage sludge use or disposal that is in violation of the permit and that has a reasonable likelihood of adversely affecting human health or the environment per A.R.S. § 49-255.01(E)(1)(d).
- d. Burden of Proof. In any enforcement proceeding the operator seeking to establish the occurrence of an upset has the burden of proof.

9.17 Bypass

[A.A.C. R18-9-A905(A)(3)(a), which incorporates 40 CFR 122.41 (m)]

- a. Definitions.
 - 1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
 - 2. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production,
- b. Bypass not Exceeding Limitations. The operator may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of part c. and d. of this section.
- c. Notice.
 - 1. Anticipated bypass. If the operator knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of bypass.

2. Unanticipated bypass. The operator shall submit notice of an unanticipated bypass as required in paragraph d. of section 9.11(24-hour reporting).
- d. **Prohibition of Bypass.** Bypass is prohibited, and the director may take enforcement action against an operator for bypass, unless:
1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment down time. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 3. The operator submitted notices as required under part e. of this section.

The director may approve an anticipated bypass, after considering its adverse effects, if the director determines that it will meet the three (3) conditions listed above.

10.0 PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS

Any permit noncompliance constitutes a violation and is grounds for an enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application.

10.1 Civil Penalties

A.R.S. § 49-262(C) provides that any person who violates any provision of A.R.S. Title 49, Chapter 2, Article 2, 3 or 3.1 or a rule, permit, discharge limitation or order issued or adopted under A.R.S. Title 49, Chapter 2, Article 3.1 is subject to a civil penalty not to exceed \$25,000 per day per violation.

10.2 Criminal Penalties

Any person who violates a condition of this general permit, or violates a provision under A.R.S. Title 49, Chapter 2, Article 3.1, or A.A.C. Title 18, Chapter 2, Article 9 is subject to the enforcement actions established under A.R.S. Title 49, Chapter 2, Article 4, which may include the possibility of fines and/or imprisonment.

11.0 DEFINITIONS AND ACRONYMS

Action Threshold – means the point at which pest populations or environmental conditions can no longer be tolerated necessitating that pest control action be taken based on economic, human health, aesthetic, or other effects. Sighting a single pest does not always mean control is needed. Action thresholds help determine both the need for control actions and the proper timing of such actions.

Active Ingredient – means any substance (or group of structurally similar substances if specified by the agency) that will prevent, destroy, repel or mitigate any pest, or that functions as a plant regulator, desiccant, or defoliant within the meaning of FIFRA sec. 2(a). [40 CFR 152.3] Active ingredient also means a pesticidal substance that is intended to be produced and used in a living plant, or in the product thereof, and the genetic material necessary for the production of such a pesticidal substance. [40 CFR 174.3]

ADEQ Established Total Maximum Daily Loads (TMDLs) – ADEQ Established TMDLs” are those that are issued by the department.

Adverse Incident – means an incident that you have observed upon inspection or of which you otherwise become aware, in which:

- a. A person or non-target organism may have been exposed to a pesticide residue, and
- b. The person or non-target organism suffered a toxic or adverse effect.

The phrase “toxic or adverse effects” includes effects that occur within waters of the U.S. on non-target plants, fish or wildlife that are unusual or unexpected (e.g., effects are to organisms not otherwise described on the pesticide product label or otherwise not expected to be present) as a result of exposure to a pesticide residue, and may include:

- a. Distressed or dead juvenile and small fishes
- b. Washed up or floating fish
- c. Fish swimming abnormally or erratically
- d. Fish lying lethargically at water surface or in shallow water
- e. Fish that are listless or nonresponsive to disturbance
- f. Stunting, wilting, or desiccation of non-target submerged or emergent aquatic plants
- g. Other dead or visibly distressed non-target aquatic organisms (amphibians, turtles, invertebrates, etc.)

The phrase, “toxic or adverse effects,” also includes any adverse effects to humans (e.g., skin rashes) or domesticated animals that occur either directly or indirectly from a discharge to waters of the U.S. that are temporally and spatially related to exposure to a pesticide residue (e.g., vomiting, lethargy).

Best Management Practices (BMPs) – are examples of control measures that may be implemented to meet effluent limitations. These include schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to minimize the discharge of pollutants to waters of the U.S. BMPs also include treatment requirements, operating procedures, and practices to control spillage or leaks, waste disposal, or drainage from raw material storage. [40 CFR 122.2]

Biological Control Agents – means organisms that can be introduced to your sites, such as herbivores, predators, parasites, and hyperparasites. [Source: US FWS IPM Guidance, 2004]

Biological Pesticides (also called biopesticides) – means microbial pesticides, biochemical pesticides and plant-incorporated protectants (PIP). Microbial pesticide means a microbial agent intended for preventing, destroying, repelling, or mitigating any pest, or intended for use as a plant regulator, defoliant, or dessicant, that (1) is a eucaryotic microorganism including, but not limited to, protozoa, algae, and fungi; (2) is a procaryotic microorganism, including, but not limited to, Eubacteria and Archaeobacteria; or (3) is a parasitically replicating microscopic element, including but not limited to, viruses. [40 CFR 158.2100(b)] Biochemical pesticide mean a pesticide that (1) is a naturally-occurring substance or structurally-similar and functionally-identical to a naturally-occurring substance; (2) has a history of exposure to humans and the environment demonstrating minimal toxicity, or in the case of a synthetically-derived biochemical pesticides, is equivalent to a naturally-occurring substance that has such a history; and (3) has a non-toxic mode of action to the target pest(s). [40 CFR 158.2000(a)(1)] Plant-

incorporated protectant means a pesticidal substance that is intended to be produced and used in a living plant, or in the produce thereof, and the genetic material necessary for production of such a pesticidal substance. It also includes any inert ingredient contained in the plant, or produce thereof. [40 CFR 174.3]

Chemical Pesticides – means all pesticides not otherwise classified as biological pesticides.

Control Measure – means any *BMP* or other method used to meet effluent limitations. Control measures must comply with manufacturer specifications, industry standards and recommended industry practices related to the application of pesticides, and relevant legal requirements. Additionally, control measures could include other actions that a prudent operator would implement to reduce and/or eliminate pesticide discharges to waters of the U.S. to comply with the effluent limitations in sections 3 and 4 of this permit.

Cultural Methods – means manipulation of the habitat to increase pest mortality by making the habitat less suitable to the pest.

Declared Pest Emergency Situation – means an event defined by a public declaration by a federal agency, state, or local government of a pest problem determined to require control through application of a pesticide beginning less than ten (10) days after identification of the need for pest control. This public declaration may be based on:

- (1) Significant risk to human health;
 - (2) Significant economic loss; or
 - (3) Significant risk to:
 - (i) Endangered species,
 - (ii) Threatened species,
 - (iii) Beneficial organisms, or
 - (iv) The environment.
- [40 CFR 166]

Director – means the director of environmental quality who is also the director of the department [A.R.S. 49-101(3)]

Discharge – when used without qualification, means the "discharge of a pollutant." [40 CFR 122.2]

Discharge of a Pollutant – any addition of any "pollutant" or combination of pollutants to "waters of the United States" from any "point source," or any addition of any pollutant or combination of pollutants to the water of the "contiguous zone" or the ocean from any point source other than a vessel or other floating craft that is being used as a means of transportation. This includes additions of pollutants into waters of the U.S. from: surface runoff that is collected or channeled by man; discharges through pipes, sewers, or other conveyances, leading into privately owned treatment works. [excerpted from 40 CFR 122.2]

Establishment – means a single physical location where business is conducted or where services or industrial operations are performed (e.g., factory, mill, store, hotel, movie theater, mine, farm, airline terminal, sales office, warehouse, or central administrative office).

Facility or Activity – means any "point source" (including land or appurtenances thereto) that is subject to regulation under the AZPDES program. [40 CFR 122.2]

Federal Facility – means any buildings, installations, structures, land, public works, equipment, aircraft, vessels, and other vehicles and property, owned, operated, or leased by, or constructed or manufactured for the purpose of leasing to, the federal government.

For-Hire Applicator – means persons who make contractual pesticide applications for which they or their employer receives compensation (e.g., lawn care firms, pest control companies, etc.).

Impaired Water – means a water is impaired for purposes of this permit if it has been identified by a state, territory, tribe or ADEQ pursuant to section 303(d) of the Clean Water Act as not meeting applicable state, territorial, or tribal water quality standards (these waters are called “water quality limited segments” under 40 CFR 130.2(j)). Impaired waters include both waters with approved or established TMDLs, and those for which a TMDL has not yet been approved or established.

Indian Country – means (a) all land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and including rights-of-way running through the reservation; (b) all dependent Indian communities within the borders of the United States, whether within the original or subsequently acquired territory thereof, and whether within or without the limits of a State, and (c) all Indian allotments, the Indian titles to which have not been extinguished, including rights-of-way running through the same. This definition includes all land held in trust for an Indian tribe. [18 U.S.C. 1151; 40 CFR 122.2]

Inert Ingredient – means any substance (or group of structurally similar substances if designated by the agency), other than an active ingredient, that is intentionally included in a pesticide product. [40 CFR 152.3] Inert ingredient also means any substance, such as a selectable marker, other than the active ingredient, where the substance is used to confirm or ensure the presence of the active ingredient, and includes the genetic material necessary for the production of the substance, provided that genetic material is intentionally introduced into a living plant in addition to the active ingredient. [40 CFR 174.3]

Lowest Effective Amount – means the amount/rate identified on the label of the pesticide being used or considered.

Mechanical/Physical Methods – means mechanical tools or physical alterations of the environment, for pest prevention or removal.

Minimize – means to reduce and/or eliminate pesticide discharges to waters of the U.S. through the use of “control measures” to the extent technologically available and economically practicable and achievable.

Non-target Organisms – means the plant and animal hosts of the target species, the natural enemies of the target species living in the community, and other plants and animals, including vertebrates, living in or near the community that are not the target of the pesticide.

Operator – means any person involved in the application of a pesticide that results in a discharge to waters of the U.S. that meets either or both of the following two (2) criteria:

- a. Decision Maker – the *person* responsible for the decision (and ability to modify that decision) to conduct the pesticide application that results in a *discharge*; and
- b. Applicator – the *person* that conducts the pesticide application, or has day to day control of the pesticide application that results in a *discharge*.

Outstanding Arizona Water (OAW) – means a surface water that is classified as an outstanding state resource water by the director under A.A.C. R18-11-112.

Person – means an individual, employee, officer, managing body, trust, firm, joint stock company, consortium, public or private corporation, including government corporation, partnership, association or state, a political subdivision of the state, a commission, the United States government or any federal facility, interstate body or other entity. [A.R.S. 49-201(27)].

Pest – Consistent with 40 CFR 152.5, any organism under circumstances that make it deleterious to man or the environment, if it is:

- (a) Any vertebrate animal other than man;
- (b) Any invertebrate animal, including but not limited to, any insect, other arthropod, nematode, or mollusk such as a slug and snail, but excluding any internal parasite of living man or other living animals;
- (c) Any plant growing where not wanted, including any moss, alga, liverwort, or other plant of any higher order, and any plant part such as a root; or
- (d) Any fungus, bacterium, virus, or other microorganism, except for those on or in living man or other living animals and those on or in processed food or processed animal feed, beverages, drugs (as defined in FFDCa sec. 201(g)(1)) and cosmetics (as defined in FFDCa sec. 201(i)).

Pest Management Area – means the area of land, including any water, for which you are conducting pest management activities covered by this permit.

Pest Management Measures – means an effective and environmentally sensitive approach to pest management that relies on a combination of common-sense practices. PMM uses current, comprehensive information on the life cycles of pests and their interaction with the environment. This information, in combination with available pest control methods, is used to manage pest damage by the most economical means, and with the least possible hazard to people, property, and the environment.

Pesticide – means (1) any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest, (2) any substance or mixture of substances intended for use as a plant regulator, defoliant, or desiccant, and (3) any nitrogen stabilizer, except that the term “pesticide” shall not include any article that is a “new animal drug” within the meaning of section 201(w) of the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 321(w)), that has been determined by the Secretary of Health and Human Services not to be a new animal drug by a regulation establishing conditions of use for the article, or that is an animal feed within the meaning of section 201(x) of such Act (21 U.S.C. 321(x)) bearing or containing a new animal drug. The term “pesticide” does not include liquid chemical sterilant products (including any sterilant or subordinate disinfectant claims on such products) for use on a critical or semi-critical device, as defined in section 201 of the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 321). For purposes of the preceding sentence, the term “critical device” includes any device that introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body and the term “semi-critical device” includes any device that contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. [FIFRA section 2(u)]

The term “pesticide” applies to insecticides, herbicides, fungicides, rodenticides, and various other substances used to control pests. The definition encompasses all uses of pesticides authorized under FIFRA including uses authorized under sections 3

(registration), 5 (experimental use permits), 18 (emergency exemptions), 24(c) (special local needs registrations), and 25(b) (exemptions from FIFRA).

Note: Drugs used to control diseases of humans or animals (such as livestock and pets) are not considered pesticides; such drugs are regulated by the Food and Drug Administration. Fertilizers, nutrients, and other substances used to promote plant survival and health are not considered plant growth regulators and thus are not pesticides. Biological control agents, except for certain microorganisms, are exempted from regulation under FIFRA. (Biological control agents include beneficial predators such as birds or ladybugs that eat insect pests, parasitic wasps, fish, etc).

This permit uses the term “pesticide” when referring to the “pesticide, as applied.” When referring to the chemical in the pesticide product with pesticidal qualities, the permit uses the term “active ingredient.”

Pesticide Product – means a pesticide in the particular form (including composition, packaging, and labeling) in which the pesticide is, or is intended to be, distributed or sold. The term includes any physical apparatus used to deliver or apply the pesticide if distributed or sold with the pesticide.

Pesticide Research and Development – means activities undertaken on a systematic basis to gain new knowledge (research) and/or the application of research findings or other scientific knowledge for the creation of new or significantly improved products or processes (experimental development). These types of activities are generally categorized under the four-digit code of 5417 under the 2007 NAICS.

Pesticide Residue – means that portion of a pesticide application that is discharged from a point source to waters of the U.S. and no longer provides pesticidal benefits. It also includes any degradates of the pesticide.

Point Source – any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel, or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff. [40 CFR 122.2]

Pollutant – dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, and agricultural waste discharged into water. For purposes of this definition, a “biological pesticide” is considered a “biological material,” and any “pesticide residue” resulting from use of a “chemical pesticide” is considered a “chemical waste.” [excerpted from 40 CFR 122.2]

Target Pest – means the organism toward which pest control measures are being directed.

Total Maximum Daily Loads (TMDLs) – A TMDL is a calculation of the maximum amount of a pollutant that a water body can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources. A TMDL includes wasteload allocations (WLAs) for point source discharges; load allocations (LAs) for nonpoint sources and/or natural background, and must include a margin of safety (MOS) and account for seasonal variations. [See section 303(d) of the Clean Water Act and 40 CFR 130.2 and 130.7]

Treatment Area – means the area of land including any waters, or the linear distance along water’s edge, to which pesticides are being applied. Multiple treatment areas may be located within a single “pest management area.”

The “treatment area” includes the entire area, whether over land or water, where the pesticide application is intended to provide pesticidal benefits. In some instances, the treatment area will be larger than the area where pesticides are actually applied. For example, the treatment area for a stationary drip treatment into a canal should be calculated by multiplying the width of the canal by the length over which the pesticide is intended to control weeds. The treatment area for a lake or marine area is the water surface area where the application is intended to provide pesticidal benefits.

Treatment area calculations for pesticide applications that occur “at water’s edge”, where the discharge of pesticides directly to waters is unavoidable, are determined by the linear distance over which pesticides are applied. For example, treating both sides of a five (5) mile long river, stream, or ditch is equal to ten (10) miles of treatment area. Treating five (5) miles of shoreline or coast would equal a five (5) mile treatment area.

Water Quality Impaired – See ‘Impaired Water’.

Water Quality Standards – A water quality standard defines the water quality goals of a water body, or portion thereof, by designating the use or uses to be made of the water and by setting criteria necessary to protect the uses. Water quality standards also include an antidegradation policy and implementation procedures. ADEQ adopts water quality standards to protect public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act (See CWA sections 101(a)2 and 303(c)). See A.A.C. Title 18, Chapter 11, Article 1.

Waters of the United States – Waters of the United States or waters of the U.S. means:

- (a) All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- (b) All interstate waters, including interstate “wetlands;”
- (c) All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, “wetlands,” sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:
 - (1) Which are or could be used by interstate or foreign travelers for recreational or other purposes;
 - (2) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
 - (3) Which are used or could be used for industrial purposes by industries in interstate commerce;
- (d) All impoundments of waters otherwise defined as waters of the United States under this definition;
- (e) Tributaries of waters identified in paragraphs (a) through (d) of this definition;

(f) The territorial sea; and

(g) "Wetlands" adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a) through (f) of this definition.

Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR 423.11(m) which also meet the criteria of this definition) are not waters of the U.S. Waters of the U.S. do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with ADEQ. [40 CFR 122.2.]

Wetlands – means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. [40 CFR 122.2]

"You" and "Your" – as used in this permit are intended to refer to the operator as the context indicates and that party's activities or responsibilities.

ACRONYMS

AAC - Arizona Administrative Code

ADEQ - Arizona Department of Environmental Quality

ARS - Arizona Revised Statute

AZPDES - Arizona Pollutant Discharge Elimination System

BMP - Best Management Practice

CFR - Code of Federal Regulations

CWA - Clean Water Act

DMR - Discharge Monitoring Report

EPA - Environmental Protection Agency

IPM - Integrated Pest Management

MS4 - Municipal Separate Storm Sewer System

NOI - Notice of Intent

NOT - Notice of Termination

NPDES - National Pollutant Discharge Elimination System

PDMP - Pesticide Discharge Management Plan

PMM - Pesticide Management Measures

TMDL - Total Maximum Daily Load

USGS - United States Geological Survey

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