

STATE OF ARIZONA
INDIVIDUAL INDUSTRIAL RECLAIMED WATER PERMIT NO. R-100225
PLACE ID 6138, LTF 103147

1.0 AUTHORIZATION

In compliance with the provisions of Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Article 7 and A. A. C. Title 18, Chapter 11, Article 3 and amendments thereto, and the conditions set forth in this permit, Arizona Department of Corrections is hereby authorized to use industrial wastewater blended with Class B+ reclaimed water for beneficial reuse in accordance with the limitations, monitoring requirements and other conditions set forth in this permit and in the rules cited above, at the Arizona State Prison Complex (ASPC) - Yuma, located at 7125 E. Cesar Chavez Boulevard, in the City of San Luis, Yuma County, Arizona, over groundwater of the Yuma groundwater basin in Section 8, Township 11 S, Range 23 W, Gila and Salt River Baseline and Meridian.

This permit becomes effective on the date of the Groundwater Protection Mining and Industrial Section Manager's signature and will expire five years thereafter, unless suspended or revoked pursuant to A.A.C. R18-9-706(A)(2). Conditions established in this permit are designed to protect public health and safety, prevent contamination of groundwater through consumptive water use, and conserve potable water by using reclaimed resources. Water application rates authorized herein do not supersede the requirements of the Arizona Department of Water Resources.

1.1 PERMITTEE INFORMATION

Facility Name:	Arizona State Prison Complex - Yuma
Facility Address:	7125 E. Cesar Chavez Blvd, San Luis, Arizona 85349 Yuma County
Permittee:	Arizona Department of Corrections
Permittee Address:	1601 W. Jefferson Street Phoenix, Arizona 85007
Facility Contact:	Marcos Cabrera, Physical Plant Operations Administrator
Emergency Phone No.:	(928) 627-8871 ext. 16104
Latitude/Longitude:	32° 29' 16.303" N / 114° 38' 24.660" W
Legal Description:	Township 11 S, Range 23 W, Section 8, of the Gila and Salt River Baseline and Meridian

1.2 REUSE SITE

The reuse site consists of 26 acres of grass fields within the ASPC - Yuma. Irrigation will occur within the injection site located to the east of the wastewater treatment plant at 32° 29' 28" N / 114° 37' 58" W, fields within the Memorial and K9 Parks, and fields within the Cheyenne & Cocopah Units.

1.3 AUTHORIZING SIGNATURE

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

Signed this ____ day of _____, 2026

2.0 RECLAIMED WATER USE

The ASPC - Yuma is a prison facility located 15 miles south of Yuma, Arizona. The prison utilizes a 1.22-million gallon per day (MGD) wastewater treatment plant (WWTP) producing Class B+ reclaimed water and a reverse osmosis (RO) water treatment system producing treated water for the prison. The RO system will also produce 0.31 MGD of a concentrated reject stream (RO reject water). The primary means of effluent disposal is percolation through on-site percolation ponds (see Aquifer Protection Permit No. P-100225). The percolation ponds are designed for a disposal capacity of 1.53 MGD combined effluent and RO reject water. Irrigation with the blended wastewater is to sustain the grass grown in the fields at the facility and is not necessary to meet disposal capacity for the facility.

2.1 Legal Description

Applicant/Permittee:	Arizona Department of Corrections
Mailing Address:	7125 E. Cesar Chavez Blvd San Luis, Arizona 85349
Phone:	(928) 627-8871
Treatment Facility:	ASPC - Yuma Wastewater Treatment Plant (WWTP)
Physical Address:	7125 E. Cesar Chavez Blvd, San Luis, Arizona 85349
County:	Yuma County
Latitude/Longitude:	32° 29' 26.60" N / 114° 38' 9.79" W
Cadastral:	Township 11 S, Range 23 W, Section 8
Facility Operator:	Bruce Valley
Position/Title:	GHD Operations Manager
Phone:	(602) 402-0025
Reuse Site:	ASPC Yuma
Location:	7125 E. Cesar Chavez Blvd, San Luis, Arizona 85349
County:	Yuma County
Latitude/Longitude:	Multiple; see below
Cadastral:	Township 11 S, Range 23 W, Section 8

2.2 Reuse Site Description

The reuse site consists of 26 acres of grass fields within the ASPC - Yuma, which consists of Bermuda grass in the warmer months and rye grass in the cooler months. Alfalfa is also grown at the facility. Irrigation with the blended wastewater (Class B+ reclaimed water and RO reject water) will occur within the following locations:

- The Injection Site east of the WWTP at 32° 29' 28" N / 114° 37' 58" W,
- The Memorial Park at 32° 29' 36.80" N / 114° 38' 38.66" W,
- The K9 Park at 32° 29' 5.87" N / 114° 38' 33.50" W,
- The fields within the Cheyenne Unit 32° 29' 18.20" N / 114° 38' 24.38" W, and
- The fields within the Cocopah Unit 32° 29' 30.56" N / 114° 38' 45.55" W.

Use of this blended wastewater for turf irrigation shall not exceed 0.10 MGD.

3.0 ALLOWABLE PERMIT LIMITS AND MONITORING REQUIREMENTS

3.1 Discharge Monitoring

Arizona Department of Corrections is authorized to use combined Class B+ reclaimed water and RO reject water (blended wastewater) as stated in Section 2.0 of this permit, subject to the requirements specified in Table I below. The blended wastewater monitoring requirements for this facility are specified in this permit and the Aquifer Protection Permit for the ASPC-Yuma (No. P-100225). A representative sample of the blended wastewater shall be collected from the discharge stream prior to delivery to the irrigation site. Unless otherwise indicated, allowable permit limits are maximum values, which shall not be exceeded.

**TABLE I
BLENDED WASTEWATER DISCHARGE MONITORING**

Sampling Point Number	Sampling Point Identification	Latitude	Longitude
2	Parshall flume located immediately upstream of the percolation ponds	32° 29' 30" N	114° 38' 08" W

Parameter	DL ¹	Units	Sampling Frequency	Reporting Frequency
Flow ² : Daily	Monitor	MGD ³	Daily	Quarterly
Flow: Total monthly flow provided for reuse	See Table IA	MGD	Monthly	Quarterly
Total Nitrogen ⁴ : Five-sample geometric mean	10	mg/L ⁵	Monthly ⁶ (Calculation)	Quarterly
Total Dissolved Solids	1,500	mg/L	Monthly	Quarterly
Fecal Coliform: Single sample maximum	800	CFU ⁷	Daily ⁸	Quarterly
Fecal Coliform: four (4) of seven (7) samples in a week	200 ⁹	CFU	Daily	Quarterly

¹Discharge Limit

²Flow rate shall be measured using a continuously recording totalizing flow meter and shall be located to gauge the flow from the sump to the pond. Flow rate shall be measured on days when blended wastewater is delivered from the sump to the pond.

³MGD = million gallons per day

⁴Nitrate-N, plus Nitrite-N, plus Total Kjeldahl Nitrogen (TKN)

⁵mg/L = milligrams per liter

⁶Monitoring for total nitrogen shall occur only during months in which there is delivery of RO reject water from the sump to the pond.

⁷CFU = Colony Forming Units / 100 ml sample. For CFU, a value of <1.0 shall be considered to be non-detect.

⁸**Daily** for fecal coliform means samples shall be collected and analyzed at least four days per calendar week.

⁹If at least four of the last seven samples are equal to or less than 200 CFU per 100 ml, report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four of the last seven samples are greater than 200 CFU per 100 ml, report "no" in the appropriate space on the SMRF (indicating that the standard has **not** been met).

TABLE IA
BLENDED WASTEWATER FLOW MONITORING TABLE

Sampling Point Number	Sampling Point Identification		Latitude	Longitude
3	Reuse meter at the outflow structure at the point of discharge from Blended Wastewater Storage Pond #1		32° 29' 28" N	114° 38' 07" W
Parameter	DL ¹⁰	Units ¹¹	Sampling Frequency	Reporting Frequency
Total Blended Wastewater Flow: Daily	NE ¹²	MGD	Daily	Quarterly
Total Blended Wastewater Flow: Average Monthly - January	NE	MGM	Monthly	Quarterly
Total Blended Wastewater Flow: Average Monthly - February	NE	MGM	Monthly	Quarterly
Total Blended Wastewater Flow: Average Monthly - March	NE	MGM	Monthly	Quarterly
Total Blended Wastewater Flow: Total Quarterly - 1st Quarter	8.29	MGQ	Quarterly	Quarterly
Total Blended Wastewater Flow: Average Monthly - April	NE	MGM	Monthly	Quarterly
Total Blended Wastewater Flow: Average Monthly - May	NE	MGM	Monthly	Quarterly
Total Blended Wastewater Flow: Average Monthly - June	NE	MGM	Monthly	Quarterly
Total Blended Wastewater Flow: Total Quarterly- 2nd Quarter	11.29	MGQ	Quarterly	Quarterly
Total Blended Wastewater Flow: Average Monthly - July	NE	MGM	Monthly	Quarterly
Total Blended Wastewater Flow: Average Monthly - August	NE	MGM	Monthly	Quarterly
Total Blended Wastewater Flow: Average Monthly - September	NE	MGM	Monthly	Quarterly
Total Blended Wastewater Flow: Total Quarterly - 3rd Quarter	14.6	MGQ	Quarterly	Quarterly
Total Blended Wastewater Flow: Average Monthly - October	NE	MGM	Monthly	Quarterly
Total Blended Wastewater Flow: Average Monthly - November	NE	MGM	Monthly	Quarterly
Total Blended Wastewater Flow: Average Monthly - December	NE	MGM	Monthly	Quarterly
Total Blended Wastewater Flow: Total Quarterly - 4th Quarter	7.33	MGQ	Quarterly	Quarterly

¹⁰ DL - Discharge Limit. Any exceedance of a DL shall be reported on the quarterly Self-monitoring Report Form with an explanation of the reason for the exceedance.

¹¹ MGD = million gallons per day; MGM = million gallons per month; MGQ = million gallons per quarter.

¹² NE = Not Established. No limits for this parameter have been established at time of permit issuance.

3.2 Geometric Mean

Geometric Mean (GM) equals the nth root of the product of n items or values. The GM is calculated using the following formula:

$$GM = \sqrt[n]{X1 * X2 * X3 * ... Xn}$$

When the permit requires a sampling frequency of less than five samples per month, the geometric mean is calculated using the five most recent sampling events (the current sampling event and the four previous events). The following table outlines the frequency for calculating the geometric mean and the reporting frequency:

Number of Samples Taken Per Month	Calculation Frequency	Reporting Frequency
5 or more samples/mo ¹³	Monthly	Quarterly
2, 3, or 4 samples/mo ¹⁴	Monthly	Quarterly
1 sample/mo ¹⁵	Quarterly	Quarterly

3.3 Monitoring Requirements [A.A.C. R18-9-706(B)(3) and A.A.C. R18-9-706(B)(5)]

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 immediately available for review by ADEQ personnel.

3.4 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 contingency requirements of Section 2.6 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 Arizona state-certified laboratories 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

¹³All sampling events during the month shall be used in the calculation of the geometric mean.

¹⁴All sampling events during the current month and the most recent sampling event(s) during the previous month(s) to total five sampling events shall be used in the calculation of the geometric mean.

¹⁵The three sampling events within this quarter and the two most recent sampling events from the previous quarter to total five sampling events shall be used in the calculation of the geometric mean.

3.5 Monitoring and Reporting Schedule [A.A.C. R18-9-706(B)(4)]

All monitoring results shall be recorded on the SMRF provided to the permittee by the ADEQ Water Quality Compliance Data and Enforcement Unit following issuance of this permit.

3.5.1 Self-monitoring Report Form (SMRF)

1. The permittee shall complete the SMRF provided by ADEQ. The completed SMRF shall be submitted to MyDEQ. The SMRF shall be submitted to the Department on a quarterly basis regardless of the operational status of the facility.
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 quarter, the permittee shall enter "not required" on the SMRF and submit the report to ADEQ. The permittee shall use the format devised by ADEQ.
3. The table contained in Section 3.0 lists the parameters to be monitored and the frequency for reporting results for discharge monitoring.

All Self-Monitoring Report Forms (SMRFs) shall be submitted through the myDEQ portal accessible on the ADEQ website at: <http://www.azdeq.gov/welcome-mydeq>

All other documents required by this permit shall be mailed to:

The Arizona Department of Environmental Quality
Groundwater Protection Section
Mail Code 5415B-3
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4571

3.5.2 Reporting Deadline

The following table lists the quarterly report due dates:

Monitoring conducted during quarter:	Quarterly report due by:
January-March	April 30
April-June	July 30
July-September	October 30
October-December	January 30

3.5 Records Retention [A.A.C. R18-9-706(B)(6)]

Records of all monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation, calibration, electronic recording, and maintenance records) shall be retained for five years.

4.0 MANAGEMENT PRACTICES**4.1 Irrigation Practices [A.A.C. R18-9-704(F)]**

Application of the blended wastewater to the reuse area shall be performed according to the following requirements:

1. Runoff of the blended wastewater from the irrigation area to any surface water body or wash is

prohibited. Application of the blended wastewater for irrigation is limited to the specific area as indicated in the permit application and supporting documentation and as listed in Section 2.0 of this permit.

2. Use application methods that reasonably preclude human contact with the blended wastewater.
3. Prevent the blended wastewater from standing on open access areas during normal periods of use.
4. Prevent the blended wastewater from coming into contact with drinking fountains, water coolers, or eating areas.
5. Secure hose bibbs discharging the blended wastewater to prevent use by the public.
6. Irrigation shall occur at night and/or during periods when the inmates will be restricted to the housing units.

4.2 Prohibited Activities [A.A.C. R18-9-704(G)]

This permit allows the use of blended wastewater solely for the purposes allowed by this permit. The following activities **are prohibited**:

1. Irrigating with untreated wastewater;
2. Providing or using the blended wastewater for any of the following activities:
 - a. Direct reuse for swimming, wind surfing, water skiing, or other full-immersion water activity with a potential of ingestion; and/or
 - b. Direct reuse for evaporative cooling or misting.
3. Misapplying the blended wastewater for any of the following reasons:
 - a. Application of the blended wastewater to any area other than a direct reuse site; and or
 - b. Allowing runoff of the blended wastewater or the blended wastewater mixed with stormwater from a direct reuse site, except for agricultural return flow that is directed onto an adjacent field or returned to an open water conveyance.

4.3 Public Information [A.A.C. R18-9-704(H)]

Signs shall be placed and maintained at locations such that employees, visitors, and the general public are informed that the blended wastewater is in use and that no one may drink from the wastewater system.

5.0 COMPLIANCE

5.1 Violations of Discharge Limits and Permit Conditions

1. The permittee shall notify the ADEQ Groundwater Protection Section in writing within five days of becoming aware of a violation of any permit condition or discharge limitation.
2. The permittee shall submit a written report to the ADEQ Groundwater Protection Section within 30 days of becoming aware of the violation of any permit condition or discharge limitation. 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. Description of any malfunction or failure of pollution control devices or other equipment or processes;
 - d. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;
 - e. Any monitoring activity or other information that indicates that any pollutants would be reasonably expected to cause a violation of an Aquifer Water Quality Standard or cause

- endangerment to public health and safety;
- f. Proposed changes to the monitoring, which include changes in constituents or increased frequency of monitoring.

5.2 Unauthorized Release

The permittee shall notify the ADEQ Groundwater Protection Section within 24 hours after becoming aware of an unauthorized release of the blended wastewater to the land surface, surface water bodies, or to the aquifer. This notification shall include:

1. A description of the release;
2. A description of the cause of the release;
3. The location and duration of the release including exact date(s) and time(s);
4. A plan of action, which addresses remedial or mitigative action.

5.3 Reporting Location

Notifications of unauthorized releases and violations of discharge limits and permit conditions shall be submitted to:

Arizona Department of Environmental Quality
Groundwater Protection Section
Mail Code: 5415B-3
1110 W. Washington Street
Phoenix, AZ 85007
Phone: (602) 771-4497, or (800) 234-5677
Fax: (602) 771-4467

6.0 GENERAL PROVISIONS

6.1 Changes to Facility Information in Section 1.0

The Permittee shall notify the ADEQ Groundwater Protection Section in writing within 15 days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person or Telephone Number.

6.2 Permit Transfer [A.A.C. R18-9-706(C)]

The Permittee may transfer this permit to another person if the following conditions are met:

1. Permittee notifies the Director of the proposed transfer;
2. Permittee submits a written agreement containing a specific date for the transfer of permit responsibility and coverage between the current permittee and the proposed new permittee, including an acknowledgment that the existing permittee is liable for violations up to the date of transfer and that the proposed new permittee will be liable for violations from that date forward;
3. The following information for the new proposed permittee shall be provided in the notice:
 - a. name, title, mailing address, and telephone number;
 - b. if applicable, the name, title, mailing address, and telephone number of the authorized contact person for the permittee;
 - c. if applicable, a copy of the certificate of disclosure of violations required under A.R.S. § 49-109.
4. If Permittee requests to amend the permit document to reflect the change in ownership, the appropriate fee must be submitted along with the permit transfer request (see A.A.C. R18-14-103).
5. All correspondence regarding permit transfer should be made to the ADEQ address listed in Section 5.3 of this permit.

6.3 Duty to Comply [A.R.S. §§ 49-221 through 49-263]

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable

provisions of A.R.S. § Title 49, Chapter 2, Articles 1, 2 and 3, A.A.C. Title 18, Chapter 7 and A.A.C. Title 18, Chapter 11, Article 3. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to A.R.S. § Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

6.4 Severability

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.

6.5 Other Laws and Rules

The issuance of this permit does not waive any federal, state, county, or local government rules, regulations, or permits with which this facility may have to comply.

6.6 Permit Reissuance [A.A.C. R18-9-706(A)(3)]

This permit shall expire 5 years from the date of signature. The permittee shall file an application for reissuance not less than 120 days before the expiration of this permit. The terms and conditions of an expired permit are automatically continued pending issuance of a new permit if:

1. The permitted activity is of a continuing nature;
2. Permittee has submitted a timely (120 days before expiration date of permit) and sufficient application for a new permit; and
3. ADEQ is unable, through no fault of Permittee, to issue a new permit before the expiration date of the previous permit.

7.0 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 the Department:

1. Individual Industrial Recycled Water Permit Application dated 4/22/2026
2. Previous facility Individual Industrial Reclaimed Water Permit Application dated October 29, 2015