

A.V. ENVIRONMENTAL TECHNOLOGIES

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March 7, 2022

Chris Gibson
Land Use Program
Los Angeles County Environmental Health
26415 Carl Boyer Dr.
Santa Clarita, CA 91350

Preliminary Report

Subject : Percolation Test for APN 2845-024-034 Indian Mesa Drive, Sylmar, CA 91342

Contractor : Brother Plumbing & Septic Inc. (661-583-5915)

Dear Mr. Gibson:

As a result of a request for percolation tests on the subject site, presented herewith are the results as authorized for the subject property. The purpose of our services was to evaluate the percolation characteristics of the site soils relative to use for effluent disposal by leach line or leach bed systems. Presented in the following text is a description of the field methods used and the percolation rates obtained from the field testing program. The percolation test was conducted by Stephen Layne, owner of A.V. Environmental Technologies.

On February 25, 2022, six percolation holes were excavated using a backhoe to depths of five feet. At the bottom of these holes, a one-cubic foot hole was excavated. The one-cubic foot holes were then filled with water to pre-soak. The test holes were filled twice with 12 inches of water. The water seeped away completely in less than 10 minutes.

On the same day and after water in all the test holes drained completely, the one-cubic foot holes were refilled with water. The time required for the water level to drop between the fifth and sixth inch, as measured from the top of the one cubic foot hole, was utilized to obtain the percolation rate as per the L.A. County / Ryon Method.

A possible 3-bedroom dwelling is intended for the site. Testing was done to determine the suitability of the site to install a code-compliant septic system.

SUMMARY OF PERCOLATION TEST RESULTS**

TEST HOLE	DEPTH (feet)	PERC. RATE (min./inch)
T1	5'	6 min./inch
T2	5'	5 min./inch
T3	5'	3 min./inch
T4	5'	4 min./inch
T5	5'	6 min./inch
T6	5'	3 min./inch

*** These test results show the percolation characteristics at the test locations only. Percolation characteristics at other locations may be different.*

Based on the above data, it is our opinion that the site is suitable for use of a **leach-field or a leach bed sewage disposal system** relative to soil percolation rates. This conclusion is based on the assumption that the preliminary improvements include the construction of the septic system for a new 3-bedroom dwelling. Actual design of the disposal fields is dependent upon approval by the County of Los Angeles Department of Health Services.

PERCOLATION TEST DATA CALCULATIONS*

3-Bedrooms

Use 17 min. / inch $A = \frac{17 + 6.24 \times 1000}{29 \times 2} = 401$ Sq. Ft.
Present : (1) - 5' deep trench x 3' wide x 60' long - 3' of rock under pipe
Future : (1) - 5' deep trench x 3' wide x 60' long - 3' of rock under pipe (Adjacent to the original system)

**Ryon Method $A = \frac{T + 6.24 \times C}{29 \times 2}$ = Area of leach line*

The property, located at APN 2845-024-034, Indian Mesa Dr. Sylmar CA is an undeveloped lot. The lot is not relatively level. It has gentle to moderate slopes, however the leach line area is relatively level.

Vegetative growth on the lot consists of some native grasses and planted trees. The septic system will not be located within 10 feet of any tree. No evidence of springs or high ground water is present on this lot. Rock outcroppings are visible on the lot. Ground water depths in this area are known to be over 50' below the ground surface.

This property will be served by a private water well. A well located on an adjacent property as well as the proposed well for this property will not be within 100 feet of the proposed septic system.

TEST HOLE SIDEWALL PROFILES / OBSERVATIONS

TEST HOLE	DEPTHS	SIDE WALL DESCRIPTIONS
T1, T2, T3, T4, T5, T6	0' - 5' bgs*	Silty sand with rock
T7 (5' Profile)	0' - 10' bgs	Silty sand with rock

* bgs -below ground surface

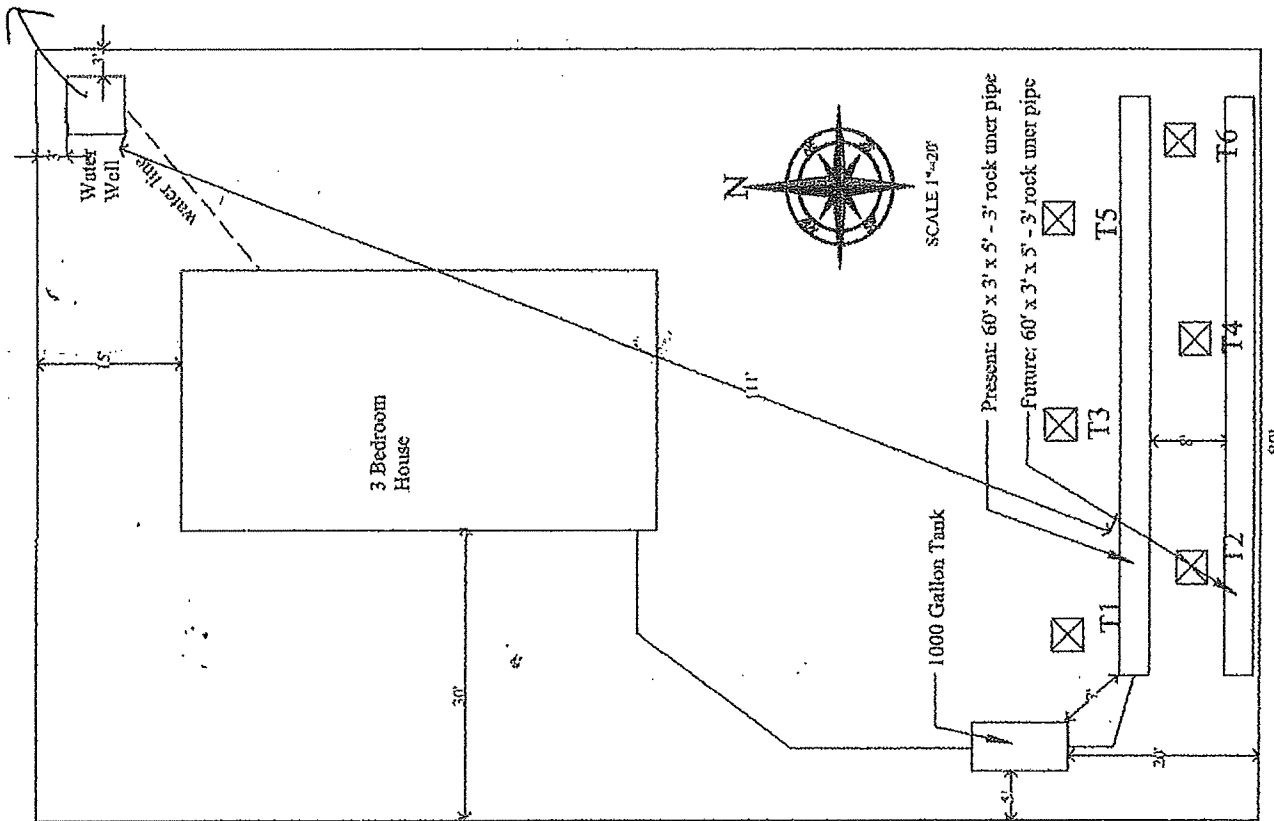
ADDITIONAL INFORMATION

SEPTIC TANK : New 1000 gallon tank
Recommendation: Jensen concrete pre-cast tank with Bituminous coating as per UPC. 24" diameter concrete risers with concrete or cast iron covers or PVC risers with bolt down plastic covers shall be installed for easy access for servicing

Prior to the percolation test, Test Hole T7 was excavated to a depth of 10'. The purpose of this excavation was to allow observation of the soils as they exist 5' below the bottoms of the leach line and 100% expansion areas.

It was noted during the deep excavation that the soils from 5' - 10' below the surface were similar to those observed at the proposed trench bottoms. Since the soil below the intended bottom of the leach line trenches was observed to be similar to levels at the trench bottoms, there will be no adverse effects of the soils below the bottoms of the leach line trenches on the percolation ability of the intended leach line.

Proposed



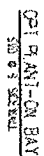
128'

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P.O. BOX 771
ACTON, CA 93510

Stephen Layne
Stephen Layne
REHS # 6470
Exp 12/31/23

INDIAN MESA DRIVE



DIVISIONS		REVISIONS		SKYLINE	
221 SUGARCREEN				2ND	
223 KENNESAW CITY				3RD	
X 220 SAN JACINTO				4TH	
327 WOODLAND				5TH	
329 NCMA				6TH	
341 DELTA				7TH	
343 LONE STAR				8TH	
345 MCINNISVILLE				9TH	
BOX LENGTH	52'-0"	DISCREPTION	528-XK 2B	DRAWING NUMBER	28-18/98
			5201A-(25-48/98)-12/9-2021		28-18/98-060

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RESIDENTIAL SEPTIC TANKS

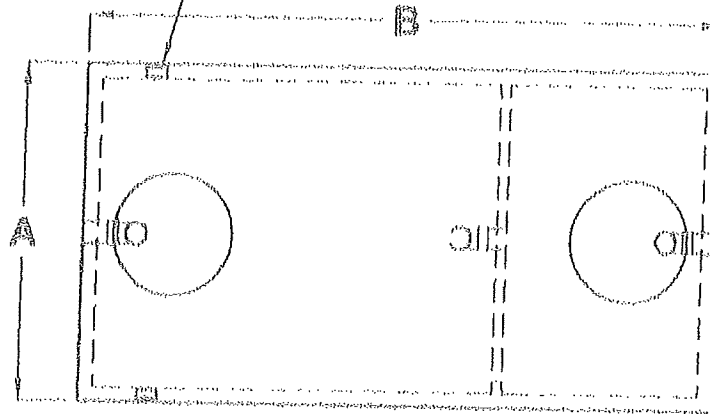
HAWAII

MODELS JS1000-JST5000

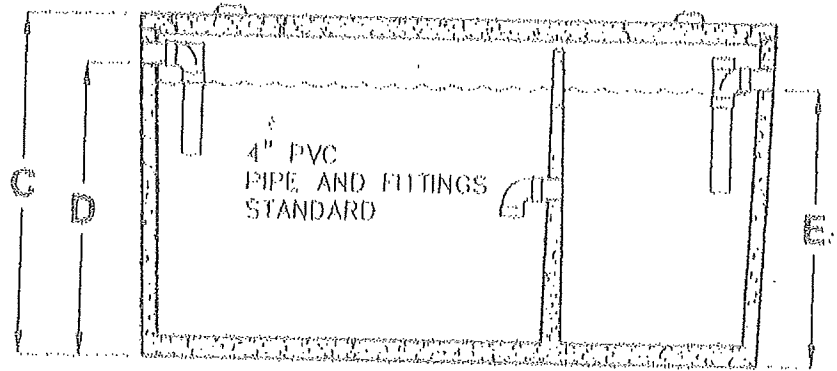
NON-TRAFFIC RATED

LISTED BY UPC®

OPTIONAL SIDE
LOCATION FOR INLET



PLAN VIEW



SIDE SECTION VIEW

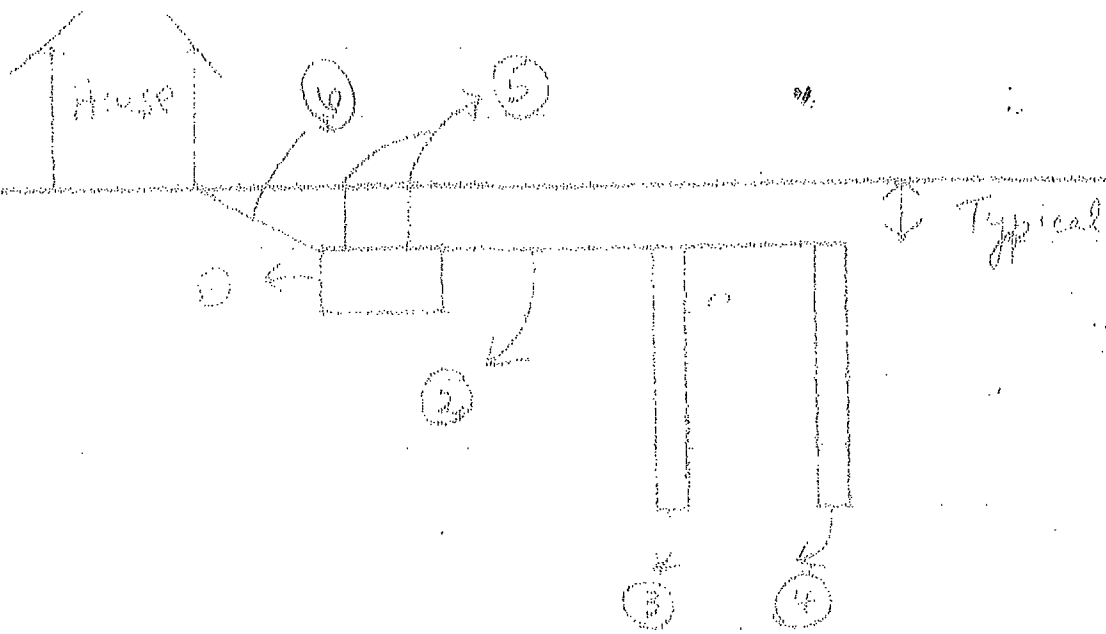
MODEL NUMBER	LIQUID CAPACITY (GALLONS)	WIDTH A	OVERALL LENGTH B	TANK HEIGHT C	INLET D	OUTLET E	MINIMUM EXCAVATION WIDTH	MINIMUM EXCAVATION LENGTH	TANK WEIGHT LBS.
JS-1000	1000	5'-1"	8'-2"	5'-8"	4'-10"	4'-7"	6'-1"	9'-2"	9,400
JS-1200	1200	5'-9"	8'-6"	5'-8"	4'-10"	4'-7"	6'-9"	9'-6"	10,600
JS-1250	1250	6'-4"	9'-2"	5'-1"	4'-2"	3'-11"	8'-0"	11'-0"	10,500
JST-1500	2000	6'-0"	10'-9"	5'-5"	4'-7"	4'-4"	7'-0"	12'-0"	12,000

DESIGN LOAD: NON-TRAFFIC WITH DRY SOIL CONDITIONS (WATER TABLE BELOW TANK)
EARTH COVER NOT TO EXCEED 500 PSF OR 3'.

BEDDING NOTE: SUITABLE SUB-BASE BEDDED WITH GRANULAR MATERIAL SHALL BE
PREPARED TO HANDLE ANTICIPATED LOADS.

EXTERIOR AND INTERIOR CONCRETE SURFACES TO BE COATED WITH AN APPROVED
BITUMINOUS MATERIAL.

FOR COMPLETE DESIGN AND PRODUCT INFORMATION
CONTACT JENSEN PRECAST.



Legend:

2 1000 gallon septic tank

3 Tight line 1/8" per foot min slope

4 present line

5 lines

6 Tight line 1/4" per foot min slope

Native	1.5' typical
1	0.5' pipe
gravel	3.0' gravel

4' perforated pipe

LIMITATIONS AND UNIFORMITY OF CONDITIONS

In addition to the percolation area indicated on the plot plans, it is necessary to provide free area for an expansion of 100% to the leach or seepage pit/pits.

The conclusions and recommendations submitted in this report are based in part upon the data obtained from percolation tests and observations.

In the event that changes in the nature or location of the proposed project are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and conclusions / specifications of this report are modified or verified in writing.

The consultant has prepared this report for the exclusive use of the Client and authorized agents. This report has been prepared in accordance with the Los Angeles County Dept. of Health Services protocols on private sewage disposal systems testing. No other warranties, either expressed or implied, are made as to the professional advice provided under the terms of this agreement and included in the report. The scope of this report and its conclusions are based solely on percolation testing and do not address any other possible geological considerations or hazards which would affect this property.

It should be recognized that this report does not guarantee issuance of grading or building permits. Any additional work which may be required after submittal of this report is not included as part of our initial agreement and will be billed at fee schedule rates applicable at the time of the additional work.

This report presents an accurate and complete disclosure of all facts known pertaining to the existing and / or proposed septic system on this property. We appreciate this opportunity to be of service. We trust that this report is sufficient at this time. If you have any questions regarding this information or require additional studies, please contact me.

This submittal is intended to represent a complete feasibility report (for the future/expansion dispersal areas) that conforms with the applicable provisions of the Los Angeles County Code -- Plumbing Section and the feasibility report requirements of the Department of Public Health -- Environmental Health.

Respectfully submitted,

A.V. Environmental Technologies

Stephen Layne

Stephen Layne

California Registered

Environmental Health Specialist # 6470

