

DRAFT PERMIT

STATE OF ARIZONA AQUIFER PROTECTION PERMIT NO. P-100405 PLACE ID 888, LTF 100495 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 the City of Tempe to operate the Tempe - Kyrene Water Reclamation Plant (WRP) located at 311 West Guadalupe Road, Tempe, Maricopa County, Arizona, over the groundwater of the Phoenix Active Management Area (AMA) in Township 1 S, Range 4 E, Section 10, NE ¼, 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: Facility Address: County:	Tempe – Kyrene Water Reclamation Plant (WRP) 311 West Guadalupe Road Tempe, Arizona Maricopa
Permitted Flow Rate:	4,500,000 gallons per day
Permittee: Permittee Address:	The City of Tempe Water Utilities Department P.O. Box 5002, Mail Stop 2301 Tempe, Arizona 85280
Facility Contact: Emergency Phone No.:	Mark Weber, P.E. – Water Engineering Manager (480) 350 - 8526
Latitude/Longitude: Legal Description:	33° 21' 45" N / 111° 56' 30" W Township 1 S, Range 4 E, Section 10, NE $^{1\!\!/}4$ of the Gila and Salt River Baseline and Meridian

1.2. AUTHORIZING SIGNATURE

Randall Matas, Deputy Director

Water Quality Division Arizona Department of Environmental Quality

Signed this _____ day of _____, 2025

THIS AMENDED PERMIT SUPERSEDES ALL PREVIOUS PERMITS



TABLE OF CONTENTS

1.0		ORIZATION	
1.1.	PER	MITTEE INFORMATION	1
1.2.	AU	THORIZING SIGNATURE	1
2.0	SPECI	FIC CONDITIONS	1
2.1.		TILITY / SITE DESCRIPTION	
	.1.1.	Annual Registration Fee	
_	.1.2.	Financial Capability	
2.2.		T AVAILABLE DEMONSTRATED CONTROL TECHNOLOGY (BADCT)	
	.2.1.	Engineering Design	
_	.2.2.	Site-Specific Characteristics	
	.2.2.	Pre-Operational Requirements	
	.2.3.	Operational Requirements	
	.2.5.	Reclaimed Water Classification	
	.2.6.	Certified Areawide Water Quality Management Plan Conformance	
2.3.		CHARGE LIMITATIONS	
2.3.		NT OF COMPLIANCE (POC)	
2.5.		NITORING REQUIREMENTS	
	.5.1.	Pre-Operational Monitoring	
_	.5.2.	Routine Discharge Monitoring	
	.5.3.	Reclaimed Water Monitoring	
_	.5.4.	Facility / Operational Monitoring	
_	.5.5.	Groundwater Monitoring and Sampling Protocols	
2	2.5.5.1		
2	.5.6.	Surface Water Monitoring and Sampling Protocols	
_	.5.7.	Analytical Methodology	
	.5.8.	Installation and Maintenance of Monitoring Equipment	
2.6.		VTINGENCY PLAN REQUIREMENTS	
	.6.1.	General Contingency Plan Requirements	
	.6.2.	Exceeding of Alert Levels and Performance Levels	
_	2.6.2.1	•	
	2.6.2.2		
		2.1. Exceeding Permit Flow Limit	
	2.6.2.3	-	
	2.6.2		
	2.6.2		
	2.6.2	.3.3. Alert Levels to Protect Downgradient Users from Pollutants without Numeric Aquifer Water (
	2 (2	Standards	
2	2.6.2		
	.6.3. .6.4.	Discharge Limit Violation	
	.0.4. .6.5.	Aquifer Quality Limit Violation Emergency Response and Contingency Requirements for Unauthorized Discharges	
Z	.0.5. 2.6.5.1.		
	2.6.5.2	, ,	
	2.6.5.3	8 1	
	2.6.5.4		
n	2.0.3.4. .6.6.	Corrective Actions	
2.7.		ORTING AND RECORDKEEPING REQUIREMENTS	
	кег .7.1.	Self-Monitoring Report Form	
	.7.2.	Operation Inspection / Log Book Recordkeeping	
	.7.2.	Permit Violation and Alert Level Status Reporting	
4		i istation and more Let er Status reporting.	



2.	7.4. Operational, Other or Miscellaneous Reporting	16
2.	7.5. Reporting Location	17
2.	7.6. Reporting Deadline	17
2.	7.7. Changes to Facility Information in Section 1.0 and Section 2.0	17
2.8.	TEMPORARY CESSATION	18
2.9.	CLOSURE	18
2.	9.1. Closure Plan	
2.	9.2. Closure Completion	19
2.10		
	10.1. Post-Closure Plan	
2.	10.2. Post-Closure Completion	19
3.0	COMPLIANCE SCHEDULE	20
4.0	TABLES OF MONITORING REQUIREMENTS	21
4.1.	PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)	21
4.2.	COMPLIANCE OR OPERATIONAL MONITORING	22
5.0	REFERENCES AND PERTINENT INFORMATION	31
6.0	NOTIFICATION PROVISIONS	32
6.0 6.1.	NOTIFICATION PROVISIONS ANNUAL REGISTRATION FEES	
	ANNUAL REGISTRATION FEES DUTY TO COMPLY	
6.1.	ANNUAL REGISTRATION FEES DUTY TO COMPLY DUTY TO PROVIDE INFORMATION	
6.1.6.2.6.3.6.4.	ANNUAL REGISTRATION FEES DUTY TO COMPLY DUTY TO PROVIDE INFORMATION COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS	
6.1.6.2.6.3.6.4.6.5.	ANNUAL REGISTRATION FEES DUTY TO COMPLY DUTY TO PROVIDE INFORMATION COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS TECHNICAL AND FINANCIAL CAPABILITY	
 6.1. 6.2. 6.3. 6.4. 6.5. 6.6. 	ANNUAL REGISTRATION FEES DUTY TO COMPLY DUTY TO PROVIDE INFORMATION COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS TECHNICAL AND FINANCIAL CAPABILITY REPORTING OF BANKRUPTCY OR ENVIRONMENTAL ENFORCEMENT	
 6.1. 6.2. 6.3. 6.4. 6.5. 6.6. 6.7. 	ANNUAL REGISTRATION FEES DUTY TO COMPLY DUTY TO PROVIDE INFORMATION COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS TECHNICAL AND FINANCIAL CAPABILITY REPORTING OF BANKRUPTCY OR ENVIRONMENTAL ENFORCEMENT MONITORING AND RECORDS	
 6.1. 6.2. 6.3. 6.4. 6.5. 6.6. 6.7. 6.8. 	ANNUAL REGISTRATION FEES DUTY TO COMPLY DUTY TO PROVIDE INFORMATION COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS TECHNICAL AND FINANCIAL CAPABILITY REPORTING OF BANKRUPTCY OR ENVIRONMENTAL ENFORCEMENT MONITORING AND RECORDS INSPECTION AND ENTRY	
 6.1. 6.2. 6.3. 6.4. 6.5. 6.6. 6.7. 6.8. 6.9. 	ANNUAL REGISTRATION FEES DUTY TO COMPLY DUTY TO PROVIDE INFORMATION COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS TECHNICAL AND FINANCIAL CAPABILITY REPORTING OF BANKRUPTCY OR ENVIRONMENTAL ENFORCEMENT MONITORING AND RECORDS INSPECTION AND ENTRY DUTY TO MODIFY	
 6.1. 6.2. 6.3. 6.4. 6.5. 6.6. 6.7. 6.8. 	ANNUAL REGISTRATION FEES DUTY TO COMPLY DUTY TO PROVIDE INFORMATION COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS TECHNICAL AND FINANCIAL CAPABILITY REPORTING OF BANKRUPTCY OR ENVIRONMENTAL ENFORCEMENT MONITORING AND RECORDS INSPECTION AND ENTRY DUTY TO MODIFY PERMIT ACTION: AMENDMENT, TRANSFER, SUSPENSION, AND REVOCATION	
6.1. 6.2. 6.3. 6.4. 6.5. 6.6. 6.7. 6.8. 6.9. 6.10 7.0	ANNUAL REGISTRATION FEES DUTY TO COMPLY DUTY TO PROVIDE INFORMATION COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS TECHNICAL AND FINANCIAL CAPABILITY REPORTING OF BANKRUPTCY OR ENVIRONMENTAL ENFORCEMENT MONITORING AND RECORDS INSPECTION AND ENTRY DUTY TO MODIFY PERMIT ACTION: AMENDMENT, TRANSFER, SUSPENSION, AND REVOCATION ADDITIONAL PERMIT CONDITIONS	
6.1. 6.2. 6.3. 6.4. 6.5. 6.6. 6.7. 6.8. 6.9. 6.10 7.0 7.1.	ANNUAL REGISTRATION FEES DUTY TO COMPLY DUTY TO PROVIDE INFORMATION COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS TECHNICAL AND FINANCIAL CAPABILITY REPORTING OF BANKRUPTCY OR ENVIRONMENTAL ENFORCEMENT MONITORING AND RECORDS INSPECTION AND ENTRY DUTY TO MODIFY PERMIT ACTION: AMENDMENT, TRANSFER, SUSPENSION, AND REVOCATION ADDITIONAL PERMIT CONDITIONS OTHER INFORMATION	
6.1. 6.2. 6.3. 6.4. 6.5. 6.6. 6.7. 6.8. 6.9. 6.10 7.0 7.1. 7.2.	ANNUAL REGISTRATION FEES DUTY TO COMPLY DUTY TO PROVIDE INFORMATION COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS TECHNICAL AND FINANCIAL CAPABILITY REPORTING OF BANKRUPTCY OR ENVIRONMENTAL ENFORCEMENT MONITORING AND RECORDS INSPECTION AND ENTRY DUTY TO MODIFY PERMIT ACTION: AMENDMENT, TRANSFER, SUSPENSION, AND REVOCATION ADDITIONAL PERMIT CONDITIONS OTHER INFORMATION SEVERABILITY	
6.1. 6.2. 6.3. 6.4. 6.5. 6.6. 6.7. 6.8. 6.9. 6.10 7.0 7.1.	ANNUAL REGISTRATION FEES DUTY TO COMPLY DUTY TO PROVIDE INFORMATION COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS TECHNICAL AND FINANCIAL CAPABILITY REPORTING OF BANKRUPTCY OR ENVIRONMENTAL ENFORCEMENT MONITORING AND RECORDS INSPECTION AND ENTRY DUTY TO MODIFY PERMIT ACTION: AMENDMENT, TRANSFER, SUSPENSION, AND REVOCATION ADDITIONAL PERMIT CONDITIONS OTHER INFORMATION	

TABLE OF TABLES

TABLE 1: DISCHARGING FACILITIES	4
TABLE 2: POINT(S) OF COMPLIANCE	7
TABLE 3: ACCELERATED MONITORING - ALERT LEVEL EXCEEDANCE	11
TABLE 4: ACCELERATED MONITORING - AQUIFER QUALITY LIMIT VIOLATION	13
TABLE 5: QUARTERLY REPORTING DEADLINES	17
TABLE 6: (SEMI-)ANNUAL REPORTING DEADLINES	17
TABLE 7: COMPLIANCE SCHEDULE ITEMS	20
TABLE 8: ROUTINE DISCHARGE MONITORING	22
TABLE 9: RECLAIMED WATER MONITORING - CLASS A+	25
TABLE 10: GROUNDWATER MONITORING FOR MONITORING WELLS IN RECHARGE AREA	26
TABLE 11: GROUNDWATER MONITORING FOR MONITORING WELLS IN RECHARGE AREA	28
TABLE 12: WATER LEVEL MONITORING POC#6 (COT-4)	29
TABLE 13: FACILITY INSPECTION AND OPERATIONAL MONITORING	30



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 Tempe Kyrene Water Reclamation Plant (KWRP) at maximum average monthly flow of 4.5 million gallons per day (MGD). The Department has graded this facility as a Grade 4 wastewater treatment plant. The facility shall have an operator in direct responsible charge who is certified for the grade of the facility and inspects the facility "Daily" for a Grade 4 WWTP.

The WRP treatment process consists of headworks with an influent lift station, screens, a grit chamber, and a flow equalization basin, biological nitrification and denitrification, membrane filtration and ultraviolet disinfection. All the KWRP units are constructed from reinforced concrete except for the UV chamber which is constructed from stainless steel. The WRP is a scalping plant and as such is equipped with gravity overflow pipes across the facility that drain to the downstream sewer to be treated at the 91st Ave. WWTP. All the KWRP units and components are fully enclosed, odor control scrubbers installed on all vents, and the entire KWRP site surrounded with a fence or wall that is at least 6 feet high and which aesthetically matches the surrounding area.

All waste sludge, including the screenings, grit, and scum, is delivered to the sanitary sewer for treatment at the City of Phoenix 91st Avenue Wastewater Treatment Plant in accordance with Agreement No. 22699, the Inter-Governmental Agreement for the Construction, Operation, and Maintenance of the Jointly used Sewerage Treatment and Transportation Facilities, Updated to Addendum No. 6 - Annotated, the Sub-Regional Operating Group (SROG) Agreement.

Effluent generated shall either be 1) discharged into three direct injection recharge wells with ADWR Underground Storage Facility Permit No. 71-563943.0005 and ADWR Water Storage Permit No. 73-563943.002 and pursuant to this permit; 2) reused pursuant to valid Reclaimed Water Permits; 3) reused at the SRP Kyrene Generating Station or 4) divert to City of Phoenix, 91st Ave Wastewater Treatment Plant. Additionally, whenever the WRP does not meet the Discharge Limits in Section 4.2, Table 8: ROUTINE DISCHARGE MONITORING, of this permit for four consecutive days, wastewater or effluent shall be by-passed to the City of Phoenix, 91st Avenue Wastewater Treatment Plant, in accordance with the SROG Agreement referenced above.

The depth to groundwater is approximately 95 feet bgs beneath the facility. The direction of groundwater flow is generally towards the west at both locations.

The WRP will produce reclaimed water meeting Class A+ Reclaimed Water Standards (A.A.C. R18-11, Article 3) and may be delivered for beneficial use under valid reclaimed water permits under A.A.C. R18-9 Article 7.

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

Table 1: DISCHARGING FACILITIES			
Facility	Latitude (North)	Longitude (West)	
Point of discharge from the disinfection unit	33° 21' 45" N	111° 56' 35" W	
Direct injection well #1 (RW-1) to groundwater aquifer, ADWR #55-584698	33° 21' 15" N	111° 55' 59" W	
Approved proposed direct injection well #2 (RW-2) to groundwater aquifer ¹	33° 21' 28" N	111° 56' 16" W	
Approved proposed direct injection well #3 (RW-3) to groundwater aquifer ²	33° 21' 22" N	111° 55' 57" W	

The site includes the following permitted discharging facilities:

¹ Located and designed, but not yet installed

² Located but not designed or installed



Future contingency/redundancy well (RW-4) ³ (Cadastral Location: D(1-4) 10bad)	33° 21' 40" N	111° 56' 15" W
Future contingency/redundancy well (RW-5) (Cadastral Location: D(1-4) 10acc)	TBD^4	TBD
Future contingency/redundancy well (RW-6) (Cadastral Location: D(1-4) 10dbd)	TBD	TBD
Future contingency/redundancy well (RW-7) (Cadastral Location: D(1-4) 10dca)	TBD	TBD
Future contingency/redundancy well (RW-8) (Cadastral Location: D(1-4) 10acd)	TBD	TBD

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 A.A.C. R18-14-104(A), Table 2. Send all correspondence requesting reduced fees to the Groundwater Protection & Reuse Section. 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 \$1,036,879.00. The financial capability was demonstrated through A.A.C. R18-9-A203(B)(1) and (2).

2.2. BEST AVAILABLE DEMONSTRATED CONTROL TECHNOLOGY (BADCT)

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

The WRP is designed 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).

2.2.1. Engineering Design

The WRP is designed to meet the treatment performance criteria for new facilities as specified in Arizona Administrative Code 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 WRP reactivation was designed as per the City of Tempe Kyrene Water Reclamation Facility Reactivation design report and design plans signed, dated, and sealed by Andrea M. Odegard-Begay, P.E #42632 with Hazen and Sawyer on 1/27/2025.

2.2.2. Site-Specific Characteristics

Site specific characteristics were not used to determine BADCT.

2.2.3. **Pre-Operational Requirements**

Not applicable.

³ The four future contingency/redundancy recharge wells are proposed in the event that one or more of the existing and/or proposed wells should fail or experience a significant reduction in capacity

⁴ TBD- To be determined, cadastral location provided however exact latitude and longitude is to be determined.



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 13: 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 4.2, Table 13: FACILITY INSPECTION AND OPERATIONAL MONITORING 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]

The treatment facility is rated as producing reclaimed water meeting the Class A+ Reclaimed Water Quality Standards (A.A.C. R18-11, Article 3) which may be used for any allowable Class A, B, or C use under a valid reclaimed water permit (A.A.C. R18-9, Article 7).

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 4.5 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, including treatment works and disposal works listed in Section 2.1.
- 4. Specific discharge limitations are listed in Section 4.2, Table 8: ROUTINE DISCHARGE MONITORING and Table 9: RECLAIMED WATER MONITORING CLASS A+.



2.4. POINT OF COMPLIANCE (POC)

[A.R.S. § 49-244]

Table 2: POINT(S) OF COMPLIANCE			
POC #	POC Location	Latitude (North)	Longitude (West)
POC # 1: WRP (hazardous) (Conceptual only)	Conceptual only	33° 21' 44" N	111° 56' 35" W
POC # 4: Well #COT-2 (hazardous)	Down gradient of direct injection well #1	33° 21' 11" N	111° 56' 04" W
POC # 5: Well # COT-3 (hazardous)	Down gradient of direct injection well #1 & #2	33° 21' 18" N	111° 56' 04" W
POC # 6: Well # COT-4 (non- hazardous)	Down gradient of direct injection well #2 & #3	33° 20' 58" N	111° 55' 58" W
POC # 9: Well # TBD	Down gradient of RW-2 – Cadastral location D(1-4)10bcd	TBD	TBD
POC # 10: Well # TBD	Down gradient of RW-4 – Cadastral location D(1-4)10abb	TBD	TBD
POC # 11: Well # TBD	Down gradient of RW-3 – Cadastral location D(1-4)10dab	TBD	TBD
POC # 12: Well # TBD	Down gradient of RW-2 and RW-3 – Cadastral location D(1-4)10acd	TBD	TBD

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

The depth to groundwater ranges 78 to 88-ft bgs, and varies seasonally by about 2 feet. The flow direction is towards the east at the KWRP. A mound appears at the Ken McDonald Golf Course (KMGC) with groundwater flow towards the south at the southern side of KMGC, westerly flow towards the western side, and an easterly flow on the eastern side.

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 immediately 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 8: 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

The permittee shall monitor the reclaimed water according to the Class A+ Reclaimed Water Monitoring Table in Section 4.2, Table 9: RECLAIMED WATER MONITORING – CLASS A+ in addition to the routine discharge monitoring parameters listed in Table 8: ROUTINE DISCHARGE MONITORING. Representative samples of the reclaimed water shall be collected at the point of discharge from the effluent pump station.

2.5.4. Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.2, Table 13: 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.

2.5.6. 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 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 the Groundwater Protection & Reuse Section 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

At least one copy of this permit and the approved contingency and emergency response plan [submitted in the application shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall be aware of and follow the contingency and emergency plans.

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, 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 plans 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 13: FACILITY INSPECTION AND OPERATIONAL MONITORING to prevent the overtopping of a tank, an impoundment or sludge drying bed. If a tank, an impoundment or sludge drying bed is overtopped, 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 13: FACILITY INSPECTION AND OPERATIONAL MONITORING has been exceeded the permittee shall:

1. Notify the Groundwater Protection & Reuse Section within five (5) days of becoming aware of the exceedance per Section 2.7.5.

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[·]



- 2. Submit a written report to the Groundwater Protection & Reuse Section 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.
- 3. 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 8: ROUTINE DISCHARGE MONITORING has been exceeded, the permittee shall immediately investigate to determine the cause. 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 approved contingency plan referenced in Section 5.0 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.
- 3. Within thirty (30) days of an AL exceedance, the permittee shall submit the laboratory results to the Groundwater Protection & Reuse Section 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, the Department 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 DISCHARGE MONITORING has been exceeded, the permittee shall submit an application to the Groundwater Protection & Reuse Section 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 for Monitoring Wells in Recharge Area, 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 Exceed		
Daily	Daily	
Weekly Daily		
Monthly	Weekly	
Quarterly	Monthly	
Semi-annually Quarterly		
Annually Quarterly		

In addition, the permittee shall immediately initiate an investigation of the cause of the AL exceedance, 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 approved contingency plan referenced in Section 5.0 and specific contingency measures identified in Section 2.6 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 the Groundwater Protection & Reuse Section, 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. 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 the Groundwater Protection & Reuse Section.
- 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 the Groundwater Protection & Reuse Section 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, the Department 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 for Monitoring Wells in Recharge Area 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 Groundwater Protection & Reuse Section 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

If the depth to Groundwater rises above 20 feet in monitor well COT-4 (AL in Table 12: Water Level Monitoring POC#6 (COT-4)) then the permittee shall: (1) notify the Department within five (5) days of the permittee becoming aware of any of the discharges resulting in the exceedance; and (2) cease all discharges to the recharge facility. If this occurs, the permittee may resume discharges to the recharge facility only when the depth to groundwater in monitor well COT-4 is equal to or greater than the Alert Level of 20 feet below land surface.

2.6.3. Discharge Limit Violation

- 1. If a DL set in Section 4.2, Table 8: ROUTINE DISCHARGE MONITORING or Table 9: RECLAIMED WATER MONITORING CLASS A+ has been violated, the permittee shall immediately investigate to determine the cause. 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 the Groundwater Protection & Reuse Section 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, the Department 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 through Table 12 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 Violatio		
Daily	Daily	
Weekly	Daily	
Monthly	Weekly	
Quarterly	Monthly	
Semi-annually	Quarterly	
Annually Quarterly		

In addition, the permittee shall immediately initiate an evaluation for the cause of the violation, 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 unexpected discharge.

The permittee also shall submit a report 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. 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 an ADEQ approved contingency plan, or separately approved according to Section 2.6.6.

- 4. Upon review of the submitted report, the Department 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.
- 6. If the department or the investigation concludes that discharges from the facility have caused an exceedance of an AQL, then within 60 days of becoming aware of an exceedance an AQL caused by a mounding problem or by direct injection, the permittee shall submit an updated site map with the following information:
 - a. Submit an up updated well inventory table and a map of all wells located within 1/2 mile of the recharge site.
 - b. Submit an updated model of the groundwater mounding caused by discharges from the facility at the recharge site.





- c. Submit an updated groundwater elevation map of any changes to the groundwater gradient as a result of discharges from the facility.
- d. Submit a report (and map, if necessary) on the adequacy of the locations of the Points of Compliance and recommendations for any changes to the POCs.

Note: The above map information may be incorporated in a single map, if possible.

7. If there is a mounding effect causing an exceedance at the POC#6 (COT-4) site, the facility shall reduce the flows to the 4.5 gpd discharge rates or cease flowing until the mounding effect is stopped. The facility shall transfer flows to one of the other 3 ways of discharging or to the SROG Pipelines as per their SROG Agreement #22699.

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

The permittee shall act immediately 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 the Groundwater Protection & Reuse Section 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 the Groundwater Protection & Reuse Section 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 the Groundwater Protection & Reuse Section 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. 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 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, the permittee shall obtain written approval from the Groundwater Protection & Reuse Section 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, the operator shall submit to the Groundwater Protection & Reuse Section 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 the Groundwater Protection & Reuse Section.
- 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 DISCHARGE MONITORING
 - b. Table 9: RECLAIMTED WATER MONITORING CLASS A+
 - c. Table 10: GROUNDWATER MONITORING For Monitoring Wells in Recharge Area
 - d. Table 11: GROUNDWATER MONITORING For Monitoring Wells in Recharge Area
 - e. Table 12: Water Level Monitoring POC#6 (COT-4)

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 immediately



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 a Grade 4 WWTP Operator in direct responsible charge shall perform the site visit daily to sign-in to comply with R18-5-104.

2.7.3. Permit Violation and Alert Level Status Reporting

- 1. The permittee shall notify the Groundwater Protection & Reuse Section per Section 2.7.5 within five (5) days (except as provided in Section 2.6.5) 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 the Groundwater Protection & Reuse Section 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 13: FACILITY INSPECTION AND OPERATIONAL MONITORING in the facility log book as per Section 2.7.2, and report to the Groundwater Protection & Reuse Section any violations or exceedances as per Section 2.7.3.

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 the ADEQ website at: <u>https://www.azdeq.gov/mydeq</u>. 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 the ADEQ 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 <u>APPContingencyreports@azdeq.gov</u> or the address listed below:

The Arizona Department of Environmental Quality Groundwater Protection & 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

The Groundwater Protection & Reuse Section 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 the Groundwater Protection & Reuse Section 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 the Groundwater Protection & Reuse Section 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. Immediately following ADEQ approval, the permittee shall 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 the Groundwater Protection & Reuse Section 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 the Groundwater Protection & Reuse Section 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 the Groundwater Protection & Reuse Section 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 closure plan achieves clean-closure immediately, ADEQ shall 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 the Groundwater Protection & Reuse Section 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.
- 5. 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 the Groundwater Protection & Reuse Section.

In the event clean-closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Groundwater Protection & Reuse Section 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 the Groundwater Protection & Reuse Section per Section 2.7.5.

	Table 7: COMPLIANCE SCHEDULE ITEMS			
No.	Description	Due By:	Permit Amendment Required?	
1.	The permittee shall submit an Other amendment application to the Department to get the approval of the well design and well location prior to installation of any of the 4 contingency/redundancy wells.	90 days prior to installation of any contingency/redundancy well	Yes	



4.0 TABLES OF MONITORING REQUIREMENTS

4.1. PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

Not applicable.



Table 8: ROUTINE DISCHARGE MONITORING							
Sampling Point Number	Sampling Point Identification		Latitude (North)		Longitude (West)		
1	Point of disc the disinfe		33° 21' 45"		111° 56' 35"		
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency		
Total Flow ⁵ : Daily ⁶	Not Established ⁷	Not Established	mgd ⁸	Daily	Quarterly		
Total Flow: Monthly Average ⁹	4.5	5.3	mgd	Monthly Calculation	Quarterly		
Recharge Project Total Flow: Daily	Not Established	Not Established	mgd	Daily	Quarterly		
Recharge Project Total Flow: Annual Average	2.85	3.0	mgd	Annual Calculation	Annual		
Reuse Flow: Daily	Not Established	Not Established	mgd	Daily	Quarterly		
Reuse Flow: Monthly Average	4.5	5.3	mgd	Monthly Calculation	Quarterly		
Flow to 91 st Ave: Daily	Not Established	Not Established	mgd	Daily	Quarterly		
Flow to 91 st Ave: Monthly Average	4.5	5.3	mgd	Monthly Calculation	Quarterly		
Fecal Coliform: Single sample maximum	Not Established	23	CFU ¹⁰	Daily ¹¹	Quarterly		
Fecal Coliform four (4) of seven (7) samples in a week ¹²	Not Established	Non- detect ¹³	CFU	Weekly Evaluation	Quarterly		
Total Nitrogen ¹⁴	8.0	10.0	mg/l	Daily ¹⁵	Quarterly		

4.2. COMPLIANCE OR OPERATIONAL MONITORING

⁵ Total flow for all methods of disposal (Reuse, Recharge, 91st Ave WWTP)

⁶ Total Daily Flow shall be measured using a continuous recording flow meter that totals the flows daily.

⁷ Not Established means that monitoring is required, but no limits have been specified at the time of permit issuance

 $^{^{8}}$ mgd = million gallons per day

⁹ Monthly Average means the calculated average of daily flow values in a month

 $^{^{10}}$ CFU = Coliform Forming Units per 100 ml. For CFU, a value of <1.0 shall be considered to be non-detect.

¹¹ 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

¹² 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

¹³ 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). If, of these seven days, four or more of the daily Fecal Coliform results are 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 "Noncompliance" for that week's entry on the SMRF

¹⁴Total Nitrogen equals Nitrate as N plus Nitrite as N plus Total Kjeldahl Nitrogen (TKN).

¹⁵ "Daily" means the maximum and minimum reading during the 24 hour period.



PERMIT NO. P-100405 LTF No. 100495 Place ID No. 888

pH	Not Established	6.0 - 9.0	No units	Daily ¹⁶	Quarterly
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		Metals (Di	issolved)		
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
Cyanide (as free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	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
Volatile a	and Semi-Vola	atile Organic	Compour	nds (VOCs and	SVOCs)
Benzene	0.004	0.005	mg/l	Semi- Annually	Semi-Annually
Carbon tetrachloride	0.004	0.005	mg/l	Semi- Annually	Semi-Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Semi- Annually	Semi-Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Semi- Annually	Semi-Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Semi- Annually	Semi-Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi- Annually	Semi-Annually
cis-1,2- Dichloroethylene	0.056	0.07	mg/l	Semi- Annually	Semi-Annually
trans-1,2- Dichloroethylene	0.08	0.1	mg/l	Semi- Annually	Semi-Annually
Dichloromethane	0.004	0.005	mg/l	Semi- Annually	Semi-Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Semi- Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi- Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi- Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi- Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi- Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi- Annually	Semi-Annually

¹⁶ Measured using a continuous recording pH-meter. "Daily" means the maximum and minimum reading during the 24 hour period. "Daily" sampling means all seven (7) days of the week.



Trihalomethanes (total) ¹⁷	0.08	0.1	mg/l	Semi- Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi- Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Semi- Annually	Semi-Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Semi- Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi- Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi- Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi- Annually	Semi-Annually
Polychlorinated Biphenols (PCBs)	Not Established	0.0005	mg/l	Semi- Annually	Semi-Annually
		Radionu	clides		
Gross Alpha (including Radium-226 but excluding Radon and Uranium)	12.0	15.0	pCi/l	Annually	Annually
Gross Beta	40.0	50.0	pCi/l	Annually	Annually
Radium 226 & Radium 228	4.0	5.0	pCi/l	Annually	Annually

¹⁷ Total Trihalomethanes (TTHMs) are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane

 $^{{}^{18}}$ pCi/L = Pico Curies per Liter.



Table 9: RECLAIMED WATER MONITORING – CLASS A+							
Reclaimed water monitoring under Table 9: RECLAIMED WATER MONITORING – CLASS A+ shall be performed in addition to routine discharge monitoring required under Section 4.2, Table 8: ROUTINE DISCHARGE MONITORING							
Sampling Point Number	Sampling Point Identification Latitude (North) Longitude (West)						
1	Description of Sampling Point location		32° 34' 20"	111° 20' 39"			
Parameter	Discharge Limit Units		Sampling Frequency	Reporting Frequency			
Fecal Coliform: Single sample maximum	23	CFU ¹⁹	Daily ²⁰	Quarterly			
Fecal Coliform: four (4) of seven (7) samples in a week ²¹	Non-detect ²²	CFU	Daily Evaluation	Quarterly			
Total Nitrogen ²³	10.0	mg/l ²⁴	Daily	Quarterly			
Turbidity ²⁵ : Single reading	5.0	NTU ²⁶	Daily ²⁷	Quarterly			
Turbidity: 24-hour average	2.0	NTU	Daily Calculation	Quarterly			
Enteric Virus ²⁸ : Four (4) of last seven (7) samples	Non-detect	MPN	Monthly / Suspended ²⁹	Quarterly			

 $^{^{19}}$ CFU = Coliform Forming Units per 100 ml. For CFU, a value of <1.0 shall be considered to be non-detect.

²⁰ 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 (4) samples in each seven-day period are obtained and analyzed.

²¹ 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

²² Non-detect requires entering "Compliance" or "Non-compliance" on the SMRF for each day of the reporting period. Evaluate the daily Fecal Coliform result along with the six (6) previous sample results. If four (4) or more of those results are non-detect, report "Compliance" for that day's entry on the SMRF. If four (4) or more of those results have detections of Fecal Coliform, report "Non-compliance" for that day's entry

²³Total Nitrogen equals Nitrate as N plus Nitrite as N plus Total Kjeldahl Nitrogen (TKN).

 $^{^{24}}$ Mg/l = milligrams per liter

²⁵ Turbidimeter shall be placed at a point in the wastewater treatment process after filtration and immediately before disinfection and shall have a signal averaging time not exceeding 120 seconds. All exceedances must be explained and submitted to the Department with the corresponding quarterly SMRF; occasional spikes due to back-flushing or instrument malfunction shall not be considered an exceedance

²⁶ NTU = Nephelometric Turbidity Units

²⁷ For the single turbidity reading, daily means the maximum reading during the 24-hour period.

²⁸ Initial monthly enteric virus sampling shall be performed to indicate four (4) out of seven (7) sample results of non-detect.

²⁹ Enteric virus sampling shall resume only when the discharge limit for the 24-hour average for turbidity is exceeded for two (2) consecutive 24-hour monitoring periods. Monthly enteric virus monitoring shall continue until four (4) out of seven (7) consecutive sample results show no detection. During times when enteric virus sampling is suspended, enter "suspended" in the appropriate space on the SMRF



Table 10: GR	Table 10: GROUNDWATER MONITORING for Monitoring Wells in Recharge Area						
Sampling Point Number	Sampling Point Identification		Latitude (North)	Longitude (West)			
3	POC # 4: M	onitor Well CC	DT-2 ³⁰	33° 21' 11" N	111° 56' 04" W		
4	POC # 5: Monitor Well COT-3 ³¹		33° 21' 18" N	111° 56' 04" W			
Parameter	Alert Level	Aquifer Quality Limit	Units	Sampling Frequency	Reporting Frequency		
Total Nitrogen ³² :	8.0	10.0	mg/l ³³	Monthly Calculation	Quarterly		
Nitrate-Nitrite as N	8.0	10.0	mg/l	Monthly Calculation	Quarterly		
Total Kjeldahl Nitrogen (TKN)	Not Established ³⁴	Not Established	mg/l	Monthly	Quarterly		
Total Coliform	Not Established	Non- detect ³⁵	CFU ³⁶	Monthly	Quarterly		
		Metals (D	issolved)				
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		
Cyanide (as free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly		
Fluoride	3.2	4.0	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		
Volati	le and Semi-Vo	latile Organic	: Compou	nds (VOCs and SV	/OCs)		
Benzene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually		
Carbon tetrachloride	0.004	0.005	mg/l	Semi-Annually	Semi-Annually		
o-Dichlorobenzene	0.48	0.6	mg/l	Semi-Annually	Semi-Annually		
para-Dichlorobenzene	0.06	0.075	mg/l	Semi-Annually	Semi-Annually		
1,2-Dichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually		
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi-Annually	Semi-Annually		
cis-1,2- Dichloroethylene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually		
trans-1,2- Dichloroethylene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually		
Dichloromethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually		

³⁰ Monitoring required at any time groundwater recharge occurs.

³¹ Monitoring required anytime direct injection wells 2 and 3 are used (see Section 2.1)
 ³² Total Nitrogen is the sum of Nitrate as N, Nitrite as N, and Total Kjeldahl Nitrogen (TKN)

 33 Mg/l = milligrams per liter

³⁴ Not Established means that monitoring is required, but no limits have been specified at the time of permit issuance ³⁵ For CFU, a value of <1.0 shall be considered to be non-detect. A positive result for total coliform may be verified with an analysis for fecal coliform. A positive result for fecal coliform shall be considered an exceedance for the AQL for total coliform.

 36 CFU = Coliform Forming Units per 100 ml.



1.2 Dishlararran	0.004	0.005		Comi Ammuolly	Sami Annually
1,2-Dichloropropane	0.00	0.000	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total) ³⁷	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi-Annually	Semi-Annually
Polychlorinated Biphenols (PCBs)	Not Established	0.0005	mg/l	Semi-Annually	Semi-Annually

³⁷ Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.



Table 11: GROUNDWATER MONITORING for Monitoring Wells in Recharge Area ³⁸						
Sampling Point Number	Sampling Point Identification		Latitude (North)	Longitude (West)		
5	POC # 6: Monitor Well COT-4 (Non- hazardous)		33° 20' 58" N	111° 55' 58" W		
Parameter	Alert Level	Aquifer Quality Limit	Units	Sampling Frequency	Reporting Frequency	
Total Nitrogen ³⁹ :	8.0	10.0	mg/l ⁴⁰	Monthly Calculation	Quarterly	
Nitrate-Nitrite as N	8.0	10.0	mg/l	Monthly Calculation	Quarterly	
Total Kjeldahl Nitrogen (TKN)	Not Established ⁴¹	Not Established	mg/l	Monthly	Quarterly	
Total Coliform	Not Applicable	Non-detect ⁴²	CFU ⁴³	Monthly	Quarterly	

³⁹ Total Nitrogen is the sum of Nitrate as N, Nitrite as N, and Total Kjeldahl Nitrogen (TKN)

³⁸ If verification sampling for any of the above parameters confirms that limits are exceeded, this well shall be sampled for all of the parameters shown in Table 10 until each parameter indicates non-exceedance of the AWQS.

 $^{^{40}}$ Mg/l = milligrams per liter

⁴¹ Not Established means that monitoring is required, but no limits have been specified at the time of permit issuance

 $^{^{42}}$ For CFU, a value of <1.0 shall be considered to be non-detect.

⁴³ CFU = Coliform Forming Unit per 100 ml

⁴⁴ Confirmation of fecal coliform as on table 11 note #35 For CFU, a value of <1.0 shall be considered to be nondetect. A positive result for total coliform may be verified with an analysis for fecal coliform. A positive result for fecal coliform shall be considered an exceedance for the AQL for total coliform



Table 12: Water Level Monitoring POC#6 (COT-4)							
Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)		
5	POC #6: Monitor Well COT-4 (Non- hazardous)			33° 20' 58" N	111° 55' 58" W		
Parameter	Alert Level	Aquifer Quality	Units	Sampling	Reporting		
		Limit	Units	Frequency	Frequency		

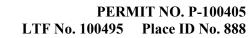




Table 13: FACILITY INSPECTION AND OPERATIONAL MONITORING							
The permittee shall record the inspection performance levels in a log book as per Section 2.7.2, and report any							
violations or exceedances a	violations or exceedances as per Section 2.7.3. In the case of an exceedance, identify which structure exceeds the						
	performance level in the log book.						
Pollution Control	Performance Level Inspection Reportin						
Structure/Parameter	r er for mance Level	Frequency	Frequency				
Pump Integrity	Good working condition	Weekly	See Section				
Treatment Plant Components	Good working condition	Weekly	2.7.3				



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 the Department:

APP Application, dated: 04/09/2024



[A.R.S. §§ 49-221 through 263]

6.0 NOTIFICATION PROVISIONS

6.1. Annual Registration Fees

The permittee is notified of the obligation to pay an Annual Registration Fee to ADEQ. The Annual Registration Fee is based on the amount of daily influent or discharge of pollutants in gallons per day (gpd) as established by A.R.S. § 49-242.

6.2. Duty to Comply

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.

6.3. Duty to Provide Information

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.

6.4. Compliance with Aquifer Water Quality Standards

[A.R.S. §§ 49-243(B)(2) and 49-243(B)(3)]

[A.R.S. §§ 49-243(K)(2) and 49-243(K)(8)]

The permittee shall not cause or contribute to a violation of an Aquifer Water Quality Standard (AWQS) at the applicable point of compliance (POC) 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 point of compliance for the facility, the water quality of any aquifer for that pollutant.

6.5. 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 in the permit application, 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.

6.6. 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.

6.7. Monitoring and Records

[A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A206]

The permittee shall conduct any monitoring activity necessary to assure compliance with this permit, with the applicable water quality standards established pursuant to A.R.S. §§ 49-221 and 49-223 and §§ 49-241 through 49-252.

Arizona Department of Environmental Quality



6.8. 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.

6.9. Duty to Modify

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

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices authorized by this permit.

6.10. 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 the Department. The permittee shall notify the Groundwater Protection & Reuse Section 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 the Department. 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).

7.4. Prohibited Agency Actions

[A.R.S. § 49-243(K)(8)]

This permit may not be transferred to any other person except after notice to and approval of the transfer by the Department. 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).