COUNTY OF LAKE
HEALTH SERVICES DEPARTMENT
Division of Environmental Health
Lakeport:
922 Bevins Court, Lakeport, CA 95453-9739
Telephone 707/ 263-1164 FAX: 263-1681
Lower Lake:
16185 Main Street, Lower Lake, CA 95457
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Ruth Lincoln PHN, MA
Health Services Director

Raymond Ruminski, R.E.H.S.
Environmental Health Director

September 23, 2002

James Mahoney
10336 Loch Lomond Road #145
Middletown, CA 95461

RE: 050-784-03
14862 Grouse Rd, Cobb

Dear Mr Mahoney:

I have completed a soil study of the above referenced property for an On-Site Sewage Disposal System in the area that you indicated. The test pit excavations should be back-filled without delay. On the basis of this study the site appears suitable for on-site sewage disposal. Approval of the permit to install is contingent on the size of system and proposed layout of the lot. A copy of the study is attached and the results are as follows:

This site has been approved for an Alternative Seepage Trench System.

A minimum of 63 lineal feet of drainfield will be required per bedroom or 150 gallons of flow. This is to be an equal or serial distribution system. Trench depth is not to exceed 48 inches, nor be shallower than 48 inches with 36 inches total rock.

LOW FLUSH TOILETS OF 1.6 GALLONS OR LESS REQUIRED.

Maintain 3.3:1 ratio setback from all cuts greater than 30" in height.

Drainfields must be installed on contour in the area as shown on the attached Report of Evaluation. Drainfield installation is not permitted on ground that has been altered by cutting or filling.

Any person other than the property owner must be licensed by the State of California to install and/or construct a septic system. A construction permit must be obtained from this office prior to installation of this system.

Please feel free to contact this office at (707) 263-1164 if you should have any additional questions regarding this report.

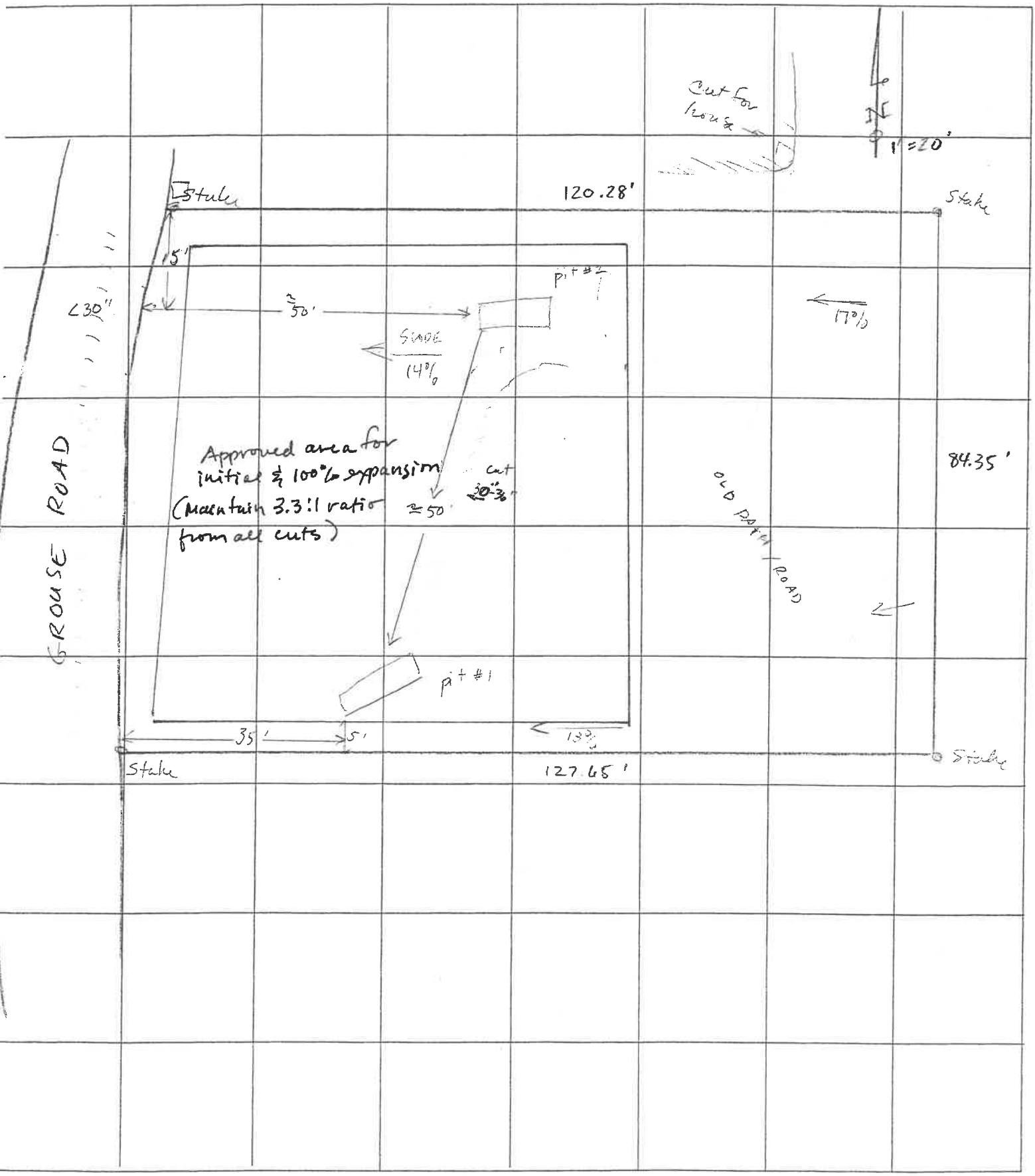
Sincerely,

Patricia A. Levine

Patricia A. Levine, R.E.H.S.
Registered Environmental Health Specialist

Applicant Name: James D Mahoney Evaluator: P. Levine

APN: 050 -- 784 -- 03 Date: 9/20/02



SITE EVALUATION REPORT

Applicant Name: James D Mahoney Evaluator: P. Levine
APN: 050 - 784 - 03 Date: 9/20/02

Pit # 1 Depth: 0-24"

Rock Fragments: <15% (15%-30%) >35% (fine gravel)
Texture: Gr. Clay Loam
Color: (Matrix) 7.5YR 3/4
Mottles: Color
Abundance: <2% 2-20% >20%
Size <5mm 5-15mm >15mm
Contrast: faint distinct prominent
Structure: Grade - weak (moderate) strong
Type - gr pl pr cpr abk (sbk)
Consistence: wet - stickiness so ss s vs
plasticity po ps p vp
Roots: few (common) many
very fine fine medium (coarse)
.1-.5mm .5-2mm 2-5mm 5-10mm+
Horizon - Distinctness: a c (g) d
Topography: s (w) l b
Groundwater - Depth: actual
predicted

Pit # 1 Depth: 24-48"

Rock Fragments: <15% 15%-30% >35%
Texture: Clay Loam
Color: (Matrix) 7.5YR 4/6
Mottles: Color
Abundance: <2% 2-20% >20%
Size <5mm 5-15mm >15mm
Contrast: faint distinct prominent
Structure: Grade - weak (moderate) strong
Type - gr pl pr cpr abk (sbk)
Consistence: wet - stickiness so ss (s) vs
plasticity po ps (p) vp
Roots: (few) common many
very fine (fine) medium coarse
.1-.5mm .5-2mm 2-5mm 5-10mm+
Horizon - Distinctness: a c (g) d
Topography: s (w) l b
Groundwater - Depth: actual
predicted

Pit # 1 Depth: 48-64"

Rock Fragments: <15% (15%-30%) >35% (continues)
Texture: SiCl
Color: (Matrix) 7.5YR 4/4
Mottles: Color
Abundance: <2% 2-20% >20%
Size <5mm 5-15mm >15mm
Contrast: faint distinct prominent
Structure: Grade - weak moderate (strong)
Type - gr pl pr cpr abk sbk
Consistence: wet - stickiness so ss (s) vs
plasticity po ps (p) vp
Roots: (few) common many
very fine fine medium coarse
.1-.5mm .5-2mm 2-5mm 5-10mm+
Horizon - Distinctness: a c g d
Topography: s w l b
Groundwater - Depth: actual
predicted

pores: common F throughout

Pit # 2 Depth: 0-28"

Rock Fragments: <15% (15%-30%) >35%
Texture: Gr. L
Color: (Matrix)
Mottles: Color
Abundance: <2% 2-20% >20%
Size <5mm 5-15mm >15mm
Contrast: faint distinct prominent
Structure: Grade - weak moderate strong
Type - gr pl pr cpr abk sbk
Consistence: wet - stickiness so ss s vs
plasticity po ps p vp
Roots: few common many
very fine fine medium coarse
.1-.5mm .5-2mm 2-5mm 5-10mm+
Horizon - Distinctness: a c g d
Topography: s w l b
Groundwater - Depth: actual
predicted

Similar to #1

Pit # 2 Depth: 28-46"

Rock Fragments: <15% 15%-30% >35%
Texture:
Color: (Matrix)
Mottles: Color
Abundance: <2% 2-20% >20%
Size <5mm 5-15mm >15mm
Contrast: faint distinct prominent
Structure: Grade - weak moderate strong
Type - gr pl pr cpr abk sbk
Consistence: wet - stickiness so ss s vs
plasticity po ps p vp
Roots: few common many
very fine fine medium coarse
.1-.5mm .5-2mm 2-5mm 5-10mm+
Horizon - Distinctness: a c g d
Topography: s w l b
Groundwater - Depth: actual
predicted

Pit # 2 Depth: 46-66"

Rock Fragments: <15% (15%-30%) >35% (continues)
Texture:
Color: (Matrix)
Mottles: Color
Abundance: <2% 2-20% >20%
Size <5mm 5-15mm >15mm
Contrast: faint distinct prominent
Structure: Grade - weak moderate (strong)
Type - gr pl pr cpr abk sbk
Consistence: wet - stickiness so ss s vs
plasticity po ps p vp
Roots: (few) common many
very fine (fine) medium coarse
.1-.5mm .5-2mm 2-5mm 5-10mm+
Horizon - Distinctness: a c g d
Topography: s w l b
Groundwater - Depth: actual
predicted

Slope 13-17% Aspect W
Other Site Notes Forest: large incense cedar fir

$\frac{4 \times 125}{3+(2)(2.5)} = \frac{500}{8} = 63'$

System Specifications

Design Flow _____ gpd

Initial Seepage Trench System Size 63 / 150 q Maximum Depth Absorption Facility (in) 48"
Replacement ~~Seepage Trench~~ System Size 63' / 150 q Maximum Depth Absorption Facility (in) 48"
Special Conditions
Maintain 3:1 ratio setback from cuts > 30".