Preliminary Stormwater Control Plan

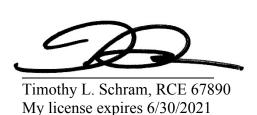
For the

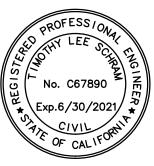
Schematic Design

6638 Yount Street. Yountville, California APN 036-010-008

> JN 19216 January 31, 2020

Prepared for: Tammy & Tom Kiely 3434 Washington Street California 94599





Prepared by:



1220 N. Dutton Ave., Santa Rosa, CA 95401 P. (707) 541-2300 F. (707) 541-2301

Website: www.adobeinc.com

Prepared By: KM
Checked By:____

- I. Project Data Form
- II. Project Setting

 - a. Nature and Purpose of the Projectb. Existing Site Features and Conditionsc. Runoff Reduction Measures and Stormwater Control

Appendices

Appendix A – Vicinity Map

Appendix B – Stormwater Control Plan Exhibit

Appendix C – Soil Analysis

Preliminary Stormwater Management Plan For Schematic Design 6638 Yount Street. Yountville, California

I. Project Data Form

Project Name	Kiely Residence	
Application Submittal Date	September 2019	
Project Location	6638 Yount Street	
Project Phase No.	N/A	
Project Type and Description	Small Project/ Single Family Residence	
Total Project Site Area	0.28 acres	
Total New and Replaced Impervious	5,583 SF	
Surface Area		
Total Pre-Project Impervious Surface	5,248 SF	
Area		
Total Post-Project Impervious Surface	5,985 SF	
Area		
Runoff Reduction Measures Selected	Disperse Runoff to Vegetated Area	

II. Project Setting

A. Nature and Purpose of the Project

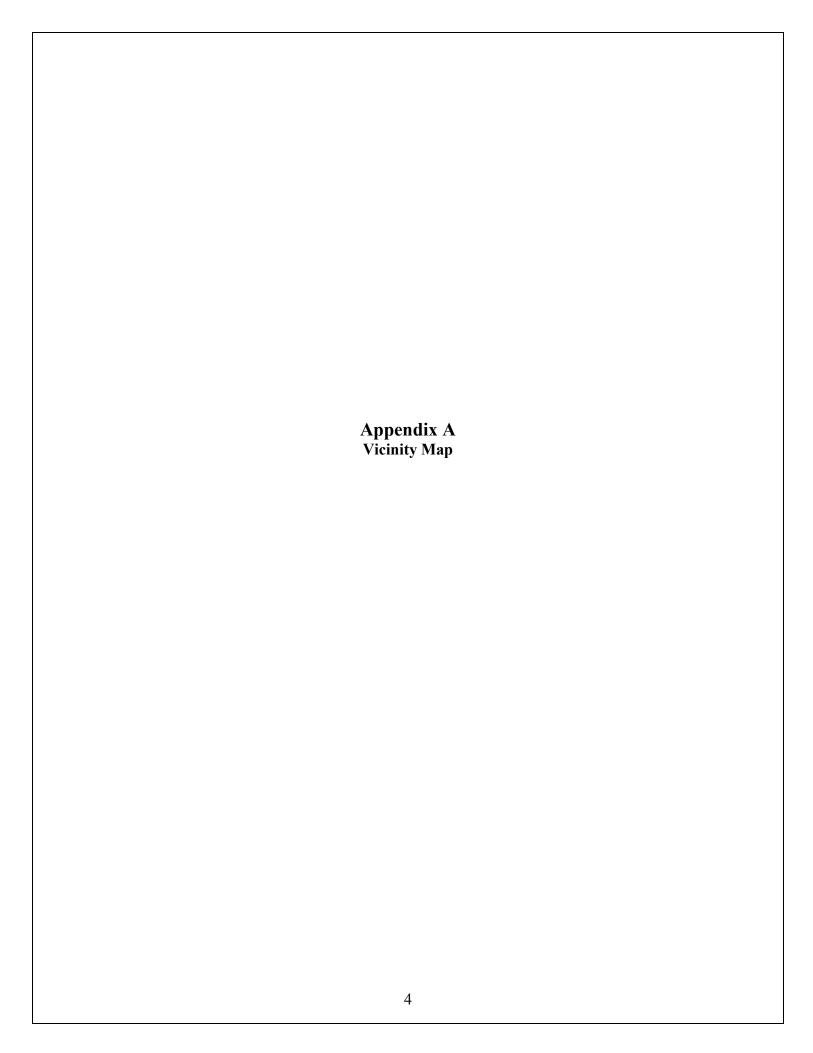
The Schematic Design Review of this project proposes the construction of a new private residence, A.C driveway, garage, ADU, and other associated landscaping and hardscaping.

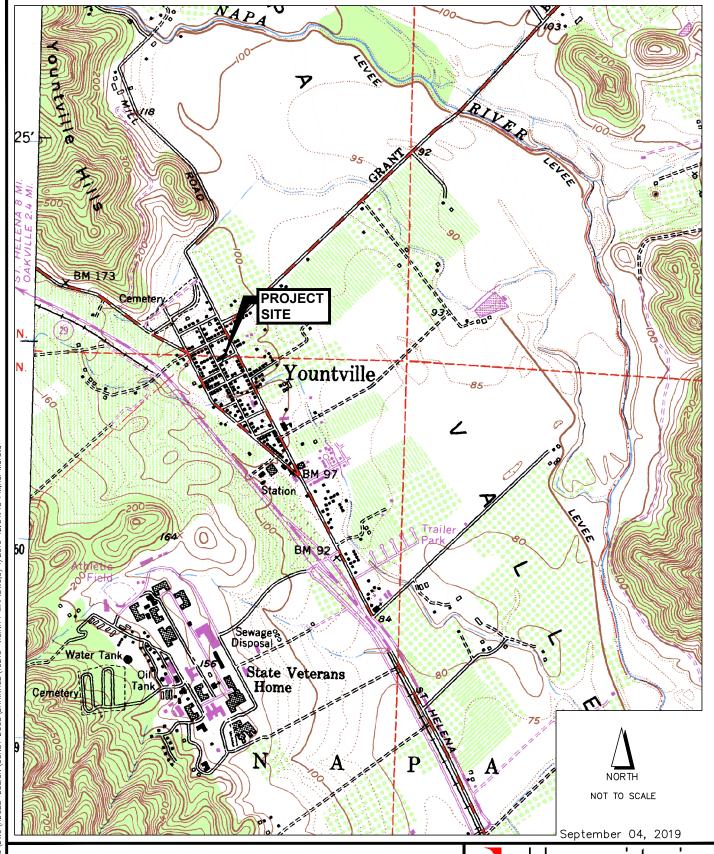
B. Existing Site Features and Conditions

The existing site is located within the City of Yountville, see the **Vicinity Map** in **Appendix** A. The parcel is 0.28 acres and is currently vacant. The land slopes Northeast to Southeast draining into hopper creek. Average slopes on the site range from 0% to 2%. Runoff currently sheet flows towards hopper creek. The soil type belongs to hydrologic Soil Group D, see **Soils Analysis** in **Appendix D**.

C. Runoff Reduction Measures and Stormwater Control

Pursuant to the BASMAA Post — Construction Manual, this project is classified as a small project/ single family home. Due to limited space on site, runoff reduction will be achieved through dispersal of runoff to vegetated areas. Vegetated areas have been designed to meet the stated minimum. Runoff from the impervious areas will be directed towards existing vegetation, see BASMAA Exhibit in Appendix B and Vegetation Sizing in Appendix C





VICINITY MAP

Kiely Residence 6638 Yount Street, Yountville, CA

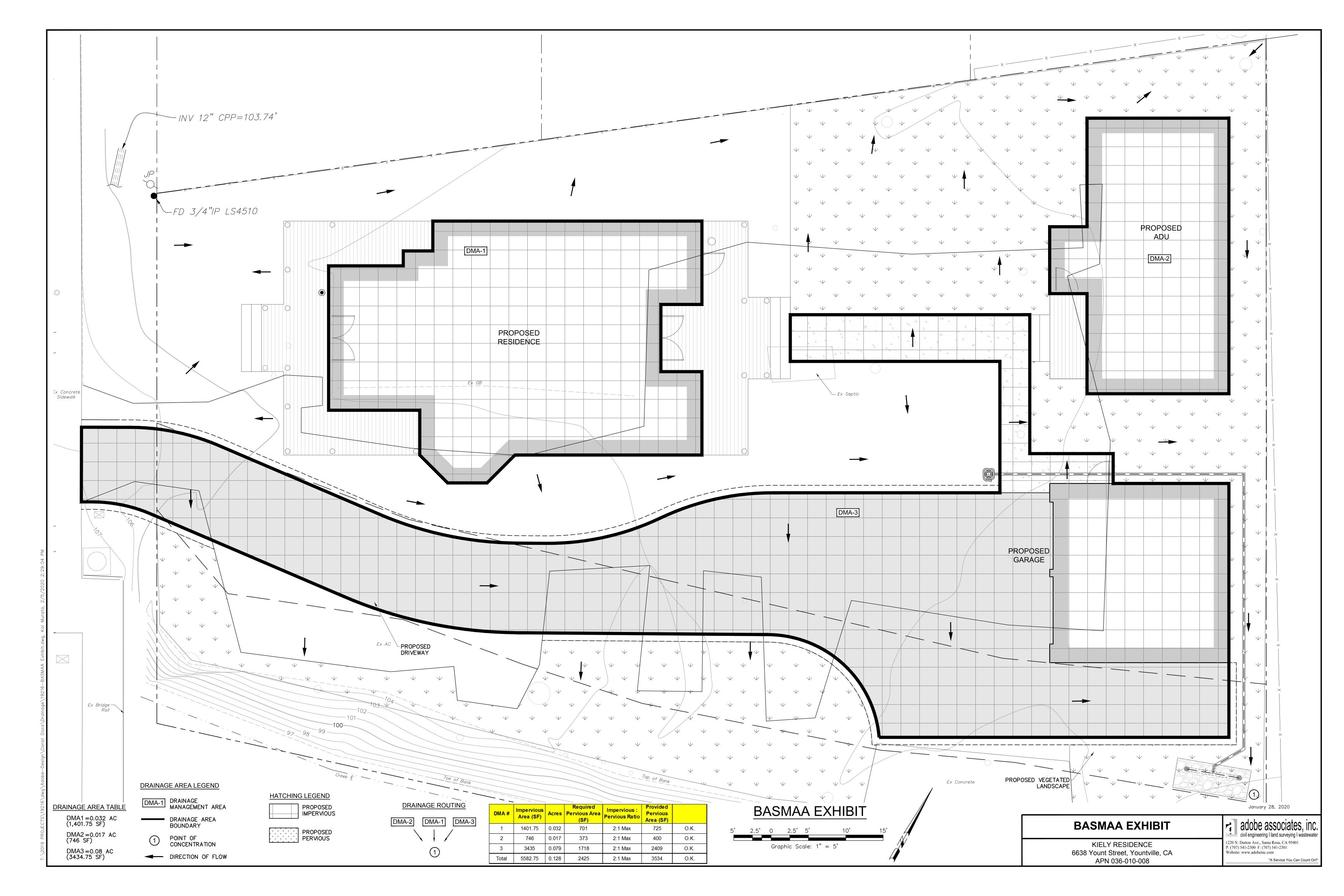


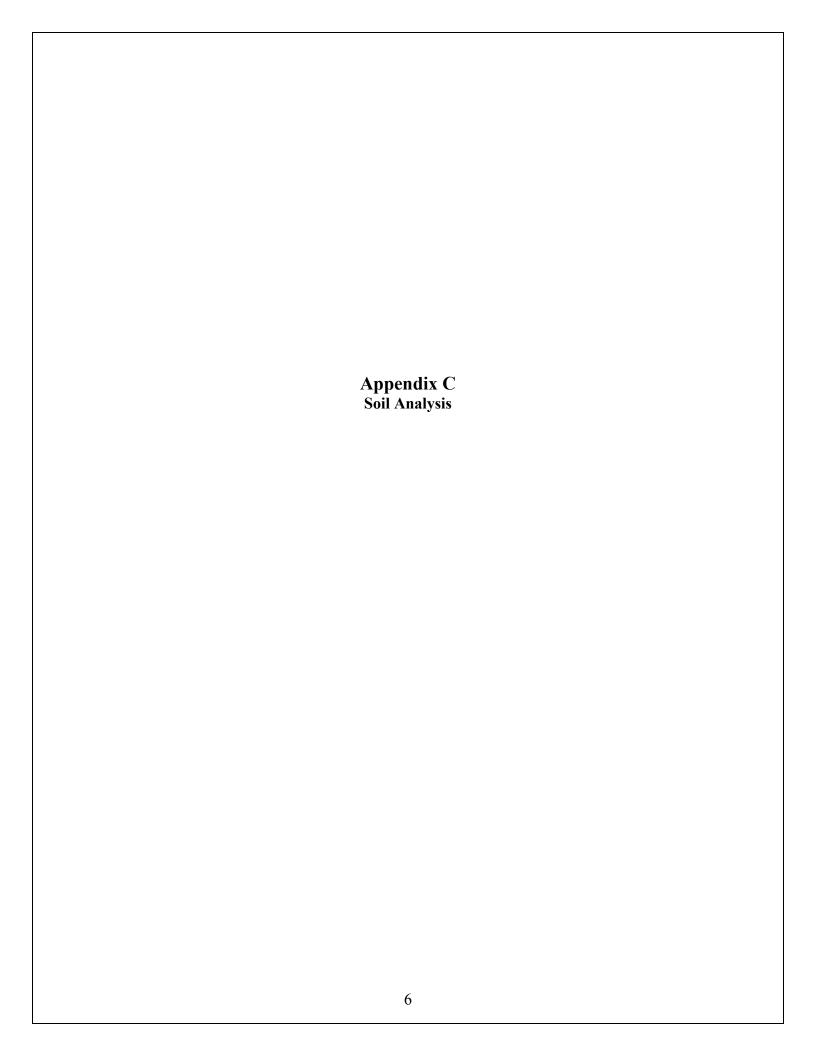
civil engineering I land surveying I wastewater

1220 N. Dutton Ave., Santa Rosa, CA 95401 P. (707) 541-2300 F. (707) 541-2301 Website: www.adobeinc.com

"A Service You Can Count On!"









MAP LEGEND

â

00

Δ

Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Rock Outcrop

Perennial Water

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Napa County, California Survey Area Data: Version 11, Sep 12, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 15, 2019—Apr 10, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
122	Coombs gravelly loam, 0 to 2 percent slopes	6.1	100.0%
Totals for Area of Interest		6.1	100.0%

Napa County, California

122—Coombs gravelly loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hdkq

Elevation: 50 to 500 feet

Mean annual precipitation: 24 to 30 inches Mean annual air temperature: 59 to 63 degrees F

Frost-free period: 220 to 260 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Coombs and similar soils: 85 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Coombs

Setting

Landform: Alluvial fans, terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope, tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Alluvium derived from sedimentary rock and/or

alluvium derived from igneous rock

Typical profile

H1 - 0 to 14 inches: gravelly loam

H2 - 14 to 54 inches: clay loam, gravelly clay loam H2 - 14 to 54 inches: very gravelly loamy fine sand

H3 - 54 to 60 inches:

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

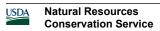
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Available water storage in profile: Very high (about 16.2 inches)

Interpretive groups

Land capability classification (irrigated): 2s Land capability classification (nonirrigated): 3s



Hydrologic Soil Group: C Hydric soil rating: No

Minor Components

Clear lake

Percent of map unit: 5 percent Landform: Alluvial fans Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Napa County, California Survey Area Data: Version 11, Sep 12, 2018