

Septic System Design Report

Property Owner:

Iowa Department of Natural Resources

6200 Park Ave., Ste 200

Des Moines, IA 50321

515-313-8048


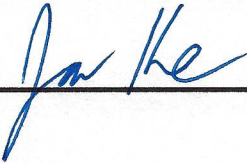
Jonathan.jones@dnr.iowa.gov

Property Located at:

13796 Elk Horn St.

Indianola, IA 50125

Parcel # 13000309820

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.	
		10-31-25
	Jason Kruse, P.E. License number 19718	Date
	My license renewal date is December 31, 2025.	
	Pages or sheets covered by this seal: <u>All</u>	

Facility:

Existing shooting range check-in building, built in 2006. An existing 2000 gallon holding tank will be pumped and removed/demolished.

Flow Calculation:

Records show that the existing holding tank was pumped 1-2 times per month. The range is open 4 days per week.

$4000 / (30 \times (4/7)) = 233$ gallons per open day.

Alternatively, assuming as many as 100 guests/day at 4 gallons per guest = 400 gallons/day

The larger number of 400 gallons/day will be used to size the system. This is less than the flow of a 3-bedroom system.

Design:

Install 1250 gallon septic tank.

Install a 3-bedroom Planet Care enclosed system with a pump pit for surface discharge.

See attached sheet for sketch.

