

Marin Coastal Watersheds Permit Coordination Program 2017 Ranch Restoration Projects

The Marin Coastal Watersheds Permit Coordination Program (PCP) has and will continue to provide the catalyst for high-quality pollutant and erosion control and habitat restoration projects throughout the program

#	Watershed	Envir. Setting	Description of PCP Practice(s)	Regulatory Requirements	Project Actions	Materials Quantity	Potential for Listed Species	Vegetation Setting & Impacts & Planting	Actions Required due to Potential Presence of Listed Species	Presence of Barriers to Aquatic Species Migration	Funding Source
2017-01	TOMALES BAY	Active rangeland	Access Road (560)	none	Recontour unpaved Giacomini ranch road to improve drainage and reduce erosion. Rock weirs may be placed every 50 ft along inboard ditch. Turns in road and 3 water bars may be rocked for stability.	915 LF road; 70 CY rock	none	Ranch vegetation consists of annual & perennial graminoids & forbs.	none	None within project area. Culvert on Giacomini Gulch downstream of project area under Highway 1 does block access to aquatic species.	319 (h) grant
			Structure for Water Control (587)	Water Board General Restoration Permit	Place roadside ditch relief culvert under cattle run.	30 LF culvert	CRLF	Ranch vegetation consists of annual & perennial graminoids & forbs.	Informal consultation under existing (2002) biological opinion with USFWS		
			Access Road (560)	Water Board General Restoration Permit	One existing upland cattle run will be rocked to reduce potential erosion and sediment delivery.	70 CY rock	CRLF	Ranch vegetation consists of annual & perennial graminoids & forbs.	Informal consultation under existing (2002) biological opinion with USFWS		
			Structure for Water Control (587)	Water Board General Restoration Permit	Remove existing concrete gutter and replace with culvert through ranch compound to reduce potential nutrient delivery to Giacomini Gulch.	100 LF of culvert	CRLF, coho & steelhead	Ranch vegetation consists of annual & perennial graminoids & forbs. Outflow occurs in riparian understory	Informal consultation under existing (2002) biological opinion with USFWS		
			Grassed Waterway (412)	none	Construct berm and adjacent grassed waterway to block water from entering ranch headquarters and redirect water to existing and proposed culverts and new building gutters.	280 LF grassed waterway and adjacent berm	CRLF	Ranch vegetation consists of annual & perennial graminoids & forbs.	Informal consultation under existing (2002) biological opinion with USFWS		
2017-02	TOMALES BAY	Active rangeland	Structure for Water Control (587)	Water Board General Restoration Permit	Remove existing culvert and install new culvert under corral to reduce potential nutrient and sediment flow into waterway. Approximately 125 LF riparian fencing will be installed at the outflow of the culvert as a supportive conservation practice.	100 LF culvert	CRLF	Ranch vegetation consists of annual & perennial graminoids & forbs.	Informal consultation under existing (2002) biological opinion with USFWS	none	319 (h) grant
			Grassed Waterway (412)	Water Board General Restoration Permit	Improve existing grassed waterway and install rock weirs every 50 ft to efficiently transport and filter stormwater flow from road and surrounding uplands.	425 LF of grassed waterway; 25 CY rock	CRLF	Ranch vegetation consists of annual & perennial graminoids & forbs.	Informal consultation under existing (2002) biological opinion with USFWS		
			Access Road (NRCS 560)	none	Recontour unpaved existing road to improve drainage. Remove one existing water bar and construct two new water bars.	245 LF road; 10 CY rock	none	Ranch vegetation consists of annual & perennial graminoids & forbs.	Informal consultation under existing (2002) biological opinion with USFWS		
			Structure for Water Control (587)	none	Place culvert under cattle run to convey water from intersecting grassed waterway/ditch to avoid potential nutrient loading from cattle crossing.	40 LF culvert	none	Ranch vegetation consists of annual & perennial graminoids & forbs.	Informal consultation under existing (2002) biological opinion with USFWS		
			Grassed Waterway (412)	Water Board General Restoration Permit	Construct berm and adjacent grassed waterway to block water from entering corral.	90 LF of berm and adjacent grassed waterway	CRLF	Ranch vegetation consists of annual & perennial graminoids & forbs.	Informal consultation under existing (2002) biological opinion with USFWS		
2017-03	TOMALES BAY	Active rangeland	Access Road (560)	Potentially \$401/\$404	Improve drainage on existing access route to reduce potential nutrient and sediment delivery to Olema Creek tributary.	115 LF road	CRLF	Not on agricultural land. Vegetation consists of annual & perennial graminoids & forbs with riparian understory adjacent to tributary. All work will be above OHW.	Informal consultation under existing (2002) biological opinion with USFWS	none	319 (h) grant
			Critical Area Planting (342)	none	Plant site-appropriate locally-sourced riparian plants within fenced area. Approximately 880 LF riparian fencing will be installed as a supportive conservation practice.	880 LF (0.5 ac) riparian planting	CRLF, coho & steelhead	Riparian understory vegetation.	Informal consultation under existing (2002) biological opinion with USFWS		
2017-04	TOMALES BAY	Active rangeland	Critical Area Planting (342)	none	Plant site-appropriate locally-sourced riparian plants within fenced area. Riparian fencing will be installed as a supportive conservation practice (McFadden: 350 LF) and (C. Rogers 300 LF).	100 LF (0.3 ac) riparian planting at McFadden and 250 LF (0.25 ac) riparian planting at C. Rogers Ranch	CRLF	Riparian understory vegetation.	Informal consultation under existing (2002) biological opinion with USFWS	none	319 (h) grant