



COUNTY OF LAKE

HEALTH SERVICES DEPARTMENT

Division of Environmental Health

922 Bevins Court

LAKEPORT, CALIFORNIA 95453-9739

Telephone 707/ 263-2222

Lower Lake Office

Telephone 707/ 994-2257

Ruth Lincoln PHN, MPA
Health Services Director

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

June 15, 2001

William Gonsalves
19389 Donkey Hill Road
Middletown, CA 95461

RE: APN 141-481-04
19531 Park Ridge Drive
Middletown, CA

Dear Mr. Gonsalves:

I have completed a soil study of the above-referenced property for an On-site Sewage Disposal System in the area selected. 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 the system and the proposed layout of the lot. A copy of the site evaluation report is attached and the results are as follows:

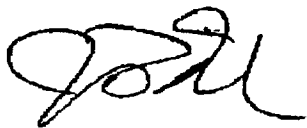
1. The site has been approved for a Standard Septic System for the primary leach field, and a Capping Fill System for the expansion area. Installation of Capping Fills shall conform to the requirements of LCR 1-150. See the attached excerpt from the Onsite Sewage Disposal Rules.
2. The primary leach field shall be located in the area near test pit number 1 and shall have ninety-four (94) feet of drainfield line per bedroom or 150 gallons of flow. This is to be either an equal, serial, or pressure distribution system. Trench depth is not to exceed 24 inches, nor be shallower than 24 inches with 12 inches total rock.
3. The expansion area leach field shall be located in the area near test pit number 3 and shall have ninety-four (94) feet of drainfield line per bedroom or 150 gallons of flow. This is to be either an equal, serial, or pressure distribution system. Trench depth is not to exceed 20 inches, nor be shallower than 20 inches with 12 inches total rock. Sixteen (16) inches of fill cap material is required for cover.
4. Low-flush toilets rated at 1.6 gallons or less are required and sizing credit has been given for their use.
5. The drainage along the west property line must be cement lined and a 10 foot set back must be maintain between the lined trench and the leach field.

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 Division prior to installation of this system.

Please feel free to contact this office at (707) 994-2257 should you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink, appearing to read 'John McLaughlin', written in a cursive style.

John McLaughlin
Senior Environmental Health Specialist

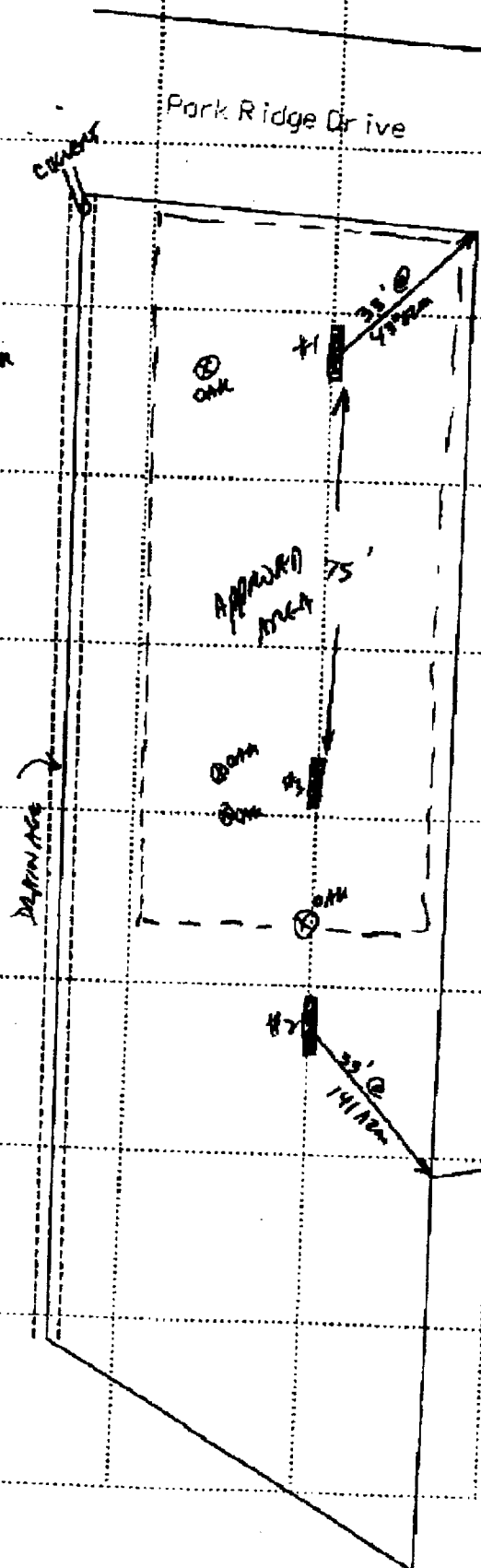
cc: M. Williams

Applicant Name: GONSALVES

Evaluator: John McLaughlin

APN: 141-481-04

Date: 6-14-01



SITE EVALUATION REPORT

Applicant Name: GONSARUCS
 APN: 141-481-04

Evaluator: John McLaughlin
 Date: 6-14-01

Pit # 1 Depth: 0-31
 Rock Fragments: <15% 15%-30% >35%
 Texture: CLAY
 Color (Matrix): SYR 4/3
 Mottles: Color 10
 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 h
 Groundwater - Depth: actual 31"
 predicted 31"

139 @ 191 AM

Pit # 1 Depth: 31-60
 Rock Fragments: <15% 15%-30% >35%
 Texture: DENSE CLAY
 Color (Matrix): SYR 4/3
 Mottles: Color 10
 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 h
 Groundwater - Depth: actual 0
 predicted 0

NOT EFFECTIVE SOIL

Pit # 2 Depth: 0-15"
 Rock Fragments: <15% 15%-30% >35%
 Texture: CLAY
 Color (Matrix): SYR 4/3
 Mottles: Color 10
 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 h
 Groundwater - Depth: actual 0
 predicted 0

Pit # 2 Depth: 15-60
 Rock Fragments: <15% 15%-30% >35%
 Texture: DENSE CLAY / LOAM
 Color (Matrix): SYR 4/3
 Mottles: Color 10
 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 h
 Groundwater - Depth: actual 0
 predicted 18"

NOT EFFECTIVE

Pit # 3 Depth: 0-26
 Rock Fragments: <15% 15%-30% >35%
 Texture: CLAY
 Color (Matrix): SYR 4/3
 Mottles: Color 10
 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 h
 Groundwater - Depth: actual 0
 predicted 0

SUCCE 5/15/02
9:00 15 AM TO N.E. CORNER

Pit # 26-60
 Rock Fragments: <15% 15%-30% >35%
 Texture: DENSE CLAY
 Color (Matrix): SYR 4/3
 Mottles: Color 10
 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 h
 Groundwater - Depth: actual 0
 predicted 0

NOT EFFECTIVE

Landscape Notes BLUE OAKS GRASSES ROCK OUTCROPPING
 Slope 1 Aspect ASPECT

Other Site Notes DRAINAGE COURSE ON WEIR PL MUST BE CEMENT LINED TO BUILD SPILL SYSTEM 430" DEEP

System Specifications
 Initial STANDARD System Size 94 / 150 q Design Flow 24" gp
 Replacement CAPPING FILL System Size 94 / 150 q Maximum Depth Absorption Facility (in) 24"
 Special Conditions NATIVE SOIL Maximum Depth Absorption Facility (in) 20"
CAPPING FILL WITH 16" COVER OVER DRAIN ROCK - 4" COVER OVER