

SWPPP Amendment No.

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Project Name:

DOMINGUEZ LOOP ROAD

Project Number:

001-017

**Qualified SWPPP Developer's Certification of the  
Stormwater Pollution Prevention Plan Amendment**

"This Stormwater Pollution Prevention Plan and attachments were prepared under my direction to meet the requirements of the California Construction General Permit (SWRCB Order No. 2009-009-DWQ as amended by 2010-0014-DWQ). I certify that I am a Qualified SWPPP Developer in good standing as of the date signed below."



QSD's Signature

7/16/2013

Date

DANIEL TAYLOR

QSD Name

00324

QSD Certificate Number

RSC ENGINEERING

Title and Affiliation

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# Amendment Log

Project Name:

Dominguez Loop Road

Amendment No.	Date	Brief Description of Amendment, include section and page number	Prepared and Approved By
1	12/17/12	ADDED TEMP BERM & PLUGGED OUT FALL PIPE. USE ATS ON ROCKLIN CROSSINGS (WDID 5531C364098)	Name: DANIEL TAYLOR QSD# 00324
2	07/16/13	INCREASED PROJECT AREA TO INCLUDE ROAD WIDENING TO SOUTH DOMINGUEZ & WEST OF SIERRA COLLEGE BULD.	Name: DANIEL TAYLOR QSD# 00324
			Name: QSD#

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AMENDMENT 2  
INCREASED PROJECT AREA TO INCLUDE  
ROAD WIDENING TO SOUTH OF  
DOMINGUEZ LOOP ROAD AND ROAD  
IMPROVEMENTS ON WEST SIDE OF  
SIERRA COLLEGE BOULEVARD.

# SCHRIBER WAY

# SIERRA COLLEGE BOULEVARD

# DOMINGUEZ LOOP ROAD

CONSTRUCTION TRAILER, MATERIAL  
STORAGE/STAGING, VEHICLE  
MAINTENANCE AND FUELING AND  
CONCRETE WASHOUT. LOCATION  
TO BE FIELD DETERMINED.

PLACE SILT FENCE  
AT EDGE OF  
CONSTRUCTION  
PLACE STRAW ROLL AT TOP  
AND TOE OF SLOPE AND  
EVERY 20' ALONG SLOPE.

PLACE SILT FENCE  
AT EDGE OF  
CONSTRUCTION

PLACE HYDROSEED, STRAW MULCH AND  
TACKIFIER ON ALL EXPOSED SOILS  
ONCE GRADING IS COMPLETE.

PLACE DRAIN INLET  
PROTECTION  
CONSTRUCT DOUBLE  
ROCK CHECK DAM  
PLACE SILT FENCE  
AT EDGE OF  
CONSTRUCTION

PLUG  
GRADED  
INLET

CONSTRUCTION  
ENTRANCE

**HYDROSEED NOTE:**  
ALL EXPOSED SOILS THAT ARE  
IN-ACTIVE FOR MORE THAN 14  
DAYS ARE TO RECEIVE  
HYDROSEED, STRAW MULCH,  
AND TACKIFIER.

**STRAW MULCH NOTE:**  
ALL EXPOSED SOILS SHALL  
RECEIVE STRAWMULCH AND  
TACKIFIER PRIOR TO ANY  
FORECAST RAIN EVENT.

LIMIT OF  
CONSTRUCTION  
TOTAL DISTURBED  
AREA = 4.1 AC.

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PLACE STRAW ROLL AT TOP  
AND TOE OF SLOPE AND  
EVERY 20' ALONG SLOPE.

PLACE SILT FENCE  
AT EDGE OF  
CONSTRUCTION

PLACE HYDROSEED, STRAW MULCH AND  
TACKIFIER ON ALL EXPOSED SOILS  
ONCE GRADING IS COMPLETE.

PLACE STRAW ROLL AT TOP  
AND TOE OF SLOPE AND  
EVERY 20' ALONG SLOPE.

PLACE STRAW ROLL AT TOP  
AND TOE OF SLOPE AND  
EVERY 20' ALONG SLOPE.

CONSTRUCTION  
ENTRANCE

PLACE GRAVEL BAG  
BERM ALONG SWALE  
AND AT EACH END  
OF CULVERT.

## TEMPORARY BERM

PLACE SILT FENCE  
AT EDGE OF  
CONSTRUCTION

DISCHARGE LOCATION  
AND SAMPLE POINT

PLACE STRAW ROLL AT TOP  
AND TOE OF SLOPE AND  
EVERY 20' ALONG SLOPE.

PLACE GRAVEL BAG  
BERM ALONG FACE  
OF CURB

PLUG INLET TO PROPOSED CULVERT AND PUMP  
ANY INCOMING FLOW INTO THE TEMPORARY  
HOLDING BASIN AT THE INLET NORTH OF  
DOMINGUEZ LOOP.

PLACE GRAVEL BAG BERM ALONG SWALE  
AND AT EACH END OF CULVERT.

PLACE SILT FENCE AT EDGE  
OF CONSTRUCTION

INCOMING RUN-ON FROM  
NORTHWEST. IF RUNON IS  
ANTICIPATED TO CROSS AN AREA OF  
EXPOSED SOIL, PROVIDE A  
DIVERSION AROUND EXPOSED AREA  
OR PROVIDE A STABILIZED FLOW  
PATH OVER EXPOSED SOIL.

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**DOMINGUEZ LOOP ROAD**  
ROCKLIN, CA

**FIGURE 3**  
**POST-DEVELOPED SITE PLAN**



Date: 7/16/2013  
RSC Proj. #: 001-017

## Figure A.1 Dominguez Loop Road Rainfall - Runoff Erosivity Factor (R) Calculations:

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**Objective:** Calculate the Rainfall - Runoff Erosivity Factor "R" per the methods described on the EPA publication: <http://www.epa.gov/npdes/pubs/fact3-1.pdf>. This Calculation is to be used in the RUSLE Equation as a part of the Risk Level Assessment for the project.

Erosivity Index Zone:	21	(Per Fig. 1 -Erosivity Index Map)
Project Start:	25-Jul-12	
Project Start EI%:	56.6%	Erosivity Index % based on July 14 and EI=21 (100-43.4)
Project Completion:	31-Dec-13	
Project End EI%:	100.0%	Erosivity Index % based on December 31 and EI=21
Total EI %:	157%	
I =	30	(Annual Isoerodent value Per Fig. 4 - Isoerodent Map of Ca.)
R =	46.98	Rainfall - Runoff Erosivity Factor (I x EI%)

	A	B	C
1	<b>Sediment Risk Factor Worksheet</b>		<b>Entry</b>
2	<b>A) R Factor</b>		
3	Analyses of data indicated that when factors other than rainfall are held constant, soil loss is directly proportional to a rainfall factor composed of total storm kinetic energy (E) times the maximum 30-min intensity (I30) (Wischmeier and Smith, 1958). The numerical value of R is the average annual sum of EI30 for storm events during a rainfall record of at least 22 years. "Isoerodent" maps were developed based on R values calculated for more than 1000 locations in the Western U.S. Refer to the link below to determine the R factor for the project site.		
4	<a href="http://cfpub.epa.gov/npdes/stormwater/LEW/lewCalculator.cfm">http://cfpub.epa.gov/npdes/stormwater/LEW/lewCalculator.cfm</a>		
5	<b>R Factor Value</b>		46.98
6	<b>B) K Factor (weighted average, by area, for all site soils)</b>		
7	The soil-erodibility factor K represents: (1) susceptibility of soil or surface material to erosion, (2) transportability of the sediment, and (3) the amount and rate of runoff given a particular rainfall input, as measured under a standard condition. Fine-textured soils that are high in clay have low K values (about 0.05 to 0.15) because the particles are resistant to detachment. Coarse-textured soils, such as sandy soils, also have low K values (about 0.05 to 0.2) because of high infiltration resulting in low runoff even though these particles are easily detached. Medium-textured soils, such as a silt loam, have moderate K values (about 0.25 to 0.45) because they are moderately susceptible to particle detachment and they produce runoff at moderate rates. Soils having a high silt content are especially susceptible to erosion and have high K values, which can exceed 0.45 and can be as large as 0.65. Silt-size particles are easily detached and tend to crust, producing high rates and large volumes of runoff. Use Site-specific data must be submitted.		
8	<a href="#">Site-specific K factor guidance</a>		
9	<b>K Factor Value</b>		0.37
10	<b>C) LS Factor (weighted average, by area, for all slopes)</b>		
11	The effect of topography on erosion is accounted for by the LS factor, which combines the effects of a hillslope-length factor, L, and a hillslope-gradient factor, S. Generally speaking, as hillslope length and/or hillslope gradient increase, soil loss increases. As hillslope length increases, total soil loss and soil loss per unit area increase due to the progressive accumulation of runoff in the downslope direction. As the hillslope gradient increases, the velocity and erosivity of runoff increases. Use the LS table located in separate tab of this spreadsheet to determine LS factors. Estimate the weighted LS for the site prior to construction.		
12	<a href="#">LS Table</a>		
13	<b>LS Factor Value</b>		0.28
14			
15	<b>Watershed Erosion Estimate (=RxKxLS) in tons/acre</b>		4.867128
16	<b>Site Sediment Risk Factor</b>		<b>Low</b>
17	Low Sediment Risk: < 15 tons/acre		
18	Medium Sediment Risk: >=15 and <75 tons/acre		
19	High Sediment Risk: >= 75 tons/acre		
20			

Receiving Water (RW) Risk Factor Worksheet	Entry	Score
<b>A. Watershed Characteristics</b>	yes/no	
<p>A.1. Does the disturbed area discharge (either directly or indirectly) to a <b>303(d)-listed waterbody impaired by sediment</b> (For help with impaired waterbodies please visit the link below) or has a <b>USEPA approved TMDL implementation plan for sediment</b>?:  <a href="http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml">http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml</a></p> <p style="text-align: center;"><b>OR</b></p>	<b>yes</b>	<b>High</b>
<p>A.2. Does the disturbed area discharge to a waterbody with designated beneficial uses of SPAWN &amp; COLD &amp; MIGRATORY? (For help please review the appropriate Regional Board Basin Plan)  <a href="http://www.waterboards.ca.gov/waterboards_map.shtml">http://www.waterboards.ca.gov/waterboards_map.shtml</a></p>		
<p><a href="#">Region 1 Basin Plan</a>  <a href="#">Region 2 Basin Plan</a>  <a href="#">Region 3 Basin Plan</a>  <a href="#">Region 4 Basin Plan</a>  <a href="#">Region 5 Basin Plan</a>  <a href="#">Region 6 Basin Plan</a>  <a href="#">Region 7 Basin Plan</a>  <a href="#">Region 8 Basin Plan</a>  <a href="#">Region 9 Basin Plan</a></p>		

## Combined Risk Level Matrix

		<u>Sediment Risk</u>		
		Low	Medium	High
<u>Receiving Water Risk</u>	Low	Level 1	Level 2	
	High	Level 2		Level 3

Project Sediment Risk: **Low**  
Project RW Risk: **High**  
Project Combined Risk: **Level 2**