



## County of Santa Clara

Department of Environmental Health

1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 www.EHinfo.org



October 26, 2017

Christopher Day, REHS P.O. Box 26 Redwood City, CA 94064 PROJECT NUMBER: SR0854209 PROJECT NAME: BEAR CREEK STABLES PROJECT ADDRESS: 19100 BEAR CREEK RD. PROJECT CITY: LOS GATOS ASSESSORS PARCEL NO.: 544-32-001

Dear Mr. Day:

The Department of Environmental Health (DEH) has received a proposal to develop a new onsite wastewater treatment system (OWTS) to serve a commercial horse stable with one bedroom caretaker residence, two public restrooms, two horse-wash facilities, and floor drains for a visitor center and maintenance building. This is a review letter based on the site assessment, site plan, soil profiles, the percolation rates, and OWTS design received. Site work and system design requirements are as follows:

- Four soil profiles conducted on June 22, 2017 and July 5, 2017 to depths of 4 feet to 13 feet. Mottling encountered at 7 feet in SP4.
- Percolation testing was conducted on July 6, 2017 at 3.5 to 4 foot depths for proposed pressure dosing system. Five percolation holes were utilized with a stabilized average percolation rate of 119 minutes per inch (mpi).
- The required application rate is 0.2 gallons per day per square foot (gpd/sqft).
- The waste water flow for the total commercial application is 305 gpd.
- The minimum requirements for the proposed pressure dosed system is 382 ft + 382 ft.

Christopher Day submitted an Onsite Wastewater Treatment System (OWTS) plan dated August 4, 2017. The plan is designed for a pressure dosed system for 305 gpd, with 375 ft + 375 ft, based on an application rate of 0.2 gpd/sqft.

The Department is unable to provide clearance for Building Site Approval by the Planning Office, nor complete the final approval of this project or permit issuance until the following information has been provided or corrected:

1. Provide a geotechnical report addressing proposed encroachment to cuts and steep slopes >50%. Please see "Geotechnical Report & Engineering Installation Plan Requirements" for more information.

The Department is unable to complete the final review and approval of this project until the following information has also been provided or corrected:

- 2. The OWTS plans need to be modified as follows:
  - a. Narrative on OWTS 1 implies that the system is being oversized by 30% due to not utilizing the chamber reduction allowance, however, the current design proposal is sized with a 5 sqft/linear foot credit. The Shallow Pressure Distribution guidelines do not allow for greater than 4 sqft/linear foot credit. Ensure that the proposal is revised accordingly.
  - b. Soil profile locations do not match inspection notes in DEH files. Ensure that soil profile locations are revised to accurately depict the areas evaluated. Include area of fill encountered, with notation for installation around fill as necessary.
  - c. Ensure that additional evaluation by a hydrogeologist is conducted, with report provided to support the determination that the previously designated seasonal drainage was not originally a natural feature. Otherwise, ensure that a 50' minimum setback to seasonal drainage way is maintained.
  - d. Ensure that minimum 10' setback is maintained from all potable water utility lines and storage tanks. Include notation for required double-sleeving for all septic tightlines located with 10' of an existing water line.
  - e. Correct the calculation on OWTS 3 for number of chambers in Zone B.
  - f. Update the inspection well detail on OWTS 2 to ensure that perforations begin at 18" below grade, as required in the Shallow Pressure Distribution guidelines.
  - g. Specify spacing between drainfields in Zone A and Zone B (minimum 6').
  - h. Provide notation indicating required use of 150 psi pressure-rated PVC piping for all pipes, fittings and valves. Include requirement that all joints must be solvent welded.
  - i. Provide updated percolation test verification letter based on revised proposal.
- 3. Provide copies of most current floor plans for all existing and proposed structures the OWTS is proposed to serve.
- 4. Provide proof of potable water source.

## No guarantee of approval for development is implied in this letter until all requirements have been met.

The original submittal fee(s) includes the review of one (1) revision. If additional revisions or site visits are required, supplemental fees will apply. Please submit all of the above in one final packet for review or additional fees may be incurred. If we can be of further assistance, please contact Darius Haghighi, Senior REHS at (408) 918-3468 between 7:30 a.m. and 9:00 a.m., Tuesday through Friday or Nicole Jorgensen, Senior REHS at (408) 918-3492, between 7:30 a.m. and 5:00 p.m., Monday through Thursday.

Very truly yours,

Darius Haghighi, Senior REHS Land Use Program Department of Environmental Health County of Santa Clara

cc: Owner: Midpeninsula Regional Open Space District, File

Board of Supervisors: Cindy Chavez, Mike Wasserman, Dave Cortese, Ken Yeager, S. Joseph Simitian County Executive: Jeffrey V. Smith