

City of Goodyear – SAT and VIP Recharge Facility
Aquifer Protection Permit No. P-511440
Place ID 145828, LTF No. 114062
Significant Amendment

I. Introduction:

The Arizona Department of Environmental Quality (ADEQ) proposes to issue an Aquifer Protection Permit (APP) for the subject facility that covers the life of the facility, including operational, closure, and post-closure periods unless suspended or revoked pursuant to Arizona Administrative Code (A.A.C.) R18-9-A213. The requirements contained in this permit will allow the permittee to comply with the two key requirements of the Aquifer Protection Program: 1) meet Aquifer Water Quality Standards (AWQS) at the Point of Compliance (POC); and 2) demonstrate Best Available Demonstrated Control Technology (BADCT). BADCT's purpose is to employ engineering controls, processes, operating methods or other alternatives, including site-specific characteristics (i.e., the local subsurface geology), to reduce discharge of pollutants to the greatest degree achievable before they reach the aquifer or to prevent pollutants from reaching the aquifer.

II. Permittee & Facility Location:

City of Goodyear – SAT and VIP Recharge Facility is located at 15600 West Yuma Road, Goodyear, Arizona, 85338 Maricopa County.

III. Facility Description:

The permittee is authorized to operate the City of Goodyear – Soil Aquifer Treatment (SAT) and Vadose Injection Program (VIP) recharge facility a 7.47 million gallon per day (MGD) groundwater recharge facility. The VIP receives Class A+ Reclaimed water conveyed via an underground pipeline from the City of Goodyear's 157th Avenue Water Reclamation Facility (157th WRF) which is permitted under APP P-101324. The permittee additionally has an underground storage facility (USF) and water storage permits issued by Arizona Department of Water Resources (ADWR) for this facility. The recharge facility consists of two recharge sites: SAT and VIP. The SAT site is located approximately 0.7 miles from the VIP site. The SAT site can recharge up to 7.34 MGD and VIP site can recharge up to 0.13 MGD (total combined flow not to exceed 7.47 MGD).

IV. Amendment Description:

The purpose of this amendment is to increase the permitted discharge volume from 5.87 MGD to 7.34 MGD and to replace a Point of Compliance groundwater monitoring well.

V. Best Available Demonstrated Control Technology (BADCT):

Not applicable for recharge facilities.

VI. Compliance with Aquifer Water Quality Standards (AWQS):

Compliance with AWQS is demonstrated through routine flow monitoring and groundwater monitoring at the POC wells. There are no recently reported analyte exceedances in either POC well.