

Love's Travel Stops and Country Stores
Aquifer Protection Permit No. P-502585
PLACE ID 15476, LTF 77806
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. Facility Location:

6035 East Minerva Lane
Kingman, Arizona 86401

III. Facility Description:

Loves Travel Stops and Country Stores is a fueling center. The subject of this permit is the operation of the two (2) existing evaporation ponds (EP1 and EP2). EP1 functions as the primary disposal pond. EP2 is used as a backup pond and receives flows when EP1 is out of commission for maintenance or is coming close to exceeding its required freeboard, then EP2 could become the primary evaporation pond for a short period of time until normal conditions return. The wash water generated from power washing the diesel fueling bay areas and contact stormwater from the above ground storage tank (AST) area is treated in an oil/water separator prior to being discharged to the evaporation ponds. The facility is also operating under a type 4 general permit for their septic system.

The evaporation ponds cover an area of 15,190 square foot (sq. ft.). Evaporation pond EP1 covers an area of 7,710 sq. ft., the discharge from the oil/water separator into the evaporation pond is estimated to be approximately 750 gallons per day. Evaporation pond EP2 covers an area of 7,480 sq. ft., the discharge from the oil/water separator into the evaporation pond is estimated to be approximately 750 gallons per day.

IV. Amendment Description:

This permit amendment is to update the engineering design of the evaporation ponds. The earthen berms surrounding the evaporation ponds have been replaced with concrete walls. The liner system beneath the evaporation ponds has been secured to the concrete wall with water-proof adhesive. The closure cost was updated under this permit amendment.

V. Regulatory Status:

An application for this Significant Permit Amendment was received on October 22, 2019. The permit category for this amendment was determined to be an “Significant Amendment” in accordance with A.A.C. R18-9-A211(B)(2) (e)(6), change in construction requirements.

Last inspection dated April 18, 2019 indicated that the facility was found to be not in compliance with the APP and Arizona rules and statutes. The facility was issued a Notice of Violation on May 16, 2019.

Case # 182562 - During the April 18, 2019, ADEQ inspection, the lined evaporation ponds were observed to have vertical, cement walls. According to Section 2.2.1 of the permit, the side slopes of the ponds shall have a slope of 2 Horizontal (H): 1 Vertical (V). According to the permit, vertical walls are not permitted. The inner slope within the evaporation ponds appears to be of an uneven grade and constructed of gravel. Additionally, the liner of the evaporation pond was observed to be secured to the vertical wall of the impoundment partially up the side.

Vegetation, oily water, and a buildup of sediment was observed in the two (2) permitted evaporation ponds, as a result of a failure to monitor for these operational deficiencies. The primary evaporation pond (EP1) was observed to contain debris, a buildup of sediment, and an oily sheen on the surface of the water. The secondary evaporation pond (EP2) was observed to have vegetation growth and a damaged liner, as it was observed to be peeling away from the side of the impoundment.

VI. Best Available Demonstrated Control Technology (BADCT):

The facility shall be designed, constructed, operated, and maintained to meet the treatment performance criteria for existing facilities as specified in Arizona Administrative Code R18-9-B205.

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

To ensure that site operations do not result in violation of Aquifer Water Quality Standards the facility shall maintain Discharge limits as per Section 2.3 of the permit.

Facility inspection and operational monitoring will be performed on a routine basis (see Section 4.2, Table 4.2.1, in the permit).