

**STATE OF ARIZONA  
AQUIFER PROTECTION PERMIT NO. P-103611  
PLACE ID 9765, LTF 72784  
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 Glendale to operate the West Area Aquifer Recharge Facility (ARF), located at 11719 West Glendale Avenue, Glendale, Arizona 85307, Maricopa County, over groundwater of the Phoenix Active Management Area in Township 2 N, Range 1W, Section 12 of the Gila and Salt River Base Line 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:** City of Glendale – West Area Aquifer Recharge Facility  
**Facility Address:** 11719 West Glendale Avenue, Glendale, Arizona 85307  
**County:** Maricopa

**Permitted Flow Rate:** 11.5 million gallon per day (mgd)

**Permittee:** City of Glendale  
**Permittee Address:** 5901 N. Glen Harbor Blvd, Glendale, AZ 85307

**Facility Contact:** Karla Camou-Guerra  
**Emergency Phone No.:** 623-930-4128

**Latitude/Longitude:** 33° 31' 58" N/112° 18' 44" W  
**Legal Description:** Township 2 N, Range 1W, Section 12 of the Gila and Salt River Base Line and Meridian

**1.2. AUTHORIZING SIGNATURE**

\_\_\_\_\_  
**Trevor Baggione, Director, Manager, Groundwater Protection Value Stream**  
Water Quality Division  
Arizona Department of Environmental Quality  
Signed this \_\_\_\_\_ day of \_\_\_\_\_, 2020

**THIS AMENDED PERMIT SUPERCEDES ALL PREVIOUS PERMITS**

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**2.0 SPECIFIC CONDITIONS**

[A.R.S. §§ 49-203(4), 49-241(A)]

**2.1. FACILITY / SITE DESCRIPTION**

[A.R.S. § 49-243(K)(8)]

The permittee is authorized to operate the West Area Aquifer Recharge Facility (ARF or Recharge Facility) with a recharge capacity of 11.5 million gallon per day (mgd). The Recharge Facility receives denitrified effluent from the Glendale West Area Water Reclamation Facility (WRF) #103580 to the recharge site. The effluent is disposed by a combination of recharge basins, seepage trenches and vadose zone recharge wells (VZRWs).

There are five recharge basins extending from north to south. Each basin, except the southern-most basin (Basin 5), is further divided into sub-basins resulting in a total of 13 sub basins and covering a total area of 22.25 acres. There are five seepage trenches which are 150 feet long, two feet wide and sixteen feet deep. These trenches are located on the western side of the recharge basins. There are a total of five vadose zone recharge wells. Two VZRWs are located just east of the basin # 3C. VZRW-1 is 158 feet deep and VZRW-2 is 118 feet deep. Both wells are constructed of 18 inch diameter PVC in a 48 inch diameter bore hole. In addition, there are three nested VZRWs located in basin # 4B, which are designated as BRW-1 through BRW-3. Each of these VZRWs is constructed in a 48 inch bore hole, with two 4" PVC pipes extending to a depth of 48 feet and one pipe going to depth of 110 feet. The facility will conduct groundwater monitoring comprising of certain constituents of the Aquifer Water Quality Standards, including nitrogen. The Glendale West Area ARF is designed, constructed, and located according to plans approved by the Maricopa County Environmental Services Department and on file with this permit.

**Amendment Description:** The purpose of this Significant Amendment is to complete the following:

- Modify monitoring and reporting requirements;
- Reduce the number of parameters for groundwater monitoring, and the frequency of sampling and reporting;
- Reduce the frequency of water level monitoring and reporting;
- Rename PZ-6 to Landfill well MW-5;
- Replace Landfill well MW-6 with Landfill well MW-6R because MW-6 had to be abandoned as part of the landfill expansion;
- Remove the Landfill North Cell as a monitoring point because Landfill Well MW-6R is located within 200 feet of the future north cell;
- Update the permit language to current framework; and
- Update the closure and post-closure costs for sampling and well abandonment costs.

The site includes the following permitted discharging facilities:

Table 1: DISCHARGING FACILITIES		
Facility	Latitude	Longitude
Basin 1(A)	33° 32' 5.77" N	112° 18' 46.06" W
Basin 1(B)	33° 32' 5.4" N	112° 18' 44.28" W
Basin 1(C)	33° 32' 4.68" N	112° 18' 42.06" W
Basin 2(A)	33° 32' 0.36" N	112° 18' 44.14" W
Basin 2(B)	33° 32' 0.36" N	112° 18' 44.10" W
Basin 2(C)	33° 32' 0.36" N	112° 18' 42.06" W
Basin 3(A)	33° 32' 55.32" N	112° 18' 46.14" W
Basin 3(B)	33° 32' 55.32" N	112° 18' 44.10" W
Basin 3(C)	33° 32' 55.32" N	112° 18' 42.06" W
Basin 4(A)	33° 32' 51.72" N	112° 18' 46.14" W
Basin 4(B)	33° 32' 50.70" N	112° 18' 43.92" W
Basin 4(C)	33° 32' 49.68" N	112° 18' 42.06" W
Basin 5	33° 32' 44.46" N	112° 18' 42.30" W

Table 1: DISCHARGING FACILITIES		
Facility	Latitude	Longitude
Seepage Trench 1	33° 32' 5.62" N	112° 18' 47.42" W
Seepage Trench 2	33° 32' 2.17" N	112° 18' 47.43" W
Seepage Trench 3	33° 31' 58.59" N	112° 18' 47.43" W
Seepage Trench 4	33° 31' 55.66" N	112° 18' 47.40" W
Seepage Trench 5	33° 31' 52.15" N	112° 18' 47.42" W
VZRW-1	33° 31' 55.89" N	112° 18' 40.90" W
VZRW-2	33° 31' 53.95" N	112° 18' 40.90" W
BRW-1	33° 31' 48.00" N	112° 18' 43.59" W
BRW-2	33° 31' 51.35" N	112° 18' 44.65" W
BRW-3	33° 31' 50.40" N	112° 18' 43.57" W

**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 \$82,997. 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 treatment facility that provides effluent for recharge at this Recharge 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 treatment facility that provides effluent for recharge at this Recharge Facility shall meet the performance requirement for industrial pre-treatment as per A.A.C. R18-9-B204(B)(6)(b).

The treatment facility that provides effluent for recharge at this Recharge Facility shall not exceed a maximum seepage rate of 550 gallons per day per acre for all containment structures within the treatment works.

**2.2.1. Engineering Design**

Not Applicable, as this is not a wastewater treatment plant.

**2.2.2. Site-Specific Characteristics**

Not Applicable.

**2.2.3. Pre-Operational Requirements**

Not Applicable.

**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 9:

**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]

Not applicable.

**2.2.6. Certified Areawide Water Quality Management Plan Conformance**

[A.A.C. R18-9-A201(B)(6)(a)]

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

**2.3. DISCHARGE LIMITATIONS**

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

Not Applicable. No discharge monitoring is required, as this is a recharge facility. The discharge monitoring shall be conducted as per APP # 103580.

**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 #	POC Location	Latitude	Longitude
ARF MW-1	Located in the southwest corner of Basin # 1	33° 32' 04" N	112° 18' 48" W
ARF MW-2	Located in the southwest corner of Basin # 1	33° 32' 04" N	112° 18' 48" W
ARF MW-3	Located approximately 100 feet west of the northwest corner of Basin # 4	33° 31' 52" N	112° 18' 48" W
ARF MW-4	Located approximately 100 feet west of the northwest corner of Basin # 4	33° 31' 52" N	112° 18' 48" W

Monitoring for each POC is listed in the APP-Section 4.2, Table 7: 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. 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**

No discharge monitoring is required for this facility. The wastewater to be injected at this site will be monitored at the discharge line exiting the Glendale West Area Water Reclamation Facility, which is permitted under the Aquifer Protection Permit No. 103580.

### **2.5.3. Reclaimed Water Monitoring**

Not required.

### **2.5.4. Facility / Operational Monitoring**

Operational monitoring inspections shall be conducted according to Section 4.2, Table 9: FACILITY INSPECTION AND OPERATIONAL MONITORING.

- a. 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.
- b. The permittee shall submit data required in Section 4.2, Table 9: FACILITY INSPECTION AND OPERATIONAL MONITORING regardless of the operating status of the facility unless otherwise approved by the Department or allowed in this permit.

### **2.5.5. Groundwater Monitoring and Sampling Protocols**

The permittee shall monitor the groundwater according to Section 4.2, Table 7: GROUNDWATER MONITORING and Table 8: MONITOR WELLS (MW) & PIEZOMETERS (PZ) WATER LEVEL 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.

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(3), 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, except as indicated in 2.6.1.1.

### **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.

### **2.6.2. 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 9: FACILITY INSPECTION AND OPERATIONAL MONITORING to prevent the overtopping of a recharge basin. If a recharge basin is overtopped, the permittee shall follow the requirements in Section 2.6.5.3 and the reporting requirements of Section 2.7.3.

If a performance level set in Section 4.2, Table 9: 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**

Not Applicable.

**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 7: 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 7: 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 permit issuance.

**2.6.2.3.4. Alert Level for Groundwater Level**

If monitoring indicates the groundwater level is not within the allowable range established by the Alert Level (AL) in Section 4.2, Table 8: MONITOR WELLS (MW) & PIEZOMETERS (PZ) WATER LEVEL 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 8: MONITOR WELLS (MW) & PIEZOMETERS (PZ) WATER LEVEL MONITORING for more than one monitoring event at the same well, 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. If applicable, 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.

**2.6.3. Discharge Limit Violation**

Not Applicable.

**2.6.4. Aquifer Quality Limit Violation**

1. If an AQL set in Section 4.2, Table 7: 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.

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 4.2 list the monitoring parameters and the frequencies for reporting results on the SMRF:
  - a. Table 7: GROUNDWATER MONITORING
  - b. Table 8: MONITOR WELLS (MW) & PIEZOMETERS (PZ) WATER LEVEL MONITORING

The parameters listed in the above-identified tables from Section 4.2 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 in writing 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 9: 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.

**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 recharge 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]

Not Applicable.

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**4.0 TABLES OF MONITORING REQUIREMENTS**

**4.1. PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)**

Not applicable.

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4.2. COMPLIANCE OR OPERATIONAL MONITORING

Table 7: GROUNDWATER MONITORING					
Sampling Point Number	Sampling Point Identification			Latitude	Longitude
1	ARF MW-1			33° 32' 04" N	112° 18' 48" W
2	ARF MW-2 (Sample only if ARF MW-1 is dry)			33° 32' 04" N	112° 18' 48" W
3	ARF MW-3			33° 31' 52" N	112° 18' 48" W
4	ARF MW-4 (Sample only if ARF MW-3 is dry)			33° 31' 52" N	112° 18' 48" W
Parameter	Alert Level (AL <sub>1</sub> )	Aquifer Quality Limit (AQL <sub>2</sub> )	Units <sub>6</sub>	Sampling Frequency	Reporting Frequency
Total Nitrogen <sub>3</sub> :	8.0	10.0	mg/l <sub>4</sub>	Semiannually	Semiannually
Nitrate-Nitrite as N	8.0	10.0	mg/l	Semiannually	Semiannually
Total Kjeldahl Nitrogen (TKN)	Not Established	Not Established	mg/l	Semiannually	Semiannually
Fecal Coliform	2.2	2.2	MPN <sub>6</sub>	Semiannually	Semiannually
Metals (Total)					
Arsenic	0.04	0.05	mg/l	Semiannually	Semiannually
Barium	1.60	2.00	mg/l	Semiannually	Semiannually
Chromium	0.08	0.1	mg/l	Semiannually	Semiannually
Cyanide (As free cyanide)	0.16	0.2	mg/l	Semiannually	Semiannually
Fluoride	3.2	4.0	mg/l	Semiannually	Semiannually
Lead	0.04	0.05	mg/l	Semiannually	Semiannually
Nickel	0.08	0.1	mg/l	Semiannually	Semiannually
Selenium	0.04	0.05	mg/l	Semiannually	Semiannually
Thallium	0.0016	0.002	mg/l	Semiannually	Semiannually
Volatile and Semi-Volatile Organic Compounds (VOCs and SVOCs)					
Trihalomethanes (total) <sub>7</sub>	0.08	0.1	mg/l	Semiannually	Semiannually

<sup>1</sup> AL = Alert Level

<sup>2</sup> AQL = Aquifer Quality Limit

<sup>3</sup> Total Nitrogen is the sum of Nitrate as N, Nitrite as N, and Total Kjeldahl Nitrogen (TKN)

<sup>4</sup> mg/l = milligrams per liter

<sup>5</sup> Not Established means that monitoring is required, but no limits have been specified at the time of permit issuance

<sup>6</sup> MPN = Most Probable Number/100 ml sample. For MPN, a value of <2.2 shall be considered non-detect.

<sup>7</sup> Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

Table 8: MONITOR WELLS (MW) & PIEZOMETERS (PZ) WATER LEVEL MONITORING

Monitoring Point #	Identification	Location Latitude/Longitude		Alert Level (feet bls) <sup>8, 9</sup>	Sampling Frequency	Reporting Frequency
1	ARF MW-1	33° 32' 04" N	112° 18' 48" W	10	Quarterly	Quarterly
2	ARF MW-2 (only if ARF MW-1 is dry)	33° 32' 04" N	112° 18' 48" W	10	Quarterly	Quarterly
3	Landfill Well MW-1	33° 32' 27" N	112° 18' 25" W	70	Quarterly	Quarterly
4	PZ-1 (nested)	33° 32' 11" N	112° 18' 44" W	10 shallow well only	Quarterly	Quarterly
5	PZ-2 (nested)	33° 32' 04" N	112° 18' 48" W	10 shallow well only	Quarterly	Quarterly
6	PZ-3 (nested)	33° 31' 58" N	112° 18' 40" W	10 shallow well only	Quarterly	Quarterly
7	PZ-4 (nested)	33° 31' 52" N	112° 18' 48" W	10 shallow well only	Quarterly	Quarterly
8	PZ-5 (nested)	33° 31' 42" N	112° 18' 41" W	50 shallow well only	Quarterly	Quarterly
9	Landfill Well MW-5	33° 32' 13" N	112° 18' 48" W	70	Quarterly	Quarterly
10	Landfill Well MW-6R	33° 32' 53" N	112° 18' 48" W	149	Quarterly	Quarterly

<sup>8</sup> bls = Feet below land surface.

<sup>9</sup> The alert level is exceeded if the depth to water is less than the Alert Level number shown. If the well is dry, it is not an exceedance, however the permittee shall evaluate the need to monitor other deeper wells.

Table 9: FACILITY INSPECTION AND OPERATIONAL MONITORING

Pollution Control Structure/Parameter	Performance Level <sup>10</sup>	Inspection Frequency	Reporting Frequency
Monitor Wells	No Operational Impairment	Monthly	See Section 2.7.3
Freeboard for Recharge Basins	2 feet of freeboard from top of berm, except where those basins are designed to discharge to the next impoundment with no visible signs of overtopping.	Monthly	See Section 2.7.3

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<sup>10</sup> 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.

**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:

**Other Amendment to APP**

APP Amendment Application dated:	January 16, 2020
Date Received by Agency:	January 17, 2020
Contingency Plan dated:	January 16, 2020
Public Notice dated:	
Responsiveness Summary, dated:	N/A

**Documents Reviewed:**

Request for Amendment to Aquifer Protection Permit for the City of Glendale West Area Aquifer Recharge Facility, located at 11719 West Glendale Avenue Aquifer Protection Permit No. P-103611. The application contained eight attachments (Attachment A through H)

## **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.

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## **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).

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