

OFFICE OF THE AGRICULTURAL COMMISSIONER

Tony Linegar
Agricultural Commissioner
Sealer of Weights and Measures



133 Aviation Blvd., Suite 110
Santa Rosa, CA 95403-1077
Phone (707) 565-2371 Fax (707) 565-3850
www.sonoma-county.org/agcomm

PERMIT APPLICATION FOR
AGRICULTURAL GRADING, DRAINAGE,
AND/OR VINEYARD/ORCHARD SITE
DEVELOPMENT (VESCO)

Form with checkboxes for VINEYARD, ORCHARD, REPLANT, NEW, AG GRADING, AG DRAINAGE IMPROVEMENT. Includes instruction 'Check all that apply'.

OFFICE USE ONLY (05/05/2014)
Date Received: ___ / ___ / ___
Fee Paid: \$ ___ AC#: ___
Date Permit Issued: ___
Issued By: ___
ACO#: ___
SITE ADDRESS: ___
APN#(s): ___
Level I, Level II, Tree Removal, Cohesionless Soils, Engineered Grading, Regular Grading, Engineered Drainage, Regular Drainage.

PART A-Contact Information

PROPERTY OWNER/APPLICANT NAME _____

DBA _____

MAILING ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ FAX _____ CELL _____

EMAIL ADDRESS _____

PROJECT MANAGER NAME (ON-SITE) _____

MAILING ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ FAX _____ CELL _____

EMAIL ADDRESS _____

PROJECT ENGINEER NAME _____

MAILING ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ FAX _____ CELL _____

EMAIL ADDRESS _____

Note: Permit must be approved before any work begins. Incomplete applications will not be accepted.
Applications submitted after September 15th may not be able to be issued in the same calendar year.
An intake appointment is required when submitting an application. Call 707-565-2371 to schedule.

PROJECT DETAILS

SITE ADDRESS _____

ASSESSOR'S PARCEL NUMBER(S) _____

TOTAL ACREAGE OF PARCEL(S) _____

ACREAGE OF SOIL DISTURBANCE _____

ACRES TO BE PLANTED / REPLANTED _____

ACRES OF TREES TO BE REMOVED _____

EXISTING VINEYARD/ORCHARD ACREAGE _____

EXISTING LAND USE AND VEGETATION (Check One):

AG CROP PASTURE RANGELAND TIMBERLAND OTHER: _____

NRCS SOIL TYPE(S) _____

HIGHEST NATURAL SLOPE _____

METHOD USED TO DETERMINE SLOPE (Check One):

USGS TOPO CLINOMETER FIELD SURVEY Other: _____

PROJECTS WITH GRADING

TOTAL VOLUME OF CUTS (in yd³) _____

TOTAL VOLUME OF FILLS (in yd³) _____

GREATEST SLOPE CREATED BY CUTS _____

GREATEST DEPTH OF CUT SLOPES CREATED _____

HEIGHT OF CUT-SLOPES CREATED _____

HIGHEST NATURAL SLOPE OF GRADING AREA _____

ACRES TO BE GRADED _____

FILL MATERIAL(S) TO BE USED: ROCK SOIL OTHER _____

IS THE PROJECT WITHIN A (check all that apply):

SPECIAL FLOOD HAZARD AREA YES NO
Describe: _____

FLOOD-PRONE URBAN AREA: YES NO
Describe: _____

GEOLOGICAL HAZARD AREA COMBINING DISTRICT: YES NO
Describe: _____

PROJECTS WITH DRAINAGE

TYPE(S) OF DRAINAGE IMPROVEMENT: CIRCULAR PIPE VEE DITCH SHEETFLOW

CROSS-SECTIONAL AREA (SQ FT) OF DRAINAGE IMPROVEMENT: _____

ACRES OF DRAINAGE BASIN AFFECTED BY DRAINAGE IMPROVEMENT _____

SITE DETAILS

HYDROLOGY (Follow setbacks in accordance with Sonoma County Code, Chapter 11 and Best Management Practices for Agricultural Erosion and Sediment Control- available at www.sonoma-county.org/agcomm/vesco.htm)

List the hydrologic features (perennial and ephemeral streams, wetlands, ponds, etc) that occur in the development area. Include planned setback requirements.

SENSITIVE SITES

Identify areas (critical habitat, riparian areas, archeological sites, etc.) in the development area that may need to be protected from erosion or sedimentation. Refer to U.S. Fish & Wildlife Service’s Critical Habitat Mapper to find out if your project is in a sensitive habitat-available at: ecos.fws.gov/crithab.

VEGETATION

Describe the proposed changes to species composition (tree removal, riparian restoration, etc.) in the development area.

BEST MANAGEMENT PRACTICES (BMPs)

FARMING PRACTICES

List which land preparation strategies (ripping, discing, terracing, dry farming, etc.) are planned in the development area.

DRAINAGE

Describe the drainage structures that are proposed in the development area (check where appropriate and describe below):

- SURFACE SHEET FLOW CIRCULAR PIPE VEE-DITCH SUB-DRAIN

ROADS AND AVENUES

Choose the type of roads and avenues that are proposed in the development area: (check where appropriate and describe below):

- ALL-WEATHER ROCKED GRASSY AVENUES INSLOPED OUTSLOPED
- WATER BARS OTHER

EROSION AND SEDIMENTATION CONTROLS

Choose the appropriate BMPs that are proposed to control erosion and sedimentation in the development area: (check where appropriate and describe below)

- COVER CROP STRAW MULCH STRAW WATTLES JUTE NETTING STRAW BALE DIKES
- VEGETATED FILTER STRIPS OTHER

TIMELINE

Include all phases of the project (including Agricultural Grading and/or Drainage Improvements), list implementation dates for both temporary and final erosion and sediment control measures.

FOR OFFICE USE ONLY

Other permits that may be required (May include but not limited to):

- VESCO Permits expire five (5) years from date they are issued
- Grading/Drainage Permits expire three (3) years from date they are issued
- Biological Assessments or Studies expire three (3) years after they are conducted
- Agricultural Grading, Agricultural Drainage, and Vineyard/Orchard Site Development is prohibited during the “Rainy Season” (see below)
 - All site preparation and winterization for new development, grading and drainage shall occur between April 1 and October 15.
 - All site preparation and winterization for replanting projects shall occur between April 1 and November 15.

PROJECT AUTHORIZATION DECLARATION

I, _____ declare under penalty of perjury that the information provided in connection with this application is true and correct to the best of my knowledge. I understand that issuance of a permit does not relieve me of the obligation to comply with other federal, state, or local laws or regulations, or from liability for violations of those laws and regulations. I acknowledge that the County is not authorizing a take of any federal or state endangered species by issuance of this permit, and I further declare under penalty of perjury that a biological assessment or study has been prepared for the site by a qualified expert with respect to impacts on endangered species. I have reviewed the opinion of the qualified expert and will take all steps necessary, based on this opinion, to comply with any applicable provisions of the state and federal endangered species acts, and all other applicable state and federal laws. I waive any claims of liability for damages against the County of Sonoma and its contractors, and agree to indemnify the County of Sonoma and its contractors from and against any claims, suits, or liabilities, arising out of activities I undertake based on the issuance of this permit. I further understand that if a permit is not issued within one year following the filing of a permit application, the permit application shall expire without any further action by the Agricultural Commissioner. The Agricultural Commissioner may grant one 180-day extension, if the applicant files a written request before expiration of the original one-year period and shows that the extension is warranted due to a lawsuit, permit authority error, or other circumstances beyond the control of the applicant. Otherwise a new, complete permit application and associated fees must be submitted. I further understand that VESCO permits expire five years from the issue date and Grading and Drainage permits expire three years from the issue date.

Additional fees may apply if more than two site inspections or two reviews of the project application, plans, and related documents are required to be performed. If additional fees are applied, they will be based on the hourly rates, which can be found on page seven of this packet, and be billed by the ¼ hour. The applicant will be billed for the actual time spent to provide these services and payment will be due within 30 days. Applicant understands and agrees that the applicant is responsible for paying these costs even if the application is withdrawn.

I authorize entry by the Agricultural Commissioner’s Office and its contractors onto all areas where development is occurring under this permit at all reasonable times or whenever an emergency exists to determine whether I am complying with permit terms.

Applicant/Owner Signature* _____ **Date** _____

Title _____

**Application for permit must be authorized by the owner of the property. If not signed by the owner, written consent from the owner must be included with the application packet.*

APPLICATION CONTENTS CHECKLIST (see pages 7-9 for explanation of levels and fees)

Vineyard/Orchard Development Projects (Online mapping resources available at: www.sonoma-county.org/prmd/activemap/. Search for your project parcel(s) and activate air photo/USGS layers)

Level I Projects

- USGS 7 ½ minute Quadrangle Map (including parcel boundaries) with areas to be planted or replanted outlined
- Recent color aerial photo (taken within the last two years) with areas to be planted or replanted outlined
- Completed Application Packet (including parcel owners signature or written consent)
- Appropriate Fees
- Completed Biological Assessment or Study of project area. This is required for all projects but report submittal is only required if it delineates or makes recommendations regarding wetland setbacks, stream setbacks, lake or pond setbacks, or makes other setback recommendations. Additional information located at www.sonoma-county.org/agcomm/pdf/biological_resource_study_or_assessment_guidelines.pdf
- Crop Acreage Survey (Attachment 1)
- Frost Protection Registration or Negative Declaration Form required for new or amended systems using water in the Russian River watershed (Attachment 2) Additional information located at www.sonoma-county.org/agcomm/frost_protection.htm

Level II Projects (all above, and below where appropriate)

- Three copies of the project's Engineered Erosion Control Plans
- Electronic copy of the project's Engineered Erosion Control Plans (via email or on physical media) Two copies of Sheetflow Calculation Documents required for all Level II projects (reference document located at www.sonoma-county.org/agcomm/pdf/sheetflow_reference_sheet.pdf)
- Completed Tree Removal Worksheet www.sonoma-county.org/agcomm/pdf/tree_removal_worksheet.pdf where applicable (not required for grading and drainage)
- Certified Engineering Geologist Report identifying areas of slope instability and /or cohesionless soils

All Levels with Agricultural Grading and/or Drainage Projects (all above and below where appropriate)

- Three copies of the project's Engineered Grading, and/or three Drainage Improvement Plans, Drainage Report, and Geotechnical Report
- Drainage Report (see below for link to content requirements)

Grading and Drainage Projects

- For Drainage requirements, refer to PRMDs Drainage Report Required Contents (DRN-006) www.sonoma-county.org/prmd/docs/handouts/drn-006.pdf

For Grading requirements, refer to PRMDs Grading Permit Required Application Contents (GRD-004) www.sonoma-county.org/prmd/docs/handouts/grd-004.pdf

Project Fees*

	Acreage of Development			
	Less than 10	10 to less than 50	50 to less than 100	100 or More
VESCO ONLY, NO GRADING OR DRAINAGE IMPROVEMENT				
Level 1	\$653	\$1,232	\$1,597	\$2,059
Level 2	\$4,353	\$6,434	\$8,191	\$10,830
Level 2 with Tree Removal, Without Cohesionless Soils	\$7,013	\$9,772	\$12,711	\$16,742
Level 2 with Tree Removal, With Cohesionless Soils	\$7,330	\$11,484	\$13,286	\$17,507
VESCO WITH AGRICULTURAL GRADING AND/OR AGRICULTURAL DRAINAGE IMPROVEMENTS				
Level I VESCO				
Regular Drainage; Regular Grading; or Regular Drainage w/ Regular Grading	\$1,164	\$1,616	\$1,981	\$2,443
Engineered Drainage; Engineered Grading; Engineered Drainage w/ Regular Grading; or Regular Drainage w/ Engineered Grading	\$2,072	\$2,993	\$3,812	\$4,896
Engineered Drainage w/ Engineered Grading	\$2,503	\$3,567	\$4,574	\$5,893
Level II VESCO, No Tree Removal				
Regular Drainage; Regular Grading; or Regular Drainage w/ Regular Grading	\$4,836	\$6,967	\$8,766	\$11,467
Engineered Drainage; Engineered Grading; Engineered Drainage w/ Regular Grading; or Regular Drainage w/ Engineered Grading	\$5,574	\$7,898	\$10,025	\$13,142
Engineered Drainage w/ Engineered Grading	\$6,839	\$9,217	\$11,779	\$15,476
Level II VESCO With Tree Removal, Without Cohesionless Soils				
Regular Drainage; Regular Grading; or Regular Drainage w/ Regular Grading	\$7,397	\$10,156	\$13,095	\$17,126
Engineered Drainage; Engineered Grading; Engineered Drainage w/ Regular Grading; or Regular Drainage w/ Engineered Grading	\$8,241	\$11,257	\$14,613	\$19,145
Engineered Drainage w/ Engineered Grading	\$9,364	\$12,720	\$16,632	\$21,830
Level II VESCO With Tree Removal, With Cohesionless Soils				
Regular Drainage; Regular Grading; or Regular Drainage w/ Regular Grading	\$7,714	\$11,868	\$13,670	\$17,891
Engineered Drainage; Engineered Grading; Engineered Drainage w/ Regular Grading; or Regular Drainage w/ Engineered Grading	\$8,662	\$13,534	\$15,377	\$20,162
Engineered Drainage w/ Engineered Grading	\$9,924	\$15,750	\$17,649	\$23,183
AGRICULTURAL GRADING AND/OR DRAINAGE IMPROVEMENT ONLY (NO VESCO)				
Regular Drainage; Regular Grading; or Regular Drainage w/ Regular Grading	\$1,196	\$1,260	\$1,450	\$1,577
Engineered Drainage; Engineered Grading; Engineered Drainage w/ Regular Grading; or Regular Drainage w/ Engineered Grading	\$2,027	\$2,511	\$3,154	\$4,011
Engineered Drainage; Engineered Grading; or Engineered Drainage w/ Engineered Grading	\$2,807	\$3,257	\$4,146	\$5,329

* These fees include VESCO fees as adopted by the Board of Supervisors (resolution 13-0155) and a \$50 fee for the filing of CEQA Notice of Exemption. Include \$64.00 Frost Protection Registration Fee if applicable (See Attachment 2).

Other Service Fees	
Pre-Application Consultative Services (see website for details)	At Cost (see rates below)
Additional On-Site Inspections (see website for details)	At Cost (see rates below)
Additional Review of Revisions to project plans (multiple revisions)	At Cost (see rates below)
Review of Revisions to Previously Accepted Projects	At Cost (see rates below)

At Cost Hourly Rates	
Position Title	Hourly Cost (1/4 hr. minimum)
Agricultural Commissioner’s Office Staff	\$130.00
Assistant Geologist or Senior Technician	\$91.00
Assistant Engineer	\$110.00
Staff Engineer	\$125.00
Senior Geologist	\$133.00
Associate Engineer	\$145.00
Principal Engineering Geologist	\$179.00
Senior Geotechnical Engineer	\$190.00

VESCO Level Determination		
	Level I	Level II
Planting area with no highly erodible soils	15% or less natural slope	Steeper than 15% natural slope
Replanting area with no highly erodible soils	30% or less natural slope	Steeper than 30% natural slope
Planting area with any highly erodible soils	10% or less natural slope	Steeper than 10% natural slope
Replanting area with any highly erodible soils	15% or less natural slope	Steeper than 15% natural slope
Planting with tree removal, natural slope descending below ridgetop (see Flowchart for New Development Projects)	50% or less natural slope for more than 500' in slope length above designated stream	Steeper than 50% natural slope for more than 500' in slope length above designated stream
Planting with tree removal, location of ridgetop (see Flowchart for New Development Projects)	Not on a designated watershed or sub-watershed divide	On a designated watershed or sub-watershed divide
<p>TYPES OF HIGHLY ERODIBLE SOILS: Diablo, Los Osos, Goldridge, Dibble, Suther, Steinbeck, Laughlin PLANTING ON SITES WITH NATURAL SLOPE GREATER THAN 50% IS PROHIBITED. TREE REMOVAL ON SITES WITH NATURAL SLOPE ABOVE 40% ON COHESIONLESS SOILS IS PROHIBITED</p>		

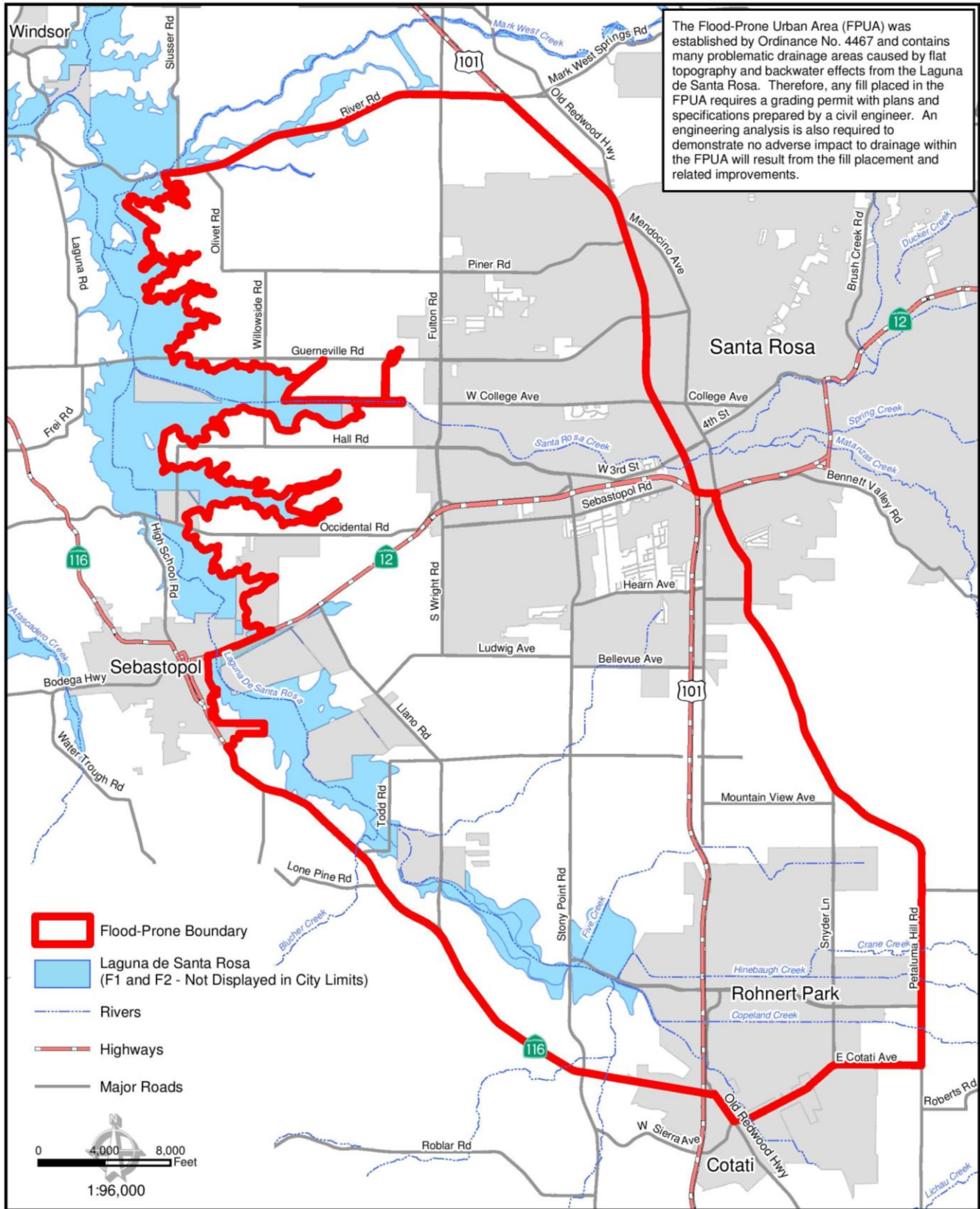
Grading Type Determination		
	Regular	Engineered
Volume (combined total of cut and fill)	Does not exceed 5,000 cubic yards	Exceeds 5,000 cubic yards
Cut	No greater than 2 feet in depth and does not create a cut slope greater than 5 feet in height	Greater than 2 feet in depth or creates a cut slope greater than 5 feet in height
Fill in the flood-prone urban area or any special flood hazard area	Does not exceed 50 cubic yards	Exceeds 50 cubic yards
Fill outside the flood-prone urban area and any special flood hazard area	No greater than 3 feet in depth	Greater than 3 feet in depth
Natural slope of grading area	No steeper than 15 percent	Steeper than 15 percent
Geologic Hazard Area Combining District	Grading area is not in the Geologic Hazard Area Combining District	Grading area is wholly or partially in the Geologic Hazard Area Combining District ¹
Geologic hazards	Grading area contains no geologic hazards	Grading area contains any geologic hazards ²

Notes:

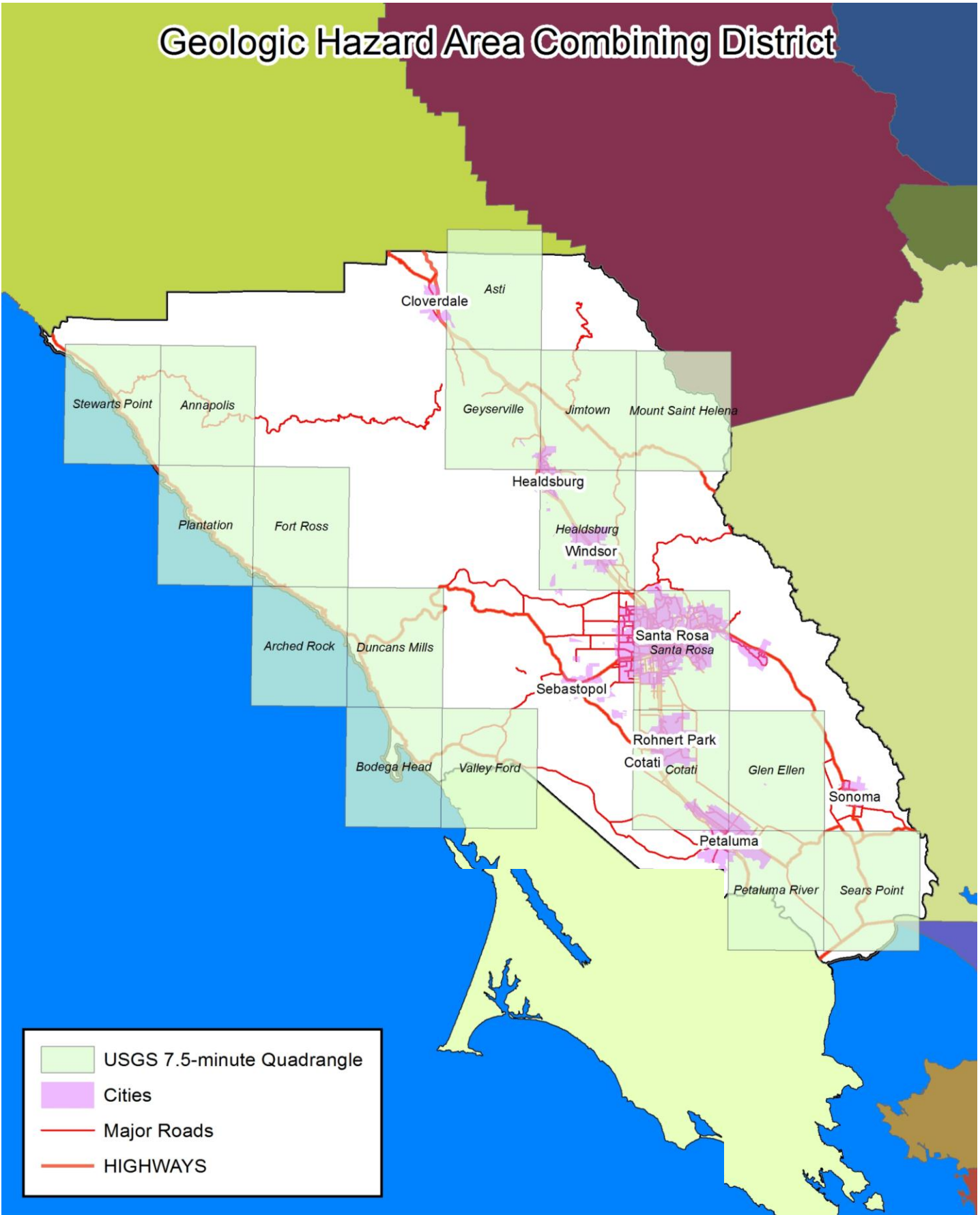
1. The engineered grading designation shall apply only to the portion of the grading area that is in the Geologic Hazard Area Combining District.
2. The engineered grading designation shall apply only to the portion of the grading area that is directly affected by the geologic hazards.

Drainage Improvement Type Determination		
	Regular Drainage Improvement	Engineered Drainage Improvement
Cross-sectional area of drainage improvement	Does not exceed 2 square feet	Exceeds 2 square feet

FLOOD-PRONE URBAN AREA

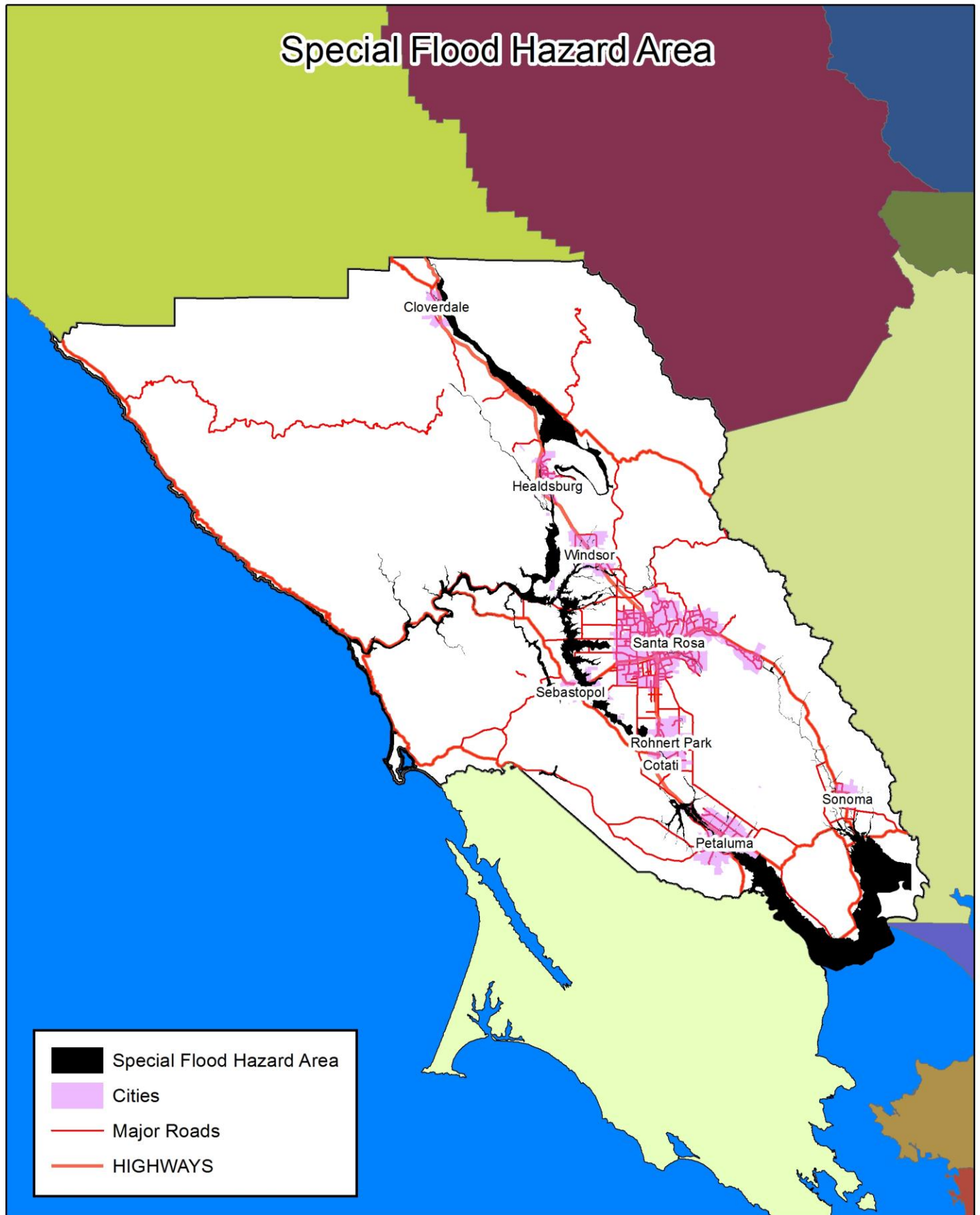


Geologic Hazard Area Combining District



- USGS 7.5-minute Quadrangle
- Cities
- Major Roads
- HIGHWAYS





Part A

- Check the appropriate boxes to characterize your proposed development (New, Replant, Vineyard, Orchard, Grading, Drainage, etc)
- Please provide the site and mailing addresses, the contact numbers, and email addresses of the following entities: the Property must have a legal address listed with Sonoma County PRMD (See www.sonoma-county.org/prmd/faq/rdname-addr.htm for more information)
- Owner (legal owner of the parcels under development); the Project's Manager; and the Project's Engineer (if applicable)

Part B

- List the address of the project development site (as it appears on the Sonoma County Assessor's parcel records)
- List the assessor's parcel number(s) for the development site (as listed in the Sonoma County Assessor's parcel records)
- List the total acreage of the parcel(s) where the proposed project is to take place
- List the total acres of soil disturbance; including the areas to be planted/replanted, avenues, staging areas, etc.
- List the total acreage of the areas to be planted or replanted
- List the total acres of tree canopy to be removed
- List the total existing (pre-development) acreage of vineyard or orchard crops on the parcels to be developed
- Check the appropriate box that characterizes the previous land use (Ag Crop, Pasture, Rangeland, Timberland, Other)
- List the soil type(s) of the site from the NRCS (USDA) Soil Survey for Sonoma County
- List the highest natural slope of the site. This may be accomplished using a USGS 7 ½ minute quad map, by taking clinometer readings at set distances parallel with the slope, a professional survey, or other method
- List the total volume of proposed cuts in cubic yards
- List the total volume of proposed fill in cubic yards
- List the steepest slope of cut slopes proposed to be created
- List the depth of cut slopes proposed to be created
- List the height of cut slopes proposed to be created
- List the steepest natural slope of the proposed grading area
- List the proposed acres to be graded
- List the fill material(s) to be used
- Indicate if the project within a: Special Flood Hazard Area, or a flood-prone urban area, or a geological hazard area combining district
- Note the type(s) of drainage techniques utilized in the project drainage plans
- List the cross-sectional area (sq ft) of drainage improvement
- List the catchment area acreage included in engineered drainage design

Part C

- List any hydrologic features (perennial and ephemeral streams, wetlands, ponds, etc) that occur in the vicinity of the site development area. Include planned setback requirements on all features
- Identify areas (critical habitat, riparian areas, etc) that may that need to be protected from erosion or sedimentation
- Describe the proposed changes to species composition (tree removal, riparian restoration, etc) in the development area
- List which land preparation strategies (ripping, discing, terracing, dry faming, etc) are planned in the development area
- Describe the drainage structures are proposed in the development area (check where appropriate and describe below)
- Describe the type of roads and avenues that are proposed in the development area
- Describe the appropriate Best Management Practices that are proposed to control erosion and sedimentation in the development area
- List implementation dates for temporary and final erosion and sediment control measures. Include all phases of the project

Part D

- Verify that all the required items are included
- Have the parcel owner (or authorized representative) complete the Project Authorization Declaration statement

If you are unsure about any of the practices that may be necessary to prevent erosion and sedimentation movement from your site, the following references could be helpful. These are available at the Sonoma County Agricultural Commissioner's Office webpage (www.sonoma-county.org/agcomm/vesco.htm).

- **"Best Management Practices for Agricultural Erosion and Sediment Control"**
- **Sonoma County Code, Chapter 11**
- **"The Vineyard Site Assessment Guide"**

Other available resources include:

- **"The Vineyard Manual"** -available at the Sonoma RCD at www.sonomarcd.org/
- **"Fish Friendly Farming"** -available through the California Land Stewardship Institute at www.fishfriendlyfarming.org/
- **"Reducing Risks through Sustainable Winegrowing: A Grower's Guide"**-available through California Sustainable Winegrowing Alliance at www.sustainablewinegrowing.org/agrowersguide.php

The two Resource Conservation Districts (RCDs) in Sonoma County are also valuable sources of information and guidance:

- Gold Ridge Resource Conservation District www.goldridgercd.org (707) 823-5244
- Sonoma Resource Conservation District www.sonomarcd.org (707) 569-1448

Other Agencies

California Department of Forestry & Fire Protection
Sonoma-Lake-Napa Unit
Saint Helena
707-967-1400

California Department of Fish & Game
Bay Delta Region Headquarters
Napa
707-944-5500

California Department of Water Resources
Sacramento
916-653-5791

California Regional Water Quality Control Board
North Coast Region
Santa Rosa
707-576-2220

National Marine Fisheries Service
Habitat Conservation Division
Santa Rosa
707-575-6050

Natural Resource Conservation Service
Petaluma
707-794-1242 x3

Sonoma County Assessor (Assessor)
Santa Rosa
707-565-1888

Sonoma County Permit & Resource Management Department
Santa Rosa
707-565-1900

United States Army Corps of Engineers
Regulatory Branch, North Section Chief
San Francisco
415-503-6795

United States Fish & Wildlife Service
Sacramento
916-414-6600

University of California Cooperative Extension-Sonoma
Santa Rosa
707-565-2621

Agricultural Drainage Improvement Any drainage improvement for agricultural cultivation.

Agricultural Grading Any grading for agricultural cultivation. As used in this chapter, agricultural grading does not include grading for roads, dams, reservoirs, lakes, ponds, or pads for structures.

Area of Instability An area of soil or rock prone to mass wasting, including slides, falls, slumps, and flows.

Drainage Improvement Any manmade improvement constructed to collect and convey storm water. As used in this chapter, drainage improvement includes construction, maintenance, repair, replacement, and modification of such improvements

Excavation The removal of earth material by artificial means, also referred to as a cut.

Fill The deposition of earth material by artificial means. As used in this chapter, fill does not include soil amendment and fertilizing materials.

Flood-Prone Urban Area The area within the boundaries defined on the north by River Road; on the west by the easterly boundary of the Laguna de Santa Rosa to its intersection with Highway 12 and continuing with the easterly limit of the city of Sebastopol to Highway 116; on the south by Highway 116 to its intersection with Old Redwood Highway then south to East Cotati Avenue and east to its intersection with Petaluma Hill Road; and on the east by Petaluma Hill Road, north to Highway 12 then west to Highway 101 and north to River Road.

Geologic Hazard A geologic condition, either natural or man-made, that poses a potential danger to life and property. Examples include landslides, flooding, faulting, beach erosion, land subsidence, pollution, waste disposal, and foundation and footing failures.

Geologic Hazard Area Combining District See Article 70 of Chapter 26 and Article XXV of Chapter 26C of this code.

Grading. An excavation or fill or combination thereof. As used in this chapter, grading does not include ripping, disking, plowing, harrowing, tilling, land planing no greater than 3 feet in depth, or other similar routine agricultural cultivation practices.

Natural Slope The slope of the ground prior to any soil disturbance. Natural slope shall be determined by measuring the horizontal distance between adjacent contours on a USGS 7.5 minute quadrangle map or other topographic map acceptable to the county with a scale of not less than 1:24000 (1 = 2000') and contour intervals of not more than 20 feet, and then dividing the difference in elevation between the two contours by the measured horizontal distance. The horizontal distance shall be measured perpendicular to the contours.

Planting Area The land area subject to a vineyard or orchard planting.

Ridgetop A relatively flat topographic divide above divergent and descending slopes where one or more of the descending slopes has a natural slope steeper than 50 percent for more than 50 feet in slope length.

Site Clearing Any removal of vegetative ground cover that results in disturbance of soils, or any removal of existing agricultural plants, vines, or trees.

Slope An inclined surface, the inclination of which is expressed as a ratio of horizontal distance to vertical distance (e.g., 2:1) or as a percentage (e.g., 50 percent).

Stream Any natural channel with bed and banks containing flowing water or showing evidence of having contained flowing water (e.g., deposit of rock, sand, gravel, or soil).

Soil Disturbance Any alteration to the natural surface of the ground through the use of construction equipment, tractors, and similar equipment.

Special Flood Hazard Area Any area designated by the Federal Emergency Management Agency as subject to flooding by the one (1) percent annual chance flood (one hundred-year flood).

Top of Bank The points in a cross-section where the stream channel makes a transition to flood plain. Top of bank can be identified by a change in the slope of the land, a transition from terrestrial to riparian vegetation, and/or changed in the composition of substrate materials.

Tree A woody perennial plant, typically large with a well-defined stem carrying a definite crown, with a minimum diameter at breast height of five inches, and a minimum height of 15 feet.

Tree Removal The removal of more than one-half acre of tree canopy within the planting area.

Vegetative Filter Strip A land area seeded to close growing or sod forming grasses, designed to filter out soil and other pollutants carried in storm water or waste water.

Vineyard Replanting Any replanting of an existing vineyard where the vineyard has been under active cultivation for the previous five years, no grapevines are removed prior to the filing of a permit application for the replanting, and the footprint of the vineyard does not increase.

Wetlands Transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. Wetlands must have one or more of the following three attributes in the Coastal Zone, and two or more of the following three attributes in all other parts of the unincorporated are of the county:

1. The land supports predominantly hydrophytes during the normal wet portion of the growing season.
2. The substrate is predominantly undrained hydric soil.
3. The substrate is saturated with water or covered by shallow water at some time during the normal wet portion of the growing season of each year.

Wetlands Biologist A biologist experienced and knowledgeable in the delineation of wetlands in California using applicable federal, state, and local criteria.

Attachment 1

Confidential Crop Acreage Survey

Please complete this form and return with your Vineyard/Orchard Development Permit. This information will be used to update the Agricultural Commissioner's vineyard and orchard acreage statistics used in the annual Sonoma County Agricultural Crop Report. This report promotes the value and importance of our County's agricultural industry. All information that you provide us will be kept confidential, and only grand totals are made public.

Date _____ Pesticide Permit Number _____ Site Number _____

Operator Name _____ Owner Name _____

Parcel Address _____

Parcel APN Number(s) and Acreage _____

Vineyard Appellation Area*: _____ ACO # _____

Fill in information below about proposed planting of vineyard or orchard. Check one: New Replant

Crop	Variety	Year to Plant	Spacing	# of Vines/Trees	Net Crop Acres
<i>Example: Grapes</i>	<i>Chardonnay</i>	<i>2012</i>	<i>6X8</i>	<i>10,981</i>	<i>12.1</i>

In addition, if the parcel is currently a vineyard or orchard, fill in information about what is being pulled out.

Crop	Variety	Year to be Removed	Spacing	# of Vines/Trees	Net Crop Acres

*Areas include: Alexander Valley, Bennett Valley, Carneros, Chalk Hill, Dry Creek Valley, Green Valley, Knights Valley, Rockpile, Russian River Valley, Sonoma Coast, Sonoma Mountain, and Sonoma Valley

OFFICE OF THE AGRICULTURAL COMMISSIONER

Agricultural Commissioner
 Sealer of Weights and Measures
www.sonoma-county.org/agcomm



133 Aviation Boulevard, Suite 110
 Santa Rosa, CA 95403-1077
 Phone (707) 565-2371 Fax (707) 565-3850

VINEYARD & ORCHARD FROST PROTECTION REGISTRATION

NOTE: Only required if located within the Russian River Watershed and using water for frost protection. Incomplete or faxed registrations not accepted. Registration must include aerial map of the site. Use N/A for all blank spaces. Use one form for each site to be registered or amended. For amendments, provide the existing registration number and the updated information and map. See detailed instructions at www.sonoma-county.org/agcomm/frost_protection.htm.

For Office Use Only		(05/5/2014)	
Date Received:			
Registration/Amendment Date:			
Fee Paid:	\$	Ck No.	
Registered By (Initials):			
Registration Number: (example: AFM14-xxxx)	AFM	-	

Check One Box: New Registration Amended Registration

Owner's Name:				
Mailing Address				
City	State	Zip		
Phone	Fax	Cell		
Email Address				
Authorized Representative's Name: (Leave blank if the same as above)				
Mailing Address				
City	State	Zip		
Phone	Fax	Cell		
Email Address				
Billing Address:				
City	State	Zip		
Phone	Fax	Cell		
Email Address				

Site Address:	
Assessor's Parcel Number(s):	
Corresponding Pesticide Permit Site Id #(s):	
Total Frost Protected Acreage:	
Please indicate if you are part of a State approved Water Demand Management Program? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Please indicate group and/or tributary name:	
Registration Fee: Required with initial registration and amendment due to a change in the frost system or owner/operator. No fee required if water source is exclusively from treated waste water.	\$64.00

I certify that the information provided is correct and valid to the best of my knowledge.

*Signature _____ Owner or Authorized Representative (Circle One)

Print Name _____ Date _____

Registration may be signed only by the owner of the property or the authorized representative.

Attachment 2

FROST PROTECTION SYSTEM INVENTORY

Check all that apply:			
<input type="checkbox"/>	Vineyard	<input type="checkbox"/>	Orchard

Registration No.	AFM
APN #(s):	

NOTE: Label your attached aerial map with the Map Id #s that you assign below (1, 2, 3, 4, etc.). Use an additional sheet if additional wells, Point of Diversion (POD's), or Frost Pumping Systems are used per site.

SYSTEM TYPE (Fill in all that apply)

Type	No. Of Acres Protected	Gallons Per Acre Per Minute
Sprinklers		
Micro sprinklers		

Map Id #	No. Of Acres Protected
Frost Pumping System(s)	
Frost Pumping System(s)	

STORAGE TYPE (Fill in all that apply)

Map Id #	Storage Type	Acre Feet	Recharge Rate	Source (River, Stream, Well, Etc.)
	Reservoir/Pond			
	Offsite			
	Tank			

SOURCE OF WATER (Fill in all that apply)

Map Id #	Type	Gallons Per Minute (GPM)		
	Recycled Water			
	Direct Diversion from River or Stream			
	Shared System (Note Type)			
	Sub Surface (Sump/French Drain)			
	Surface Drainage			
	Other Water Source (Note Type)			
		GPM – from pump (pump rating)	Depth – (pump setting)	Distance (in feet) from stream
	Well			
	Well			

Aerial Map Required: Attach map with frost protected area (e.g. vyd) highlighted, Assessor Parcel Number(s) noted, and frost pumps, water storage, and water sources marked by using map Id numbers from above.

DISCLAIMER: This Registration is solely for the purpose of producing an inventory of frost protection systems. You may need permits or authorizations from other regulatory agencies to divert or use water for frost protection.

OFFICE OF THE AGRICULTURAL COMMISSIONER

Agricultural Commissioner
 Sealer of Weights and Measures
 www.sonoma-county.org/agcomm



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Frost Protection Negative Declaration

For Office Use Only		05/5/2014)
Date Surveyed:		
By (Initials):		
Site Address:		
Prior Registration # If Applicable:		

Fill out one form for each site located within the Russian River Watershed that DOES NOT use water for frost protection

Owner's Name:					
Mailing Address					
City		State		Zip	
Phone		Fax		Cell	
Email Address					

Authorized Representative's Name: (Leave blank if the same as above)					
Mailing Address					
City		State		Zip	
Phone		Fax		Cell	
Email Address					

Site Address:		
Assessor's Parcel Number(s):		
Corresponding Pesticide Permit Site Id #(s):		

Check all that apply:			
<input type="checkbox"/>	Vineyard	<input type="checkbox"/>	Orchard

Frost Protection? (Check the statement that best applies)	
<input type="checkbox"/>	No frost protection system.
<input type="checkbox"/>	Frost protection system uses no water (ie fans, etc).

I certify that the information provided is correct and valid to the best of my knowledge.

Signature _____ Owner or Authorized Representative (Circle One)

Print Name _____ Date _____