

GUIDANCE DOCUMENT FOR PERMITTEES

Unlikely to be Present in Discharge Demonstration, [R18-9-A215\(H\)](#)

Please provide your demonstration in the format of a technical report, or similar. The proposed sections and content are suggested below for each option described under R18-9-A215(H). Please note that demonstrations may be made in a different or additional manner to the listed manners under R18-9-A215(H)(1)-(3), detailed below.

(1) Option 1 - A characterization of the facility's discharge in relation to the pollutant with a new or adjusted AWQS

Submit a technical report sealed by an Arizona PE or RG summarizing:

1. *Purpose and Scope*
 - 1.1. *Provide the following*
 - 1.1.1. *Applicant name (AAC R18-1-503(1))*
 - 1.1.2. *The Individual APP number*
 - 1.1.3. *Facility name*
 - 1.1.4. *Facility Operator*
 - 1.1.5. *Authorized Agent, if applicable (AAC R18-1-503(A)(3))*
 - 1.1.6. *Landowner (if different than applicant)*
 - 1.2. *List and describe the permit-required monitoring points included in this demonstration*
 - 1.3. *Provide a map and/or process flow diagram for the POC and/or discharge monitoring locations*
 - 1.4. *List and describe which of the seven new or adjusted AWQS parameters that are included in this demonstration*
2. *Discharge Characterization Sampling*
 - 2.1. *The location of the site(s) sampled in support of this demonstration*
 - 2.2. *Describe the sample procedures that were followed during the sample collection process to ensure sample integrity and data quality*
 - 2.3. *Provide copies of any field sampling data sheets as an appendix*
 - 2.4. *After sample collection, describe the procedures that were followed to preserve the samples until they were relinquished to the lab.*
3. *Analytical Laboratory Results*
 - 3.1. *The parameters that were analyzed for at each monitoring location*
 - 3.2. *List the lab(s) used to analyze the samples*
 - 3.3. *Include the lab name and methods used and if it is in accordance with the requirements in R18-9-A215(E)(4)*
 - 3.4. *Tabulate the lab results from each monitoring location and parameter.*
 - 3.5. *Attach the lab report as an appendix*
 - 3.6. *Confirm that the analytical results were reviewed for completeness and accuracy*
 - 3.6.1. *Were the results received for all samples?*
 - 3.6.2. *Were all the requested parameters analyzed?*
 - 3.6.3. *Were the requested methods used?*
 - 3.6.4. *Were the requested detection limits used?*
 - 3.6.5. *Were the samples received by the laboratory below 6 degrees Celsius?*

- 3.6.6. *Is the lab narrative free from problems that require further explanation or affect sample results?*
- 3.6.7. *Are samples free of flags or qualifiers that require further action?*
- 3.6.8. *Are non-detect results reported without dilutions?*
- 3.6.9. *Was the matrix spike/matrix spike duplicate (MS/MSD), percent recovery, and/or relative percent difference accuracy criteria met?*
- 3.6.10. *Are all laboratory blank concentrations non-detect?*
- 3.6.11. *Are the lab QC results free of flags or qualifiers that require further action?*
- 4. *Evaluation*
 - 4.1. *Evaluate the results against the new or adjusted AWQS*
 - 4.2. *Describe if the data meets or exceeds the new or adjusted AWQS*
- 5. *Recommendation*
 - 5.1. *Recommendation whether or not the parameter(s) should be included in the permittee's Aquifer Protection Permit and explain why*

(2) Option 2 - Past monitoring and sampling data at the facility and the facility's site

Submit a technical report sealed by an Arizona PE or RG summarizing:

- 1. *Purpose and Scope*
 - 1.1. *Provide the following*
 - 1.1.1. *Applicant name (AAC R18-1-503(1))*
 - 1.1.2. *The Individual APP number*
 - 1.1.3. *Facility name*
 - 1.1.4. *Facility Operator*
 - 1.1.5. *Authorized Agent, if applicable (AAC R18-1-503(A)(3))*
 - 1.1.6. *Landowner (if different than applicant)*
 - 1.2. *List and describe the permit-required monitoring points included in this demonstration*
 - 1.3. *Provide a map and/or process flow diagram for the POC and/or discharge monitoring locations*
 - 1.4. *List and describe which of the seven new or adjusted AWQS parameters that are included in this demonstration*
- 2. *Sampling Procedures*
 - 2.1. *The location of the site(s) sampled in support of this demonstration*
 - 2.2. *Describe the sample procedures that were followed during the sample collection process to ensure sample integrity and data quality*
 - 2.3. *Provide copies of any field sampling data sheets as an appendix*
 - 2.4. *After sample collection, describe the procedures that were followed to preserve the samples until they were relinquished to the lab.*
- 3. *Analytical Laboratory Results*
 - 3.1. *The parameters that were analyzed for at each monitoring location*
 - 3.2. *List the lab(s) used to analyze the samples*
 - 3.3. *Include the lab name and methods used and if it is in accordance with the requirements in R18-9-A215(E)(4)*
 - 3.4. *Tabulate the lab results from each monitoring location and parameter.*
 - 3.5. *Attach the lab report as an appendix*
 - 3.6. *Confirm that the analytical results were reviewed for completeness and accuracy*

- 3.6.1. *Were the results received for all samples?*
- 3.6.2. *Were all the requested parameters analyzed?*
- 3.6.3. *Were the requested methods used?*
- 3.6.4. *Were the requested detection limits used?*
- 3.6.5. *Were the samples received by the laboratory below 6 degrees Celsius?*
- 3.6.6. *Is the lab narrative free from problems that require further explanation or affect sample results?*
- 3.6.7. *Are samples free of flags or qualifiers that require further action?*
- 3.6.8. *Are non-detect results reported without dilutions?*
- 3.6.9. *Was the matrix spike/matrix spike duplicate (MS/MSD), percent recovery, and/or relative percent difference accuracy criteria met?*
- 3.6.10. *Are all laboratory blank concentrations non-detect?*
- 3.6.11. *Are the lab QC results free of flags or qualifiers that require further action?*
- 4. *Evaluation*
 - 4.1. *Evaluate the results against the new or adjusted AWQS*
 - 4.2. *Describe if the data meets or exceeds the new or adjusted AWQS*
- 5. *Recommendation*
 - 5.1. *Recommendation whether or not the parameter(s) should be included in the permittee's Aquifer Protection Permit and explain why*

(3) Option 3 - Process or other information demonstrating that the pollutant is not used or generated at the site or is otherwise not likely to be present in discharges at the site

Submit a technical report sealed by an Arizona PE or RG summarizing:

- 1. *Purpose and Scope*
 - 1.1. *Provide the following*
 - 1.1.1. *Applicant name (AAC R18-1-503(1))*
 - 1.1.2. *The Individual APP number*
 - 1.1.3. *Facility name*
 - 1.1.4. *Facility Operator*
 - 1.1.5. *Authorized Agent, if applicable (AAC R18-1-503(A)(3))*
 - 1.1.6. *Landowner (if different than applicant)*
 - 1.2. *List and describe the permit-required monitoring points included in this demonstration*
 - 1.3. *Provide a map and/or process flow diagram for the POC and/or discharge monitoring locations*
 - 1.4. *List and describe which of the seven new or adjusted AWQS parameters that are included in this demonstration*
- 2. *Discharge Description*
 - 2.1. *Description of the discharge; describe each component, such as water, waste, products or other substances present in the discharge, including for each the source, quantity, concentration, and known pollutants.*
 - 2.2. *Published data or other sources of information on the pollutants typically present in the components of the discharge.*

