**STATE OF ARIZONA**
**INDIVIDUAL RECLAIMED WATER PERMIT NO. R511918**
**PLACE ID 141015, LTF 86986**

## 1.0 AUTHORIZATION

In compliance with the provisions of Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Article 7 and A.A.C. Title 18, Chapter 11, Article 3 and amendments thereto, and the conditions set forth in this permit, the Town of Queen Creek Utility Services Department, located in Maricopa County, Arizona is hereby authorized to deliver reclaimed water to the Roosevelt Water Conservation District for beneficial reuse in accordance with the limitations, monitoring requirements and other conditions set forth in this permit and in the rules sited above.

Conditions established in this permit are designed to protect public health and safety, prevent contamination of groundwater through consumptive water use, and conserve potable water by using reclaimed resources. Water application rates authorized herein do not supersede the requirements of the Arizona Department of Water Resources.

### 1.1 PERMITTEE INFORMATION

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| **Facility Name:** | Greenfield Water Reclamation Plant |
| **Facility Physical Address:** | 4400 South Greenfield Road<br>Gilbert, Arizona 85297 |
| **Permittee:** | Town of Queen Creek Utility Services Department |
| **Permittee Mailing Address:** | 22358 South Ellsworth Road<br>Queen Creek, Arizona 85142 |
| **Facility Contact:** | Darren Farar |
| **Position/Title:** | Utilities Engineering Manager |
| **Emergency Phone No.:** | (480) 358-3476 |
| **Latitude/Longitude:** | 33° 16' 12" N/111° 44' 34" W |
| **Legal Description:** | Located over groundwater of the Phoenix Active Management Area, in Township 2 S, Range 6 E, Section 9, N¼, SE¼ of the Gila and Salt River Baseline and Meridian. |

### 1.2 REUSE AREA

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|---|---|
| **Site Contact:** | Shane M. Leonard |
| **Contact Number:** | (480) 988-9586 |
| **Latitude/Longitude:** | 33° 15' 46.44" N/111° 43' 35.76" W |
| **Legal Description:** | The reuse area consists of approximately 8700 acres within the service area of the Roosevelt Water Conservation District, located south of Queen Creek Road, west of the RWCD Main Canal, east of the Eastern Canal, and north of Hunt Highway in portions of the city of Chandler, the town of Gilbert, and Maricopa County island parcels. |

### 1.3 AUTHORIZING SIGNATURE

_____
**Trevor Baggiore, Director**
**Water Quality Division**
**Arizona Department of Environmental Quality**

**Signed this _____day of _____, 2021** **<u>Permit effective date: January 28, 2021</u>**

## 2.0 RECLAIMED WATER USE

### 2.1 Reuse Project Description

The Town of Queen Creek plans to use its proportional share of the Class A+ reclaimed water generated by the Greenfield Water Reclamation Plant (GWRP) by partnering with the Roosevelt Water Conservation District (RWCD) canal system to deliver the reclaimed water to downstream customers. The GWRP is a wastewater treatment facility jointly owned by the City of Mesa, and the Towns of Gilbert and Queen Creek. The GWRP facility is located north of Queen Creek Road and west of Greenfield Road within the Town of Gilbert and is operated by the City of Mesa as lead agent for the facility. The GWRP is classified as producing Class A+ reclaimed water per Aquifer Protection Permit (APP) No. P-105443.

Reclaimed water from the GWRP will be delivered to a discharge facility located on Queen Creek Road at the RWCD canal which lies approximately one-third mile west of Higley Road. The reclaimed water will combine with the RWCD canal water and will be transported through the canal system (including laterals and the Eastern Extension Canal), and delivered to current (and future) RWCD customers located downstream of the discharge point. The potential RWCD distribution area that will be served by the co-mingled water is identified as land that is located south of Queen Creek Road, west of the RWCD Main Canal, east of the Eastern Canal, and north of Hunt Highway, and includes the area from RWCD's drain canal running from the tail-water ditch to the RWCD Eastern Extension Canal.

Initially, the Town of Queen Creek expects to deliver approximately two (2) to three (3) cubic feet per second (cfs) of reclaimed water daily into the canal system at the discharge point. In the future, this discharge rate is expected to increase to around 12 cfs. The flow volume in the canal upstream of the discharge point averages in the range of 75 to 100 cfs. The upper range of the percentage of reclaimed water to canal water is expected to be in the 15 to 20% range, but may on occasion be as much as 50% (subject to daily fluctuations).

The reuse area within the RWCD service area consists of approximately 8700 acres. At the time of permit issuance the end-uses include agricultural and landscape irrigation, and water features, but may include any of the allowable uses included in the Reclaimed Water Standards Rule for Class A, B, or C reclaimed water (see A.A.C. Title 18, Chapter 11, Article 3, Table A).

## 3.0 ALLOWABLE PERMIT LIMITS AND MONITORING REQUIREMENTS

### 3.1 Discharge Monitoring

Monitoring requirements for the Class A+ reclaimed water are specified in the Aquifer Protection Permit for the Greenfield Water Reclamation Plant (APP No. P-105443) which includes daily monitoring for *E. coli* and turbidity, and monthly monitoring for total nitrogen.

### 3.2 Records Retention [A.A.C. R18-9- B703(B)(6)]

Records of all monitoring activities and results (including all original strip chart recording for continuous monitoring instrumentation, calibration, electronic recording and maintenance records) shall be retained for five (5) years.

## 4.0 MANAGEMENT PRACTICES

### 4.1 Irrigation Practices [A.A.C. R18-9- B702(F-G)]

Application of reclaimed water to the reuse area shall be performed according to the following requirements:

1. Run-off of from the irrigation area to any surface water body or wash is prohibited. Application of reclaimed water for irrigation is limited to the specific areas as indicated in the permit application and supporting documentation and as listed in Section 2.0 of this permit.
2. Use application methods that reasonably preclude human contact with reclaimed water.
3. Prevent reclaimed water from standing on open access areas during normal periods of use.
4. Prevent reclaimed water from coming into contact with drinking fountains, water coolers, or eating areas.
5. Secure hose bibbs discharging reclaimed water to prevent use by the public.

### 4.2 Prohibited Activities [A.A.C. R18-9-B702(H)]

This permit allows the use of reclaimed water solely for the purposes allowed by this permit. The following

activities are prohibited:

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

### 4.3 Public Information [A.A.C. R18-9- B702(I)]

All RWCD customers located downstream of the discharge location will be notified of the use of reclaimed water and the end-user requirements prior to the delivery of reclaimed water to their property, and will receive reminder notices at least annually from the RWCD.

## 5.0 COMPLIANCE

### 5.1 Violations of Discharge Limits and Permit Conditions.

1. The permittee shall notify the ADEQ Water Quality Compliance Section in writing within five (5) days of becoming aware of a violation of any permit condition or discharge limitation.
2. The permittee shall submit in a written report to the ADEQ Water Quality Compliance Section within 30 days of becoming aware of the violation of any permit condition or discharge limitation. The report shall document all of the following:
   a. Identification and description of the permit condition for which there has been a violation and a description of the cause;
   b. The period of violation including exact date(s) and time(s), if known and the anticipated time period during which the violation is expected to continue;
   c. Description of any malfunction or failure of pollution control devices or other equipment or processes;
   d. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;
   e. Any monitoring activity or other information that indicates that any pollutants would be reasonably expected to cause a violation of an Aquifer Water Quality Standard or cause endangerment to public heath and safety;
   f. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring.

### 5.2 Unauthorized Release

The permittee shall notify the ADEQ Water Quality Compliance Section within 24 hours after becoming aware of an unauthorized release of reclaimed water to the land surface, surface water bodies, or to the aquifer. This notification shall include:

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

### 5.3 Reporting Location

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

Arizona Department of Environmental Quality
Water Reuse Value Stream
Mail Code: 5415B-1

1110 W. Washington Street
Phoenix, AZ 85007
Phone: (602) 771-4999

## 6.0 GENERAL PROVISIONS

### 6.1 Information Changes [A.A.C. R18-9-A705(B) and (D)]

If a change in the following information occurs, the permittee shall update the ADEQ Water Reuse Value Stream with such changes at least once annually by January 31:

1. Permittee,
2. Ownership,
3. Contact person,
4. Phone number, address, email address, or telephone number, or any combination of any of the above, for permittee or contact person,
5. Name of the use site,
6. An increase in Class A, B, or C reclaimed water use of more than ten percent but less than twenty percent above the volume of reclaimed water currently permitted for use at the reuse site, if applicable.

For changes not described above, the permittee must submit a new Recycled Water Individual Permit application, as applicable.

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

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of A.R.S. § Title 49, Chapter 2, Articles 1, 2 and 3, A.A.C. Title 18, Chapter 7 and A.A.C. Title 18, Chapter 11, Article 3. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to A.R.S. § Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

### 6.3 Severability

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

### 6.4 Other Laws and Rules

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

### 6.5 Permit Continuance [A.A.C. R18-9- B703(A)]

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

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

## 7.0 REFERENCES AND PERTINENT INFORMATION

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

1. Individual Reclaimed Water Permit application dated November 30, 2020 and supporting documentation.
2. Individual Reclaimed Water Permit R511918, dated January 28, 2016
3. Public Notice No. 16-34, dated January XX, 2021.