

City of Eloy Wastewater Treatment Plant
Aquifer Protection Permit No. P-101689
Place ID 1576, LTF No. 97939
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

City of Eloy, 1137 Houser Road, Eloy, Arizona 85131

III. Facility Name & Location:

City of Eloy Wastewater Treatment Plant, 1750 North Eleven Mile Corner Road, Eloy, Arizona 85131

IV. Facility Description:

The City of Eloy WWTP is a Grade 4 Wastewater Treatment Plan with a maximum average annual flow of 2.0 million gallons per day (mgd) consisting of the following treatment: headworks, a lift station, an activated sludge biological process (nitrification and de-nitrification) that adds a polymer to assist in thickening of the sludge, sludge transfer to geotextile tubes, integral secondary clarifiers, chlorination (which may remain in temporary cessation until the effluent is utilized for beneficial purposes) and a sludge handling facility. The effluent is chlorinated as necessary for disinfection to meet the Class C requirements. The effluent may be disposed in recharge basins, or may be utilized for beneficial purposes under a valid reclaimed water permit.

V. Amendment Description:

The purpose of this Significant Amendment is to remove two former discharging facilities, the Effluent Holding Pond and Sludge Storage Lagoon, under a clean closure with no post-closure monitoring required.

The reduction in monitoring frequency makes this a Significant Amendment as per A.A.C. R18-9-A211(B).

VI. Regulatory Status

This amendment was submitted in response to an NOV issued to City of Eloy for City of Eloy – WWTP on September 29, 2021. The NOV was closed on March 1, 2023 upon receipt of the

administratively complete application for this Significant Amendment received on February 17, 2023.

VII. Best Available Demonstrated Control Technology (BADCT):

The facility was constructed in 1999 in accordance with the applicable BADCT rules at that time. Routine operational monitoring and facility inspections ensure that the BADCT is in good working condition and will not cause a violation of Aquifer Water Quality Standards at the designated Point of Compliance wells.

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

The PMA for this facility includes the boundaries of the existing and proposed recharge ponds and the Biolac treatment basins. The DIA boundary extends 5,000 feet from the WWTP facility based on the facility maximum recharge rate of 2.0 million gallons per day over a period of 40 years. The facility demonstrates compliance with AWQS at the designated POCs through routine groundwater monitoring and SMRF submittals.