

STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-105478
PLACE ID 21739, LTF 81873
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 City of Lake Havasu to operate the North Regional Wastewater Treatment Plant, located at 7001 Whelan Drive, Lake Havasu City, Arizona, in Mohave County, over groundwater of the Lake Havasu Basin in Township 14 N, Range 20 W, Section 15, N½, of the Gila and Salt River Baseline and Meridian.

This permit becomes effective on the date of the Water Quality Division 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: North Regional Wastewater Treatment Plant
Facility Address: 7001 Whelan Drive
Lake Havasu City, Arizona 86406

County: Mohave

Permitted Flow Rate: 3,500,000 gallons per day (gpd)

Permittee: Lake Havasu City
Permittee Address: 1150 McCulloch Boulevard North
Lake Havasu City, Arizona 86403

Facility Contact: Thilak Fernando, Wastewater Division Manager
Emergency Phone No.: (928) 855-3999

Latitude/Longitude: 34° 33' 25" N/ 114° 20' 20" W
Legal Description: Township 14 N, Range 20 W, Section 15, N½, Gila and Salt River Baseline and Meridian

1.2. AUTHORIZING SIGNATURE

Trevor Baggio, Director

Water Quality Division

Arizona Department of Environmental Quality

Signed this _____ day of _____, 20_____

THIS AMENDED PERMIT SUPERCEDES ALL PREVIOUS PERMITS

TABLE OF CONTENTS

1.0 AUTHORIZATION 1

1.1. PERMITTEE INFORMATION 1

1.2. AUTHORIZING SIGNATURE 1

2.0 SPECIFIC CONDITIONS..... 4

2.1. FACILITY / SITE DESCRIPTION 4

2.1.1. Annual Registration Fee 6

2.1.2. Financial Capability..... 6

2.2. BEST AVAILABLE DEMONSTRATED CONTROL TECHNOLOGY (BADCT) 6

2.2.1. Engineering Design 6

2.2.2. Site-Specific Characteristics 6

2.2.3. Pre-Operational Requirements..... 6

2.2.4. Operational Requirements 7

2.2.5. Reclaimed Water Classification 7

2.2.6. Certified Areawide Water Quality Management Plan Conformance 7

2.3. DISCHARGE LIMITATIONS 7

2.4. POINT OF COMPLIANCE (POC)..... 8

2.5. MONITORING REQUIREMENTS 8

2.5.1. Routine Discharge Monitoring 8

2.5.2. Reclaimed Water Monitoring 8

2.5.3. Facility / Operational Monitoring 9

2.5.4. Vadose Zone Monitoring..... 9

2.5.5. Groundwater Monitoring And Sampling Protocols..... 9

2.5.5.1. *POC Well Replacement* 9

2.5.6. Surface Water Monitoring And Sampling Protocols 9

2.5.7. Analytical Methodology 10

2.5.8. Installation And Maintenance Of Monitoring Equipment 10

2.6. CONTINGENCY PLAN REQUIREMENTS 10

2.6.1. General Contingency Plan Requirements 10

2.6.1.1. *Vadose Zone Monitoring and Injection Contingencies* 11

2.6.1.2. *POC Monitoring Wells* 11

2.6.2. Exceeding Of Alert Levels And Performance Levels 11

2.6.2.1. *Exceeding Of Performance Levels Set For Operational Conditions* 11

2.6.2.2. *Exceeding Of Alert Levels (ALs) Set For Discharge Monitoring*..... 12

2.6.2.2.1. Exceeding Permit Flow Limit 12

2.6.2.3. *Exceeding Of Alert Levels In Groundwater Monitoring* 13

2.6.2.3.1. Alert Levels For Indicator Parameters 13

2.6.2.3.2. Alert Levels For Pollutants With Numeric Aquifer Water Quality Standards..... 13

2.6.2.3.3. Alert Levels To Protect Downgradient Users From Pollutants Without Numeric Aquifer Water Quality Standards 14

2.6.2.3.4. Alert Level For Groundwater Level 14

2.6.3. Discharge Limit Violation 15

2.6.4. Aquifer Quality Limit Exceedances 16

2.6.5. Emergency Response And Contingency Requirements For Unauthorized Discharges 16

2.6.5.1. *Duty To Respond* 16

2.6.5.2. *Discharge Of Hazardous Substances Or Toxic Pollutants* 17

2.6.5.3. *Discharge Of Non-Hazardous Materials* 17

2.6.5.4. *Reporting Requirements* 17

2.6.6. Corrective Actions 17

2.7. REPORTING AND RECORDKEEPING REQUIREMENTS 18

2.7.1. Self-Monitoring Report Form..... 18

- 2.7.2. Operation Inspection / Log Book Recordkeeping 18
- 2.7.3. Permit Violation And Alert Level Status Reporting..... 19
- 2.7.4. Operational, Other Or Miscellaneous Reporting 19
- 2.7.5. Reporting Location 19
- 2.7.6. Reporting Deadline 20
- 2.7.7. Changes To Facility Information In Section 1.0 20
- 2.8. TEMPORARY CESSATION 20
- 2.9. CLOSURE..... 20
 - 2.9.1. Closure Plan..... 21
 - 2.9.2. Closure Completion 21
- 2.10. POST-CLOSURE..... 21
 - 2.10.1. Post-Closure Plan..... 21
 - 2.10.2. Post-Closure Completion..... 21
- 3.0 COMPLIANCE SCHEDULE 22**
- 4.0 TABLES OF MONITORING REQUIREMENTS 24**
 - 4.1. PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS) 24
 - 4.2. COMPLIANCE OR OPERATIONAL MONITORING 24
- 5.0 REFERENCES AND PERTINENT INFORMATION 31**
- 6.0 NOTIFICATION PROVISIONS 31**
 - 6.1. ANNUAL REGISTRATION FEES 31
 - 6.2. DUTY TO COMPLY 31
 - 6.3. DUTY TO PROVIDE INFORMATION 31
 - 6.4. COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS 31
 - 6.5. TECHNICAL AND FINANCIAL CAPABILITY 32
 - 6.6. REPORTING OF BANKRUPTCY OR ENVIRONMENTAL ENFORCEMENT 32
 - 6.7. MONITORING AND RECORDS 32
 - 6.8. INSPECTION AND ENTRY 32
 - 6.9. DUTY TO MODIFY 32
 - 6.10. PERMIT ACTION: AMENDMENT, TRANSFER, SUSPENSION, AND REVOCATION 32
- 7.0 ADDITIONAL PERMIT CONDITIONS 32**
 - 7.1. OTHER INFORMATION..... 32
 - 7.2. SEVERABILITY 33
 - 7.3. PERMIT TRANSFER 33

TABLE OF TABLES

- TABLE 1: DISCHARGING FACILITIES..... 5
- TABLE 2: POINT(S) OF COMPLIANCE..... 8
- TABLE 3: ACCELERATED MONITORING - ALERT LEVEL EXCEEDANCE 13
- TABLE 4: ACCELERATED MONITORING - AQUIFER QUALITY LIMIT VIOLATION 16
- TABLE 5: QUARTERLY REPORTING DEADLINES 20
- TABLE 6: (SEMI-)ANNUAL REPORTING DEADLINES 20
- TABLE 7: COMPLIANCE SCHEDULE ITEMS..... 22
- TABLE 8: ROUTINE DISCHARGE MONITORING 24
- TABLE 9: VADOSE ZONE INJECTION WELL MONITORING..... 26
- TABLE 10: RECLAIMED WATER MONITORING – CLASS A+ 27
- TABLE 11: GROUNDWATER MONITORING 28
- TABLE 12: 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)]

The permittee is authorized to operate the North Regional Wastewater Treatment Plant (WWTP) with a design flow of 3.5 million gallons per day (mgd). The WWTP process consists of a headworks with influent screens, an equalization basin, aeration basins, membrane filtration basins, an ultraviolet (UV) disinfection system, and a sludge holding tank. The facility provides chemical feed treatment, when necessary, to meet the turbidity standards for Class A+ reclaimed water for beneficial purposes according to the Lake Havasu City Class A+ Reclaimed Water Agent Permit (Permit # R-101612) in accordance with A.A.C. R18-11-3.

Effluent from North Regional WWTP may be beneficially reused under a valid reclaimed water permit, or recharged to groundwater at one or more recharge facilities connected through the Lake Havasu City Recharge System. Permitted recharge facilities served by the Lake Havasu City Recharge System are located at the Mulberry WWTP (recharge wells permitted in APP No. P-101612), the Island WWTP (recharge basins permitted in APP No. P-101611), the North Regional WWTP (recharge wells permitted in APP No. P-105478) and the South Well Field Recharge Site (APP No. P-105653). All of the WWTPs connected to the Lake Havasu City Recharge System meet the Best Available Demonstrated Control Technology (BADCT) requirements for new facilities. All sludge, including screenings, grit and scum, shall be hauled off-site for disposal in accordance with State and Federal regulations.

Regardless of the source, recharge in the vadose zone wells at the North Regional WWTP is restricted to 3.5 mgd of effluent. Recharge through the vadose zone wells at the North Regional WWTP may also be restricted by a contingency action as per Section 2.6.1.2.

Recharge at the North Regional WWTP site is typically carried out from October 1 to April 30, but is not restricted to this time period. During the months of May through September, groundwater may be pumped from this area to provide water for Lake Havasu City, primarily for irrigation.

Depth to groundwater at North Regional WWTP varies from approximately 333 to 450 feet below ground surface (bgs), and the direction of groundwater flow is toward the west-southwest.

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

This permit amendment is to:

- Change Total Coliform to E.Coli (MPN units) in the Groundwater Monitoring Tables.
- Set AQLs to Not Established for Fluoride in the Groundwater Monitoring Tables due to no record of exceedances of Fluoride in the Discharge Monitoring and because of a history of elevated naturally occurring Fluoride levels in groundwater for the life of the Facility.
- Reduce the frequency from Semi-Annual to Annual of sampling for Hexachlorobenzene and Hexachlorocyclopentadiene in the Groundwater Monitoring Tables. Additionally, reduce the sampling frequency of VOC's and SVOC's from Semi-Annual to Annual in the Groundwater Monitoring Tables. Lake Havasu City North Regional WWTP has not had any record of exceedances in their groundwater monitoring for VOC's and SVOC's and will continue to monitor VOC's and SVOC's in their Discharge Monitoring at a semi-annual frequency.

The site includes the following permitted discharging facilities:

Table 1: DISCHARGING FACILITIES				
Facility	Latitude	Longitude	ADWR Registration Number	Screened Interval (feet bgs)
North Regional WWTP	34° 33' 28" N	114° 20' 21" W	N/A ¹	N/A
Groundwater Conduit Wells²				
NP-7	34° 33' 23" N	114° 20' 22" W	55-217497	335-435
NP-8	34° 33' 21" N	114° 20' 27" W	55-217495	375-475
NP-9	34° 33' 19" N	114° 20' 21" W	55-217496	375-475
Installed Vadose Zone Injection Wells³				
Facility	Latitude	Longitude	ADWR Registration Number	Screened Interval (feet bgs)
VW-1	34° 33' 22.10" N	114° 20' 14.30" W	55-215758	61-179
VW-2	34° 33' 23.63" N	114° 20' 23.38" W	55-217792	79-177
VW-4	34° 33' 22.59" N	114° 20' 24.52" W	55-217791	79-177
VW-5	34° 33' 21" N	114° 20' 20" W	55-222579	79-179
VW-7	34° 33' 23" N	114° 20' 18" W	55-224756	79-179
Approved Vadose Zone Injection Wells⁴				
VW-6	34° 33' 23" N	114° 20' 21" W	N/A	N/A
VW-8	34° 33' 21" N	114° 20' 21" W	N/A	N/A
VW-9	34° 33' 22" N	114° 20' 21" W	N/A	N/A
VW-10	34° 33' 24" N	114° 20' 20" W	N/A	N/A
VW-11	34° 33' 24" N	114° 20' 24" W	N/A	N/A
VW-12	34° 33' 23" N	114° 20' 16" W	N/A	N/A
VW-13	34° 33' 24" N	114° 20' 26" W	N/A	N/A
VW-14	34° 33' 20" N	114° 20' 20" W	N/A	N/A
VW-15	34° 33' 20" N	114° 20' 22" W	N/A	N/A
VW-16	34° 33' 20" N	114° 20' 27" W	N/A	N/A
Contingency Vadose Zone Injection Wells⁵				
VW-17	34° 33' 24" N	114° 20' 22" W	N/A	N/A
VW-18	34° 33' 25" N	114° 20' 26" W	N/A	N/A
VW-19	34° 33' 22" N	114° 20' 22" W	N/A	N/A
VW-20	34° 33' 20" N	114° 20' 23" W	N/A	N/A
VW-21	34° 33' 24" N	114° 20' 16" W	N/A	N/A
VW-22	34° 33' 20" N	114° 20' 18" W	N/A	N/A
VW-23	34° 33' 20" N	114° 20' 20" W	N/A	N/A
VW-24	34° 33' 22" N	114° 20' 22" W	N/A	N/A
VW-25	34° 33' 24" N	114° 20' 18" W	N/A	N/A
VW-26	34° 33' 26" N	114° 20' 27" W	N/A	N/A
VW-27	34° 33' 27" N	114° 20' 29" W	N/A	N/A

¹ N/A = Not Applicable.

² Groundwater Conduit Wells listed in this permit consist of wells constructed with gravel packing from 25 feet bgs to the bottom of each well (no monitoring required under this permit).

³ Installed Vadose Zone Injection Wells consist of the existing vadose zone wells at this site, which inject effluent under pressure into the vadose zone.

⁴ Approved Vadose Zone Injection Wells consist of vadose zone wells approved for installation. The total recharge volume of these wells is restricted to 3.5 mgd. These wells are part of the Lake Havasu City Recharge System.

⁵ Contingency Vadose Zone Injection Wells consist of wells approved for installation as replacement wells and/or to increase recharge in this well field up to 3.5 mgd.

VW-28	34° 33' 29" N	114° 20' 30" W	N/A	N/A
VW-29	34° 33' 30" N	114° 20' 30" W	N/A	N/A
VW-30	34° 33' 31" N	114° 20' 31" W	N/A	N/A
VW-31	34° 33' 31" N	114° 20' 29" W	N/A	N/A
VW-32	34° 33' 30" N	114° 20' 28" W	N/A	N/A

Injection Well Design

The Approved and Contingency vadose zone injection wells shall be constructed as 48 inch diameter wells, with 12 inch diameter casings. Each well shall extend no deeper than 180 feet bgs, and the screened interval shall extend from approximately 80 feet bgs to the bottom of the well.

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 Value Stream. 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 \$1,206,000.00. The financial capability was demonstrated through a letter from the chief financial officer and a statement specifying the details of the financial arrangements used to meet the estimated closure and post-closure costs as per 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 treatment facility shall be designed, constructed, operated, and maintained to meet the treatment performance criteria for new facilities as specified in A.A.C. R18-9-B204. The facility shall meet the performance requirement for industrial pre-treatment as per A.A.C. R18-9-B204(B)(6)(b).

2.2.1. Engineering Design

The WWTP was designed as per the design report prepared, dated and signed (sealed) by Uday K. Gandhe, Professional Engineer, of Wilson and Company, Inc., on April 29, 2004. The recharge wells and monitor wells shall be designed and constructed as per the report prepared by HydroSystems, Inc., and in subsequent submittals that were submitted as additions to the design report.

2.2.2. Site-Specific Characteristics

Not applicable.

2.2.3. Pre-Operational Requirements

Prior to initiating use of each Approved or Contingency Vadose Zone Injection Well, the permittee shall inspect the well to verify that all components function as designed. Within 60 days following completion of construction of each well, the permittee shall provide written certification that all components were inspected, and the results of the inspection, to the ADEQ Water Permits Section and the ADEQ Water Quality Compliance Section.

2.2.4. Operational Requirements

1. The permittee shall maintain a copy of the up-to-date operations and maintenance manual at the treatment facility site at all times; the manual shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.2, Table 12: FACILITY INSPECTION AND OPERATIONAL MONITORING
3. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented in the facility log book as per Section 2.7.2 and reported to ADEQ in the event of a violation or exceedance as 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) (R-100310).

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 a maximum average monthly flow of 3.5 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 liner failure⁶, uncontrollable leakage, overtopping (e.g., exceeding the maximum storage capacity, defined as a fluid level exceeding the crest elevation of a permitted impoundment), of basins, lagoons, impoundments or sludge drying beds, berm breaches, accidental spills, or other unauthorized discharges.
4. Specific discharge limitations are listed in Section 4.2, Table 8: ROUTINE DISCHARGE MONITORING.
5. Regardless of the source, recharge in the vadose zone wells at the North Regional WWTP is restricted to 3.5 mgd of effluent.

⁶Liner failure in a single-lined impoundment is any condition that would result in leakage exceeding 550 gallons per day per acre.

2.4. POINT OF COMPLIANCE (POC)

[A.R.S. § 49-244]

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

Table 2: POINT(S) OF COMPLIANCE						
POC No.	Well Name	POC Location	ADWR Registration No.	Latitude	Longitude	Well Purpose
1	NP-1	Approximately 1,016 feet northwest of Vadose Zone Injection Well VW-2	55-597190	34° 33' 32.4" N	114° 20' 30.2" N	Hazardous/Non-Hazardous POC
2	NP-2a	Approximately 1,066 feet west-southwest of Vadose Zone Injection Well VW-4	55-221262	34° 33' 21.1" N	114° 20' 37.2" N	Hazardous/Non-Hazardous POC
3	NP-3	Approximately 601 feet northwest of Vadose Zone Injection Well VW-2	55-904049	34° 33' 27.9" N	114° 20' 9.7" N	Hazardous/Non-Hazardous POC
4	NP-12	Approximately 814 feet south-southeast of POC Well NP-2	55-913900	34° 33' 13.9" N	114° 20' 32.6" N	Non-Hazardous POC
5	NP-13	Approximately 955 feet southwest of POC Well NP-2	55-913901	34° 33' 13.7" N	114° 20' 43.6" N	Non-Hazardous POC

Groundwater monitoring is required at the POC wells as per Section 4.2, Table 11: GROUNDWATER MONITORING. 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. 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 UV disinfection channel.

2.5.2. Reclaimed Water Monitoring

The permittee shall monitor the reclaimed water according to the Class A+ Reclaimed Water Monitoring Table in Section 4.2, Table 10: RECLAIMED WATER MONITORING 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 from the UV disinfection channel.

2.5.3. Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.2, Table 12: FACILITY INSPECTION AND OPERATIONAL MONITORING. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented in the facility log book as per Section 2.7.2 and reported to ADEQ in case of a violation or exceedance as per Section 2.7.3.

2.5.4. Vadose Zone Monitoring

Vadose Zone Monitoring shall be conducted according to Section 4.2, Table 9: VADOSE ZONE INJECTION WELL MONITORING.

2.5.5. Groundwater Monitoring And Sampling Protocols

POC well monitoring shall be conducted under Section 4.2, Table 11: GROUNDWATER MONITORING. 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 the low-flow purging method as described in the Arizona Water Resources Research Center, March 1995 *Field Manual for Water Quality Sampling*. 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 shall 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. 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 Value Stream 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 and R18-9-A205]

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.

2.6.1.1. Vadose Zone Monitoring and Injection Contingencies

1. If water levels within one or more vadose zone injection wells rise to a level higher than 25 feet bgs, and that level persists for at least two (2) weeks, then injection operations within the affected well(s) shall cease. Each time the water persists at a level higher than 25 feet bgs for at least two (2) weeks, the permittee shall report the occurrence to the Groundwater Protection Value Stream and the ADEQ Groundwater Protection Value Stream (see Section 2.7.5).
2. A well in which the water level has risen higher than 25 feet bgs for at least two (2) weeks may be rehabilitated prior to being placed back in service. The permittee shall provide a rehabilitation report to the ADEQ Groundwater Protection Value Stream each time a well is rehabilitated, including flow data, methods of rehabilitation, the quantity and quality of any chemicals involved in rehabilitation, a description of the actions and repeat actions taken, and the period of time required to complete the rehabilitation. ADEQ approval of the rehabilitation report is not required before the well is placed back in service. After the well has been placed back in service, the permittee shall provide a report describing the percolation capacity of the rehabilitated well, the new water levels involved, and an estimation of the remaining lifespan of the well.
3. Once water levels return to at least 25 feet bgs, and/or after rehabilitation procedures have been completed, injection may resume within the affected well(s). However, if water levels return to levels higher than 25 feet bgs within 30 days after the last rehabilitation attempt, injection operations within the affected wells shall immediately cease, and the permittee shall submit a clean closure application to the Groundwater Protection Value Stream, and submit a Notice of Abandonment to ADWR.

2.6.1.2. POC Monitoring Wells

If water levels in the POC wells rise to the Depth to Groundwater Alert Levels for 100 Foot Water Rise established in Section 4.2, Table 11: GROUNDWATER MONITORING and remain at or higher than the ALs for at least 90 days after the typical recharge season (October 1 through April 30), then by September 1 of that year the permittee shall submit an APP amendment application with a work plan, including locations and construction details, to propose POCs farther downgradient of the injection site. The purpose of this requirement is to ensure that rising water levels do not adversely impact groundwater users downgradient of the facility.

2.6.2. Exceeding Of Alert Levels And Performance Levels

2.6.2.1. Exceeding Of Performance Levels Set For Operational Conditions

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

1. Notify the Groundwater Protection Value Stream within five (5) days of becoming aware of the exceedance.
2. Submit a written report to the Groundwater Protection Value Stream within 30 days after becoming aware of the exceedance. 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 days of an AL exceedance, the permittee shall submit the laboratory results to the Groundwater Protection Value Stream 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

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 Value Stream for a permit amendment to expand the treatment facility, or submit a report detailing the reasons an expansion is not necessary. Acceptance of the report instead of an application for amendment 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 11: GROUNDWATER MONITORING, the permittee may conduct verification sampling for those pollutant(s) that exceeded their respective AL(s) within five (5) days of becoming aware of the exceedance. The permittee may use results of another sample taken between the date of the last sampling event and the date of receiving the result as verification.
2. If verification sampling confirms the AL exceedance or if the permittee opts not to perform verification sampling, then the permittee shall increase the frequency of monitoring for each pollutant exceeding its' respective AL(s) as follows:

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

In addition, the permittee shall 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 Value Stream, 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 Value Stream.
4. Within 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 Value Stream 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 11: GROUNDWATER MONITORING if the results of four sequential sampling events of those pollutants demonstrate that they did not exceed the AL.

7. If the increased monitoring required as a result of an AL exceedance continues for more than six (6) sequential sampling events, the permittee shall submit to ADEQ a second report documenting an investigation of each pollutant which continued to exceed an AL. This report is due within 30 days of the receipt of laboratory results of the sixth sampling event.

2.6.2.3.3. Alert Levels To Protect Downgradient Users From Pollutants Without Numeric Aquifer Water Quality Standards

Not required at time of issuance.

2.6.2.3.4. Alert Level For Groundwater Level

1. If monitoring indicates the groundwater level is not within the allowable range established by the Alert Level (AL) in Section 4.2, Table 11: GROUNDWATER MONITORING, the permittee shall submit a written report to the Groundwater Protection Value Stream within 30 days after becoming aware of the exceedance. The report shall document the following:
 - a. the as-built configuration of the well including the screened interval;
 - b. all groundwater level measurements available for the well;
 - c. a discussion and analysis of any trends or seasonal variations in the groundwater level measurements;
 - d. information on groundwater recharge, withdrawal, or other hydrologic conditions in the vicinity of the well, and;
 - e. any other pertinent information obtained by the permittee.
2. If monitoring indicates the groundwater level is not within the allowable range established by the Alert Level (AL) in Section 4.2, Table 11: GROUNDWATER MONITORING for more than three (3) sequential sampling events, the permittee shall submit a second report which evaluates the cause(s) of the exceedance and recommends whether the well should be replaced pursuant to Section 2.5.5.1. The report shall discuss and demonstrate whether samples representative of the water quality of the relevant aquifer can be practicably obtained from the well.
3. Upon review of the submitted report, the Department may amend the permit to require replacement of the well, require additional permit conditions, or other actions.
4. The injection season is established as being primarily from October 1 to April 30 of each year, when recharge usually occurs. The remainder of the year is established as being primarily the irrigation season.

2.6.3. Discharge Limit Violation

1. If a DL set in Section 4.2, Table 8: ROUTINE DISCHARGE MONITORING or Table 10: RECLAIMED WATER MONITORING 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 Value Stream 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 Exceedances

1. If an AQL set in Section 4.2, Table 11: GROUNDWATER MONITORING has been exceeded, the permittee may conduct verification sampling for those pollutant(s) that were above their respective AQL(s) within five (5) days of becoming aware of the exceedance. The permittee may use results of another sample taken between the date of the last sampling event and the date of receiving the result as verification.
2. If verification sampling does not confirm an AQL exceedance, no further action is needed under this Section.
3. If verification sampling confirms that an AQL was exceeded for any parameter or if the permittee opts not to perform verification sampling, then, the permittee shall increase the frequency of monitoring for those parameters as follows:

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

2.6.5. Emergency Response And Contingency Requirements For Unauthorized Discharges

[A.R.S. § 49-201(12) AND PURSUANT TO A.R.S. § 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 Value Stream 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 Value Stream within 24 hours of discovering the discharge of non-hazardous material which has the potential to cause an AQL 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 Value Stream within 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 Value Stream prior to implementing a corrective action to accomplish any of the following goals in response to exceedance of an AL, AQL, DL, or other 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 30 days of completion of any corrective action, the operator shall submit to the Groundwater Protection Value Stream, 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) and A.A.C. 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. 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 Value Stream.
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: VADOSE ZONE INJECTION WELL MONITORING
 - c. Table 10: RECLAIMED WATER MONITORING
 - d. Table 11: GROUNDWATER MONITORING
4. In addition to the SMRF, the information contained in A.A.C. R18-9-A206(B)(1) shall be included for exceeding an AL or violation of an AQL, DL or any other permit condition being reported in the current reporting period.
 - a. Table 12: FACILITY INSPECTION AND OPERATIONAL MONITORING

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

2.7.2. Operation Inspection / Log Book Recordkeeping

A signed copy of this permit shall be maintained at all times at the location where day-to-day decisions regarding the operation of the facility are made. A log book (paper copies, forms, or electronic data) of the inspections and measurements required by this permit shall be maintained at the location where day-to-day decisions are made regarding the operation of the facility. The log book shall be retained for ten years from the date of each inspection, and upon request, the permit and the log book shall be made 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).

2.7.3. Permit Violation And Alert Level Status Reporting

1. The permittee shall notify the Groundwater Protection Value Stream 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 Value Stream within 30 days of becoming aware of the violation of any permit condition, AQL, or DL. The report shall document all of the following:
 - a. Identification and description of the permit condition for which there has been a violation and a description of the cause;
 - b. The period of violation including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;
 - c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;
 - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS;
 - e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring; and
 - f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

2.7.4. Operational, Other Or Miscellaneous Reporting

The permittee shall record the information as required in Section 4.2, Table 12: FACILITY INSPECTION AND OPERATIONAL MONITORING in the facility log book as per Section 2.7.2, and report to the Groundwater Protection Value Stream 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: <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 Value Stream
Mail Code 5415B-3
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4571

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

The Groundwater Protection Value Stream shall be notified within ten days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person, 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 Value Stream 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 Value Stream 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 Value Stream 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 Value Stream 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 Value Stream, 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 Value Stream 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(30) and Title 49, Chapter 2, Article 3;
4. Further action is necessary to meet property use restrictions.
5. SMRF submittals are still 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 Value Stream.

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 Value Stream 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 Value Stream.

Table 7: COMPLIANCE SCHEDULE ITEMS			
No.	Description	Due By:	Permit Amendment Required?
Vadose Zone Injection Well Installation			
1	The permittee shall construct the Approved Vadose Zone Wells as needed. After construction of each well, the permittee shall submit a report that includes latitude and longitude, ADWR 55-Series registration number, well construction details, and initial depth to water. If multiple wells are installed, then a single construction report may be submitted containing information on multiple wells.	Each construction report shall be submitted within 90 days after completion of well construction.	No
Annual Groundwater Monitoring Report			
2	The permittee shall submit an annual groundwater monitoring report that will provide monthly groundwater contour maps, all analytical data, evaluation of anions and cations via Piper tri-linear diagrams and Stiff diagrams, hydrographs, a well survey based on ADWR records to discover any new wells that have been installed within the DIA, an evaluation of the appropriateness of the POC locations and whether new POCs are needed, and an evaluation of the actual water levels versus modeled water levels to determine the accuracy of the groundwater flow model and its predictions. The annual groundwater report shall evaluate the amount of water level rise during the year.	Within 360 days after the date of permit issuance, and annually thereafter.	No
3	If water levels rise 100 feet in the POC wells, and the elevated water levels persist for 90 days after the end of the typical recharge season (October 1 to April 30), then as per Section 2.6.1.3, the permittee shall submit an APP amendment application with a work plan that proposes locations and construction details for one or more new POCs further downgradient of the injection site.	If high water levels persist during a given year, then the APP amendment application shall be submitted by September 1 of that year.	Yes

Table 7: COMPLIANCE SCHEDULE ITEMS

Rehabilitation of Vadose Zone Wells			
4	<p>Vadose zone wells may be rehabilitated prior to being placed back into service. As per Section 2.6.1.2, the permittee shall provide a rehabilitation report to the ADEQ Water Quality Compliance Section, Data Unit, and the ADEQ Water Permits Section each time a well is rehabilitated, including flow data, methods of rehabilitation, the quantity and quality of any chemicals involved in rehabilitation, a description of the actions and repeat actions taken, and the period of time required to complete the rehabilitation. ADEQ approval of the rehabilitation report is not required before the well is placed back in service.</p>	<p>Within 30 days after completion of well rehabilitation.</p>	<p>No</p>
5	<p>As per Section 2.6.1.2, the permittee shall submit a report describing the percolation capacity of a rehabilitated well, the new water levels involved, and an estimation of the remaining lifespan of the well.</p>	<p>Within 60 days after completion of well rehabilitation.</p>	<p>No</p>

4.0 TABLES OF MONITORING REQUIREMENTS

4.1. PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

Not applicable.

4.2. COMPLIANCE OR OPERATIONAL MONITORING

Table 8: ROUTINE DISCHARGE MONITORING					
Sampling Point Number	Sampling Point Identification		Latitude (North)		Longitude (West)
1	Point of discharge from the end of the UV disinfection unit		32° 41' 05"		114° 27' 26"
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Total Flow ⁷ : Daily ⁸	Not Established ⁹	Not Established	mgd ¹⁰	Daily	Quarterly
Total Flow: Monthly Average ¹¹	3.25	3.5	mgd	Monthly Calculation	Quarterly
Reuse Flow: Daily	Not Established	Not Established	mgd	Daily	Quarterly
Reuse Flow: Monthly Average	3.25	3.5	mgd	Monthly Calculation	Quarterly
Recharge Flow: Daily	Not Established	Not Established	mgd	Daily	Quarterly
Recharge Flow: Monthly Average	3.25	3.5	mgd	Monthly Calculation	Quarterly
E.coli: Single sample maximum	Not Established	23.0	MPN ¹²	Daily	Quarterly
E.coli: four (4) of seven (7) samples in a week ¹³	Not Established	Non-detect ¹⁴	MPN	Weekly Evaluation	Quarterly
Total Nitrogen ¹⁵ :Five-sample rolling geometric mean ¹⁶	8.0	10.0	mg/l ¹⁷	Monthly Calculation	Quarterly

⁷ Total flow for all methods of disposal (reuse and recharge)

⁸ Total Daily Flow shall be measured using a continuous recording flow meter that totals the flows daily.

⁹ Not Established means that monitoring is required, but no limits have been specified at the time of permit issuance

¹⁰ mgd = million gallons per day

¹¹ Monthly Average means the calculated average of daily flow values in a month

¹² MPN = Most Probable Number / 100 ml sample. For MPN, a value of <2.2 shall be considered to be non-detect

¹³ 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

¹⁴ For MPN, a value of <2.2 shall be considered to be non-detect

¹⁵ Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen

¹⁶ The five-sample rolling geometric mean is determined by multiplying the five (5) most recent monthly sample values together then taking the fifth root of the product. *Example: $GM_5 = \sqrt[5]{(m_1)(m_2)(m_3)(m_4)(m_5)}$*

¹⁷ mg/l = milligrams per liter

Table 8: ROUTINE DISCHARGE MONITORING

Metals (Dissolved)					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.60	2.00	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
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 and Semi-Volatile Organic Compounds (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
Hexachlorobenzene	0.0008	0.001	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.04	0.05	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
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

Table 9: VADOSE ZONE INJECTION WELL MONITORING					
Parameter	AL ¹⁸	Units	Sampling Frequency	Reporting Frequency	
Depth to Groundwater ¹⁹	25	Feet bgs ²⁰	Monthly	Quarterly	
Recharge Flow: Daily ²¹	NE	mgd	Daily	Quarterly	
Recharge Flow: Monthly Average	3.5	mgd	Monthly Calculation	Quarterly	
Vadose Zone Injection Well Monitoring Points					
Sampling Point Number	Well Name	Latitude (North)	Longitude (West)	ADWR Registration No.	Screened Interval (ft bgs)
2	VW-1	34° 33' 22.10"	114° 20' 14.30"	55-215758	61-179
3	VW-2	34° 33' 23.63"	114° 20' 23.38"	55-217792	79-177
5	VW-4	34° 33' 22.59"	114° 20' 24.52"	55-217791	79-177
6	VW-5	34° 33' 21"	114° 20' 20"	55-222579	79-179
7	VW-6	34° 33' 23"	114° 20' 21"	N/A	N/A
8	VW-7	34° 33' 23"	114° 20' 18"	55-224756	79-179
9	VW-8	34° 33' 21"	114° 20' 21"	N/A	N/A
10	VW-9	34° 33' 22"	114° 20' 21"	N/A	N/A
11	VW-10	34° 33' 24"	114° 20' 20"	N/A	N/A
12	VW-11	34° 33' 24"	114° 20' 24"	N/A	N/A
13	VW-12	34° 33' 23"	114° 20' 16"	N/A	N/A
14	VW-13	34° 33' 24"	114° 20' 26"	N/A	N/A
15	VW-14	34° 33' 20"	114° 20' 20"	N/A	N/A
16	VW-15	34° 33' 20"	114° 20' 22"	N/A	N/A
17	VW-16	34° 33' 20"	114° 20' 27"	N/A	N/A
18	VW-17	34° 33' 24"	114° 20' 22"	N/A	N/A
19	VW-18	34° 33' 25"	114° 20' 26"	N/A	N/A
20	VW-19	34° 33' 22"	114° 20' 22"	N/A	N/A
21	VW-20	34° 33' 20"	114° 20' 23"	N/A	N/A
22	VW-21	34° 33' 24"	114° 20' 16"	N/A	N/A
23	VW-22	34° 33' 20"	114° 20' 18"	N/A	N/A
24	VW-23	34° 33' 20"	114° 20' 20"	N/A	N/A
25	VW-24	34° 33' 22"	114° 20' 22"	N/A	N/A
26	VW-25	34° 33' 24"	114° 20' 18"	N/A	N/A
27	VW-26	34° 33' 26"	114° 20' 27"	N/A	N/A
28	VW-27	34° 33' 27"	114° 20' 29"	N/A	N/A
29	VW-28	34° 33' 29"	114° 20' 30"	N/A	N/A
30	VW-29	34° 33' 30"	114° 20' 30"	N/A	N/A
31	VW-30	34° 33' 31"	114° 20' 31"	N/A	N/A
32	VW-31	34° 33' 31"	114° 20' 29"	N/A	N/A
33	VW-32	34° 33' 30"	114° 20' 28"	N/A	N/A

¹⁸ AL = Alert Level

¹⁹ See Section 2.6.1.2. 1.If water levels within one or more vadose zone injection wells rise to a level higher than 25 feet bgs, and that level persists for at least two (2) weeks, then injection operations within the affected well(s) shall cease. Recharge in the affected well(s) may resume only as per the requirements in Section 2.6.1.2.

²⁰ Feet bgs = Feet below ground surface.

²¹ If there is no flow, or if a well has not yet been constructed, report “No Flow” or “Not Constructed” on the SMRF.

Table 10: RECLAIMED WATER MONITORING – CLASS A+ ²²				
Reclaimed water monitoring under Table 10: RECLAIMED WATER MONITORING 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	Point of discharge from the end of the UV disinfection unit		32° 41' 05"	114° 27' 26"
Parameter	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
E. coli: Single-sample maximum:	23.0	MPN ²³	Daily ²⁴	Quarterly
E. coli: Four (4) of last seven (7) samples	Non-detect ²⁵	MPN	Daily Evaluation	Quarterly
Total Nitrogen ²⁶ : Five-sample rolling geometric mean ²⁷	10.0	mg/l ²⁸	Monthly Calculation	Quarterly
Turbidity ²⁹ : Single reading	5.0	NTU ³⁰	Daily ³¹	Quarterly
Turbidity: 24-hour average	2.0	PFU	Daily Calculation	Quarterly
Enteric Virus ³² : Four (4) of last seven (7) samples	Non-detect	PFU ³³	Monthly / Suspended ³⁴	Quarterly

²² Reclaimed water monitoring under Table 10 shall be performed in addition to routine discharge monitoring required under Section 4.2, Table 8

²³ CFU = MPN = Most Probable Number per 100 ml. For MPN, a value of <2.2 shall be considered to be non-detect.

²⁴ For E Coli, “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.

²⁵ Non detect requires entering “Compliance” or “Non-compliance” on the SMRF for each day of the reporting period. Evaluate the daily E.coli 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 E.coli, report “Non-compliance” for that day’s entry.

²⁶ Total Nitrogen is the sum of Nitrate as N, Nitrite as N, and Total Kjeldahl Nitrogen (TKN)

²⁷ The five-sample rolling geometric mean is determined by multiplying the five (5) most recent monthly sample values together then taking the fifth root of the product. *Example: GMs* = $\sqrt[5]{(m_1)(m_2)(m_3)(m_4)(m_5)}$

²⁸ Mg/l = milligrams per liter

²⁹ 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

³⁰ NTU = Nephelometric Turbidity Units

³¹ For the single turbidity reading, daily means the maximum reading during the 24-hour period.

³² Initial monthly enteric virus sampling shall be performed to indicate four (4) out of seven (7) sample results of non-detect.

³³ Plaque Forming Units per 40 Liters. A value of <1.1 PFU/40L shall be considered to be non-detect.

³⁴ 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 11: GROUNDWATER MONITORING

Sampling Point Number	POC No.	Well Name	Screened Interval	Depth to Groundwater – Screened AL	Depth to Groundwater – 100 ft. Water Level Rise AL ³⁵	Latitude (North)	Longitude (West)
34	1	NP-1	735-795	NA ³⁶	249.2	34° 33' 32.42"	114° 20' 28.19"
35	2	NP-2a	330-440	<330 >430	255.5	34° 33' 21.84"	114° 20' 34.27"
36	3	NP-3	334-460, 460-480, 480-487, 510-520	<334 >520	244.53	34° 33' 28.28"	114° 20' 28.60"
37	4	NP-12	320-420	<320 >420	264.8	34° 33' 13.93"	114° 20' 32.64"
38	5	NP-13	320-420	<320 >420	249.6	34° 33' 13.69"	114° 20' 43.62"
Parameter	Alert Level	Aquifer Quality Limit	Units	Sampling Frequency	Reporting Frequency		
Total Nitrogen ³⁷ :	8.0	10.0	mg/l ³⁸	Monthly Calculation	Quarterly		
Nitrate-Nitrite as N	8.0	10.0	mg/l	Monthly Calculation	Quarterly		
Nitrate as N	8.0	10.0	mg/l	Monthly	Quarterly		
Nitrite as N	0.8	1.0	mg/l	Monthly	Quarterly		
Total Kjeldahl Nitrogen (TKN)	Not Established ³⁹	Not Established	mg/l	Monthly	Quarterly		
E. Coli	Not Established	Non-detect ⁴⁰	MPN ⁴¹	Monthly	Quarterly		
Metals (Total)							
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	Not Established	Not Established	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		

³⁵ ALs for Wells NP-1 and NP-3 are based on a calculated 100 foot water level rise from February 2010 water levels. ALs for Wells NP-2a, NP-12 and NP-13 are based on a calculated 100 foot water level rise from water levels at the time of well installation.

³⁶ NA = Not Applicable

³⁷ Total Nitrogen is the sum of Nitrate as N, Nitrite as N, and Total Kjeldahl Nitrogen (TKN)

³⁸ Mg/l = milligrams per liter

³⁹ Not Established means that monitoring is required, but no limits have been specified at the time of permit issuance

⁴⁰ For MPN, a value of <2.2 shall be considered to be non-detect

⁴¹ MPN = Most Probable Number per 100 ml

Volatile and Semi-Volatile Organic Compounds (VOCs and SVOCs)					
Benzene	0.004	0.005	mg/l	Annually	Annually
Carbon tetrachloride	0.004	0.005	mg/l	Annually	Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Annually	Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Annually	Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Annually	Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Annually	Annually
cis-1,2-Dichloroethylene	0.056	0.07	mg/l	Annually	Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Annually	Annually
Dichloromethane	0.004	0.005	mg/l	Annually	Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Annually	Annually
Ethylbenzene	0.56	0.7	mg/l	Annually	Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Annually	Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Annually	Annually
Monochlorobenzene	0.08	0.1	mg/l	Annually	Annually
Styrene	0.08	0.1	mg/l	Annually	Annually
Tetrachloroethylene	0.004	0.005	mg/l	Annually	Annually
Toluene	0.8	1.0	mg/l	Annually	Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Annually	Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Annually	Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Annually	Annually
Trichloroethylene	0.004	0.005	mg/l	Annually	Annually
Vinyl Chloride	0.0016	0.002	mg/l	Annually	Annually
Xylenes (Total)	8.0	10.0	mg/l	Annually	Annually

Table 12: 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 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 Structure/Parameter	Performance Level	Inspection Frequency	Reporting Frequency
Pump Integrity	Good working condition	Weekly	See Section 2.7.3
Treatment Plant Components	Good working condition	Weekly	See Section 2.7.3
POC Wells	Good working condition No biofouling No clogging No daylighting	Monthly	See Section 2.7.3
Groundwater Conduit Wells	Good working condition No biofouling No clogging No daylighting	Monthly	See Section 2.7.3
Vadose Zone Injection Wells	Good working condition No biofouling No clogging No daylighting	Monthly	See Section 2.7.3
Effects of land subsidence and earth fissures on treatment plant components and disposal sites	Not to exceed a leakage rate of 550 gallons per day per acre	Monthly	See Section 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:	5/26/2020
Contingency Plan, dated:	June 2020
Final Hydrologist Report, dated:	8/17/2020
Final Engineering Report, dated:	6/24/2020
Public Notice, dated:	Not applicable
Public Hearing, dated:	Not applicable
Responsiveness Summary, dated:	Not applicable

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

[A.R.S. §§ 49-221 through 263]

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

6.3. Duty to Provide Information

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

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

6.4. Compliance with Aquifer Water Quality Standards

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

The permittee shall not cause or contribute to a violation of an Aquifer Water Quality Standard (AWQS) at the applicable point of compliance (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.

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 Value Stream 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).