

**City of Scottsdale Advanced Water Treatment - Direct Potable Reuse
Recycled Water Individual Permit For
Advanced Reclaimed Water Treatment Facility
Inventory No. R- 512974
Place ID 185063, LTF 75556**

I. Introduction:

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 City of Scottsdale Advanced Water Treatment Direct Potable Reuse facility is hereby authorized to treat Class A+ reclaimed water from the City of Scottsdale Water Campus (APP #102633), in accordance with the limitations, monitoring requirements and other conditions set forth in this permit and in the rules cited above.

II. Facility Location:

8787 E Hualapai Drive
Scottsdale, AZ 85255

III. Facility Description:

The City of Scottsdale (City) is authorized to operate the Advanced Water Treatment Direct Potable Reuse (AWT-DPR) Facility to produce purified water. The purified water will be provided for the purpose of taste testing demonstration at the Scottsdale Water Campus and to provide offsite to beverage manufacturer(s) (beverage companies) to produce water-based beverages. The water produced by this facility under the permit is no longer considered effluent or reclaimed water, is deemed to meet state drinking water standards as potable water and is therefore exempt from A.A.C. R18-11, Article 3. Any water produced by AWT-DPR will not be added into the City of Scottsdale Drinking Water System (PWS AZ0407098).

For the purpose of Direct Potable Reuse (DPR), City of Scottsdale will be adding treatment with a capacity of up to 15 gallons per minute (gpm) to the existing AWT facility while in operation. The side stream from the AWT facility will be further treated through the new DPR train which includes a back-up UV photolysis, Granular Activated Carbon (GAC) and Calcite Re-mineralizer. The purified water used for consumption at site will be conditioned by the Calcite Re-mineralizer. All materials, chemicals, and GAC media in contact with the product water are appropriate for drinking water, are routinely used in production of drinking water, and shall conform to ANSI/NSF 60 and ANSI/NSF 61 standards, as applicable. The water properly treated and produced by this facility is considered purified water, suitable for distribution for human consumption and is not considered reclaimed water.

IV. Regulatory Status:

The application for this individual recycle water permit was received on April 25, 2019.

V. Monitoring And Reporting Requirements:

The monitoring requirements for this facility are specified in this permit. The City is authorized to treat Class A+ reclaimed water from the City of Scottsdale Water Campus with the treatment

technology described in Section 2.2 of this permit. The City will monitor the source water to AWT-DPR at intake to the ultrafiltration unit to demonstrate Class A+ reclaimed water quality per Table I.

Monitoring of the purified water shall be conducted as required in Tables III and IV. The facility will be monitoring flow going to DPR Tap 1 and Tap 2 when the purified water is provided for production of water-based beverage and taste testing demonstration. The facility will monitor for Total Coliform and E.coli daily for at least a week and once a week for indicator parameters prior to providing water for tasting to tours/events and to beverage companies per Table III. The facility will monitor quarterly for Inorganic Compounds (IOCs), Volatile Organic Compounds (VOCs), and Synthetic Organic Compounds (SOCs) and annually for Unregulated Compounds of Emerging Concerns per Table IV.