

Attn: GREG BAIRD  
11280 FOREST EDGE DR  
COLORADO SPRINGS, CO 80908

Notify Environmental Health of any change of ownership, type of business activity, business name, or billing address by calling (719) 578-3199. Failure to notify Environmental Health may result in late penalties, Permit/License denial or revocation, and business closure. PERMITS/LICENSES TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s)/License(s) prior to beginning operation.



EL PASO COUNTY PUBLIC HEALTH  
ENVIRONMENTAL HEALTH DIVISION  
1675 W. GARDEN OF THE GODS ROAD, SUITE 2044  
COLORADO SPRINGS, CO 80907  
PHONE: (719) 578-3199 FAX: (719) 578-3188  
www.elpasocountyhealth.org

## MINOR REPAIR PERMIT - OWTS

Valid From 8/28/2017 To 8/28/2018

PERMITEE : GREG BAIRD  
11280 FOREST EDGE DR  
COLORADO SPRINGS, CO 80908

Onsite ID: ON0036147  
Tax Schedule #: 6223000103  
Permit Issue Date: 08/28/2017  
Dwelling Type: RESIDENTIAL  
# of Bedrooms (if Residential): 5  
Proposed Use (if Commercial):  
Designed Gallons/Day:  
Water Source: PRIVATE WELL

OWNER NAME : GREG BAIRD

### System Installation Requirements:

- Permit is issued for connection to existing system only
  - Clean out must be located within 5' of structure
  - All setbacks must be maintained
  - Connection must remain completely uncovered for final inspection.
- System size was certified by Geoquest, LLC to accommodate addition of bedrooms.

For questions, call Bex: 352-1846

This permit is issued in accordance with 25-10-106 Colorado Revised Statutes. The PERMIT EXPIRES upon completion/installation of the Onsite Wastewater Treatment System, or at the end of twelve (12) months from date of issue, whichever occurs first. If both a Building Permit and an Onsite Wastewater Treatment System Permit are issued for the same property and construction has not commenced prior to the expiration date of the Building Permit, the Onsite Wastewater Permit shall expire at the same time as the Building Permit. This permit is revocable if all stated requirements are not met. The Onsite Wastewater Treatment System must be installed by an El Paso County Licensed System Contractor, or the property owner.

The Health Officer shall assume no responsibility in case of failure or inadequacy of an Onsite Wastewater Treatment System, beyond consulting in good faith with the property owner or representative. Access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with the requirements of this law (permit).

Inspection request line: Call (719) 575-8699 before 8:30 a.m. of the day that the inspection is requested  
Weekends & Holidays excluded.

Authorized By: Environmental Health Specialist



15 August 2017

6825 Silver Ponds Heights #101  
Colorado Springs, CO 80908  
(719) 481-4560

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Murray Excavating  
6050 N Ellicott Highway  
Calhan, CO 80808

RE: OWTS Evaluation, 11280 Forest Edge Drive, Geoquest #17-0680


Dear Mike,

Per your request, we evaluated the existing OWTS, at the above address, for additional capacity. The existing house is 3 bedrooms and the homeowner wishes to add 2 bedrooms to the residence for a total of 5 bedrooms. The existing OWTS was designed for 3 bedrooms by Colorado Engineering & Geotechnical Group, Inc, Job No: 082-0328, Dated November 25, 2008. The system was installed under Permit #599, Inspection Form Dated December 23, 2008.

The existing OWTS consists of 1,000 gallon septic tank and a 1,000 gallon two-compartment pump chamber with the pump in the second compartment. The STA consists of a 5,000 square feet Low-Pressure System, commonly referred to as Non-Pressurized Drip Dispersal Systems (NDDS). The original design was based on a Percolation Rate of 36.9 Min/In and a Long Term Acceptance Rate (LTAR) of 0.285 GPD/SF. We feel that a LTAR of 0.30 GPD/SF (USDA 3A) is satisfactory.

For a 5 bedroom house, the assumed design flow is as follows:  $Q = (3)(150) + (2)(150) = 600.0$  GPD. Based on the CPOW Guidelines for the Design of NDDS, an adjustment factor of 2.2 is recommended for USDA Soil Type 3A. The NDDS Area is calculated as:  $A = (Q \times 2.2) / LTAR = (600 \times 2.2) / 0.30 = 4,400$  SF. Therefore a 5,000 SF NDDS system is satisfactory for a 5 bedroom house. The minimum tank size for a 5 bedroom house is 1,500 gallons. The existing tank configuration consist of 2 separate 1,000 gallon tank with the pump in the second compartment of the second tank. This shall provide an approximate storage volume of 1,666 gallons.

Therefore, the existing OWTS shall be adequate for up to 5 bedrooms. We recommend approval of the OWTS by EPCHD. If you have any questions, feel free to contact us at (719) 481-4560.

  
Charles E. Milligan, P.E.  
Geoquest, LLC

