BRIAN COWAN, MPH, LEHS
Health Officer/Executive Director

WEBER-MORGAN
HEALTH DEPARTMENT

May 6, 2021

Weber County Planning Commission
2380 Washington Blvd.
Ogden, UT 84401

RE: Palmer DePaulis property
5925 Old Snowbasin Road
Parcel #20-035-0040
Soil log #15077

The soil and percolation information for the above-referenced lot have been reviewed. Culinary water will be provided by a private well. **The placement of the well is critical so as to provide the required 100 foot protection zone.** The well will need to be dug, tested and the water supply approved prior to issuance of a wastewater disposal permit.

DESIGN REQUIREMENTS

Documented ground water tables not to exceeding 36 inches, and permissible soils to a depth of 42 inches below grade, fall within the range of acceptability for the utilization of a Mound Treatment System or a Packed Bed Media System followed by drip irrigation absorption area, as a means of wastewater disposal. Maximum absorption area depth is limited to 0 inches for the Mound and 6 inches for the Packed Bed Media with drip irrigation. As defined in the Utah Administrative Code R317-4 Table 6 the absorption area is to be designed using a maximum loading rate of 0.22 gal/sq. ft./day for a Wisconsin Mound absorption area, or 0.4 gal/sq. ft./day for the Packed Bed Media with drip irrigation absorption area as required for the silt clay loam, massive structure soil horizon.

ENGINEERING CONSIDERATIONS & RESTRICTIONS

The system type is restricted to a Mound or Packed Bed Media based on non-permissible soils with a documented percolation test rate of 160 minute per inch identified at 42-107 inches below the surface. The location of the absorption system is restricted to the area of the soil test pit located at UTM Zone 12 Nad83 432664 E 4565525 N.

Plans for the construction of any wastewater disposal system are to be prepared by a Utah State certified individual and submitted to this office for review prior to the issuance of a Wastewater Disposal permit.

All subdivisions plats submitted for review are to show the location of exploration pits and percolation tests as well as the documented soil horizons and percolation rates. Mylars submitted for signature without this information will be returned.

Each on-site individual wastewater disposal system must be installed in accordance with R317-4, Utah Administrative Code, Individual Wastewater Disposal Systems and Weber-Morgan District Health Department Rules. Final approval will be given only after an on-site inspection of the completed project and prior to the accomplishment of any backfilling.

Please be advised that the conditions of this letter are valid for a period of 18 months. At that time the site will be re-evaluated in relation to rules in effect at that time.

Sincerely,

Summer Day, LEHS III, Program Manger
Environmental Health Division
801-399-7160

BRIAN COWAN, MPH, LEHS
Health Officer/Executive Director

WEBER-MORGAN
HEALTH DEPARTMENT

April 22, 2021

Palmer DePaulis
834 S 600 E
Slat Lake City, UT 84102

Subject: Water Table Monitoring located at 5925 Old Snowbasin Rd in Hunstville, UT. Land serial number 200350040.

This letter is to notify you of the results for water table monitoring that was conducted on your property. Monitoring was performed from 1/12/2021 through 4/6/2021.

The high water table for the subject property was measured at 97 inches below ground surface throughout the monitoring period. In years where the precipitation falls below season average, State rule allows for an adjusted maximum water table based on one or more of the following.

i. Regular monitoring of the ground water table, or ground water table, perched, in an observation well for a period of one year, or for the period of the maximum groundwater table
   (1) Previous ground water records and climatological or other information may be consulted for each site proposed for an onsite wastewater system and may be used to **adjust** the observed maximum ground water table elevation.
ii. Direct visual observation of the maximum ground water table in a soil exploration pit for:
   (1) evidence of crystals of salt left by the maximum ground water table; or
   (2) chemically reduced iron in the soil, reflected by redoximorphic features, i.e. a mottled coloring.
iii. Previous ground water records and climatological or other information may be consulted for each site proposed for an onsite wastewater system and may be used to adjust the observed maximum ground water table elevation in determining the anticipated maximum ground water table elevation.

The water table for the subject property remained below 36 inches throughout the monitoring period. Therefore a **Conventional Wastewater Disposal System** would be suitable for the property with respect to water table.

The Weber-Morgan Health Department does not assert that this property meets zoning, subdivision or any other development feasibility requirements.

If not already accomplished, the following requirements must be satisfied in accordance with Utah Administrative code R317-4 and Weber-Morgan Health Department Onsite Wastewater Treatment System regulation, before the Weber-Morgan Health Department is able to issue a letter of feasibility for residential development on the property:

phone: 801-399-7100 | fax: 801-399-7110 | 477 23rd Street, Ogden, UT 84401 | www.webermorganhealth.org

1. Approval of onsite systems in western Weber County is made in accordance with the Ground Water Management Plan for Western Weber County, (adopted by the Weber-Morgan Board of Health 27 August 2001). The plan addresses replacement systems and density requirements.

2. **Drinking water**. Indicate the source. If a private well is used to supply drinking water, the well must be permitted, installed and approved.

3. **Soils Evaluation and Percolation Testing**. Soil exploration pits shall be made at the minimum rate of one exploration pit per lot proposed. Application and guidance for soils evaluation are available at the health department or online at webermorganhealth.org. Percolation tests may be required based on soil types and must be performed by a certified individual. A list of certified individual is available at the health department

4. **Other required site information.** Other requirements may include proof of adequate square footage ≤25% slope, location to nearest sewer, statement of proposed use if other than a single-family dwelling, etc…

Once feasibility has been demonstrated and the following requirements have been satisfied, the health department will then be able to issue an Onsite Wastewater Disposal Permit:

1. **System design**. Alternative systems must be designed by a certified, level 3 onsite systems professional or other qualified professional. The system must be designed in accordance with Utah State Rule, R317-4, Onsite Wastewater Systems and AWeber-Morgan Health Department Rules for Individual Wastewater Systems.

2. **Building plans**. Plans must include the property's dimensions, topographical features, easements, a floor plan (indicating the number of bedrooms and basement, if applicable), driveways and outbuildings and lot dimensions, placement of the onsite system and the location of system replacement area (must accommodate 100% replacement of the original system).

3. **Subdivision plans.** The location of all exploration pits and percolation test holes shall be clearly identified on the subdivision final plat and identified by a key number or letter designation. The results of such soil test, including stratified depths of soils and final percolation rates for each lot shall be recorded on or with the final plat.

Attached is a copy of all water table measurements and observations. Please contact this office or the undersigned at 801-399-7160 if you have questions.

Sincerely,

Summer Day

Summer Day, LEHS III, Program Manager
Environmental Health Division

2021 WATER TABLE DATA

Name	**Palmer DePaulis**
Address	**5925 Old Snowbasin Rd**
Land serial	**200350040**

number of wells	3
number of sites	1
total readings	0

Table Key
exceed 36"
exceed 24"
exceed 12"

DATE	1/11/21	1/12/21	1/19/21	1/26/21	2/2/21	2/8/21	2/10/21	2/16/21	2/23/21	3/2/21	3/8/21	3/9/21	3/15/21	3/23/21	3/30/21	4/6/21
READING #	1	2	3	5	7	8	9	10	13	15	16	17	18	21	23	27
WELL #	Water Depth															
3W		120		120	120.5	120		120	120.5	120.5		120.5	120	120	120	120
1N		131		131	132	131.5		131.5	130.5	130.5		130.5	131	131	131	131
2E		97		97	97.5	98		98	97.5	97		97	97.5	98.5	97.5	97