

STORM WATER RUNOFF MANAGEMENT PLAN (SRMP)



FOR
REVERIE WINERY
(APN 020-440-005)

BY
CAB CONSULTING ENGINEERS
DATE: November 22, 2013

Contact Info:

Owner:
Reverie Winery
C/O Norm Kiken
1520 Diamond Mt. Rd.
Calistoga, CA 94515

Civil Engineer:
Carl Butts
CAB Consulting Engineers
851 Napa Valley Corp
Way Suite D
Napa, CA 94558
707.694.6479

I. Planning and Organization

A. Nature and Proposed Use of the Development Project

The project proposes to install a new process waste storm water diversion valve and cover the crush pad area/process area with a temporary cover during crush periods. Other ancillary work to the septic system is proposed as part of Use Permit Major Modification P13-00027, with no effect on storm water controls. Table A below quantifies areas of development in accordance with the Napa County Post Construction Runoff Management Requirements Appendix A – Applicability Checklist.

Type of Impervious Surface	Impervious Surfaces			Total New and Reconstructed Impervious Surfaces
	Pre-Project	New	Reconstructed	
Buildings, Garages, Carports, Other Structures	3113	0	0	0
Patio, Impervious Decking, Pavers and Impervious Liners	3869	0	0	0
Sidewalks and Paths	0	0	0	0
Parking Lots	2642	0	0	0
Roadways and Driveways	6260	0	0	0
Off-site Impervious Improvements	11000	0	0	0
Total Area of Impervious Surface	20624	0	0	0

Table A

A vicinity map of the project site is provided in Appendix 1 with the Applicability Checklist.

II. IDENTIFY POLLUTANTS AND CONDITIONS OF CONCERN

A. Standard and Priority Projects Installation of New Storm Drains or Alteration to Existing Storm Drains

The project, at the time of preparation of this report, proposes the installation of a new automatic storm water diversion valve downstream of the crush pad.

B. Source Control BMP Selection Worksheet

A completed Source Control BMP Selection Worksheet has been prepared and accompanies this report in Appendix 2.

C. List and Describe All Storm Water Conveyance Systems

The primary storm water conveyance system of interest in this report is the existing trench drains located adjacent to the winery within the existing crush pad. These drains, three in total, are believed to be connected and routed to the south of the winery with an outfall to an

unnamed creek (Stream A) approximately 400' south of the winery building. Stream A drains west to east through the southern end of the property and converges with a ditch adjacent to Diamond Mountain Road.

Another unnamed blue line perennial stream (Stream B) bisects the winery and storage shed area. This stream was channelized over two decades ago to allow construction of the shed and garage directly east of the winery. Drainage north of the crush pad is routed south and east to this drainage. Stream B and Stream A converge within the project property approximately 300-feet southeast of the winery building.

Up-gradient run-on to the winery crush pad is intercepted by the headwall/precipice of the wine cave. Any potential run on is diverted either south or east to around the crush pad.

III. POST CONSTRUCTION BMP'S

A. SITE DESIGN BMPs

The project simply includes the installation of a new automated storm water diversion valve and temporary crush pad covers. No other new infrastructure affecting storm water controls is proposed with this project. No additional site design BMP's are proposed by the project since the site is completely built.

DFG/ACE/RWQCB STRUCTURES

No work is proposed within any of these jurisdictions.

SLOPE AND DISTANCE TO OPEN STORM WATER CONVEYANCES

The average slope of the existing site in its developed state is approximately 10% to the south. Stream A is roughly 4' high by 6' wide, channelized at the foot bridge approximately 200' south of the winery. Stream B is nearly trapezoidal with the following dimensions at the first culvert inlet near the winery – bottom width – 40", height 30".

Neither of these streams have are shown no FEMA mapping for inclusion in the flood plain or floodway.

Stream A is bordered on both banks with riparian vegetation , predominantly blackberry bushes and ash trees.

Stream B is lined with native grasses before being channelized at the winery, and there is no indication of scouring or overtopping prior to the channelization.

Setbacks to both Streams are shown on Sheet UP 1.0.

B. SOURCE CONTROL BMPs

The following Source Control BMP's are proposed:

1. New or Reconstructed Stormwater Conveyance Systems (4.2.C)

All inlets are proposed to have new signage indicating "No Dumping, Drains to Creek".

2. Processing Areas (4.2.K)

The existing wastewater and storm water system will be mapped and "tv'd" to thoroughly analyze all connections to the storm water system and any sewer/storm water combination connections. Following this analysis, a building permit will be pulled for the installation of a new automatic storm water diversion valve to intercept any combined process waste/storm water flows. A map of the system, all video and installation details will be provided as part of the building permit.

Additionally, new poles will be constructed to allow installation of a seasonal crush pad cover over the existing crush pad. A building permit will be prepared as part of this installation.


IV. SITE PLAN

A Site Plan in accordance with the SRMP Checklist for a Complete Application accompanies this report in Appendix 3.

V. POST CONSTRUCTION BMP IMPLEMENTATION AND MAINTENANCE AGREEMENT

A copy of the certification statement to be signed to by the owner is provided in Appendix 4. A Post Construction Maintenance Agreement from the Napa County is pending and will be provided prior to final of the grading plan permit by Napa County.

**NAPA COUNTY POST-CONSTRUCTION RUNOFF MANAGEMENT REQUIREMENTS
APPENDIX A – APPLICABILITY CHECKLIST**

Post-Construction Runoff Management Applicability Checklist	County of Napa Department of Public Works 1195 Third Street Napa, CA 94559 (707) 253-4351 for information	
Project Address: <i>1520 DIAMOND MTN ROAD</i>	Assessor Parcel Number(s): <i>020 440 005</i>	Project Number: <i>(for County use Only)</i>
Instructions: Structural projects requiring a use permit, building permit, and/or grading permit must complete the following checklist to determine if the project is subject to the Post-Construction Runoff Management Requirements. In addition, the impervious surface worksheet on the reverse page must also be completed to calculate the amount of new and reconstructed impervious surfaces proposed by your project. This form must be completed, signed, and submitted with your permit application(s). Definitions are provided in the Post-Construction Runoff Management Requirements policy. Note: If multiple building or grading permits are required for a common plan of development, the total project shall be considered for the purpose of filling out this checklist.		
POST-CONSTRUCTION STORMWATER BMP REQUIREMENTS (Parts A and B) ✓ If any answer to Part A are answered "yes" your project is a "Priority Project" and is subject to the Site Design, Source Control, and Treatment Control design standards described in the Napa County Post-Construction Runoff Management Requirements. ✓ If all answers to Part A are "No" and any answers to Part B are "Yes" your project is a "Standard Project" and is subject to the Site Design and Source Control design standards described in the Napa County Post-Construction Runoff Management Requirements. ✓ If every question to Part A and B are answered "No", your project is exempt from post-construction runoff management requirements.		
Part A: Priority Project Categories Does the project meet the definition of one or more of the priority project categories?		
1. Residential with 10 or more units	Yes	<input checked="" type="radio"/> No
2. Commercial development greater than 100,000 square feet.....	Yes	<input checked="" type="radio"/> No
3. Automotive repair shop.....	Yes	<input checked="" type="radio"/> No
4. Retail Gasoline Outlet.....	Yes	<input checked="" type="radio"/> No
5. Restaurant.....	Yes	<input checked="" type="radio"/> No
6. Parking lots with greater than 25 spaces or greater than 5,000 square feet.....	Yes	<input checked="" type="radio"/> No
*Refer to the definitions section for expanded definitions of the priority project categories.		
Part B: Standard Project Categories Does the project propose:		
1. A facility that requires a NPDES Permit for Stormwater Discharges Associated with Industrial Activities?.....	Yes	<input checked="" type="radio"/> No
2. New or redeveloped impervious surfaces 10,000 square feet or greater, excluding roads?.....	Yes	<input checked="" type="radio"/> No
3. Hillside residential greater than 30% slope.....	Yes	<input checked="" type="radio"/> No
4. Roadway and driveway construction or reconstruction which requires a Grading Permit.....	Yes	<input checked="" type="radio"/> No
5. Installation of new storm drains or alteration to existing storm drains?.....	<input checked="" type="radio"/> Yes	<input type="radio"/> No
6. Liquid or solid material loading and/or unloading areas?.....	Yes	<input checked="" type="radio"/> No
7. Vehicle and/or equipment fueling, washing, or maintenance areas, excluding residential uses?.....	Yes	<input checked="" type="radio"/> No
8. Commercial or industrial waste handling or storage, excluding typical office or household waste?.....	Yes	<input checked="" type="radio"/> No
Note: To find out if your project is required to obtain an individual General NPDES Permit for Stormwater discharges Associated with Industrial Activities, visit the State Water Resources Control Board website at, www.swrcb.ca.gov/stormwtr/industrial.html		

**NAPA COUNTY POST-CONSTRUCTION RUNOFF MANAGEMENT REQUIREMENTS
APPENDIX A – APPLICABILITY CHECKLIST**

Impervious Surface Worksheet

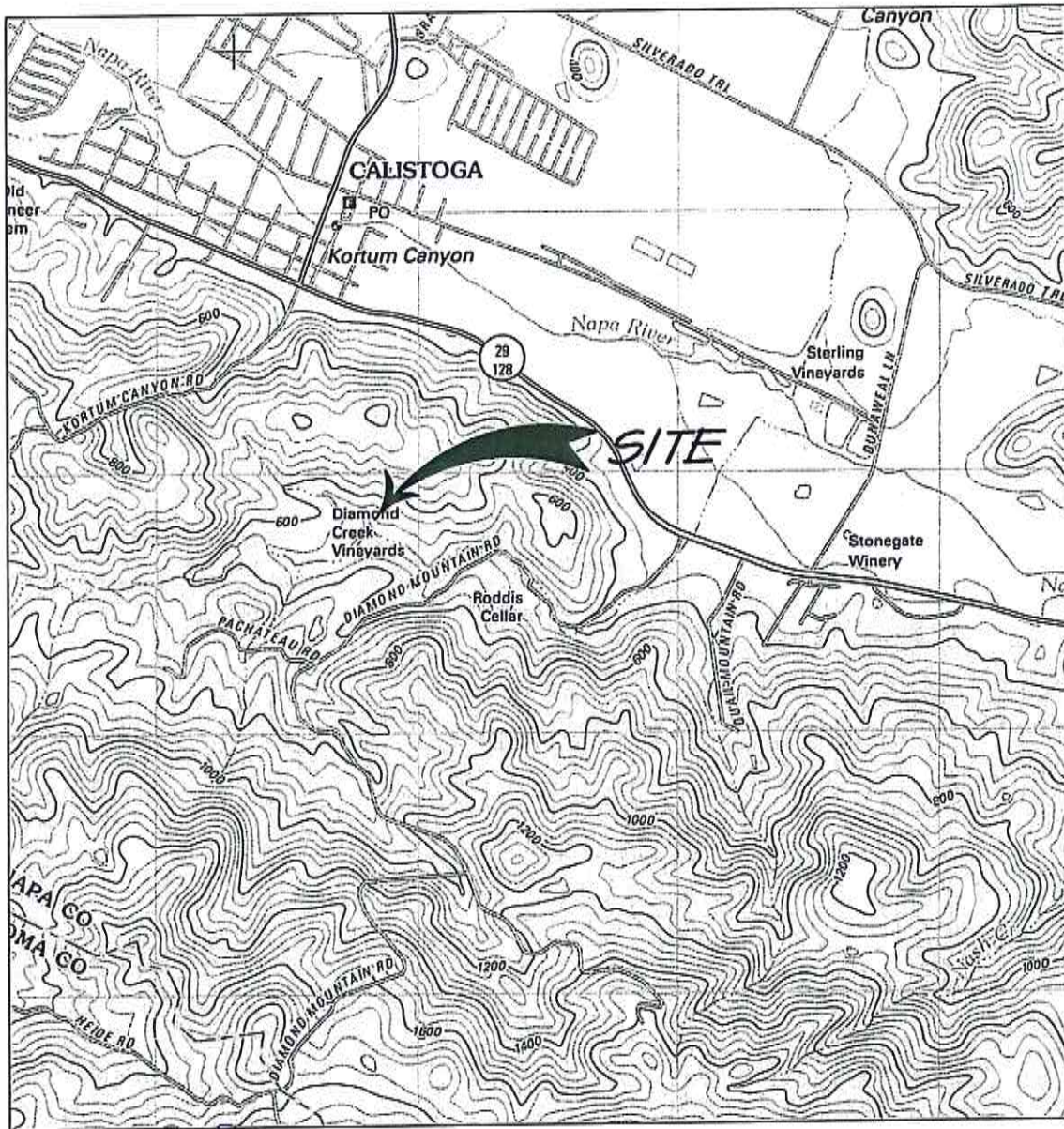
Project phasing to decrease impervious surface area shall not exempt the project from Post-Construction Runoff Management requirements. A new development or redevelopment project must comply with the requirements if it is part of a larger common plan of development that would result in the creation, addition and/or reconstruction of one acre or more of impervious surface. (For example, if 50% of a subdivision is constructed and results in 0.9 acre of impervious surface, and the remaining 50% of the subdivision is to be developed at a future date, the property owner must comply with the Post-Construction Runoff Management requirements.)

Type of Impervious Surface	Impervious Surface (Sq Ft)			Total New and Reconstructed Impervious Surfaces (Sq Ft)
	Pre-Project (if applicable)	New (Does not replace any existing impervious area)	Reconstructed (Replaces existing impervious area)	
Buildings, Garages, Carports, other Structures with roofs	3113	0	0	0
Patio, Impervious Decking, Pavers and Impervious Liners	3869	0	0	0
Sidewalks and paths	0	0	0	0
Parking Lots	2642	0	0	0
Roadways and Driveways,	6260	0	0	0
Off-site Impervious Improvements	11000	0	0	0
Total Area of Impervious Surface (Excluding Roadways and Driveways)	20624	0	0	0

Incorrect information on proposed activities or uses of a project may delay your project application(s) or permit(s).

I declare under penalty of perjury, that to the best of my knowledge, the information presented herein is accurate and complete.

Name of Owner or Agent (Please Print): <i>CARL BUTTS</i>	Title: <i>PROJECT ENGINEER</i>
Signature of Owner or Agent: <i>Carl A Butts</i>	Date: <i>11/21/2013</i>



CALISTOGA QUAD 2012

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 CONSULTING
 ENGINEERS

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 CORPORATE WAY
 SUITE D
 NAPA, CA 94558
 V 707.252.2011
 C 707.694.6479

REVERIE WINERY
 TOPO QUAD

CALISTOGA CALIFORNIA

1" = 2000'

NAPA COUNTY POST-CONSTRUCTION RUNOFF MANAGEMENT REQUIREMENTS

APPENDIX E – SOURCE CONTROL BMP SELECTION WORKSHEET

All Standard and Priority Projects must complete and sign the Source Control BMP Selection Worksheet and submit it with their Stormwater Runoff Management Plan (SRMP).

Date of Application: 11/21/13 Project Number: _____
 Type of Application: Use Permit Building Permit Grading Permit (For County Use Only)
 Project Location or Address: 1520
 Project Name: REVERIE WINERY USE PERMIT MDA
 Property Owner Name: NORM KIKEN
 Applicant's Name: CARL BATTIS
 Owner Contractor Engineer/Architect Developer
 Applicant's Address: 851 NAPA VALLEY CORP WAY STE D, NAPA, CA 94558
 Applicant's Phone: 707 694 6475 Fax: - E-mail: cbattis@cabengineering.com
 Parcel/Tract #: 020-440-005 Lot #: _____ APN: 020-440-005

Fill out the table below to indicate which Source Control BMPs in Chapter 4.2 apply to your project.

Check box to indicate proposed activity	Land Use/Activities	Limited Exclusion (Check box if project is excluded)	Source Control BMP Standard
	Roads and driveways.	None	4.2.A
	Parking Areas	None	4.2.B
	New or Reconstructed Stormwater Conveyance Systems	None	4.2.C
<input checked="" type="checkbox"/>	Storm drain Inlets and open channels or creeks.	<input type="checkbox"/> Detached Residential Homes	4.2.D
	Landscaping	None	4.2.E
	Trash Storage Areas.	<input type="checkbox"/> Detached Residential Homes	4.2.F
	Pools, Spas, and Fountains.	None	4.2.G
	Roofs, Gutters, and Downspouts.	None	4.2.H
	Loading and Unloading Dock Areas	None	4.2.I
	Outdoor Material Storage Areas.	<input type="checkbox"/> Detached Residential Homes	4.2.J
<input checked="" type="checkbox"/>	Processing Areas.	None	4.2.K
	Vehicle and Equipment Repair and Maintenance Areas	<input type="checkbox"/> Detached Residential Homes	4.2.L
	Vehicle and Equipment Wash Areas	<input type="checkbox"/> Detached Residential Homes	4.2.M
	Food Service Equipment Cleaning	None	4.2.N
	Interior Floor Drains.	None	4.2.O
	Fueling Areas.	None	4.2.P

Incorrect information on proposed activities or uses of a project may delay your project application(s) or permit(s).

I declare under penalty of perjury, that to the best of my knowledge, the information presented herein is accurate and complete.

Name of Owner or Agent (Please Print): <u>Carl Battis</u>	Title: <u>PROJECT ENGINEER</u>
Signature of Owner or Agent: <u>[Signature]</u>	Date: <u>11/22/13</u>

