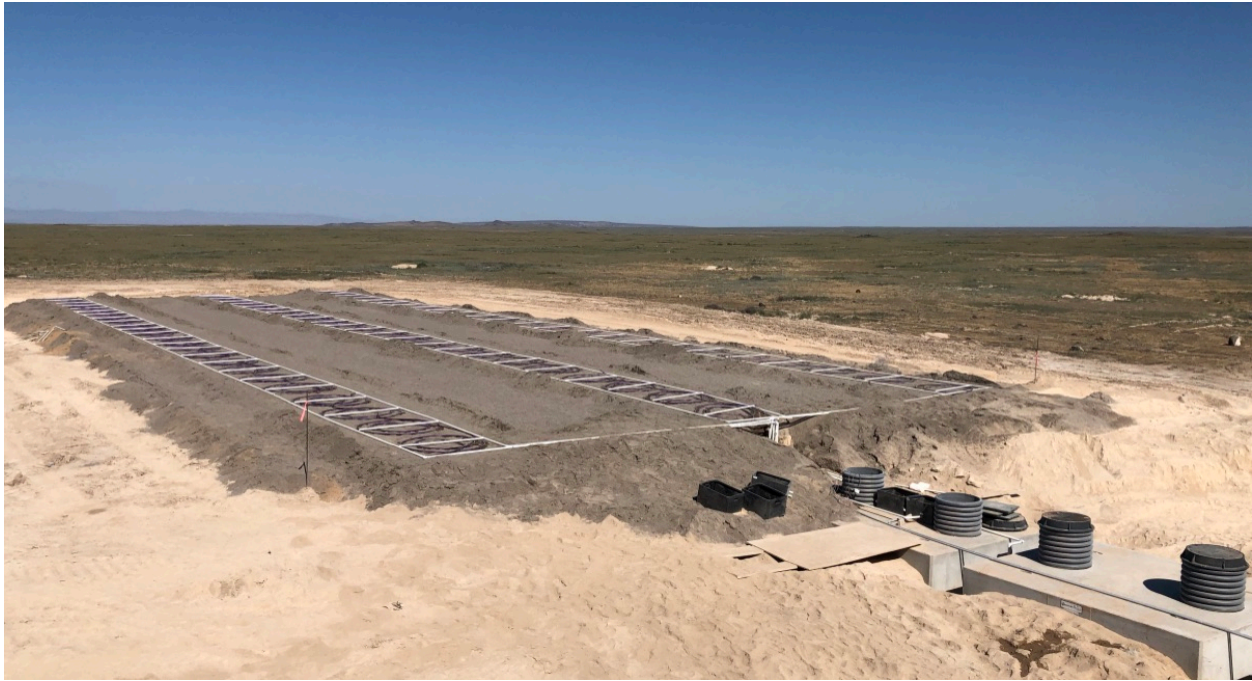


Case Study
Orchard Combat Training Center
Well and Shower Facility TTB
Mountain Home, Idaho

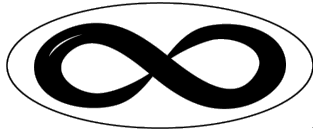


The first proposed treatment system for this project was a secondary treatment unit (an ATU) with a subsurface drip field for final disposal. This system had a primary settling tank treatment unit, pump chamber, and controls and accessories for the drip system. *Lowridge Onsite Technologies, LLC* proposed an alternative, the *OSCAR-II* system.

The *OSCAR-II* is an all-in-one onsite sewage dispersal and treatment system for use with septic tank effluent. Wastewater passes through two 3,000 gallon septic tanks and then into a 3,000 gallon dosing tank. Effluent is micro dosed through a network of Netafim Bioline drip tubing coils into a layer of medium sand where physical, biological, and chemical treatment processes remove organic compounds and pathogens from the waste stream. Treated liquid migrates downward to the receiving soil where final discharge of treated wastewater enters the soil environment.

The 72 OS-50 OSCAR coils are arranged in three zones with 24 coils per zone. A pair of 1/2 hp, 110 volt pumps operates the entire system.

OSCAR-II can be used with as little as 12" of soil to water table.



The design criteria:

- 2200 gallons per day design flow rate
- Soil group C-1
- Loading rate, 0.4 gallons per square foot per day (secondary treatment)
- 7 feet to 8 feet of soil above rock
- Two times plus retention time for septic tank

Regulatory Agency:

Central District Health
Boise, ID
208-375-5211

Project Engineer:

Justin Bilbrey, E.I.
T-O Engineers
Boise, ID
208-433-1900

Installing Contractor:

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Idaho Erosion Control, LLC
Twin Falls, ID
208-329-0063

Distributor:

HD Fowler Co.
Twin Falls, ID
208-734-8838