

PROJECT SCOPE & RATIONALE:

The scope of this project is a major remodel (>500 sq. ft) and bedroom addition to the main house. The bedroom count is proposed to be increased from 4 BR to up to 6 BR. This as-built plan is to show that the existing septic system serving the residence has adequate capacity for the intensification, and that the system largely meets current septic regulations.

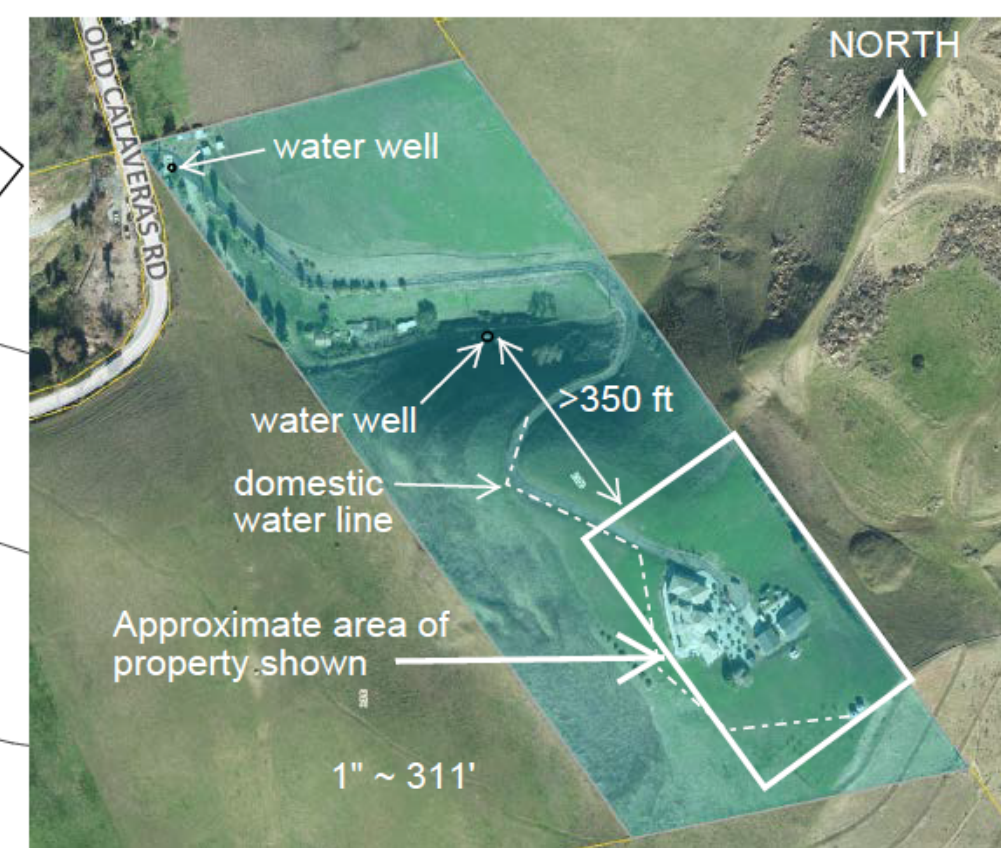
The existing septic system serving the main house, installed under DEH permit #61131 in 1998, was recently investigated in August 2020. Excavations of representative sections of the existing drainfields were examined showing drainrock and drainpipe to be in good condition. A percolation test was conducted with results indicating the existing system to have more than 2.8 times the required infiltrative area and trench length. Soil profiles showed adequate separation to potential high groundwater, except for SP2 which had refusal about 1 ft below trench depth. Note that additional soil profiles are on file with DEH that further demonstrate adequate separation, although the specific locations of the test pits are apparently not identified. A geotech report addressing slope stability and setback to nearby steep slopes is being provided to support this proposal.

A small section of the lower drainfields appears to be sited in slope >30%, and it appears that some of the drainfields may not meet the 10 ft property line setback. Except for these variances, the rest of the system appears to meet code. The system should not be modified to eliminate these minor variances because this would reduce the overall capacity of the system which has been operating without any problems and because correction of the items would be an unnecessary expense.

Areas shaded gray on this side of property represent steep slope apparently >50% with height estimated at 25 ft and greater.

NEW WATER WELL

SITE PLAN PROVIDED BY
DANIEL SILVERNAIL ARCHITECT, INC.



SEWAGE SYSTEM REVIEW
SANTA CLARA COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
Project Description: Major remodel 6 bedroom max
SR No.: 864119

APPROVAL RECOMMENDED
☒ With existing System (Existing No. 61131)
☐ Install/modify system per plan (describe below)
[Obtain a permit from Environmental Health]

Existing OWTs is large enough to accommodate 6 bedrooms

R.E.H.S. Ross *Chris Day* Date 06/08/2021
Not A Sewage System Permit. Plan is void if absent signature.

SOIL PROFILE RESULTS
CONVENTIONAL SYSTEMS

SR #: 864119 DATE OF INSPECTION: 8/17/2020
APN #: 025-31-011 OWNER: Dhami Property
APPLICANT: Dhami Property
SITE ADDRESS: 2100 Old Calaveras Rd Milpitas
CONDUCTED BY: Chris Day CHECKED BY: Peter Estes

HOLE # SP1
1.0 ft: Dark brown sandy
2.0 ft: Dark brown/black sandy clay
3.0 ft: Brown sandy clay small rocks
4.0 ft: Light brown sandy clay small rocks
5.0 ft: End of dig - refusal
6.0 ft: No groundwater observed

HOLE # SP2
1.0 ft: Hard weathered rock
2.0 ft: Sandy clay
3.0 ft: End of dig - refusal
4.0 ft: No groundwater observed

COMMENTS:

SOIL PROFILE RESULTS
CONVENTIONAL SYSTEMS

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HOLE # SP3
1.0 ft: Brown sandy clay/loam
2.0 ft: Dark sandy clay/loam
3.0 ft: Dark sandy clay/loam
4.0 ft: Dark sandy clay/loam
5.0 ft: Dark sandy clay/loam
6.0 ft: Dark sandy clay/loam
7.0 ft: Dark sandy clay/loam
8.0 ft: Dark sandy clay/loam
9.0 ft: Dark sandy clay/loam
10.0 ft: Dark sandy clay/loam
11.0 ft: Dark sandy clay/loam
12.0 ft: Dark sandy clay/loam
13.0 ft: Dark sandy clay/loam
14.0 ft: Dark sandy clay/loam
15.0 ft: Dark sandy clay/loam
16.0 ft: Dark sandy clay/loam
17.0 ft: Dark sandy clay/loam
18.0 ft: Dark sandy clay/loam
19.0 ft: Dark sandy clay/loam
20.0 ft: Dark sandy clay/loam

COMMENTS:

LEGEND:

- = drainfield inspection standpipe (observed)
- - - = popover drainfield connection lines (from plans)
- SP1 = soil profile test hole (3)
- P1 - P6 = percolation test hole (6)

County of Santa Clara - Department of Environmental Health																
SOIL PERCOLATION TEST RECORDED MEASUREMENTS (Electronic Version by Chris Day, R.E.H.S.)																
OWNER/APPLICANT: Gursavaj Dhami				SR #: 864119		IPN FILE #: 16-1-011		INHS: Peter Estes								
LOCATION: 2100 Old Calaveras Rd, Milpitas, CA APN 025-31-011				PHONE: 650-293-1045		CONTACT PERSON: CHRIS DAY, R.E.H.S.		DATE: 8/17/2020								
HOLE #1	DEPTH: 4 ft	(11.3' on meter)														
TIME	WATER LEVEL	START	FINISH	A MIN	A INCH	MPI	TIME	WATER LEVEL	START	FINISH	A MIN	A INCH	MPI			
9:44	10:14	10:17	10:18	3.4	3	1/8	10	9:46	10:16	10:13	3.4	DRY	30			
10:15	10:46	10:17	10:18	3.4	DRY	30	10:17	10:47	10:17	10:18	3.4	DRY	30			
10:46	11:04	10:17	10:18	3.4	DRY	30	10:48	10:58	11:01	3.78	2	3/8	3			
11:00	11:22	10:17	10:18	3.4	DRY	30	10:59	11:09	11:15	3.78	2	3/8	3			
11:10	11:40	10:17	10:18	3.4	DRY	30	11:10	11:20	11:21	3.78	2	3/8	3			
							11:22	11:32	11:31	3.78	2.78	1	3/2	3		
							11:33	11:44	11:41	3.78	2	3/8	3			
							11:45	11:55	11:59	3.78	2	3/2	3			
HOLE #2	DEPTH: 3 1/2 ft	(26' on meter)														
TIME	WATER LEVEL	START	FINISH	A MIN	A INCH	MPI	TIME	WATER LEVEL	START	FINISH	A MIN	A INCH	MPI			
9:46	10:16	10:13	10:24	3.0	1/4	80	9:50	10:20	10:13	10:24	3.0	1/4	80			
10:24	10:52	10:13	10:24	3.0	1/4	80	10:24	10:52	10:13	10:24	3.0	3/4	80			
10:52	11:20	10:13	10:24	3.0	1/4	80	10:52	11:20	10:13	10:24	3.0	1 1/4	27			
11:20	11:50	10:13	10:24	3.0	1/4	80	11:23	11:53	11:23	31	30	0	30			
HOLE #3	DEPTH: 4 ft	(19.12' on meter)														
TIME	WATER LEVEL	START	FINISH	A MIN	A INCH	MPI	TIME	WATER LEVEL	START	FINISH	A MIN	A INCH	MPI			
9:48	10:18	10:17	10:18	3.2	3	1/2	9	9:50	10:20	10:13	10:24	3.0	1/4	80		
10:19	10:49	10:17	10:18	3.2	3	1/2	9	10:24	10:52	10:13	10:24	3.0	3/4	80		
10:49	11:20	10:17	10:18	3.2	3	1/2	9	10:52	11:20	10:13	10:24	3.0	1 1/4	27		
11:20	11:50	10:17	10:18	3.2	3	1/2	12									
HOLE #4	DEPTH: 3 1/2 ft	(20.12' on meter)														
TIME	WATER LEVEL	START	FINISH	A MIN	A INCH	MPI	TIME	WATER LEVEL	START	FINISH	A MIN	A INCH	MPI			
9:52	10:22	10:26	10:27	DRY	30		9:54	10:24	11:13	11:24	1.04	30	1.58	18		
10:26	10:56	10:26	10:27	DRY	30		10:25	10:55	10:13	10:24	3.0	1/4	80			
10:56	11:04	10:26	10:27	DRY	30		10:56	11:26	10:13	10:24	3.0	3/4	80			
11:04	11:14	10:26	10:27	DRY	30		11:27	11:57	11:13	11:24	1.58	5.78	30	1.18	27	
11:14	11:24	10:26	10:27	DRY	30											
11:24	11:34	10:26	10:27	DRY	30											
11:34	11:44	10:26	10:27	DRY	30											
STOPWATCH READINGS starting at 1:02:01 p.m.																
0:00	7:58	126	21	8.0	1	1.6										
0:00	8:17	126	21	8.3	1	1.7										
0:00	8:36	126	21	8.4	1	1.7										
HOLE																
Stabilized MPI	R	11	3	11	27	1.7	29									
Adjusted Stabilized MPI	R ₁ = R x 1.4	15	4	15	38	2.4	41									
Average Adjusted Stabilized MPI	R ₂ = (R ₁)/# Holes							19								
# Bedrooms: 5	FOR OFFICE USE ONLY						Tank Size (Gall)	Leach Line (ft)								

GRADING/DRAINAGE PLAN
is OVERLAID ONTO THIS
SEPTIC PLAN

NOTE: The septic components shown on this plan were plotted from the following:

- 1) field measurements of standpipe locations
- 2) as built diagrams by DEH inspector on file.

Where discrepancies were found, the field measurement of standpipes took precedence in determining the correct plotted locations.

INFILTRATIVE AREA CALCULATIONS & SPECIFICATIONS	
TYPE OF SEPTIC SYSTEM: Conventional Gravity Flow	
DESIGN CALCULATIONS:	DRAINFIELD TRENCH SPECIFICATIONS:
Average Percolation Rate: 19 MPI	Slope: Grid Section <20% // Lower Section 11-32%
Design Application Rate: 0.65 gal/sq. ft./day	Drainfield Dimensions: 2 ft width x 4 ft depth
Peak Wastewater Flow: 675 gpd (6 BR)	Drainrock Below Drainpipe: 1.5 ft
Required Infiltrative Area: 1,038 ft ² (675 gpd/0.65 gpd/ft ²)	Drainfield Length (each side of DV): 650 / 667 ft
Infiltrative Area per Linear Ft Trench: 4 sq. ft.	Horizontal Drainfield Spacing: > 6 ft o.c.
Req. Trench Length (each side DV): 260 ft (1038 ft ² /4 ft/ft ²)	Depth to GW Below Trenches: 8 ft (SP1 & 3)
Required Depth to GW: 8 ft	
DV=Divertor Valve 1st & 2nd DF on lower elevation side of DV have 24" rock SP2 had refusal at 5 ft	

SITE LEGEND

- (N) EXTERIOR FLATWORK
- PROPOSED ADDITION
- (E) SFR
- PROPOSED DECK ADDITION

PLAN NORTH

THIS IS NOT A SURVEY