VERTICAL SEEPAGE PIT CAPACITY TEST AND SOIL PROFILE RESULTS FORM

| Attach a fina | Qualifications diag | | sional to comple | | | | | | cita av | /aluation | review | |
|---|---------------------------------------|-----------------------|----------------------------|-----------|--------------|--------------------|------------|------------|------------|---------------|-----------|---------------|
| SITE LOCATION: | artest note locations diag | <u> įraili aliu a</u> | iny other imorni | CITY | | entation ap | piicabii | | N: | aluation | ieview. | |
| OWNER NAME: | | | | PHO | NE: | | | EN | MAIL: | | | |
| OWNER MAILING ADDRESS: | | | | CITY | | | | ZII | P : | | | |
| QUALIFIED PROFESSIONAL CO | MPANY: | | | | | | | | | | | |
| QUALIFIED PROFESSIONAL NA | ME: | | | PHO | NE: | | | EN | MAIL: | | | |
| DEHQ Percolation Permit | #• | | | Buil | dina Da | rmit/Land | leo Dr | oiect # | | | | |
| DENG Percolation Permit | #· | | | Duli | uniy Fe | illiivLailu (| USE FI | ojeci # | • | | | |
| Final Test Hole Locati | ons Diagram | | | | | | | | | | | |
| Attach a diagram showing th | ne final locations of all so | | | s, incl | uding the | ose test hol | es with | refusa | l, shall | ow grour | dwater, | or failing |
| capacity tests. May use prov | vided template or separa | ite diagram | 1. | | | | | | | | | |
| Capacity Test Summ | arv and Design Info | ormation | | | | | | | | | | |
| | , , , , , , , , , , , , , , , , , , , | Total See | | | | | Maga | ured 24 | 4 Uaum | | | |
| Total Septic Tank Capacity Required*: | gallons | | Page Pit Required**? | | | gallons | | | 4-⊓our | | | gallon |
| Does the 24-Hour Volume | meet the total minimur | m seepage | e pit capacity r | equire | d? | | | | , | Yes | No | |
| Does the 24-Hour Volume | meet the minimum cap | pacity requ | uirement for ea | ch ind | lividual | pit of 1,667 | 7 gallo | ns? | | Yes | No | |
| Number of accuracy with a | and of fau Drive au Pieu | | | Marian | | | | l £ [| 2000 | a Diame | | |
| Number of seepage pits not appear to the Number of Seepage pits not appear to | | ersai: | | Numi | per of se | epage pits | neede | ea for F | Keserv | e Disper | sai: | |
| **Required capacity is five time | | acity or 5,00 | 0 gallons/day min | imum, | whicheve | r is greater. | See Cap | pacity Ta | ables in | guidance | section. | |
| | | | | | | | | | | | | |
| Initial Site Screening | Information Percent Slope and De | scription F | Provide slope in | format | ion to sh | ow predom | inant r | ange of | slone | | | |
| Location | Slope Classes: 0-3% Nearly Level; 3- | -7% Gently Slopir | ng; 7-12% Strongly Sloping | j; 12-20% | Moderately S | loping; 20-30% Ste | ер; 30-40% | Very Steep | ;>40% Ext | remely Steep. | | |
| Tank Location Area | | | | | | | | | | | | |
| Primary Dispersal Area | | | | | | | | | | | | |
| Reserve Dispersal Area | | | T | | T | | | | | | | |
| Any plans or need for grad | ing of property or OWTS | areas? | Yes | No | If Yes | grading de | tail mu | st be in | cluded | in the O | WTS La | yout Report. |
| Is water well located up slo | | | | | Yes | No | NA | | | | | |
| Slope Instability Screening the below items are checken | | | | | | | feet of | propos | sed sep | tic syste | m locatio | ns. If any of |
| Unconsolidated Fill | Significant Erosion | Rills | Tension Crac | ΚS | Lean | ing Trees | E | vidence | of Pri | or Earth I | Moveme | nts or Slides |
| Other: | | | | | | | N | o instal | oility co | nditions | observe | d. |
| Describe location and exter | nt of rock outcroppings o | or otner sig | nificant features | (inclu | ae on di | agram): | | | | | | |

Test Hole Soil Description and Groundwater Check Initial boring total depth must be a minimum of 10 feet below design depth for groundwater check. For percolation rate equivalents to 1-5 minutes per inch, groundwater check is minimum 20 feet below design depth (see LAMP Section 6.3). Groundwater to be measured a minimum of *24-hours after completion of the test boring. For ongoing groundwater monitoring, use the Groundwater Monitoring form. Test Hole # ID: **Date Drilled:** Diameter: in Depth (ft) Soil Type Depth (ft) Soil Type Surface ft | Depth to Refusal: Total Depth: **Proposed Cap Depth:** ft Drill Date **Stabilized Groundwater** Stabilized Groundwater

Depth to Water:

ft

Check Date*:

ft

Depth to Water:

Testing Step 1: Presoak

The test hole shall be filled with water to the proposed cap depth and a continuous presoak shall be maintained at the proposed cap depth for a minimum 8hours. Where cap levels cannot be maintained during the presoak, maintain a continuous presoak to the alternative depth that is achievable. The remaining tests will be conducted at a depth no higher than this alternative presoak depth. Document the gallons of water used for the presoak. In no case shall less than 5,000 gallons of water be used within a 1-hour period in the attempted presoak when the cap or alternative water depth cannot be maintained. In no case shall the sidewall of permeable soil below the cap/alternative level be less than ten (10) feet.

| Presoak Test Date | e: | Test Hole Start Total D | epth: ft | Proposed Cap Depth: | ft |
|---|---|-------------------------|--|-------------------------------|---------|
| Water Filling Star | t Time: | Water Filling End Time | : : | Initial Volume of Water Used: | gallons |
| Initial Result: | 2) Water level unable to | reach proposed cap de | n and can be maintained a pth but can be maintained (minimum 5,000 gallons o | | |
| Presoak Start Tim | ne: | Presoak End Time: | | Presoak Total Time: | |
| | el Depth Maintained for Test: testing to be conducted at this level) | ft | Total Gallons of Water L Cap/Alternative Water L | | gallons |
| Is there a minimu sidewall available | m of 10 feet of below water level depth? | Yes No | For fast draining soils, v 5,000 gallons water use | | s No |

Testing Step 2: Soils Uniformity Test

Test Date:

Following the pre-soak, fill test hole to cap depth and measure water drop at 15-minute intervals, or more frequently if needed, until the drop stops or until test hole empties. Graph results (Graph Generator available for use) and attach. If results/graph shows non-uniform or varying rates in water level drop over time, the soil will be considered non-uniform and not suitable for vertical seepage pit dispersal system usage.

Test Start Time:

Test End Time:

| Test Total Time | : | hours | Test Hole Total | Depth Start: | ft | Water Level De | pth Start Test: | ft |
|-----------------|--------|-----------------------|-----------------|--------------|-----------------------|----------------|-----------------|-----------------------|
| Proposed Cap I | Depth: | ft | Test Hole Total | Depth End: | ft | Water Level De | pth End Test: | ft |
| Hour | Time | Depth Reading (ft) | Hour | Time | Depth Reading (ft) | Hour | Time | Depth Reading (ft) |
| 0.00 | | | 2.25 | | | 4.50 | | |
| 0.25 | | | 2.50 | | | 4.75 | | |
| 0.50 | | | 2.75 | | | 5.00 | | |
| 0.75 | | | 3.00 | | | 5.25 | | |
| 1.00 | | | 3.25 | | | 5.50 | | |
| 1.25 | | | 3.50 | | | 5.75 | | |
| 1.50 | | | 3.75 | | | 6.00 | | |
| 1.75 | | | 4.00 | | | 6.25 | | |
| 2.00 | | | 4.25 | | | 6.50 | | |

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Testing Step 3: Conduct either the Static Head or the Falling Head Absorption Capacity Test

Static Head Absorption Capacity 2-Hour Test

Fill test hole to cap depth and maintain water column at that level for a 2-hour period. The volume of water used to maintain the water column over the 2hour period is documented. The volume (in gallons) for the 2-hour test is multiplied by 12 to obtain a 24-hour capacity.

Adjust to 4-foot diameter test hole, if needed. Total minimum seepage pit capacity per day required is 5 times the required minimum septic tank capacity or

| minimum 5,000 gallons per day. Minimum per | seepa | ge pit capacity required is | 1,667 gallons per day. | | |
|---|-------|-----------------------------|--|------------------------|---------|
| Test Date: | | Test Hole Diameter: | in | Proposed Cap Depth: | ft |
| Test Start Time: | | Test End Time: | | Test Total Time: | hrs |
| Start Test Hole Total Depth: | ft | Test Start Water Depth: | ft | Total Volume Water | |
| End Test Hole Total Depth: | ft | End Test Water Depth: | ft | Used for 2-Hour Test: | gallons |
| Total Volume Water for 24-Hours: 2-Hour test result x 12 | | gallons | Adjusted Total Volum Convert to a 4' Diameter | me Water for 24-Hours: | gallons |

Falling Head Absorption Capacity Test- 2-Hour Test

Fill test hole to cap depth and monitor the water drop over a 2-hour period. The depth of water drop is measured at the completion of the 2-hour test and the amount of water absorbed calculated. The volume in gallons for the 2-hour test is multiplied by 12 to obtain a 24-hour capacity. Adjust to 4-foot diameter test hole, if needed

| noic, ii necaca. | noio, ii noodod. | | | | | |
|------------------------------|------------------|-------------------------|-------------------------|---------------------|-----|--|
| Test Date: | | Test Hole Diameter: | ft | Proposed Cap Depth: | ft | |
| Test Start Time: | | Test End Time: | | Test Total Time: | hrs | |
| Start Test Hole Total Depth: | ft | Test Start Water Depth: | ft | Total 2-Hour Test | | |
| End Test Hole Total Depth: | ft | End Test Water Depth: | ft | Water Drop: | ft | |
| Total Volume of Water in | | | Total Volume of Water i | n | | |

| Cubic Feet Used for 2-Hour Test: Volume in Cubic feet (ft³) = 3.142 x r² x h | | Gallons Used for 2-Hour Test: Volume in Gallons = volume (ft³) x 7.48 gallons/1ft³ | gallons |
|---|---------|--|---------|
| Total Volume Water for 24-Hours: (24-Hour Volume = 2-Hour Volume x 12) | gallons | Adjusted Total Volume Water for 24-Hours: Converted to a 4' Diameter Test Hole | gallons |

| Qualified Professional Comments: | |
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| Qualified Professional Comments: | |
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| Qualified Professional Certification/Stamp | |
| I hereby certify that the information provided on this form and the associated attachments is | accurate and true and representative of the site conditions. I |
| also certify that my license or registration is current and active, and the work was performed with all applicable San Diego County Ordinances, stat | in accordance with the scope of my license or registration, and |
| | |
| Qualified Professional Signature | Date |
| Taringa , 101000101101 Digitation | D uto |
| | |
| Print Name | Title/License or Registration No. |

Vertical Seepage Pit Soil Profile and Capacity Test Results Form

| | TEST HOLE LOCATIONS DIAGRAM |
|---|--|
| Ī | TEST HOLE LOCATIONS DIAGRAM Capacity Test Locations: Use this space or attach test hole diagram. Show parcel(s) boundaries, wells, structures, and other features. |
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Vertical Seepage Pit Guidance Tables and Information

| Minimum Single Family Dwelling Septic Tank and Seepage Pit Absorptive Capacities (minimum per individual seepage pit capacity is 1,667 gallons per day) | | | | | | | |
|---|---------------------------------|---|--|--|--|--|--|
| Number of Bedrooms Per Dwelling Unit | Minimum Tank Size Required | Minimum Total Absorptive Capacity Required (5x tank capacity) | | | | | |
| 1-3 | 1000 Gallons | 5000 Gallons | | | | | |
| 4 | 1200 Gallons | 6000 Gallons | | | | | |
| 5-6 | 1500 Gallons | 7500 Gallons | | | | | |
| 7-8 2000 Gallons 10000 Gallons | | | | | | | |
| Based on number of bedroom | s (LAMP Tables 7.2-1 and 7.2-2) | | | | | | |

| Minimum Multiple Dwelling Septic Tank and Seepage Pit Absorptive Capacities (minimum per individual seepage pit capacity is 1,667 gallons per day) | | | | | | | |
|--|---------------------------------|-------------------|---|--|--|--|--|
| Primary Dwelling | Second Dwelling | Minimum Tank Size | Minimum Total Absorptive Capacity Required (5x tank capacity) | | | | |
| 1 Bedroom | 1 Bedroom | 1000 Gallons | 5000 Gallons | | | | |
| 2 Bedrooms | 1 Bedroom | 1200 Gallons | 6000 Gallons | | | | |
| 2 Bedrooms | 2 Bedrooms | 1500 Gallons | 7500 Gallons | | | | |
| 3 Bedrooms | 1 Bedrooms | 1500 Gallons | 7500 Gallons | | | | |
| 3 Bedrooms | 2 Bedrooms | 1500 Gallons | 7500 Gallons | | | | |
| 4 Bedrooms | 1 Bedrooms | 1500 Gallons | 7500 Gallons | | | | |
| 4 Bedrooms | 2 Bedrooms | 2000 Gallons | 10000 Gallons | | | | |
| Based on number of bedroom | ns (LAMP Tables 7.2-1 and 7.2-2 | 2) | · | | | | |

| Static Head Test: Minimum Volume in Gallons Needed Over 2-Hour Test for Test Hole to Absorb | | | | | | | | |
|---|-----------------|-----------------|-----------------|------------------|--|--|--|--|
| 1667 Gallons | 5000 Gallons | 6000 Gallons | 7500 Gallons | 10000 Gallons | | | | |
| 139 | 417 | 500 | 625 | 833 | | | | |

| Diameter of Test Hole | Volume per 1 ft depth (gallons) | 1667 Gallons | 5000 Gallons | 6000 Gallons | 7500 Gallons | 10000 Gallons |
|--------------------------|---------------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| 4.0' | 94.01 | 1.48' | 4.43' | 5.32' | 6.65' | 8.86' |
| 3.5' | 71.98 | 1.93' | 5.79' | 6.95' | 8.68' | 11.58' |
| 3.0' | 52.88 | 2.63' | 7.88' | 9.46' | 11.82' | 15.76' |
| 2.0' | 23.5 | 5.91' | 17.73' | 21.28' | 26.60' | 35.46' |
| 1.0' | 5.88 | 23.63' | 70.86' | 85.03' | 106.29' | 141.72' |

Vertical Seepage Pit Guidance Tables and Information - Continued

Falling Head Calculations

- 1) Convert 2-hour test water drop in feet to volume in cubic feet. 3.142 x radius² x height = Volume in Cubic feet (ft³)
- 2) Convert 2-hour test volume in cubic feet to volume in gallons. Volume (ft³) x 7.48 gallons/1ft³ = Volume in Gallons
- 3) Determine 24-hour test volume.
- 2-Hour Test Volume x 12 = 24-Hour Volume
- 4) Adjust 24-hour test volume to a 4-foot diameter test hole (if needed). See Below for Example and Conversion Factor Table.

24-Hour Volume x conversion factor = 24-Hour Volume for 4 feet diameter test hole

Example for a 30' water drop in a 3' diameter over a 2-hour test period:

- 1) Convert to cubic feet: 3.142 x (1.5 ft)² x 30 ft = 3.142 x 2.25 ft² x 30 ft = 212 ft³
- 2) Convert to gallons: 212 ft³ x 7.48 gal/ft³ = 1586 gallons
- 3) Convert to 24-hours: 1586 x 12 = 19,032 gallons
- 4) Adjust to 4-foot diameter test hole: 19,032 gallons x 1.33 = 25,313 gallons

| Conversion to a 4' Diameter Test Hole | | | | | | | |
|---|-------------------------|-----|----------------------|--|--|--|--|
| Measured 24-Hour Volume x Conversion Factor = Adjusted 24-Hour Volume | Conversion Factor Table | | | | | | |
| 1) Divide 4' by test hole diameter (x') = conversion factor (or use conversion factor from table) | From Diameter (ft) | | Conversion Factor | | | | |
| 2) Multiply the measured volume by the conversion factor to get the final volume for a 4' diameter test | 1.0 | 4.0 | 4.0 | | | | |
| | 2.0 | 4.0 | 2.0 | | | | |
| Example for a 3' diameter test hole with a measured volume of 19032 gallons: | 3.0 | 4.0 | 1.33 | | | | |
| 4' diameter ÷ 3' diameter = 1.33 conversion factor | 3.5 | 4.0 | 1.14 | | | | |
| 19032 gallons measured volume x 1.33 conversion factor = 25,313 Gallons for 4' Diameter Test Hole | 4.0 | 4.0 | 1.0 | | | | |