
North Coast Regional Water Quality Control Board

Inspection Memorandum

To: Jim Burke, Senior Engineering Geologist Southern Nonpoint Source and Forestry Unit, North Coast Regional Water Quality Control Board (RWB)

From: Izaak Russo, Engineering Geologist, Southern Nonpoint Source and Forestry Unit, RWB

Date: April 1, 2022

Subject: Inspection Report for Interim Cleanup and Stabilization Plan (ICSP) in response to Cleanup and Abatement Order No. R1-2022-0009 for Emergency Notice 1-20EM-00125-SON

Legal Description

T8N, R9W, Section 6
Mt. Diablo base and meridian
Sonoma County Assessor's Parcel Number (APN) 110-190-001-000

Watershed CalWater (2.2)

1114.240602: Felta Creek
1114.110104: Adam and Eve Redwoods

CWA 303(d) Listed

Sediment, Temperature

Landowner

Ken Bareilles

Harvesting Practices

Ground

Watercourses

Class I, II, III

I. INTRODUCTION

On January 10, 2022, the Regional Water Board issued Order No. R1-2022-0009 (the Order) to require immediate evaluation of site conditions related to sediment discharges associated with California Department of Forestry and Fire Protection (CAL FIRE) Emergency Notice 1-20EM-00125 SON, and to propose treatment to minimize additional sediment discharges during the current winter period. The Order required the landowner to submit plans to address these conditions by January 15, 2022, for review, comment, and approval prior to implementation.

On March 4, 2022, RWB received the Bareilles Interim Cleanup and Stabilization Plan (the ICSP), prepared by Sam Jacobszoon, RPF #3125, of Jacobszoon and Associates, Inc. on behalf of Ken Bareilles. The ICSP was developed and submitted to satisfy the reporting and treatment proposal requirements of the Order.

The ICSP proposes short-term treatment for the potential discharge sites identified in the Order and identifies and proposed treatments for several other sites of potential sediment discharge in the plan area.

On March 28, RWB staff conducted an inspection of the plan area and associated discharge and potential discharge sites to evaluate effectiveness of the proposed treatments.

Present at this inspection were:

Izaak Russo, RWB

David Fowler, RWB

Kim Sone, CAL FIRE

Sam Jacobszoon, RPF, Jacobszoon and Associates, Inc.

Andrew Bake, Jacobszoon and Associates, Inc.

II. FIELD OBSERVATIONS

Weather during the inspection was mild and cloudy. The plan area had experienced a small amount of rain over the previous 24 hours and exposed soils were saturated.

Map Points in this inspection report refer to the Remediation Points map in Appendix A of the ICSP, unless otherwise specified. New potential violations not noted during previous WQ inspections or documented in the ICSP are given new Water Quality Map Points in this document and reference the ICSP Inspection Map (Plate 1).

Water Quality Map Point 5

An additional source of sediment discharge to Felta Creek (a Class I watercourse) that had not been noted by earlier RWB inspections or by the ICSP, was observed during the inspection. The discharge originated on a segment of road on the south side of the plan (Water Quality Map Point 5.2) near the top of a ridge above Felta Creek. Erosion

control measures along this segment of road were not adequately implemented and several gullies 6 to 12 inches deep were formed in the road surface (Fig. 1) and on the hillslope below the road. After exiting the road prism, the runoff flowed downhill incising a gully in places before diverting down an old skid trail (Water Quality Map Point 5.1; Figs. 2, 3), and flowing further downhill and depositing sediment into Felta Creek (Water Quality Map Point 5; Figs. 4, 5). The total slope distance from the source of the discharge on the ridgetop road to the channel of Felta Creek is on the order of 500 feet.

Water Quality Map Point 6

A segment of road on the south side of the plan, in the Adam and Eve Redwoods Planning Watershed had, as of the RWB inspection of November 9, 2021, had waterbars two to three feet high installed on its running surface. During the March 28th inspection, we observed that these waterbars had been completely removed (Fig. 6) and the excess material sidecast downslope (Fig. 7). At the top of this segment of road, the head of a Class III watercourse lies directly below the road with perched sidecast material on the steep slopes above the head of the watercourse (Fig. 8). The RWB received a letter dated April 9, 2022, from Jacobszoon and Associates which attests that their staff observed no waterbars on this segment of road during their site inspection on February 14, 2022.

ICSP Map Point 2

Map Point 2 is the site of the original discharge to Felta Creek at Water Quality Map Point 2. The ICSP proposes reconstruction of the existing waterbars and adding additional waterbars spaced per Forest Practice Rules.

Recommendations:

If conditions permit, rock segment of road downslope of lowest waterbar to landing.

ICSP Map Point 9

At Map Point 9, a Class III watercourse diverts down a permanent road for approximately 85 feet before exiting the road prism, causing gullying of the road surface. The watercourse then drains to Felta Creek through a breach in the outboard fill (Fig. 9).

Recommendations:

Install dip across road where the Class III watercourse enters the roadway and install energy dissipation at the outlet as needed to prevent erosion where streamflow of the outboard edge of the road and resulting sediment discharge.



Figure 1. Road surface gulying at Water Quality Map Point 5.2. 6-inch Rite in the Rain card for scale.



Figure 2. Gullying in hillslope and across skid trail at Water Quality Map Point 5.1.



Figure 3. Gullying in hillslope near Water Quality Map Point 5.2.



Figure 4. Fine sediment deposits on the banks above Felta Creek at Water Quality Map Point 5.



Figure 5. Fine sediment deposits on the banks above Felta Creek at Water Quality Map Point 5.



Figure 6. Newly Removed waterbars near Water Quality Map Point 6.



Figure 7. Sidecast material from newly removed waterbars near Water Quality Map Point 6.



Figure 8. Sidecast material from newly removed waterbars above head of Class III watercourse near Water Quality Map Point 6.



Figure 9. Class III diversion down road delivering to Felta Creek through breach in outboard fill near ICSP Map Point

