

STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-104236
PLACE ID 17668, LTF 82359
SIGNIFICANT AMENDMENT

1.0 AUTHORIZATION

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2, and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2, A.A.C. Title 18, Chapter 11, Article 4 and amendments thereto, and the conditions set forth in this permit, the Arizona Department of Environmental Quality (ADEQ) hereby authorizes Town of Chino Valley is hereby authorized to operate the Chino Valley Water Reclamation Facility (WRF) and Recharge Basins located in the Town of Chino Valley between SR 89 and Old Home Manor area, Yavapai County, Arizona, over groundwater of the Prescott Active Management Area (AMA) in Township 16 North, Range 2 West, Section 12, NW1/4, NW1/4, E1/2 (WRF), and T16N, R1W, Section 7, NW1/4, W1/2 (Recharge Basins), of the Gila and Salt River Base Line and Meridian.

This permit becomes effective on the date of the Water Quality Division Deputy Director's signature and shall be valid for the life of the facility (operational, closure, and post-closure periods) unless suspended or revoked pursuant to A.A.C. R18-9-A213. The permittee shall construct, operate and maintain the permitted facilities:

1. Following all the conditions of this permit including the design and operational information documented or referenced below, and
2. Such that Aquifer Water Quality Standards (AWQS) are not violated at the applicable point(s) of compliance (POC) set forth below or if an AWQS for a pollutant has been exceeded in an aquifer at the time of permit issuance, that no additional degradation of the aquifer relative to that pollutant and as determined at the applicable POC occurs as a result of the discharge from the facility.

1.1. PERMITTEE INFORMATION

Facility Name: Chino Valley Water Reclamation Facility
Facility Address: 2190 Rodeo Dr
Chino Valley AZ, 86323
County: Yavapai

Permitted Flow Rate: 1,000,000 Gallons per Day

Permittee: Town of Chino Valley
Permittee Address: 1950 Voss Dr. Chino Valley AZ 86323

Facility Contact: Assistant Public Works Director
Emergency Phone No.: (928) 636 - 3400

Latitude/Longitude: 34° 47' 60" N / 112° 25' 28" W
Legal Description: Township 16N, Range 2W, Section 12, NW ¼ NW ¼ E of the Gila and Salt River Baseline and Meridian

1.2. AUTHORIZING SIGNATURE

Randall Matas, Acting Director
Water Quality Division
Arizona Department of Environmental Quality

Signed this _____ day of _____, 2026

THIS AMENDED PERMIT SUPERSEDES ALL PREVIOUS PERMITS

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2.0 SPECIFIC CONDITIONS

{A.R.S. §§ 49-203(4), 49-241(A)}

2.1. FACILITY / SITE DESCRIPTION

{A.R.S. § 49-243(K)(8), and A.A.C. R18-5-114}

The permittee is authorized to operate the Chino Valley Water Reclamation Facility (WRF), with a maximum average monthly flow of 1.0 million gallons per day (mgd). ADEQ has graded this facility as a Grade 4 wastewater treatment plant (WWTP). The facility shall have an operator in direct responsible charge who is certified for the class and grade of the facility and is available to the onsite operator¹ and ensures an onsite operator visits the facility daily.

The WRF treatment process consists of an influent lift station, influent fine screening and grit removal, nitrification-denitrification using anoxic and aerobic reactors, solid-liquid separation using membrane bioreactors, and ultraviolet (UV) disinfection. The sludge handling train consists of two aerated sludge storage tanks, waste activated sludge (WAS) transfer pumps, and two dewatering screw presses. Influent equalization is provided by two aerated equalization basins, preceded by influent coarse screening with each equalization (EQ) basin equipped with a floating mechanical surface aerator. Equalized influent is returned to the main process area using the EQ pump station, which discharges into the influent fine screens. All effluent produced at the Chino Valley WRF is discharged to rapid infiltration basins (RIBs) for disposal. The RIBs are located away from the WRF treatment site approximately 1.0 mile east of the WRF.

All industrial hookups and other non-residential hookups to the treatment system shall be authorized according to the applicable federal, state or local regulations.

The site includes the following permitted discharging facilities:

Table 1: DISCHARGING FACILITIES		
Facility	Latitude (North)	Longitude (West)
Chino Valley WRF	34° 47' 06.68"	112° 25' 28.77"
Rapid Infiltration Basins (RIBs)	34° 46' 53.02"	112° 24' 27.66"

2.1.1. Annual Registration Fee

{A.R.S. § 49-242 and A.A.C. R18-14-104}

The annual registration fee for this permit is payable to ADEQ each year. The annual registration fee flow rate is established by the permitted flow rate identified in Section 1.1. If the facility is not constructed or is incapable of discharge, the permittee may be eligible for reduced fees pursuant to Table 2 under A.A.C. R18-14-104(A). Send all correspondence requesting reduced fees to ADEQ. Please reference the permit number, LTF number, and the reason for requesting reduced fees under this rule.

2.1.2. Financial Capability

{A.R.S. § 49-243(N) and A.A.C. R18-9-A203 }

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The estimated dollar amount for facility closure is \$807,691.50. The financial capability was demonstrated through A.A.C. R18-9-A203(B)(1) and (2).

¹ Seven days a week. In the absence of the operator in direct responsible charge, the operator in charge of the facility is certified for the applicable class of facility and at a grade no lower than one grade below the grade of the facility.

2.2. BEST AVAILABLE DEMONSTRATED CONTROL TECHNOLOGY (BADCT)

{A.R.S. § 49-243(B) and A.A.C. R18-9-A202(A)(5)}

The treatment facility shall be designed, constructed, operated, and maintained to meet the treatment performance criteria for new facilities as specified in A.A.C. R18-9-B204. The facility shall meet the performance requirement for industrial pre-treatment as per A.A.C. R18-9-B204(B)(6)(b).

The facility has requested alternate (reduced) pathogen monitoring frequency per A.A.C. R18-9-B204(B)(4)(a)(iii). The facility consists of a UV disinfection system with continuous monitoring of UV dose and UV transmittance. To reduce the frequency, ADEQ requires the permittee to conduct a 90-day test of UV dosage and UV transmittance as an alternative indicator parameter, while monitoring the effluent as per Section 4.2, Table 11. **Error! Reference source not found.** During the 90-day test, the applicant shall record UV dosage and UV transmittance continuously and analyze the sample for daily fecal coliform monitoring. After the test, the permittee shall submit a report to ADEQ for review. If ADEQ concludes that the test has established the appropriate levels of UV dosage and transmittance to meet the non-detect for fecal coliform discharge limit, then ADEQ will approve a fecal coliform monitoring frequency reduction from daily to weekly. The permittee shall submit an amendment application per Compliance Schedule Item #7 to set an Alert Level for UV dosage and Transmittance.

The treatment facility was designed not to exceed a maximum seepage rate of 550 gallons per day per acre for all containment structures within the treatment works.

2.2.1. Engineering Design

The Chino Valley WRF were designed as per the Town of Chino Valley Basis of Design report Water Reclamation Facility Improvements design report and design plans signed, dated, and sealed by Taylor B. Pierce, P.E (Civil #70097) with Pacific Advanced Civil Engineering, Inc on 4/17/26 and 5/05/26, respectively.

The WRF was designed as per the Design Report dated November 25, 2002, prepared by Mr. Justin Logan, P.E., Aqua Engineering, Inc.

2.2.2. Site-Specific Characteristics

Site specific characteristics were not used to determine BADCT.

2.2.3. Pre-Operational Requirements

Prior to initiating use of the Influent Coarse Screening, Equalization Lift Station, Aerated Flow Equalization Basins, Screw Press, and Odor Control Facilities the permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion in a format approved by ADEQ per the compliance schedule in Section 3.0. The certificate shall be submitted to ADEQ.

2.2.4. Operational Requirements

1. The permittee shall maintain a copy of the up-to-date operations and maintenance manual at the treatment facility site at all times; the manual shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.2, Table 12: FACILITY INSPECTION AND OPERATIONAL MONITORING
3. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and material(s) used shall be documented in the facility log book as per Section 2.7.2 and reported to ADEQ in the event of a violation or exceedance per Section 2.7.3

2.2.5. Reclaimed Water Classification

{A.A.C. R18-9-B701(C)(2)(a), A.A.C. R18-11-303 through 307}

Not Applicable.

2.2.6. Certified Areawide Water Quality Management Plan Conformance

{A.A.C. R18-9-A201(B)(6)(a)}

Facility operations must conform to the approved Certified Areawide Water Quality Management Plan according to the 208 consistency determination in place at the time of permit issuance.

2.3. DISCHARGE LIMITATIONS

{A.R.S. §§ 49-201(14), 49-243 and A.A.C. R18-9-A205(B)}

1. The permittee is authorized to operate the treatment facility with an average daily monthly maximum (ADMM) flow of 1.0 million gallons per day (mgd).
2. The permittee shall notify all users that the materials authorized to be disposed of through the treatment facility are typical household sewage and pre-treated commercial wastewater and shall not include motor oil, gasoline, paints, varnishes, hazardous wastes, solvents, pesticides, fertilizers or other materials not generally associated with toilet flushing, food preparation, laundry facilities and personal hygiene.
3. The permittee shall operate and maintain all permitted facilities to prevent unauthorized discharges pursuant to A.R.S. § 49-201(12) resulting from failure or bypassing of applicable BADCT.
4. Specific discharge limitations are listed in Section 4.2, Table 9: ROUTINE DISCHARGE MONITORING.

2.4. POINT OF COMPLIANCE (POC)

{A.R.S. § 49-244}

The Points of Compliance (POCs) have been established at the following locations:

Table 2: POINT OF COMPLIANCE				
POC #	POC Location	ADWR Registration Number	Latitude (North)	Longitude (West)
1	300 feet west of the berm between RIB # 4 and RIB # 5	55-589793	34° 46 '41.2"	112° 24 ' 32.1"
2	200 feet northwest of the northwest corner of RIB # 1	55-903450	34° 46 ' 53.9"	112° 24 ' 30.3"

The depth to groundwater is 147.7-ft bgs and the groundwater flow direction is to the northwest.

The director may require an amendment of this permit to install a monitoring well if there is cause or concern that groundwater quality may be impacted at the POC. The Director may amend this permit to designate additional points of compliance if information on groundwater gradients or groundwater usage indicates the need.

2.5. MONITORING REQUIREMENTS

{A.R.S. § 49-243(K)(1), A.A.C. R18-9-A206(A)}

Unless otherwise specified in this permit, all monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. Unless otherwise provided, monitoring shall commence the first full monitoring period following permit issuance. All sampling, preservation and holding times shall be in accordance with currently accepted standards of professional practice. Trip blanks, equipment blanks and duplicate samples shall also be obtained, and Chain-of-Custody procedures shall be followed, in accordance with currently accepted standards of professional practice. Copies of laboratory analyses and Chain-of-Custody forms shall be maintained at the permitted facility. Upon request, these documents shall be made readily available for review by ADEQ personnel.

2.5.1. Pre-Operational Monitoring

Not Applicable.

2.5.2. Routine Discharge Monitoring

The permittee shall monitor the effluent according to Section 4.2, Table 9: ROUTINE DISCHARGE MONITORING. Representative samples of the effluent shall be collected at the point of discharge from the effluent pump station.

2.5.3. Reclaimed Water Monitoring

Not Applicable.

2.5.4. Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.2, Table 12: FACILITY INSPECTION AND OPERATIONAL MONITORING.

If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented in the facility log book as per Section 2.7.2 and reported to ADEQ in case of a violation or exceedance as per Section 2.7.3.

2.5.5. Groundwater Monitoring and Sampling Protocols

Static water levels shall be measured and recorded prior to sampling. Wells shall be purged of at least three borehole volumes (as calculated using the static water level) or until field parameters (pH, temperature, conductivity) are stable, whichever represents the greater volume. If evacuation results in the well going dry, the well shall be allowed to recover to 80 percent of the original borehole volume, or for 24 hours, whichever is shorter, prior to sampling. If after 24 hours there is not sufficient water for sampling, the well shall be recorded as “dry” for the monitoring event. An explanation for reduced pumping volumes, a record of the volume pumped, and modified sampling procedures shall be reported and submitted with the SMRF.

The permittee may conduct the sampling using low-flow purging methods in accordance with EPA, USGS, or DOD protocols. The well must be purged until indicator parameters stabilize. Indicator parameters shall include dissolved oxygen, turbidity, pH, temperature, and conductivity.

2.5.5.1. POC Well Replacement

In the event that one or more of the designated POC wells should become unusable or inaccessible due to damage, exceedance of an alert level (AL) for water level as required by Section 2.6.2.3.4, or any other event, a replacement POC well shall be constructed and installed upon approval by ADEQ. If the replacement well is fifty feet or less from the original well, the ALs and/or aquifer quality limits (AQLs) calculated for the designated POC well may apply to the replacement well.

2.5.5.2. Ambient Groundwater Quality Monitoring for POC Wells

Not Applicable

2.5.5.3. Alert levels for POC Wells

Not Applicable.

2.5.5.4. Aquifer Quality Limits for POC Wells

Not Applicable.

2.5.6. Surface Water Monitoring and Sampling Protocols

Routine surface water monitoring is not required under the terms of this permit.

2.5.7. Analytical Methodology

All samples collected for compliance monitoring shall be analyzed using Arizona state-approved methods. If no state-approved method exists, then any appropriate EPA-approved method shall be used. Regardless of the method used, the detection limits must be sufficient to determine compliance with the regulatory limits of the parameters specified in this permit. If all methods have detection limits higher than the applicable limit, the permittee shall follow the applicable contingency requirements of Section 2.6 'Contingency Plan Requirements' and may propose "other actions" including amending the permit to set higher limits. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification unless exempted under A.R.S. 36-495.02. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of state-certified laboratories in Arizona can be obtained at the address below:

Arizona Department of Health Services
Office of Laboratory Licensure and Certification
250 North 17th Avenue
Phoenix, Arizona 85007
Phone: (602) 364-0720

2.5.8. Installation and Maintenance of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative samples required by the permit can be collected. If new groundwater wells are determined to be necessary, the construction details shall be submitted to ADEQ for approval prior to installation and the permit shall be amended to include any new monitoring points.

2.6. CONTINGENCY PLAN REQUIREMENTS

{A.R.S. § 49-243(K)(3), (K)(7) and A.A.C. R18-9-A204, R18-9-A205 and R18-9-C305(A)(1)}

2.6.1. General Contingency Plan Requirements

The permittee shall prepare and implement a contingency plan consistent with the circumstances and actions described in Sections 2.6.2 through 2.6.5 and with A.A.C. R18-9-A204. At least one copy of this permit and the contingency plan, referenced in Section 5.0, shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. A permittee shall advise all employees responsible for the operation of the facility of the location of the contingency plan. The permittee shall revise the contingency plans upon any significant change to the information contained in the plan.

Any AL exceedance, or violation of an AQL, DL, or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3 'Permit Violation and Alert Level Status Reporting', unless more specific reporting requirements are set forth in Section 2.6.2 through 2.6.5.

Some contingency actions involve verification sampling. Verification sampling shall consist of the first follow-up sample collected from a location that previously indicated a violation or the exceedance of an AL. Collection and analysis of the verification sample shall use the same protocols and test methods to analyze for the pollutant or pollutants that exceeded an AL or violated an AQL or DL. Where verification sampling is specified in this permit, it is the option of the permittee to perform such sampling. If verification sampling is not conducted within the timeframe allotted, ADEQ and the permittee shall presume the initial sampling result to be confirmed as if verification sampling had been conducted. The permittee is responsible for compliance with contingency actions relating to the exceedance of an AL or violation of a DL, AQL or any other permit condition. The permittee is subject to enforcement action for the failure to comply with any contingency actions in this permit.

2.6.2. Exceeding of Alert Levels and Performance Levels

2.6.2.1. Exceeding of Performance Levels Set for Operational Conditions

For freeboard performance levels, the permittee shall comply with the requirements as specified in Section 4.2, Table 12: FACILITY INSPECTION AND OPERATIONAL MONITORING to prevent the to prevent the overtopping of a tank or rapid infiltration basins. If a tank or rapid infiltration basin overtops the permittee shall follow the requirements in Section 2.6.5.3 and the reporting requirements of Section 2.7.3. This includes releases of more than 2,000 gallons of raw influent from the collection system or a treatment process prior to biological treatment that are contained onsite.

If a performance level set in Section 4.2, Table 12: FACILITY INSPECTION AND OPERATIONAL MONITORING has been exceeded the permittee shall:

1. Notify ADEQ within five (5) days of becoming aware of the exceedance per Section 2.7.5.
2. Submit a written report to ADEQ within thirty (30) days after becoming aware of the exceedance per Section 2.7.5. The report shall document all of the following:
 - a. A description of the exceedance and the cause of the exceedance;
 - b. The period of the exceedance, including exact date(s) and time(s), if known, and the anticipated time period during which the exceedance is expected to continue;
 - c. Any action taken or planned to mitigate the effects of the exceedance or spill, or to eliminate or prevent recurrence of the exceedance or spill;
 - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS; and
 - e. Any malfunction or failure of pollution control devices or other equipment or process.

The facility is no longer on alert status once the operational indicator no longer indicates that a performance level is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

2.6.2.2. Exceeding of Alert Levels (ALs) Set for Discharge Monitoring

1. If an AL set in Section 4.2, Table 9: ROUTINE DISCHARGE MONITORING has been exceeded, the permittee shall investigate to determine the cause of the AL exceedance within 24 hours, or as soon as practicable. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the exceedance;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences; and
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the exceedance, the permittee shall sample individual waste streams composing the wastewater for the parameter(s) in question, if necessary to identify the cause of the exceedance.
2. The permittee shall initiate actions identified in the contingency plan referenced in Section 2.6.1 'General Contingency Plan Requirements' and specific contingency measures identified in Section 2.6 to resolve any problems identified by the investigation which may have led to the AL exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6 Corrective Actions.

3. Within thirty (30) days of an AL exceedance, the permittee shall submit the laboratory results to ADEQ per Section 2.7.5 along with a summary of the findings of the investigation, the cause of the exceedance, and actions taken to resolve the problem.
4. Upon review of the submitted report, ADEQ may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.2.2.1. Exceeding Permit Flow Limit

1. If the AL for average monthly flow in Section 4.2, Table 8: ROUTINE FLOW MONITORING has been exceeded, the permittee shall submit an application to ADEQ for an APP amendment to expand the WRF, or submit a report detailing the reasons an expansion is not necessary. Acceptance of the report instead of an application for expansion requires ADEQ approval.

2.6.2.3. Exceeding of Alert Levels in Groundwater Monitoring

2.6.2.3.1. Alert Levels for Indicator Parameters

No ALs have been established for indicator parameters.

2.6.2.3.2. Alert Levels for Pollutants with Numeric Aquifer Water Quality Standards

1. In the case of an exceedance of an AL for a pollutant set in Section 4.2, Table 10: GROUNDWATER MONITORING, the permittee may conduct verification sampling for those pollutant(s) that exceeded their respective AL(s) within five (5) days of becoming aware of the exceedance. The permittee may use results of another sample taken between the date of the last sampling event and the date of receiving the result as verification.
2. If verification sampling confirms the AL exceedance or if the permittee opts not to perform verification sampling, then the permittee shall increase the frequency of monitoring for each pollutant exceeding its' respective AL(s) as follows:

Table 3: ACCELERATED MONITORING - ALERT LEVEL EXCEEDANCE	
Specified Monitoring Frequency	Monitoring Frequency for AL Exceedance
Daily	Daily
Weekly	Daily
Monthly	Weekly
Quarterly	Monthly
Semi-annually	Quarterly
Annually	Quarterly

In addition, the permittee shall initiate an investigation of the cause of the AL exceedance within 24 hours, or as soon as practicable, including inspection of all discharging units and all related pollution control devices, review of any operational and maintenance practices that might have resulted in an unexpected discharge, and hydrologic review of groundwater conditions including upgradient water quality.

3. The permittee shall initiate actions identified in the contingency plan referenced in Section 5.0 and specific contingency measures identified in Section 2.6 CONTINGENCY PLAN REQUIREMENTS to resolve any problems identified by the investigation which may have led to an AL exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6. Alternatively, the permittee may submit a technical demonstration, subject to written approval by ADEQ, that although an AL has been exceeded, the pollutant(s) that exceeded their respective AL(s) are not reasonably expected to cause a violation of an AQL or AWQS. The demonstration may

propose a revised AL or monitoring frequency, for those pollutant(s) that exceeded their respective AL(s), for approval in writing by ADEQ.

4. Within thirty (30) days after confirmation of an AL exceedance, for each pollutant that exceeded an AL, the permittee shall submit the laboratory results to ADEQ per Section 2.7.5 along with a summary of the findings of the investigation, the cause of the exceedance, and actions taken to resolve the problem.
5. Upon review of the submitted report, ADEQ may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.
6. For each pollutant that exceeded an AL, the increased monitoring required as a result of an AL exceedance may be reduced to the monitoring frequency in Section 4.2, Table 10: GROUNDWATER MONITORING if the results of four sequential sampling events of those pollutants demonstrate that they did not exceed the AL.
7. If the increased monitoring required as a result of an AL exceedance continues for more than six (6) sequential sampling events, the permittee shall submit to ADEQ per Section 2.7.5 a second report documenting an investigation of each pollutant which continued to exceed an AL. This report is due within thirty (30) days of the receipt of laboratory results of the sixth sampling event.

2.6.2.3.3. Alert Levels to Protect Downgradient Users from Pollutants without Numeric Aquifer Water Quality Standards

Not required at time of issuance.

2.6.2.3.4. Alert Level for Groundwater Level

1. If monitoring indicates the groundwater level is not within the allowable range established by the Alert Level (AL) in Section 4.2, Table 10: GROUNDWATER MONITORING, the permittee shall submit a written report to ADEQ per Section 2.7.5 within thirty (30) days after becoming aware of the exceedance. The report shall document the following:
 - a. the as-built configuration of the well including the screened interval;
 - b. all groundwater level measurements available for the well;
 - c. a discussion and analysis of any trends or seasonal variations in the groundwater level measurements;
 - d. information on groundwater recharge, withdrawal, or other hydrologic conditions in the vicinity of the well, and;
 - e. any other pertinent information obtained by the permittee.
2. If monitoring indicates the groundwater level is not within the allowable range established by the Alert Level (AL) in Section 4.2, Table 10: GROUNDWATER MONITORING for more than 3 sequential sampling events, the permittee shall submit a second report which evaluates the cause(s) of the exceedance and recommends whether the well should be replaced pursuant to Section 2.5.5.1. The report shall discuss and demonstrate whether samples representative of the water quality of the relevant aquifer can be practicably obtained from the well.
3. Upon review of the submitted report, ADEQ may amend the permit to require replacement of the well, require additional permit conditions, or other actions.

2.6.3. Discharge Limit Violation

1. If a DL set in Section 4.2, Table 9: ROUTINE DISCHARGE MONITORING has been violated, the permittee shall investigate to determine the cause within 24 hours, or as soon as practicable. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the violation;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the violation, the permittee shall sample individual waste streams composing the wastewater for the parameters in violation, as necessary to identify the cause of the violation.

The permittee shall submit a report to ADEQ according to Section 2.7.3, which includes a summary of the findings of the investigation, the cause of the violation, and actions taken to resolve the problem. The permittee shall consider and ADEQ may require corrective action that may include control of the source of discharge, cleanup of affected soil, surface water or groundwater, notification of downstream or downgradient users who may be directly affected by the discharge, and mitigation of the impact of pollutants on existing uses of the aquifer. Corrective actions shall either be specifically identified in this permit, included in an ADEQ-approved contingency plan, or separately approved according to Section 2.6.6.

2. Upon review of the submitted report, ADEQ may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions, or other actions.

2.6.4. Aquifer Quality Limit Violation

1. If an AQL set in Section 4.2, Table 10: GROUNDWATER MONITORING has been exceeded, the permittee may conduct verification sampling for those pollutant(s) that were above their respective AQL(s) within five (5) days of becoming aware of the exceedance. The permittee may use results of another sample taken between the date of the last sampling event and the date of receiving the result as verification.
2. If verification sampling does not confirm an AQL exceedance, no further action is needed under this Section.
3. If verification sampling confirms that an AQL was exceeded for any parameter, or if the permittee opts not to perform verification sampling, then, the permittee shall increase the frequency of monitoring for those parameters as follows:

Table 4: ACCELERATED MONITORING - AQUIFER QUALITY LIMIT VIOLATION	
Specified Monitoring Frequency	Monitoring Frequency for AQL Violation
Daily	Daily
Weekly	Daily
Monthly	Weekly
Quarterly	Monthly
Semi-annually	Quarterly
Annually/Biennially	Quarterly

In addition, the permittee shall initiate an evaluation for the cause of the violation within 24 hours, or as soon as practicable, including inspection of all discharging units and all related pollution control devices, and review of any operational and maintenance practices that might have resulted in an unexpected discharge.

The permittee also shall submit a report according to Section 2.7.3 Permit Violation and Alert Level Status Reporting, which includes a summary of the findings of the investigation, the cause of the violation, and actions taken to resolve the problem. A verified exceedance of an AQL will be considered a violation unless the permittee demonstrates within thirty (30) days that the exceedance was not caused or contributed to by pollutants discharged from the facility. Unless the permittee has demonstrated that the exceedance was not caused or contributed to by pollutants discharged from the facility, the permittee shall consider and ADEQ may require corrective action that may include control of the source of discharge, cleanup of affected soil, surface water, or groundwater, and mitigation of the impact of pollutants on existing uses of the aquifer. Corrective actions shall either be specifically identified in this permit, included in the approved contingency plan, or separately approved according to Section 2.6.6 'Corrective Actions'.

4. Upon review of the submitted report, ADEQ may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.
5. The increased monitoring for those pollutant(s) required as a result of an AQL exceedance may be reduced to the original sampling frequency for each respective pollutant, if the results of three (3) sequential sampling events demonstrate that the parameter(s) does not exceed their respective AQL(s), and upon ADEQ approval.

2.6.5. Emergency Response and Contingency Requirements for Unauthorized Discharges

{A.R.S. § 49-201(12) and § 49-241}

2.6.5.1. Duty to Respond

Within 24 hours, or as soon as practicable, the permittee shall act to correct any condition resulting from a discharge pursuant to A.R.S. § 49-201(12) if that condition could pose an imminent and substantial endangerment to public health or the environment.

2.6.5.2. Discharge of Hazardous Substances or Toxic Pollutants

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of suspected hazardous substances (A.R.S. § 49-201(19)) or toxic pollutants (A.R.S. § 49-243(I)) on the facility site, the permittee shall promptly isolate the area and attempt to identify the discharged material. The permittee shall record information, including name, nature of exposure and follow-up medical treatment, if necessary, on persons who may have been exposed during the incident. The permittee shall notify ADEQ within 24 hours of discovering the discharge of hazardous material which (a) has the potential to cause an AWQS or AQL exceedance, or (b) could pose an endangerment to public health or the environment.

2.6.5.3. Discharge of Non-Hazardous Materials

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of non-hazardous materials from the facility, the permittee shall promptly attempt to cease the discharge and isolate the discharged material. Discharged material shall be removed and the site cleaned up as soon as possible. The permittee shall notify ADEQ within 24 hours of discovering the discharge of non-hazardous material which has the potential to cause an AQL or AWQS exceedance, or could pose an endangerment to public health or the environment.

2.6.5.4. Reporting Requirements

The permittee shall submit a written report for any unauthorized discharges reported under Sections 2.6.5.2 and 2.6.5.3 to ADEQ per Section 2.7.5 within thirty (30) days of the discharge or as required by subsequent ADEQ action. The report shall summarize the event, including any human exposure, and facility response activities and include all information specified in Section 2.7.3 'Permit Violation and Alert Level Status Reporting'. If a notice is issued by ADEQ subsequent to the discharge notification, any additional information requested in the notice shall also be submitted within the time frame specified in the notice. Upon review of the submitted report, ADEQ may require additional monitoring or corrective actions.

2.6.6. Corrective Actions

Specific contingency measures identified in Section 2.6 CONTINGENCY PLAN REQUIREMENTS have already been approved by ADEQ and do not require written approval to implement.

With the exception of emergency response actions taken under Section 2.6.5 'Emergency Response and Contingency Requirements for Unauthorized Discharges', the permittee shall obtain written approval from ADEQ prior to implementing a corrective action to accomplish any of the following goals in response to exceedance of an AL, AQL, DL, or another permit condition:

1. Control of the source of an unauthorized discharge;
2. Soil cleanup;
3. Cleanup of affected surface waters;
4. Cleanup of affected parts of the aquifer;
5. Mitigation to limit the impact of pollutants on existing uses of the aquifer.

Within thirty (30) days of completion of any corrective action not specified in 2.6.1 through 2.6.5, the operator shall submit to ADEQ per Section 2.7.5, a written report describing the causes, impacts, and actions taken to resolve the problem.

2.7. REPORTING AND RECORDKEEPING REQUIREMENTS

{A.R.S. § 49-243(K)(2), A.A.C. R18-5-104, R18-9-A206(B), and R18-9-A207}

2.7.1. Self-Monitoring Report Form

1. The permittee shall complete the Self-Monitoring Reporting Forms (SMRFs) provided by ADEQ, and submit the completed report through the myDEQ online reporting system per Section 2.7.5. The permittee shall use the format devised by ADEQ.
2. The permittee shall complete the SMRF to the extent that the information reported may be entered on the form. If no information is required during a reporting period, the permittee shall enter "not required" on the form, include an explanation, and submit the form to ADEQ.
3. The tables contained in Section 4.0 list the monitoring parameters and the frequencies for reporting results on the SMRF:

- a. Table 8: ROUTINE FLOW MONITORING
- b. Table 9: ROUTINE DISCHARGE MONITORING
- c. Table 10: GROUNDWATER MONITORING

The parameters listed in the above-identified tables from Section 4.0 are the only parameters for which SMRF reporting is required.

2.7.2. Operation Inspection / Log Book Recordkeeping

A signed copy of this permit shall be maintained at all times at the location where day-to-day decisions regarding the operation of the facility are made. A log book (paper copies, forms, or electronic data) of the inspections and measurements required by this permit shall be maintained at the location where day-to-day decisions are made regarding the operation of the facility. The log book shall be retained for ten years from the date of each inspection, and upon request, the permit and the log book shall be made readily available for review by ADEQ personnel. The information in the log book shall include, but not be limited to, the following information as applicable:

- 1. Name of inspector;
- 2. Date and shift inspection was conducted;
- 3. Condition of applicable facility components;
- 4. Any damage or malfunction, and the date and time any repairs were performed;
- 5. Documentation of sampling date and time; and
- 6. Any other information required by this permit to be entered in the log book.
- 7. Monitoring records for each measurement shall comply with A.A.C. R18-9-A206(B)(2).
- 8. Daily for Grade 4 onsite operator site visit sign-in to comply with A.A.C. R18-5-104.

2.7.3. Permit Violation and Alert Level Status Reporting

- 1. The permittee shall notify ADEQ per Section 2.7.5 within five (5) days (except as provided in Section 2.6.5 Emergency Response and Contingency Requirements for Unauthorized Discharges) of becoming aware of an AL exceedance, or violation of any permit condition, AQL, or DL for which notification requirements are not specified in Sections 2.6.2 through 2.6.5.
- 2. The permittee shall submit a written report to ADEQ per Section 2.7.5 within thirty (30) days of becoming aware of the violation of any permit condition, AQL, or DL. The report shall document all of the following:
 - a. Identification and description of the permit condition for which there has been a violation and a description of the cause;
 - b. The period of violation including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;
 - c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;
 - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS;
 - e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring; and

- f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

2.7.4. Operational, Other or Miscellaneous Reporting

The permittee shall record the information as required in Section 4.2, Table 12: FACILITY INSPECTION AND OPERATIONAL MONITORING in the facility log book as per Section 2.7.2 'Operation Inspection / Log Book Recordkeeping', and report to ADEQ any violations or exceedances as per Section 2.7.3 'Permit Violation and Alert Level Status Reporting'.

If the treatment facility is classified for reclaimed water under this permit, the permittee shall submit the reclaimed water monitoring results and flow volumes to any of the following in accordance with A.A.C. R18-9-B701(C)(2)(c):

1. Any reclaimed water agent who has contracted for delivery of reclaimed water from the permittee; and
2. Any end user who has not waived interest in receiving this information.

2.7.5. Reporting Location

All Self-Monitoring Report Forms (SMRFs) shall be submitted through the myDEQ portal accessible on ADEQ's website at: <https://www.azdeq.gov/mydeq>. Contact at 602-771-4571 for any inquiry related to the SMRFs.

5-day and 30-day contingency notification and reports, laboratory reports, and verification sampling results required by this permit should be submitted through the myDEQ portal accessible on ADEQ's website at: <https://www.azdeq.gov/mydeq>.

If the required reports cannot be submitted, or require further documentation that cannot be submitted on the myDEQ portal, then submit items to APPContingencyreports@azdeq.gov or the address listed below:

The Arizona Department of Environmental Quality
Individual Aquifer Protection Program (APP) Unit - Groundwater Reclamation & Reuse Section
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4999

2.7.6. Reporting Deadline

The following table lists the quarterly report due dates:

Table 5: QUARTERLY REPORTING DEADLINES	
Monitoring Conducted During Quarter:	Quarterly Report Due By:
January-March	April 30
April-June	July 30
July-September	October 30
October-December	January 30

The following table lists the semi-annual and annual report due dates if applicable:

Table 6: (SEMI-)ANNUAL REPORTING DEADLINES	
Monitoring Conducted:	Report Due By:
Semi-annual: January-June	July 30
Semi-annual: July-December	January 30
Annual: January-December	January 30

2.7.7. Changes to Facility Information in Section 1.0 and Section 2.0

ADEQ shall be notified per Section 2.7.5 within ten days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person, Certified Operator in Direct Responsible Charge or Emergency Telephone Number.

2.8. Temporary Cessation

{A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A209(A)}

The permittee shall give written notice to ADEQ per Section 2.7.5 before ceasing operation of the facility for a period of 60 days or greater. The permittee shall take the following measures upon temporary cessation:

1. If applicable, direct the wastewater flows from the facility to another state-approved wastewater treatment facility;
2. Correct the problem that caused the temporary cessation of the facility; and
3. Notify ADEQ with a monthly facility status report describing the activities conducted on the treatment facility to correct the problem.
4. Submittal of Self-Monitoring Report Forms (SMRFs) is still required; report "temporary cessation" in the comment section.

At the time of notification, the permittee shall submit for ADEQ approval a plan for maintenance of discharge control systems and for monitoring during the period of temporary cessation. Following ADEQ approval, the permittee shall promptly implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. During the period of temporary cessation, the permittee shall provide written notice to ADEQ of the operational status of the facility every three years. If the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

2.9. Closure

{A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9-A209(B)}

For a facility addressed under this permit, the permittee shall give written notice of closure to ADEQ per Section 2.7.5 of the intent to cease operation without resuming activity for which the facility was designed or operated. Submittal of SMRFs is still required; report "closure in process" in the comment section.

2.9.1. Closure Plan

Within 90 days following notification of closure, the permittee shall submit for approval to ADEQ per Section 2.7.5, a closure plan which meets the requirements of A.R.S. § 49-252 and A.A.C. R18-9-A209(B)(3).

If the results of the implemented closure plan achieves clean-closure, ADEQ will issue a letter of approval to the permittee. If the closure plan contains a schedule for bringing the facility to a clean-closure configuration at a future date, ADEQ may incorporate any part of the schedule as an amendment to this permit.

2.9.2. Closure Completion

Upon completion of closure activities, the permittee shall give written notice to ADEQ per Section 2.7.5 indicating that the approved closure plan has been implemented fully and providing supporting documentation to demonstrate that clean-closure has been achieved (soil sample results, verification sampling results, groundwater data, as applicable). If clean-closure has been achieved, ADEQ shall issue a letter of approval to the permittee at that time. If any of the following conditions apply, the permittee shall follow the terms of post-closure stated in this permit:

1. Clean-closure cannot be achieved at the time of closure notification or within one year thereafter under a diligent schedule of closure actions;
2. Further action is necessary to keep the facility in compliance with the AWQS at the applicable POC or, for any pollutant for which the AWQS was exceeded at the time this permit was issued, further action is necessary to prevent the facility from further degrading the aquifer at the applicable POC with respect to that pollutant;
3. Remedial, mitigative or corrective actions or controls are necessary to comply with A.R.S. § 49-201(36) and Title 49, Chapter 2, Article 3;
4. Further action is necessary to meet property use restrictions;

SMRF submittals are required until Clean Closure is issued.

2.10. Post-closure

{A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9 A209(C)}

Post-closure requirements shall be established based on a review of facility closure actions and will be subject to review and approval by ADEQ.

In the event clean-closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to ADEQ a post-closure plan that addresses post-closure maintenance and monitoring actions at the facility. The post-closure plan shall meet all requirements of A.R.S. §§ 49-201(30) and 49-252 and A.A.C. R18-9-A209(C). Upon approval of the post-closure plan, this permit shall be amended or a new permit shall be issued to incorporate all post-closure controls and monitoring activities of the post-closure plan.

2.10.1. Post-Closure Plan

A specific post-closure plan may be required upon the review of the closure plan.

2.10.2. Post-Closure Completion

Not required at the time of permit issuance.

3.0 COMPLIANCE SCHEDULE

{A.R.S. § 49-243(K)(5) and A.A.C. R18-9-A208}

Unless otherwise indicated, for each compliance schedule item listed below, the permittee shall submit the required information to ADEQ per Section 2.7.5.

NOTE: Arizona law requires that engineering and geological documents such as cost estimates, drawings, specifications, maps, plans, and reports be signed and sealed by an Arizona registered professional engineer or an Arizona registered geologist, pursuant to the Arizona Board of Technical Registration statutes, unless a statutory exclusion or exemption applies. See A.R.S. § 32-101 to -152; A.A.C. R4-30-101 to -306.

Table 7: COMPLIANCE SCHEDULE ITEMS			
No.	Description	Due By:	Permit Amendment Required?
Engineer's Certification of Completion:			
1.	The permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion for the equalization tank, new coarse screen and screw press in a format approved by ADEQ that confirms that the facility is constructed according to ADEQ-approved design report or plans and specifications, as applicable. ²	Prior to utilizing the new components and within 90 days of completion of construction.	No
90-day Fecal Coliform Testing for Alternate Monitoring			
2.	The permittee shall begin monitoring for UV dosage, UV transmittance and Fecal coliform under Section 4.2, Table 11	Within 30 days after the date of permit issuance.	No
3.	Notify ADEQ when the 90-day test has been completed.	Within 10 days of the last sample.	No
4.	Submit a 90-day report that demonstrates that the alternative indicator parameters for UV disinfection will produce the effluent quality required for Table 11, <i>Fecal Coliform</i> monitoring.	Within 30 days of completing the 90-day test.	No
5.	Discontinuing monitoring under Section 4.2, Table 11 and commence weekly Fecal Coliform monitoring under Section 4.2 Table 9.	Upon receiving written approval from ADEQ.	No
6.	The permittee shall submit an APP Amendment Application to the Department to set alert levels for UV dosage and Transmittance in Section 4.2, Table 9.	Within 30 days after receiving written approval of the 90-day Test Report from ADEQ	Yes

² An ECOC must be submitted, prior to use and within 90 days of completion of construction, for each component of the treatment works and/or disposal works constructed in order to discharge under the respective Routine Flow Monitoring Table in Section 4.2.

4.0 TABLES OF MONITORING REQUIREMENTS

4.1. PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

Not applicable.

4.2. COMPLIANCE OR OPERATIONAL MONITORING

Table 8: ROUTINE FLOW MONITORING					
Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
1 ³	Effluent Pump Station flowmeter			34° 47 ' 06.68"	112° 25 ' 28.77"
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Total Flow ⁴ : Daily ⁵	Not Applicable ⁶	Not Applicable	mgd ⁷	Daily	Quarterly
Total Flow: Monthly Average ⁸	0.95	1.0	mgd	Monthly Calculation	Quarterly

³ All wastewater flow measurement devices must be calibrated prior to the first year of reporting and recalibrated either biennially (every 2 years) or at the minimum frequency specified by the manufacturer. Wastewater flow measurement devices must be calibrated using the procedures specified by the device manufacturer (40 CFR § 98.354.e).

⁴ Total flow for all methods of disposal recharge

⁵ Total Daily Flow shall be measured using a continuous recording flow meter that totals the flows daily.

⁶ Not Applicable means that monitoring is required, but no limits have been specified at the time of permit issuance.

⁷ mgd = million gallons per day

⁸ Monthly Average means the calculated average of daily flow values in each calendar month

Table 9: ROUTINE DISCHARGE MONITORING

Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
1	Discharge From UV disinfection			34° 47 ' 05.92"	112° 25 ' 27.72"
2	Effluent Pump Station flowmeter			34° 47 ' 06.68"	112° 25 ' 28.77"
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Fecal Coliform: Single sample maximum	Not Applicable	23	MPN ⁹	Daily ¹⁰	Quarterly
Fecal Coliform: four (4) of seven (7) samples in a week ¹¹	Not Applicable	Non-detect ¹²	MPN	Weekly Evaluation	Quarterly
UV Transmittance ¹³	Monitor	Not established	% Transmittance	Continuous ¹⁴	Quarterly
UV Dose ¹⁵	Monitor	Not established	mJ/cm ²	Continuous	Quarterly
Total Nitrogen ¹⁶ :Five-sample rolling geometric mean ¹⁷	8	10	mg/l ¹⁸	Monthly Calculation	Quarterly
Cyanide (As Free Cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	mg/l	Quarterly	Quarterly
Metals (Total)					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.6	2	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
Lead	0.04	0.05	mg/l	Quarterly	Quarterly
Mercury	0.0016	0.002	mg/l	Quarterly	Quarterly
Nickel	0.08	0.1	mg/l	Quarterly	Quarterly
Selenium	0.04	0.05	mg/l	Quarterly	Quarterly
Thallium	0.0016	0.002	mg/l	Quarterly	Quarterly

⁹ MPN = Most Probable Number / 100 ml sample. For MPN, a value of <2.2 shall be considered to be non-detect

¹⁰ For fecal coliform, "daily" sampling means every day in which a sample can practicably be obtained and delivered in sufficient time for proper analysis, provided that no less than four samples in each week are obtained and analyzed

¹¹ Week means a seven-day period starting on Sunday and ending on the following Saturday. The reporting form for this parameter consists of 13 weeks per quarter

¹² Fecal coliform 4 of 7 samples requires entering "Compliance" or "Non-compliance" on the SMRF for each week of the reporting period.

Evaluate the daily fecal coliform results for that week (Sunday through Saturday) {A.A.C. R-18-9-B204(B)(4) (b)(i)}. If, of these seven days, four or more of the daily fecal coliform results are less than non-detect, report "Compliance" for that week's entry on the SMRF. If three or fewer of the daily fecal coliform results are non-detect, report "Non-compliance" for that week's entry on the SMRF.

¹³ In the event UV transmittance falls below alert levels, daily Fecal Coliform monitoring will be used to demonstrate compliance with disinfection standards. An exceedance must be explained and submitted to the department with the corresponding quarterly SMRF

¹⁴ Continuous = Continuous monitoring shall be reported as the minimum reading during a 24 hour period, from an instrument with a signal averaging time not exceeding 120 seconds. Occasional spikes due to system maintenance or instrument malfunction shall not be considered an exceedance

¹⁵ In the event UV Dosage falls below alerts levels, daily Fecal Coliform monitoring will be used to demonstrate compliance with disinfection standards. An exceedance must be explained and submitted to the department with the corresponding quarterly SMRF

¹⁶ Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen

Table 9: ROUTINE DISCHARGE MONITORING (Continued)

Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
1	Discharge From UV disinfection			34° 47 ' 05.92"	112° 25' 27.72"
2	Effluent Pump Station flowmeter			34° 47 ' 06.68"	112° 25 ' 28.77"
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Volatile and Semi-Volatile Organic Compounds (VOCs and SVOCs)					
Benzene	0.004	0.005	mg/l	Quarterly	Quarterly
Carbon tetrachloride	0.004	0.005	mg/l	Quarterly	Quarterly
o-Dichlorobenzene	0.48	0.6	mg/l	Quarterly	Quarterly
para-Dichlorobenzene	0.06	0.075	mg/l	Quarterly	Quarterly
1,2-Dichloroethane	0.004	0.005	mg/l	Quarterly	Quarterly
1,1-Dichloroethylene	0.0056	0.007	mg/l	Quarterly	Quarterly
cis-1,2-Dichloroethylene	0.05	0.07	mg/l	Quarterly	Quarterly
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Quarterly	Quarterly
Dichloromethane	0.004	0.005	mg/l	Quarterly	Quarterly
1,2-Dichloropropane	0.004	0.005	mg/l	Quarterly	Quarterly
Ethylbenzene	0.56	0.7	mg/l	Quarterly	Quarterly
Monochlorobenzene	0.08	0.1	mg/l	Quarterly	Quarterly
Styrene	0.08	0.1	mg/l	Quarterly	Quarterly
Tetrachloroethylene	0.004	0.005	mg/l	Quarterly	Quarterly
Toluene	0.8	1.0	mg/l	Quarterly	Quarterly
Trihalomethanes (total) ⁷	0.08	0.1	mg/l	Quarterly	Quarterly
1,1,1-Trichloroethane	0.16	0.2	mg/l	Quarterly	Quarterly
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Quarterly	Quarterly
1,1,2 – Trichloroethane	0.004	0.005	mg/l	Quarterly	Quarterly
Trichloroethylene	0.004	0.005	mg/l	Quarterly	Quarterly
Vinyl Chloride	0.0016	0.002	mg/l	Quarterly	Quarterly
Xylenes (Total)	8.0	10.0	mg/l	Quarterly	Quarterly
Polychlorinated Biphenols (PCBs)	0.0004	0.0005	mg/l	Quarterly	Quarterly
Radionuclides:					
Gross Alpha (including Radium-226 but excluding Radon and Uranium)	12.0	15.0	pCi/l ¹⁹	Quarterly	Quarterly
Gross Beta	40.0	50.0	pCi/l	Quarterly	Quarterly
Radium 226 & Radium 228	4.0	5.0	pCi/l	Quarterly	Quarterly

¹⁷ The five-sample rolling geometric mean is determined by multiplying the five (5) most recent monthly sample values together then taking the fifth root of the product. Example: $GM_5 = \sqrt[5]{(m_1)(m_2)(m_3)(m_4)(m_5)}$

¹⁸ mg/l = milligrams per liter

¹⁹ pCi/l= Pico Curies per liter.

Table 10: GROUNDWATER MONITORING

Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
3	MW-2 55-589793 300' from berm between RIB #4 and #5			34° 46 '41.2"	112° 24 ' 32.1"
4	MW-1 55-903450 200' northwest to RIB #1			34° 46 ' 53.9"	112° 24 ' 30.3"
Parameter	Alert Level	Aquifer Quality Limit	Units	Sampling Frequency	Reporting Frequency
Total Nitrogen	8	10	mg/l	Quarterly Calculation	Quarterly
Nitrate and Nitrite as N	8	10	mg/l	Quarterly Calculation	Quarterly
Nitrate as N	8	10	mg/l	Quarterly	Quarterly
Nitrite as N	0.8	1	mg/l	Quarterly	Quarterly
Total Kjeldahl Nitrogen (TKN)	Monitoring	Monitoring	mg/l	Quarterly	Quarterly
Fecal Coliform	Not Applicable	Not Applicable	MPN	Quarterly	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	mg/l	Quarterly	Quarterly
Metals (Dissolved)					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.60	2.00	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
Lead	0.04	0.05	mg/l	Quarterly	Quarterly
Mercury	0.0016	0.002	mg/l	Quarterly	Quarterly
Nickel	0.08	0.1	mg/l	Quarterly	Quarterly
Selenium	0.04	0.05	mg/l	Quarterly	Quarterly
Thallium	0.0016	0.002	mg/l	Quarterly	Quarterly

Table 10: GROUNDWATER MONITORING (Continued)					
Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
3	POC #1 MW-2 55-589793			34° 46 '41.2"	112° 24 ' 32.1"
4	POC #2 MW-1 55-903450			34° 46 ' 53.9"	112° 24 ' 30.3"
Parameter	Alert Level	Aquifer Quality Limit	Units	Sampling Frequency	Reporting Frequency
Volatile and Semi-Volatile Organic Compounds (VOCs and SVOCs)					
Benzene	0.004	0.005	mg/l	Quarterly	Quarterly
Carbon tetrachloride	0.004	0.005	mg/l	Quarterly	Quarterly
o-Dichlorobenzene	0.48	0.6	mg/l	Quarterly	Quarterly
para-Dichlorobenzene	0.06	0.075	mg/l	Quarterly	Quarterly
1,2-Dichloroethane	0.004	0.005	mg/l	Quarterly	Quarterly
1,1-Dichloroethylene	0.0056	0.007	mg/l	Quarterly	Quarterly
cis-1,2-Dichloroethylene	0.056	0.07	mg/l	Quarterly	Quarterly
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Quarterly	Quarterly
Dichloromethane	0.004	0.005	mg/l	Quarterly	Quarterly
1,2-Dichloropropane	0.004	0.005	mg/l	Quarterly	Quarterly
Ethylbenzene	0.56	0.7	mg/l	Quarterly	Quarterly
Monochlorobenzene	0.08	0.1	mg/l	Quarterly	Quarterly
Styrene	0.08	0.1	mg/l	Quarterly	Quarterly
Tetrachloroethylene	0.004	0.005	mg/l	Quarterly	Quarterly
Toluene	0.8	1.0	mg/l	Quarterly	Quarterly
Trihalomethanes (total) ⁷	0.08	0.1	mg/l	Quarterly	Quarterly
1,1,1-Trichloroethane	0.16	0.2	mg/l	Quarterly	Quarterly
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Quarterly	Quarterly
1,1,2 – Trichloroethane	0.004	0.005	mg/l	Quarterly	Quarterly
Trichloroethylene	0.004	0.005	mg/l	Quarterly	Quarterly
Vinyl Chloride	0.0016	0.002	mg/l	Quarterly	Quarterly
Xylenes (Total)	8.0	10.0	mg/l	Quarterly	Quarterly
Polychlorinated Biphenols (PCBs)	0.0004	0.0005	mg/l	Quarterly	Quarterly
Radionuclides:					
Gross Alpha (including Radium-226 but excluding Radon and Uranium)	12.0	15.0	pCi/l ²⁰	Quarterly	Quarterly
Gross Beta	40.0	50.0	pCi/l	Quarterly	Quarterly
Radium 226 & Radium 228	4.0	5.0	pCi/l	Quarterly	Quarterly

²⁰ pCi/l= Pico Curies per liter.

Table 11: 90 Day Test For Alternative Indicator Parameters					
Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
1	Discharge From UV disinfection			34° 47 ' 05.92"	112° 25' 27.72"
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
<i>Fecal Coliform</i> : Single sample maximum	Not Established ²¹	23	MPN ²²	Daily ²³	Once ²⁴
<i>Fecal Coliform</i> : four (4) of seven (7) samples in a week ²⁵	Not Established	Non detectable ²⁶	MPN	Daily	Once
UV Transmittance ²⁷	Monitor	Not established	% Transmittance	Continuous ²⁸	Once
UV Dose ²⁹	Monitor	Not established	mJ/cm ²	Continuous	Once

²¹ NE = Not Established = Monitoring is required but no limits have been specified.

²²MPN = Most Probable Number / 100 ml sample.

²³ Daily means everyday except weekends

²⁴After the 90-day test period, submit the results to ADEQ comparing the results for chlorine residual with the results for Fecal Coliform (see Compliance Schedule Item #8).

²⁵"Week" means seven (7) calendar days from Sunday through Saturday.

²⁶ Absence (or non-detect) is equivalent to less than 2.2 MPN (most probable number) per 100/ml, or 1.0 CFU/100 ml.

²⁷ In the event UV transmittance falls below alert levels, daily *Fecal Coliform* monitoring will be used to demonstrate compliance with disinfection standards. An exceedance must be explained and submitted to the department with the corresponding quarterly SMRF

²⁸ Continuous = Continuous monitoring shall be reported as the minimum reading during a 24 hour period.

²⁹ In the event UV Dosage falls below alerts levels, daily *Fecal Coliform* monitoring will be used to demonstrate compliance with disinfection standards. An exceedance must be explained and submitted to the department with the corresponding quarterly SMRF

Table 12: FACILITY INSPECTION AND OPERATIONAL MONITORING

Pollution Control Structure/Parameter	Performance Level	Inspection Frequency	Reporting Frequency
Bioreactor Tank Freeboard	One (1) Linear Foot	Daily	See Section 2.7.3
Sludge Holding Tanks Freeboard	One (1) Linear Foot	Daily	
Rapid infiltration basins Freeboard	Two (2) Linear Foot	Weekly	
Rapid infiltration basins Integrity	No cracks or leaks	Weekly	
Pump Integrity	Good working condition	Weekly	
Treatment Plant Components	Good working condition	Weekly	
Standby Generators or Automatic Transfer Switch	Fuel level checked and Generator tested to ensure preparation for emergency operation	Monthly	
Biofilters Activated Carbon systems	Good working condition H ₂ S and flow	Monthly	
Surface Impoundment Vegetation Removal	Maintain a procedure to control excessive vegetation that may impact the integrity of the impoundment or inhibit access	Monthly	See Sections 2.7.3
POC Wells	Well cap and seals are intact. No discernable corrosion or deterioration of the well(s). No discernable materials accumulating in the well. Any dedicated well equipment are functional and intact.	Monthly	

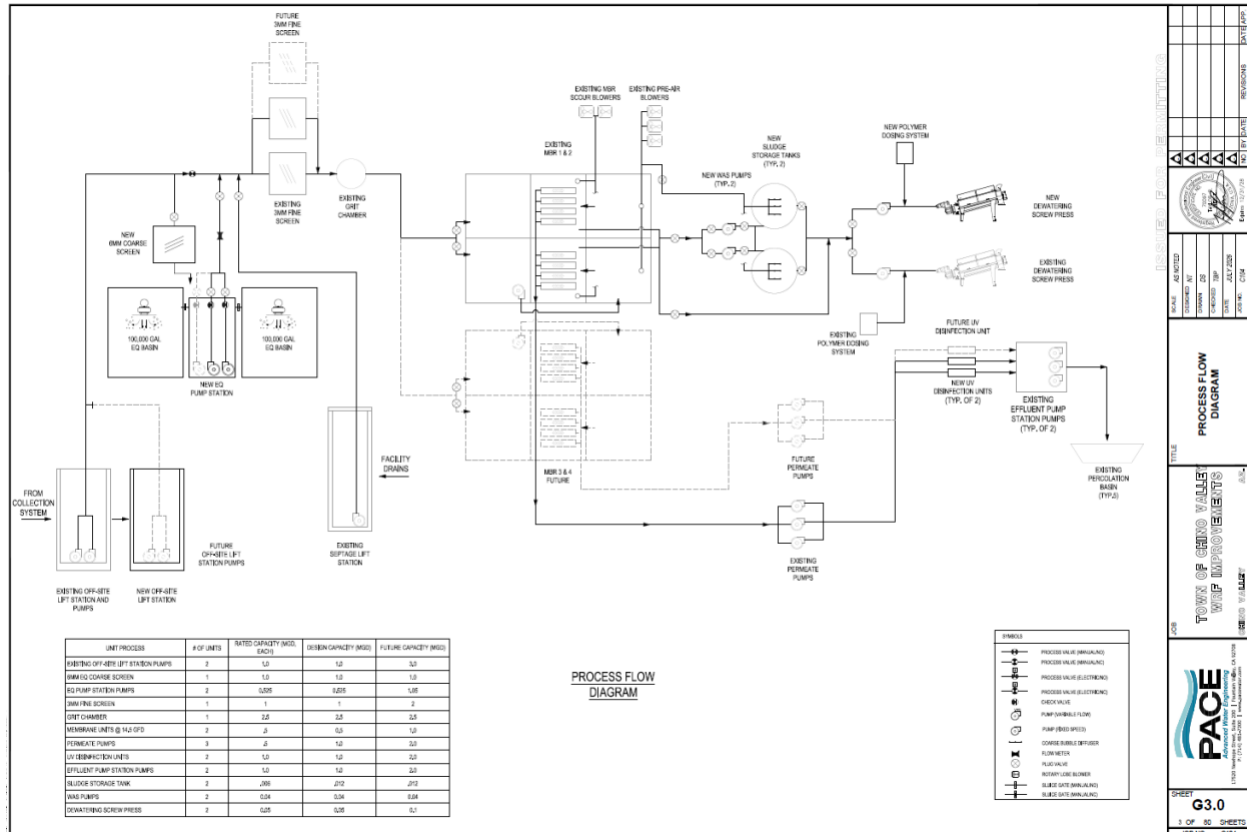
5.0 REFERENCES AND PERTINENT INFORMATION

The terms and conditions set forth in this permit have been developed based upon the information contained in the following, which are on file with ADEQ:

APP Application, dated: 05/14/2026

Contingency Plan, date and name	05/14/2026, Appendix J/ Attachment C Contingency Plan
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Process Flow Diagram 07/01/26



6.0 NOTIFICATION PROVISIONS

6.1. Duty to Comply

{A.R.S. §§ 49-221 through 263}

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the Arizona Revised Statutes, Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

6.2. Duty to Provide Information

{A.R.S. §§ 49-243(K)(2) and 49-243(K)(8)}

The permittee shall furnish to the Director, or an authorized representative, within a time specified, any information which the Director may request to determine whether cause exists for amending or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

6.3. Compliance with Aquifer Water Quality Standards

{A.R.S. §§ 49-243(B)(2) and 49-243(B)(3)}

The permittee shall not cause or contribute to a violation of an Aquifer Water Quality Standard (AWQS) at the applicable point of compliance for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an AWQS for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable POC for the facility, the water quality of any aquifer for that pollutant.

6.4. Technical and Financial Capability

{A.R.S. §§ 49-243(K)(8) and 49-243(N) and A.A.C. R18-9-A202(B) and R18-9-A203(E) and (F)}

The permittee shall have and maintain the technical and financial capability necessary to fully carry out the terms and conditions of this permit. Any bond, insurance policy, trust fund, or other financial assurance mechanism provided as a demonstration of financial capability, pursuant to A.A.C. R18-9-A203(C), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

6.5. Reporting of Bankruptcy or Environmental Enforcement

{A.A.C. R18-9-A207(C)}

The permittee shall notify the Director within five days after the occurrence of any one of the following:

1. the filing of bankruptcy by the permittee; or
2. the entry of any order or judgment not issued by the Director against the permittee for the enforcement of any environmental protection statute or rule.

6.6. Inspection and Entry

{A.R.S. §§ 49-1009, 49-203(B), and 49-243(K)(8)}

In accordance with A.R.S. §§ 41-1009 and 49-203(B), the permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to enter and inspect the facility as reasonably necessary to ensure compliance with Title 49, Chapter 2, Article 3 of the Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit.

6.7. Duty to Modify

{A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A211}

The permittee shall apply for a permit amendment prior to making changes to the design or operational practices authorized by this permit.

6.8. Permit Action: Amendment, Transfer, Suspension, and Revocation

{A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213}

This permit may be amended, transferred, suspended, or revoked for cause, under the rules of ADEQ. The permittee shall notify ADEQ in writing within 15 days after any change in the owner or operator of the facility. The notification shall state the permit number, the name of the facility, the date of property transfer, and the name, address, and phone number where the new owner or operator can be reached. The operator shall advise the new owner or operators of the terms of this permit and the need for permit transfer in accordance with the rules.

7.0 ADDITIONAL PERMIT CONDITIONS

7.1. Other Information

{A.R.S. § 49-243(K)(8)}

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit the correct facts or information.

7.2. Severability

{A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213}

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition.

7.3. Permit Transfer

This permit may not be transferred to any other person except after notice to and approval of the transfer by ADEQ. No transfer shall be approved until the applicant complies with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).