

Site Management Plan

(Tier 1, Low Risk)

WDID - 1_12CC408066

Humboldt County APN: 222-042-011-000

Prepared by:



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Purpose

This Site Management Plan (SMP) has been prepared on behalf of the cannabis cultivator for the Humboldt County property identified as Assessor Parcel Number 222-042-011, by agreement and in response to the State Water Resources Control Board Cannabis Cultivation Policy (Cannabis Policy), in congruence with Order WQ 2019-0001-DWQ General Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities (General Order). The General Order implements the Cannabis Policy requirements, specifically those requirements that address waste discharges associated with cannabis cultivation activities. Cannabis cultivators covered under the General Order are subject to the requirements of the Cannabis Policy in its entirety. The Cannabis Policy provides a statewide tiered approach for permitting discharges and threatened discharges of waste from cannabis cultivation and associated activities, establishes a personal use exemption standard, and provides conditional exemption criteria for activities with a low threat to water quality.

Tier Designation

Tiers are defined by the amount of disturbed area. Tier 1 outdoor commercial cultivation activities disturb an area equal to or greater than 2,000 square feet and less than 1 acre (43,560 square feet). Tier 2 outdoor commercial cultivation activities disturb an area equal to or greater than 1 acre. Risk designation for Tier 1 and Tier 2 enrollees under the Cannabis Policy is based on the slope of disturbed areas and the proximity to a surface water body. Characterization is based on the risk designation summarized in Table 1 below.

Table 1: Summary of Risk Designation

	Low Risk		Moderate Risk		High Risk
. *	No portion of the disturbed area is located on a slope greater than 30 percent, and	•	Any portion of the disturbed area is located on a slope greater than 30 percent, and	*	Any portion of the disturbed area is located within the setback requirements.
•	All of the disturbed area complies with the setback requirements.	•	All of the disturbed area complies with the setback requirements.		

Thorough assessment of the project area including roads, disturbed areas, legacy features, and cultivation areas classify this enrollment into the **Tier 1, Low Risk** designation.

Scope of Report

Tier 1 and Tier 2 cannabis cultivators are required to submit and implement a Site Management Plan that describes how they are complying with the Requirements listed in Attachment A. The description shall describe how all applicable Best Practicable Treatment or Control (BPTC) measures are implemented. Cannabis cultivators within the North Coast Regional Water Quality Control Board jurisdiction are required to submit and implement Site Management Plans that describe how the Requirements are implemented property-wide, to include legacy activities. The SMP includes an Implementation Schedule to achieve compliance, but all work must be completed by the onset of the Winter Period each year. Projects designated as Moderate Risk are also required to have a Site Erosion and Sediment Control Plan to achieve the goal of minimizing the discharge of sediment off-site. Projects designated as High Risk are also required to have a Disturbed Area Stabilization Plan to achieve the goal of stabilizing the disturbed area to minimize the discharge of sediment off-site and comply with the setback requirements. The cannabis cultivator shall ensure that all site operating personnel are familiar with the contents of the General Order and all technical reports prepared for the property. Projects which have over one acre of cannabis cultivation (total canopy area) are also required to have a Nitrogen Management Plan to describe how nitrogen is stored, used, and applied to crops in a way that is protective of water quality. A copy of the General Order, and technical reports required by the General Order, shall be kept at the cultivation site. Electronic copies of these documents are acceptable. Either format of maintained documents kept on site must be immediately presentable upon request.

Methods

The methods used to develop this SMP include both field and office components. The office component consisted of aerial photography review and interpretation, existing USGS quad map review, GIS mapping of field data, review of on-site photography points, streamflow calculations, general planning, and information gathered from the cannabis cultivator and/or landowner. The field component included mapping of all access roads, vehicle parking areas, Waters of the State, stream crossings, drainage features, cultivation sites, buildings, disturbed areas, and all other relevant site features within the project are and surrounding areas (as feasible). Cultivation areas, associated facilities, roads, and other developed and/or disturbed areas were assessed for discharges and related controllable water quality factors from the activities listed in the General Order. The field assessment also included an evaluation and determination of compliance with all applicable BPTC's per Section 2 of the General Order.

Property Description

The property assessed consists of one parcel totaling 180 acres located approximately 3 miles southwest of Benbow, California, at an elevation of approximately 1,400 feet above mean sea level. The property is located in Section 3, T5S, R3E, HB&M, Humboldt County, from the Garberville USGS 7.5' Quad. Unnamed Class II and III watercourses flow south-north through the property that drain to Sawmill Creek, which is tributary to South Fork Eel River.

Project Description

Cannabis cultivation on the property consists of five 20' x 85' hoop-houses and approximately 1,527 ft² of outdoor cultivation, for a total, general cultivation area¹ of 10,807 ft². The cultivation areas are located within 38,139 ft² of disturbed area, which are located in three separate areas on the property. The disturbed areas adhere to the disturbance and riparian setback parameters. This project is being permitted by Humboldt County to cultivate cannabis. This project was not previously enrolled in the North Coast Regional Water Quality Control Board Order No. R1-2015-0023 and has since enrolled with State Water Resources Control Board as WDID-1_12CC408066. This project is being classified as Tier 1, Low Risk.

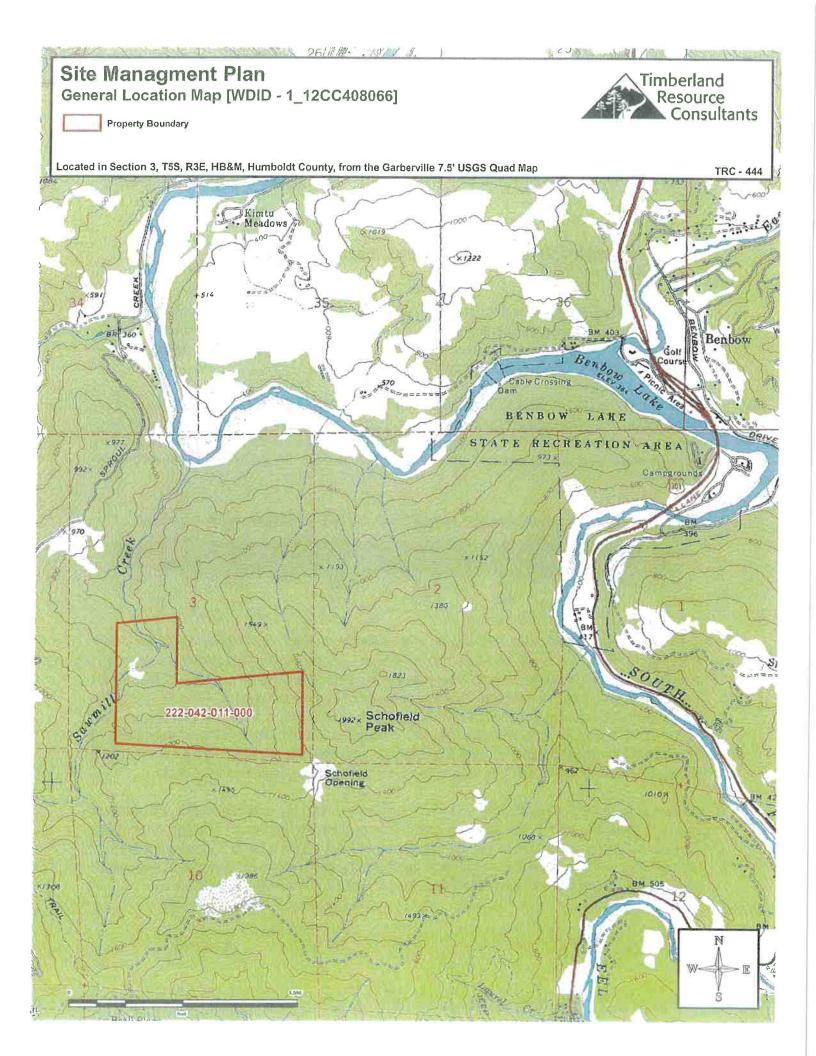
(Ceneral) Adhanianig läfflelogers Lerinia Distantornacia Califyetton Contrivation Arcail (%) (charles) Ama Alicei (fif) (((i?))5,100 11 10,100 Α 1,800 25 5,617 В 28 C 3,900 22,422 10,807 38,139 Totals:

Table 1: Cultivation Site Parameters.

¹ Area refers to the total land disturbance area. The total cannabis canopy area may vary considerably than the disturbance area.

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SIUR	Small Irrigation and Use Registration Filed with Division of Water Rights – #H506547
LSAA/1600	Lake and Streambed Alteration Agreement from CDFW – Notification No. 1600-2017-091-R1

Table 2: Project Permitting



Baseline Assessment of Requirements Related to Water Diversions and Waste Discharge for Cannabis Cultivation

This project is newly enrolled in the State Water Quality Control Board Order No. WQ 2019-0001-DWQ.

<u>Land Development and Maintenance, Erosion Control, and Drainage Features</u> Project Compliance Y□/N⊠

Roads are being classified as "permanent" (roads appurtenant to the project being used year-round), "seasonal" (roads appurtenant to the project being used primarily during summer months), "legacy" (roads not appurtenant to the project receiving little to no use), and "trail" (being used for occasional access to features on the property).

Roads within the project area appear to have a moderate native rock component and, based on observations of surface erosion relative to current surface drainage break frequency, are being classified as having low erodibility. This classification will be utilized to determine surface/ditch-line drainage break frequency based on Table 19 of the Handbook for Forest Ranch and Rural Roads, 2014.

TABLE 19. Recommended maximum rolling dip and ditch relief culvert spacing, in feet, based on road gradient and soil erodibility 1,2

6	Road	gradient (%) a	nd drainage stru	cture spacing (I	(eet)
	0-3	4-6	7-9	10-12	>12
High to moderate	250	160	130	115	100
Low	400	300	250	200	160

Roads assessed by TRC were found to be in acceptable condition with imported rock surfacing. The majority of access roads, permanent and seasonal, are out-sloped with gentle gradients and adequately drained to allow surface/ditch-line water drainage. However, sections of permanent roads and legacy roads require either the maintenance of existing drainage features or installation of new drainage features. Installation and maintenance of rolling dips, water bars, and ditch relief culverts (DRC) is required in multiple sites and shall be replaced/repaired to the specifications in the appropriate attached BMP's. See the attached photographs, Mitigation Report, Treatment Implementation Schedule, and Site Map to follow for site specific details and treatments.

Cultivation Areas A & C are located on a previously graded flats with well vegetated and stable fill slopes. Cultivation Area B is located on previously graded flat that is not draining adequately. Surface runoff is concentrated to a single area of the fill slope at Site 47 and is causing a section of erosion. This will be mitigated through hand trenching the flat to direct surface runoff are located on previously graded flats and no significant signs of erosion or instability were identified.

Cleanup, Restoration, and Mitigation:

Project Compliance Y⊠/N□

No revegetation besides seeding and mulching disturbed areas are being prescribed.

Stream Crossing Installation and Maintenance:

Project Compliance Y□/N⊠

Eighteen watercourse crossings were identified during the assessment of the property. Eleven crossings (Sites 03, 05, 10, 17, 20, 24, 25, 30, 31, 36, & 44) shall be removed as the existing culverts are undersized for a 100-year storm event and/or in need of replacement.

Realignment of an unnamed Class II & III watercourse has been prescribed in the Lake and Streambed Alteration Agreement (LSAA/1600) with California Department of Fish & Wildlife (CDFW) Notification No. 1600-2017-091-R. Installation, repairs, and replacements of drainage features and culverts that intercept these watercourses are outlined in the attached photographs, Mitigation Report, Treatment Implementation Schedule, and Site Map to follow for site specific details and treatments.

A Lake and Streambed Alteration Agreement (LSAA/1600) with California Department of Fish & Wildlife (CDFW) has been finalized as of the writing of this assessment for the proposed work on watercourse crossings. Any work that is not prescribed in the LSAA/1600 will require an amendment to an existing LSAA/1600 or a new LSAA/1600 with CDFW. Any additional guidelines, treatments, or restrictions set forth under the finalized Lake and Stream Alteration Agreement shall be followed.

Soil Disposal and Spoils Management:

Project Compliance Y□/N⊠

Any/all spoils generated through development or maintenance of roads, driveways, earthen fill pads, or other cleared or filled areas have not been sidecast in any location where they can enter or be transported to surface waters. Any/all future spoils generated as a result of any future construction projects that are to be stored on the property shall be done so in accordance with the BTPC.

Riparian and Wetland Protection and Management:

Project Compliance Y⊠/N□

No disturbed areas were identified as being within riparian areas. However, the realignment of a Class III watercourse at Site 41 brings the permanent road into the riparian setback. This portion of road within the riparian setback is in sloped away from the watercourse and has rock surfacing, adequate surface drainage features, and does not pose a threat to water quality. See the Mitigation

Report, Treatment Implementation Schedule, and Site Map to follow for site specific details and treatments.

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િતાકામનો હતા જોવાલ	Class I [Selback: 1507]	(Class Noor Watend (Salvack: 1900))	(Charseith [fSielbank: 500]	Peremeral Spring Esertivels (1507)	Diestenberei Ancer Whiting Scalerecke (AC)						
Cultivation Area A	>200'	>200'	>200'	>200'	0						
Cultivation Area B	>200'	>200'	60'	>200'	0						
Cultivation Area C	>200'	>200'	>200'	>200'	0						
***************************************				Total =	0						

Table 4: Riparian and Wetland Protection and Management

Water Storage and Use:

Project Compliance Y□/N⊠

All water on the property is derived from a groundwater well located on the property. This well meets and exceed the required water demands for agricultural use. At present there is procedures in place to record water usage associated with the irrigation of cannabis. A metering device and/or a procedure to monitor water usage shall be used to record all water used for the irrigation of cannabis. No matter the source or means of measurement, per the State General Order, all water used for the irrigation of cannabis shall be recorded daily and recorded water use data shall be kept and maintained for 5 years. Water use may be recorded by meter(s), calculated irrigation times, pump and fill, tank measurements, or any other reasonably accurate means. These records are to be current, maintained, kept on site, and presentable should they be requested. Monthly water usage shall be recorded for annual reporting purposes.

Water is stored in three 5,000-gallon tanks and fertilizer mixing occurs in two 5500-gallon tanks. Tank lids shall be kept closed at all times when access is not needed. Tanks that do not utilize lids shall be retrofitted to be enclosed from wildlife. Overflow prevention measures shall be installed on water storage and transfer infrastructure or water storage tanks to prevent the overflowing of tanks and unnecessary waste of water resources when water storage infrastructure has filled. Water conservation measures such as drip line irrigation, morning or evening watering, and mulch or cover cropping of cultivated top soils shall also be implemented.

At this time, the cannabis cultivator has 15,000 gallons of water storage installed and intends to install additional water storage tanks. Monthly water usage estimates and the season total are as follows below.

Table 5: Estimated Annual Water Use

2019	January	February	March	April	May	June	July	August	September		Nov	December
Cannable Irrigation	0	0	0	979	2,274	3,030	3,791	3,791	2,653	758	.0	0
								~··~		Total AG \	Nater Use ≠	17,276

A Lake and Streambed Alteration Agreement with the California Department of Fish and Wildlife, as well as an Initial Statement of Water Diversion has been finalized as of the writing of this assessment. Any additional guidelines, treatments, or restrictions set forth under the finalized Lake and Stream Agreement shall be followed.

During visits to the property, no irrigation runoff, or evidence of such runoff, was observed at any of the cultivation areas.

Fertilizers, Soils, Pesticides, and Petroleum Products:

Project Compliance Y⊠/N□

Fertilizers, pesticides, potting soils, compost, and other soils and soil amendments are not stored currently on the property in a manner in which they will not enter or be transported into surface waters and so that nutrients or other pollutants will not be leached into groundwater. Cultivation areas are currently maintained so as to prevent nutrients from leaving the site during the growing season and post-harvest.

Fertilizers and soil amendments shall be applied and used per the manufacturer's guidelines. The use of pesticide products shall be consistent with product labeling and all products on the property are to be stored in closed structures to ensure that they do not enter or are released into surface or ground waters.

Any/all fuel canisters, motor oil containers, and generators (large or small) shall be stored in secondary containment (e.g. drip pans, plastic totes, or sealed metal boxes) while being stored long term or not in immediate use, wherever these materials are used anywhere on the property. See the Mitigation Report, Treatment Implementation Schedule, and Site Map to follow for site specific details and treatments.

Should the cannabis cultivator at any point in the future obtain fuel storage or petroleum products, any/all future petroleum products and other liquid chemicals, including but not limited to diesel, biodiesel, gasoline, and oils shall be stored so as to prevent their spillage, discharge, or seepage into receiving waters. Storage tanks and containers shall be of suitable material and construction to be compatible with the substance(s) stored and conditions of storage such as pressure and temperature. Above ground storage tanks and containers shall be provided with a secondary means of containment for the entire capacity of the largest single container and sufficient cover shall be provided to prevent any/all precipitation from entering said secondary containment vessel. Cannabis cultivators shall ensure that diked areas are sufficiently impervious to contain discharged chemicals. Cannabis cultivators shall implement spill prevention, control, and countermeasures

Annual Winterization Measures

Winterization measures consist of general cleanup and winter-preparation activities that both prepare for, and utilize, anticipated, local winter weather. In project areas that may become inaccessible during periods, or the entirety, of the winter, additional winterization procedures and precautions may be required due to the potential absence of winter monitoring.

- Any exposed soils resulting from winterization activities shall be seeded and straw mulched.
- Any/all areas of exposed soils in and around cultivation areas be seeded and either straw mulched with weed free straw or woodchips.
- All existing culvert inlets, interiors, and outlets shall be cleared of any existing or potential obstructions to include; debris upstream of the culvert such as sediment, loose, moveable rocks, and raftable, small, woody debris.
- Damage or wear resulting from vehicular use to road surfaces (such as rutting or wheel tracks) and/or road surfacing (such as rock) that would impair road surface drainage or drainage features (such as outsloping, waterbars, rolling dips, etc.) shall be repaired prior to the Winter Period.
- All existing surface drainage features and sediment capture features shall be maintained if needed to ensure continued function through the Winter Period.
- All fertilizers and petroleum products will be stored in an area located outside of riparian setbacks, completely sealed, placed in a secondary containment (liquids), and stored in a manner that prevents contact with precipitation and surface runoff.
- Chemical tollets will be removed from the property until need resumes the following cultivation season, or at a minimum serviced and left unused during periods when not in use.
- Water storage tank lids shall be appropriately closed to prevent the access of wildlife.
- All refuse/trash shall be removed and disposed of appropriately.
- All inorganic material capable of being transported by wind or rain shall be secured and stored appropriately.

(SPCC) and have appropriate cleanup materials available onsite if the volume of a fuel container is greater than 1,320 gallons. Underground storage tanks 110 gallons and larger shall be registered with the appropriate County department and comply with state and local requirements for leak detection, spill overflow, corrosion protection, and insurance coverage. On site storage of petroleum products, or other fuels used for commercial activities may require registration as hazardous materials through the California Environmental Reporting System (CERS). Additionally, any waste oil generated from commercial activities (generators) is considered by the state hazardous waste and requires addition reporting. This cannabis cultivator is advised to contact local agencies to find out if such reporting is applicable to currently operations.

Cultivation-Related Wastes:

Project Compliance Y□/N⊠

Minor amounts of cultivation-related wastes, including, but not limited to, empty soil/soil amendment/ fertilizer/pesticide bags and containers, empty plant pots or containers, dead or harvested plant waste, and spent growth medium, were identified at past cultivation sites. These shall be stored in locations where they can enter or be blown into surface waters, or in a manner that could result in residues and pollutants within such materials to migrate or leach into surface water or groundwaters.

Organic cultivation-related wastes are collected from the cultivation areas and either disposed of properly with general waste or composted. The cannabis cultivator shall ensure that the locations where organic wastes are stored or composted are minimized in number and are sited outside of watercourse riparian areas and away from any form of surface runoff.

Non-organic cultivation-related wastes are stored in lidded trashcans and garbage bags adjacent to or in the residence, sheds, and cultivation areas and are disposed of regularly at a solid waste transfer station. The cannabis cultivator shall continue to gather and properly dispose of cultivation-related wastes and ensure that wastes are adequately contained from scavenging wildlife, and cannot be transported away from storage areas by wind or surface runoff.

Refuse and Domestic Waste:

Project Compliance Y□/N⊠

Garbage and refuse were identified as being inadequately stored on the property. Refuse was identified at Site 02 near a watercourse. Garbage and refuse are to be stored on the property within lidded trash cans and garbage bags and disposed of regularly at the nearest solid waste transfer station. The cannabis cultivator shall continue to gather and properly dispose of refuse and ensure that refuse is adequately contained from scavenging wildlife, and cannot be transported away from storage areas by wind or surface runoff.

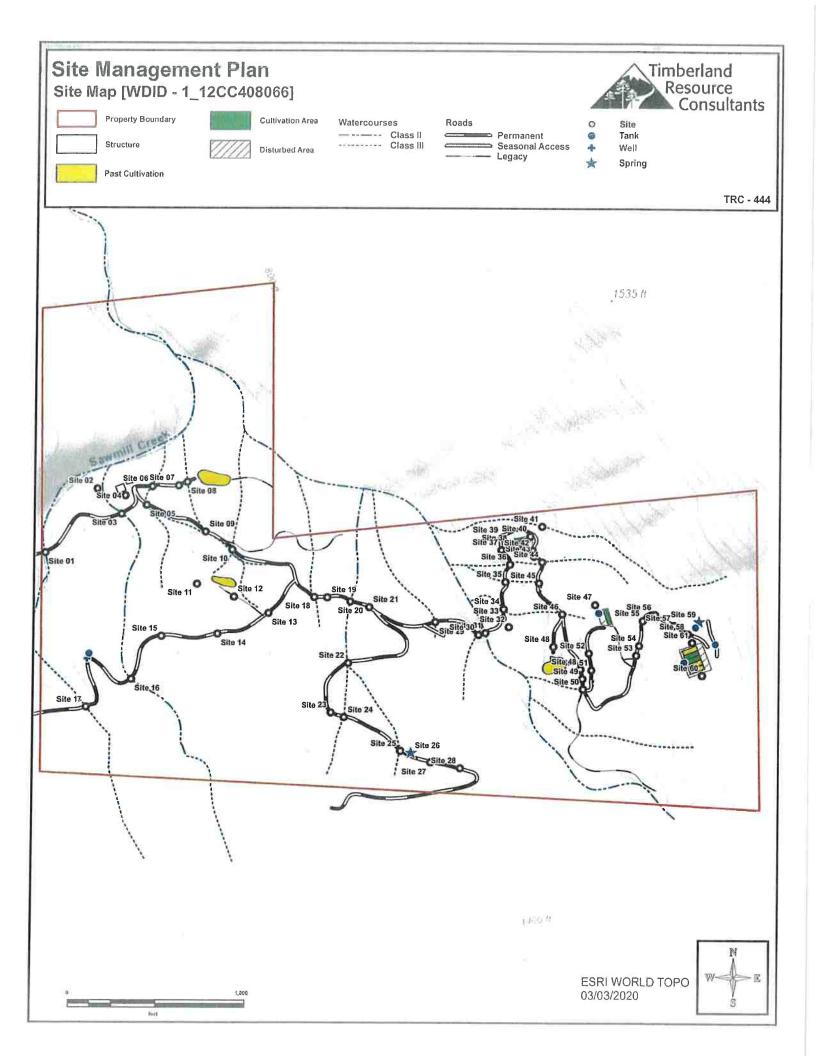
STATEMENT OF CONTINGENT AND LIMITING CONDITIONS CONCERNING THE PREPARATION AND USE OF REPORTS ADDRESSING GENERAL WASTE DISCHARGE REQUIREMENTS UNDER ORDER WQ 2017-0023-DWQ

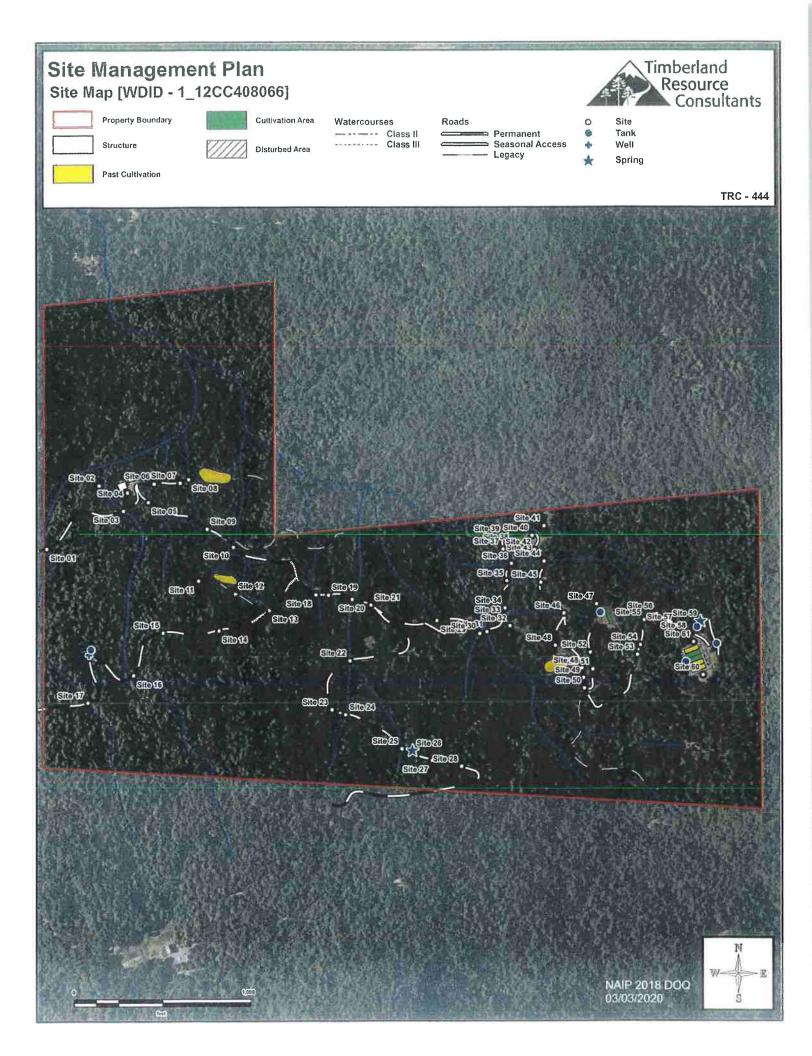
Prepared by Timberland Resource Consultants

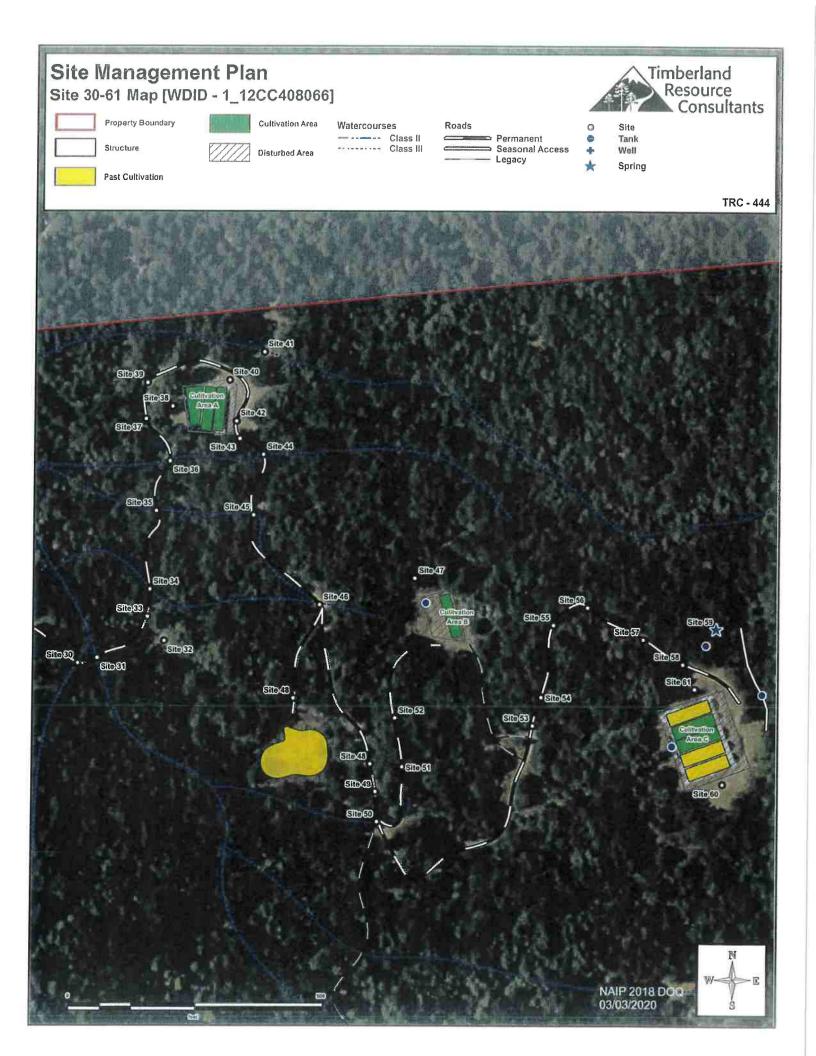
- 1. This document has been prepared for the property within APN 222-042-011, in Humboldt County, for enrollment in the General Waste Discharge Order WQ 2019-0001-DWQ.
- 2. Timberland Resource Consultants does not assume any liability for the use or misuse of the information in this document.
- 3. The information is based upon conditions apparent to Timberland Resource Consultants at the time inspection(s) were conducted. Changes due to land use activities or environmental factors occurring after inspection, have not been considered in this document.
- 4. Maps, photos, and any other graphical information presented in this report are for illustrative purposes. Their scales are approximate, and they are not to be used for locating and establishing boundary lines.
- 5. The conditions presented in this document may differ from those made by others or from changes on the property occurring after inspections were conducted. Timberland Resource Consultants does not guarantee this work against such differences.
- 6. Timberland Resource Consultants did not conduct an investigation on a legal survey of the property.
- 7. Persons using this document are advised to contact Timberland Resource Consultants prior to such use.
- 8. Timberland Resource Consultants will not discuss this document or reproduce it for anyone other than the Client for which this document was prepared without authorization from the Client.

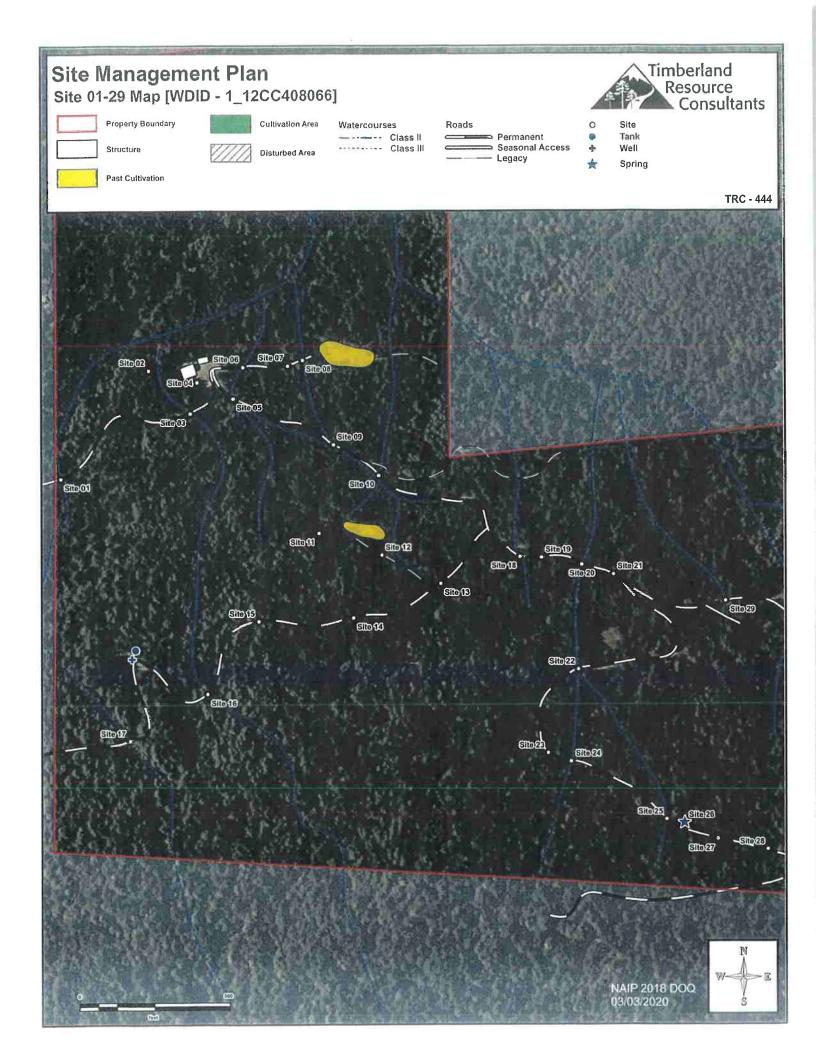
Anna Urias

Timberland Resource Consultants











Treatment Implementation Schedule

Unique Point	Proposed Work Completion Date
	Immediately
Site 02	Immediately
Site 04	Immediately
Site 48	Immediately
	As Required
Site 40	As required
	Prior to 10/15/20
Site 03	Prior to 10/15/20
Site 05	Prior to 10/15/20
Site 09	Prior to 10/15/20
Site 10	Prior to 10/15/20
Site 11	Prior ta 10/15/20
Site 12	Prior to 10/15/20
Site 15	Prior to 10/15/20
Site 17	Prior to 10/15/20
Site 20	Prior to 10/15/20
Site 21	Prior to 10/15/20
Site 23	Prior to 10/15/20
Site 24	Prior to 10/15/20
Site 25	Prior to 10/15/20
Site 27	Prior to 10/15/20
Site 28	Prior to 10/15/20
Site 30	Prior to 10/15/20
Site 31	Prior to 10/15/20
Site 36	Prior to 10/15/20
Site 37	Prior to 10/15/20
	Prior to 10/15/20
Site 46	Prior to 10/15/20
Site 47	Prior to 10/15/20
Site 49	Prior to 10/15/20
Site 52	Prior to 10/15/20
	Prior to 10/15/20
lite 54	Prior to 10/15/20
lite 55	Prior to 10/15/20
ite 56	Prior to 10/15/20
ite 57	Prior to 10/15/20
ite 58	Prior to 10/15/20



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Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 01	-123.829384 40.047028	Permanent	и	,	*	*	
Current Condition adequately that		ference to an exi Il watercourse.	sting beam brid	lge functior	ning	Prescribed Action; None.	
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 02	-123.82835 40.048013	, ÷	x	*	, in	Immediately	
Current Condition	on: Cultivatio	n waste and refu	se near a Class	II watercou	irse.	Prescribed Action: Remove and ensure proper storage refuse. See Past Cultivation Areas in this report below f waste removal and storage specifications.	
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 03	-123.827855 40.047626	Permanent	x	Х.	×	Prior to 10/15/20	
Current Condition Culvert is function 100-year storm	ioning adequat	24" diameter culv tely however it is	vert on a Class I misaligned and	l watercour i undersize	se. d for a	Prescribed Action: The culvert shall be replaced with a diameter culvert to the specifications in the attached BN Culvert Crossing.	
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Wonitor	1600	Treatment Priority	Date Completed
Site 04	-123.827777 40.047909	Permanent	x	<u>.</u>		Immediately	
Current Conditi	on: Parking o	occurring in a ripa	arian setback.	<u> </u>	-	Prescribed Action: Discontinue use of parking or any fi disturbance in the area.	orms of regular
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Wonitor	1600	Treatment Priority	Date Completed
Site 05	-123.827353 40.047763	Permanent	х	х	х	Prior to 10/15/20	
		18" diameter culv quately however				Prescribed Action: The culvert shall be replaced with a diameter culvert to the specifications in the attached BN Culvert Crossing.	
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 06	-123.827238 40.04805	Permanent	· W	х	*	*	
		30" diameter culv vear storm event.		well and	A <i>nomonome</i>	Prescribed Action: None.	Acquain Acquain Acquain ann an Acquain ann ann an Acquain ann ann an Acquain ann ann an Acquain ann ann ann an
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
		······································		1	T	I	



						WDID# *	1_12CC40806
Current Condit	tion: Existing	12" dlameter DR	C functioning v	/ell.		Prescribed Action: None.	TO CHE THE ROLL OF THE PARTY OF
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Complete
Site 08	-123.826535 40.048117	Permanent	*	x	*	•	**************************************
Current Condit	ion: Existing	18" diameter DR	C functioning w	rell.	.L	Prescribed Action: None.	······································
Jnique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Complete
Site 09	-123.826153 40.047354	Permanent	×	×	*	Prior to 10/15/20	
Current Conditi out.	ion: Existing	DRC that is func	tioning adequat	ely but is ru	isted	Prescribed Action: The DRC shall be repaired/replace specifications in the attached BMP's: Ditch Relief Cul	
Jnique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Complete
Site 10	-123.825617 40.047077	Permanent	х	×	х	Prior to 10/15/20	
furrent Conditional to the original to the ori		ent of a Class II v	watercourse fro	m an Inside	ditch	Prescribed Action: The culvert shall be replaced with diameter culvert to the specifications in the attached in Culvert Crossing.	
Inique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Complete
Site 11	-123.826317 40.046548	Legacy	X	Ħ	*	Prior to 10/15/20	
urrent Condition	on: Cultivatio	n waste located :	at a past cultiva	tion site.		Prescribed Action: Remove any remaining fencing, p treflising, or other cultivation-related wastes and mate areas. See Past Cultivation Areas in this report below waste removal and storage specifications.	rials from these
nique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completes
Site 12	+123.825572 40.046354	Legacy	x	x		Prior to 10/15/20	***************************************
urrent Conditio at was a past o		n line from the pe 3.	rmanent road d	iraining to a	1	Prescribed Action: Install new water bar to the specification attached BMP: Waterbar Construction.	ications in the
nique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 13	-123.824872 40.046101	Permanent		×	-		***************************************
irrent Conditio	n: 12" dlame	ter DRC function	ing well with a r	ock armore	d	Prescribed Action: None.	



Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Wonitor		Treatment Priority	Date Completed
Site 14	-123.825898 40.045784	Permanent	***************************************	X) -		***************************************
Current Conditi	on: Existing r	olling dip functio	oning adequate)	y.	I.,	Prescribed Action: None.	4
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 15	-123.827024 40.045745	Permanent	×	×		Prior to 10/15/20	
Current Conditi	on: Road lack	s adequate surfa	ace drainage sti	ructures.	***************************************	Prescribed Action: A new rolling dip shall be insta specifications in the attached BMP's: Rolling Dip D Placement.	alled to the resign and
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 16	-123.82762 40.045085	Permanent	į.	x	*	ý.	
		00" diameter culv ear storm event.	ert functioning	well and		Prescribed Action: None.	geological del del del del del del del del del de
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 17	-123.828534 40.044656	Permanent	х	x	х	Prior to 10/15/20	
Current Conditi sized for a 100-			rert functioning	adequately	but not	Prescribed Action: The culvert shall be replaced valuemeter culvert to the specifications in the attached culvert Crossing.	with a minimum 42" ad BMP's: Permanen
Unique Point	Lat-Long NAD 83	Road Type	Wiltigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 18	-123.823936 40.046349	Permanent	*	X		,	
		24" diameter culv ear storm event.		well and		Prescribed Action: None.	addis 1900/09/04/14/14/14/14/14/19 is 1999 year to are a portugue para a marina a
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 19	-123.823683 40.046344	Permanent	*	x	-	-#	
Current Conditi	on: Existing	olling dip is fund	tioning adequa	tely.	A.cos.usoroumododo	Prescribed Action: None.	<u></u>
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
**************************************	-123.823211		x	х	х	Prior to 10/15/20	***************************************



CONTRACTOR AND			zelogozetek kenergeren			WDID# -	1_12CC40806
Current Condi undersized for		g 18" dlameter cu orm event.	lvert functionin	g adequatel	y but is	Prescribed Action: The culvert shall be replaced will diameter culvert to the specifications in the attached Culvert Crossing.	th a minimum 30" I BMP's: Permanen
Unique Point	Lat-Long NAD 83	Road Type	Witigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 21	-123.822832 40.046198	Permanent	x	х		Prior to 10/15/20	**************************************
Current Condit	tion: Road la	cks adequate sûr	face drainage s	tructures.	···	Prescribed Action: A new rolling dip shall be install specifications in the attached BMP's: Rolling Dip De Placement.	ed to the sign and
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 22	-123,82324 40.045336	Permanent	. *	x	•	***	
		30" diameter cul year storm eveni		well and		Prescribed Action: None.	anne ann an Aireann ann an Aireann an Aireann ann ann ann ann ann ann ann ann ann
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 23	-123.823585 40.044577	Permanent	х	×		Prior to 10/15/20	
Current Conditi	ion: Road lac	ks adequate surf	ace drainage st	ructures.		Prescribed Action: A new rolling dip shall be install specifications in the attached BMP's: Rolling Dip Des Placement.	ed to the sign and
Jnique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 24	-123.823316 40.044504	Permanent	×	Х	Х	Prior to 10/15/20	**************************************
Current Conditions undersized fo		18" diameter culv torm event.	l Vert is functionli	ng adequate	ely but	Prescribed Action: The culvert shall be replaced wit diameter culvert to the specifications in the attached Culvert Crossing.	h a minimum 24" BMP's: Permanent
Inique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 25	-123.822182 40.043988	Permanent	x	х	х	Prior to 10/15/20	***************************************
urrent Condition ndersized for a		18" diameter culv m eyent.	ert functioning	adequately		Prescribed Action: The culvert shall be replaced with diameter culvert to the specifications in the attached Culvert Crossing.	n a minimum 24" BMP's: Permanent
nique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
614, 96	-123.821968 40.04396		÷	Pa	idan mendendan kelanda))	***************************************
Site 26						Prescribed Action: None.	
	on: Spatial re	ference to a sprir	ig that partially	drains to Si	te 25.	Flescribed Action: Notie.	



	Prior to 10/15/20	25-	х	X .	Permanent	-123.821573 40.043815	Site 27
Prescribed Action: A new rolling dip shall be installed to the specifications in the attached BMP's: Rolling Dip Design and Placement. This is the closest feasible location for a new rolling dip to be installed due to the spring located at Site 26.			uctures.	ace drainage str	ls adequate surfa		Current Condition
Date Completed	Treatment Priority	1600	Monitor	Mitigation Planned	Road Type	Lat-Long NAD 83	Jnique Point
	Prior to 10/15/20	*	×	x	Permanent	-123.820977 40.043727	Site 28
	Prescribed Action; A new rolling dip shall be installe specifications in the attached BMP's: Rolling Dip Des Placement.		uctures.	ace drainage str	s adequate surfa	on: Road lack	Current Condition
Date Complete	Treatment Priority	1600	Monitor	Mitigation Planned	Road Type	Lat-Long NAD 83	Unique Point
	•	- 107	х	, sa	Permanent	-123.821503 40.045968	Site 29
Western Control of the Control of th	Prescribed Action: None.	L	well and		80" diameter culv ear storm event.		
Date Complete	Treatment Priority	1600	Monitor	Mitigation Planned	Road Type	Lat-Long NAD 83	Unique Point
	Prior to 10/15/20	х	х	X	Permanent	-123,820634 40.045773	Site 30
	Prescribed Action: The culvert shall be replaced wit diameter culvert to the specifications in the attached Culvert Crossing.	itely.	ing adequa	rert not function	8" diameter culv	on: Existing 1	Current Conditi
Date Complete	Treatment Priority	1600	Monitor	Mitigation Planned	Road Type	Lat-Long NAD 83	Unique Point
	Prior to 10/15/20	х	х	x	Permanent	-123.820493 40.045802	Site 31
	Fire a salte of Nutteen. The molecule shall be reallowed salt	ized for	but unders	vert functioning	18" diameter culv		Current Conditi 1 100-year storn
	Prescribed Action: The culvert shall be replaced will diameter culvert to the specifications in the attached Culvert Crossing.						
	diameter culvert to the specifications in the attached Culvert Crossing.	1600	Monitor	Mitigation Planned	Road Type	Lat-Long NAD 83	Unique Point
3MP's: Permane	diameter culvert to the specifications in the attached Culvert Crossing.	1600	Monitor X		Road Type Permanent		Unique Point Site 32
3MP's: Permane	diameter culvert to the specifications in the attached Culvert Crossing. Treatment Priority -	" Surface	X t location. S	Planned	***************************************	NAD 83 -123.820029 40.045896 on: Spatial re	Site 32 Current Condition
3MP's: Permane	diameter culvert to the specifications in the attached Culvert Crossing. Treatment Priority - Prescribed Action: None.	Surface h line	X t location. S	Planned	Permanent	NAD 83 -123.820029 40.045896 on: Spatial re	Site 32 Current Conditional Conditions of the condition of the road.
Date Complete	diameter culvert to the specifications in the attached Culvert Crossing. Treatment Priority - Prescribed Action: None.	Surface h line	X t location. S om the dito	Planned sting borrow pl disconnected fr	Permanent ference to an exl s hydrologically o	NAD 83 -123.820029 40.045896 on: Spatial rene borrow pit is	Current Condition



CENTRAL CONTRACTOR CON					*************	r - Halavy	_120040806
Unique Poin	Lat-Long	Road Type	Mitigation Planned	Monitor			Date Completed
Site 34	-123.820135 40.04617	Permanent	¥i	х	*		······································
Current Condi appropriately s	tion: Existing sized for a 100	24" diameter cul -year storm event	vert functioning	j well and	***************************************	Prescribed Action: None.	
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 35	-123.820101 40.04659	Permanent	*	×		si .	
Current Condit a 100 year stor		18" diameter cul	vert functioning	well and sl	zed for	Prescribed Action: None.	
Jnique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 36	-123.820011 40.046857	Permanent	х	x	х	Prior to 10/15/20	***************************************
Current Condition		36" diameter CMI	culvert functi	oning but		Prescribed Action: The culvert shall be replaced with diameter culvert to the specifications in the attached B Culvert Crossing.	a minimum 30" MP's: Permanen
Jnique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 37	-123.820185 40.047081	Permanent	X	х	**	Prior to 10/15/20	*****
Current Conditi	on: Road laci	ks adequate surfa	ice drainage sti	uctures.	***************************************	Prescribed Action: A new rolling dip shall be installed specifications in the attached BMP's: Rolling Dip Desig Placement.	
Inique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 38	-123.82 40.047149	#4	p i	×	, a	• • • • • • • • • • • • • • • • • • •	
urrent Condition	on: Fill slope	of previously gra	ded flat.			Prescribed Action: Fill slope is well vegetated and no instability or erosion were identified.	signs of
nique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 39	-123.82018 40.047274	Permanent	in the state of th	×	iv .	<u>*</u>	****
urrent Condition board ditch lin		2" diameter DRC	functioning we	II and drain	ing	Prescribed Action: None.	
nique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 40	-123.819602	Permanent	x	x		As required	***************************************



Current Conditi Cultivation Site	on: Spatial re A is greater th	ference to the ed an 50' away from	ige of a disturbe riparian setbac	ed area for		Prescribed Action: The Cultivator shall ensure that is seeded and straw mulched as needed and any padiscontinued.	
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 41	-123.819363 40.047445	Permanent	*	x	x		
Current Conditi the original cha		vatercourse ls in	the process of	being realig	jned to	Prescribed Action: None.	99-94-95-95-95-95-95-95-95-95-95-95-95-95-95-
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 42	-123.81955 40.047074	Permanent	'#	x	×	•	
Current Conditi watercourse at		issioned culvert usly drained .	where the realig	ned Class	iii	Prescribed Action; None.	
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 43	-123.819526 40.046981	Permanent	#	×	х	A	
Current Conditi watercourse re		culvert being turn	ned into DRC wi	th the Clas	s III	Prescribed Action: None.	
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 44	-123.819357 40.046897	Permanent	X	x	*	Prior to 10/15/20	
	zed for a 100-y	24" dlameter culv year storm event.			uately	Prescribed Action: The critical dip shall be repaire specifications in the attached BMP'S: Permanent C	
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 45	-123.819418 40.046573	Permanent	*	X	-	•	
Current Conditi functioning ade		10" diameter DRC	drains Inboard	ditch line	and Is	Prescribed Action: None.	general programme and the second seco
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 46	-123.818946 40.046097	Permanent	*	X	4	Prior to 10/15/20	
appropriately si	on: Existing : zed for a 100-y ne steep road (l 24" diameter culv vear storm event. grade.	ert functioning A critical dip is	well and not feasibl	le for	Prescribed Action: None.	
cuivert and to ti					-		A STATE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.



*******	npanamananananan		n de la company de la comp	No was a superior state of the superior stat	ENTER COMMENS	· #DIDW	-1_12CC40806
Site 47	-123.818283 40.046243	Permanent	x	×		Prior to 10/15/20	
		on previously g noff is concentra				Prescribed Action: The flat shall be hand trenched runoff to multiple locations off the fill slope.	to direct the surface
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Complete
Site 48	-123.818571 40.045251	Permanent	*	x	,		**************************************
		eference to an ex ation lines to pas			ted	Prescribed Action: None.	94009 300 410 miles (h. 1920 1920 1920 1920 1920 1920 1920 1920
Jnique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Wonitor	1600	Treatment Priority	Date Completed
Site 48	-123.819117 40.045597	Legacy	x	**	-	Immediately	
Current Condit	ion: Existing	waste from past	cultivation.	900 - 100 -		Prescribed Action: Remove from site and dispose	of properly.
Jilque Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 49	-123.818533 40.045104	Permanent	x	×		Prior to 10/15/20	1972 1970 1970 1970 1970 1970 1970 1970 1970
Current Gonditi	on: Road laci	cs adequate surfa	ace drainage st	uctures.		Prescribed Action: A new rolling dip shall be instal specifications in the attached BMP's: Rolling Dip De Placement.	
Jnique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 50	-123.818518 40.044944	Permanent	, pr	X	· #:		(************************************
	on: Existing 2 year storm eve	4" diameter culv nt.	ert on grade an	d approprie	itely	Prescribed Action: None.	***************************************
Inique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 51	-123,81835 40.045237	Permanent	•	×	*	¥	
urrent Condition	on: Existing 1	0" diameter DRC	functioning ad	equately.	**************	Prescribed Action: None.	**************************************
nique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 52	-123.818407 40.045497	Permanent	X	х	WE .	Prior to 10/15/20	
urrent Condition quires mainter		π hillside drain ir	nto an existing i	rolling dip t		Prescribed Action: The existing rolling dip shall be repaired/reconstructed to the specifications in the al Rolling Dip Design and Placement.	



		The second secon					7200700000
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 53	-123.817447 40.045464	Permanent	x	·X	۵	Prior to 10/15/20	
Current Conditi	ion: Existing r	olling dip is not	functioning ade	quately.	***************************************	Prescribed Action: The existing rolling dip shall be repaired/reconstructed to the specifications in the atta Rolling Dip Design and Placement.	ched BMP's:
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 54	-123.817389 40.045616	Permanent	х	×	и.	Prior to 10/15/20	
Gurrent Conditi	on: Existing r	olling dip is not	functioning ade	quately.		Prescribed Action: The existing rolling dip shall be repaired/reconstructed to the specifications in the atta Rolling Dip Design and Placement.	ached BMP's:
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 55	*123.817313 40.046001	Permanent	×	x	`**	Prior to 10/15/20	
Current Conditi	ion: Existing i	olling dip is not	functioning ade	quately.	Lannauranan	Prescribed Action: The existing rolling dip shall be repaired/reconstructed to the specifications in the attachment.	ached BMP's:
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 56	-123.817073 40.046097	Permanent	Х	×	**	Prior to 10/15/20	
Current Conditi existing lead-or		litch line does no rd side.	ot extend far en	ough to rea	ch the	Prescribed Action: Extend the ditch line to connect to out and maintain both features.	o the existing lead
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 57	-123.816682 40.04593	Permanent	х	×	*	Prior to 10/15/20	
Current Conditi	on: Road lack	s adequate surfa	ice drainage str	uctures.		Prescribed Action: A new rolling dip shall be installe specifications in the attached BMP's: Rolling Dip Des Placement.	
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	, Treatment Priority	Date Completed
		**************************************		[Prior to 10/15/20	
Site 58	-123.816402 40.0458	Permanent	x	Х	-	Pho to 10/13/20	
Current Conditi	40.0458 on: Surface v	Permanent vater drains to the wn the center of	l e Inboard and o			Prescribed Action: Install a ditch line for both the infoutboard to direct surface runoff and to mitigate riling	
Current Conditi	40.0458 on: Surface v	ater drains to th	l e Inboard and o			Prescribed Action: Install a ditch line for both the inl	



Unique Poin	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completes
Site 60	-123.816114 40.045165	Permanent	At .	,x			***************************************
The site has pr ock content o	eviously been f the cutbank d	of a previously g seeded and strav oes not lend to v billty or erosion v	v mulched; how vegetative grow	ever the he	avy	Prescribed Action: None.	
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
Site 61	-123.816316 40.04567	Permanent		×		,	
		of previously gr I and no signs of				Prescribed Action: None.	
Jnique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
0	-123,818203 40.046112	Permanent	.*	*		*	***************************************
urrent Condit	ion: Spatial re	ference to 550-g	allon mixing tan	k		Prescribed Action:	and the second s
Jnique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
0	-123.81647 40.045363	· 144 .	95.	394		ø	
urrent Conditi	on: Spatlal re	ference to a 550	gallon mixing ta	nk.		Prescribed Action: None.	orea en en la communicación de
	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed
nique Point		Seasonal	· **	•	'n	As required	
nique Point	-123.815843 40.045645			tarara tanb	***************************************	Prescribed Action: None.	
0 urrent Conditi	40.045645 on: Spatial rei	ference to a 5,000) gallon water s	torage tann			
·	40.045645 on: Spatial rei	forence to a 5,000	gallon water s Mittigation Planned	Monitor	1600	Treatment Priority	Date Completed



CONTROL PROPERTY OF THE PARTY O				THE RESERVE OF THE PERSON NAMED IN			20C4U0U00	
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed	
0	-123.828519 40.045396	Permanent	44	*	*	•		
Current Conditi	on: Spatial re	ference to the gr	oundwater well.	Prescribed Action: None.				
						·		
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed	
Past Cultivation Areas		. 786	×	#	**	in.		
		vation areas that naterials, fencing		Prescribed Action: Remove any remaining fencing, pots, or other cultivation-related wastes and materials from these areas. Seed and mulch the Past Cultivation Area, and any Disturbed Area associated with its removal, with native grass seed and weed free straw(or woodchips). If cultivation soil is not re-used, contour the cultivation-related soils into the ground outside of any riparian buffer areas, and seed and mulch the contoured soils with native grass seed and weed free straw.				
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Treatment Priority	Date Completed	
Generators and Gas Powered Pumps			*	» ·				
Current Condition: All liquid petroleum powered generators and pumps require secondary containment, and cover from precipitation during the wet season. Adequate quantities of absorbent materials shall also be stored at all locations where the generators and gas powered pumps are used and stored.						pumps (large or small) shall be stored in secondary containment (e.g. plastic totes, sealed metal boxes, drip pans, pre-fabricated portable containment berms or fabricated and lined containment basins) while being stored long term or not in immediate use, wherever these materials are used anywhere on the property. Adequate quantities of absorbent materials shall be stored at all locations where these types of materials are used and stored. Should a spill of these materials occur, absorbent materials will be applied immediately and allowed enough time to absorb as much material as possible. Following treatment, absorbent materials applied as well as any contaminated soil will be removed and disposed of appropriately for the spilled material. See attached BMPs: Generator, Fuel, and Oli Management for further details.		

BMP: Generator, Fuel, and Oil Management

All bulk fuel storage or petroleum products, any/all future petroleum products and other liquid chemicals, including but not limited to diesel, biodiesel, gasoline, and oils shall be stored so as to prevent their spillage, discharge, or seepage into receiving waters. Storage tanks and containers shall be of suitable material and construction to be compatible with the substance(s) stored and conditions of storage such as pressure and temperature. Above ground storage tanks and containers shall be provided with a secondary means of containment for the entire capacity of the largest single container and sufficient cover shall be provided to prevent any/all precipitation from entering said secondary containment vessel.

If the volume of a fuel container is greater than 1,320 gallons, a Spill Prevention, Control, and Countermeasures (SPCC) plan will be required for the use the fuel tank.

On-site storage of petroleum products, or other fuels used for commercial activities may require registration as hazardous materials through the California Environmental Reporting System (CERS). Additionally, the waste oil generated from commercial activities (generators) and their used oil filters are considered hazardous waste and requires additional reporting. The discharger is advised to contact local agencies to find out if such reporting is applicable to currently operations

Used motor oil is recommended to be stored in sealed containers that the oil was originally packaged in, e.g. sealed buckets/quart or gallon jugs, or other sealed containers designed to store motor oil. Stored used oil is recommended to be regularly disposed of at hazardous waste disposal sites. Used oil filters are also recommended to be stored in sealed containers, e.g. sealed plastic totes/buckets, for later disposal at a hazardous waste disposal site. These storage containers are recommended to be stored in structures where they are protected from precipitation.

Further information regarding the State of California's requirements for the managing of Used Oil and Oil Filters can be found by entering the links below or searching the corresponding titles to the links.

California Department of Toxic Substances Control - Used Oil Generator Requirements

https://www.dtsc.ca.gov/InformationResources/upload/RAG-UsedOilforGenerators.pdf

Department of Toxic Substances Control - Managing Used Oil Filters for Generator

 https://www.dtsc.ca.gov/InformationResources/upload/RAG_Used-Oil-Filters Generators1.pdf

BMP: Generator, Fuel, and Oil Management (Generators and Pumps)

All generators and petroleum powered pumps shall have spill trays or secondary containment placed underneath them when using, fueling, or changing oil on them to prevent the potential for leeching, seepage or spillage of petroleum products. All spill trays and containment structures require cover from precipitation if used or left out over the winter period. All generators and petroleum powered pump locations shall have spill cleanup kits on hand.

Pre-fabricated secondary containment structures and spill trays can be purchased online or from local wholesalers of petroleum products. As an alternative to pre-fabricated secondary containment structures, structures can be constructed from wooden, cinderblock, concrete, or metal frames lined with PVC liners, e.g. pond liner/water bladder material, as long as the containment is fully sealed and constructed in a similar manner to examples of pre-fabricated containment structures found below. Ensure that diked areas are sufficiently impervious to contain discharged chemicals. All containment structures require cover from precipitation to prevent the containment from filling with water. Secondary containment for fuel tanks shall not be constructed.

As an alternative to pre-fabricated spill kits, kits can consist of sealed trashcans or buckets with industrial absorbent material (e.g. cat litter) and shovels, placed nearby any location where generators, pumps, or other petroleum products or chemicals are used.

Examples of industry standard pre-fabricated spill containment and clean-up kits can be found following or entering the links below. Pre-fabricated spill containment and clean-up kits can be purchased online, from Renner Petroleum, or other similar industry providers.

Ultratech Spill Containment

http://www.spillcontainment.com/categories/spill-containment/

New Pig Portable and Collapsible Spill Containment

https://www.newpig.com/collapsible-berms/c/5142?show=All

BMP: Generator, Fuel, and Oil Management

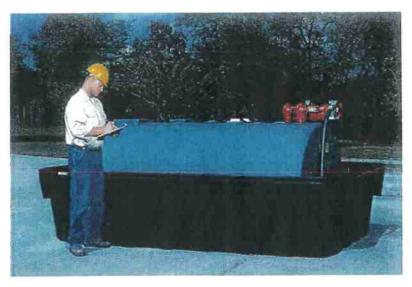


Example of a small, portable, and compact containment berm.



Example of a portable utility spill tray.

BMP: Generator, Fuel, and Oil Management



Example of secondary containment for a fuel tank. This container requires cover from precipitation.



Example of spill pallets for unused or used oil drums and other petroleum products.

BMP: Winterization and Interim Treatments for Erosion Control

· Roads

- o Existing or newly installed road surface drainage structures such as water bars, rolling dips, ditch relief culverts, and intentionally in/out-sloped segments of road shall be maintained to ensure continued function of capturing and draining surface runoff.
- Hand tool kick-outs (lead out ditch) for existing wheel rut, surface run-off confinement.
- Temporary waterbar/cross-wattles installed on road/trail sections of concentrating surface runoff.
- o Clean existing ditch relief culvert inlets, outlets, and contributing ditch lines of current and potential blockage debris by hand.
- o Hand place energy dissipating rock/small woody debris at ditch relief culvert outlets where erosion is occurring.
- Wattles/straw bales placed at road runoff delivery sites.
- Touch-up with hand tools of existing surface drainage structures (kick-outs, rolling dips, and waterbars).
- o Seed and straw un-used, or to be abandoned, road surfaces where erosion is occurring.
- o Frequent use of un-surfaced roads should be avoided, particularly when road surfaces are soft/saturated.

Crossings

- o Clean inlets, outlets, and channels above of current and potential blockage debris by hand.
- o Hand place energy dissipating rock/small woody debris at ditch relief culvert outlets.
- Hand placement of rock armor around culvert inlets.
- o Install staked wattles along the outboard road edge of out-sloped watercourse crossings where direct delivery of road surface runoff is occurring.
- Hand placement of rock on crossing fill faces where erosion is/may occur as a result of poor crossing construction.

Cultivation Areas

- Use hand tools to capture cultivation related soils that are not contained (soil from post-harvest plant removal, soil/planter removal, general spillage).
- o Treat beds, pots, new soil storage piles, spent soil piles, and soil disposal piles with cover crops for soil stability and potentially nitrogen fixing/soil amendment.
- Bagged potting soil should be covered.
- o Install staked wattles or an earthen berm around cultivation soils piles prior to the winter period, annually.
- Any soll amendment, fertilizer, herbicide, or pesticide that is not 100% sealed should be stored under cover.
- o Gultivation sites with poor or concentrating drainage can have wattles or bales installed prior to winter to help prevent sediment and nutrients from leaving the site.
- o Plastic netting shall be disposed of or stored where it is inaccessible to wildlife.
- Tarps/dep covers shall be stored so they cannot be blown away.
- o General waste from growing season gathered up and disposed of.
- Exposed soil surfaces in the cultivation area, as well as graded fill slopes should be seeded, strawed, mulched, jute netted as needed.

General Areas

- o Remove all refuse prior to leaving property for the season.
- o Back fill pit toilets to be abandoned.

BMP: General Recommendations

· Fertilizers, soil amendments, and pesticides

o Fertilizer, soil amendments, and pesticide use it to be recorded in such a manner that cumulative annual totals are recorded for annual reporting.

Store in-use fertilizers in a securable storage container, such as a tote or deck box, adjacent to the mixing tanks.

Petroleum products and hazardous materials

Utilize spill trays/containment structures and cover over the containment when using, fueling, changing
oil on portable generators or petroleum powered water pumps to prevent the potential for leeching,
seepage or spillage of petroleum products.

It is recommended that all petroleum products and other chemicals are registered with the California

Environmental Reporting System (CERS) to satisfy future licensing requirements.

Water storage and Use

- Water use shall be designed and metered such that water used for the irrigation of cannabls will be recorded separately from domestic use. Water use for the irrigation of cannabls is to be recorded monthly for annual reporting.
- Ensure lids are secured on all water storage tanks to prevent wildlife from becoming entrapped within the tank.
- o Install float valves, or implement another equivalent system, on all applicable water storage and transfer tanks to prevent unnecessary water diversion and the overflowing of water tanks.

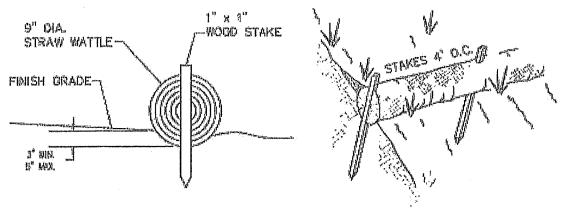
BMP: General Operations BMPs

- If operations require moving of equipment across a flowing stream, such operations shall be conducted
 without causing a prolonged visible increase in stream turbidity. For repeated crossings, the operator shall
 install a bridge, culvert, or rock-lined crossing.
- During construction in flowing water, which can transport sediment downstream, the flow shall be diverted
 around the work area by pipe, pumping, temporary diversion channel or other suitable means. When any
 dam or artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall at
 all times be allowed to pass downstream to maintain fish life below the dam. Equipment may be operated in
 the channel of flowing live streams only as necessary to construct the described construction.
- Disturbance or removal of vegetation shall not exceed the minimum necessary to complete operations. The
 disturbed portion of any stream channel shall be restored to as near their original condition as possible.
 Restoration shall include the mulching of stripped or exposed dirt areas at crossing sites prior to the end of
 the work period.
- Structures and associated materials not designed to withstand high seasonal flow shall be removed to areas above the high-water mark before such flows occur.
- No debris, soil, silt, sand, bark, slash, sawdust, rubbish, cement or concrete washing, oil or petroleum products, or other organic or earthen material from any logging, construction, or associated activity of whatever nature shall be allowed to enter into or be placed where it may be washed by rainfall or runoff into waters of the State. When operations are completed, any excess materials or debris shall be removed from the work area. No rubbish shall be deposited within 150 feet of the high-water mark of any stream.

BMP: General Erosion Control

- Timing for soil stabilization measures within the 100 feet of a watercourse or lake: For areas disturbed from May 1 through October 15, treatment shall be completed prior to the start of any rain that causes overland flow across or along the disturbed surface. For areas disturbed from October 16 through April 30, treatment shall be completed prior to any day for which a chance of rain of 30 percent or greater is forecast by the National Weather Service or within 10 days, whichever is earlier.
- Within 100 feet of a watercourse or lake, the traveled surface of logging roads shall be treated to prevent
 waterborne transport of sediment and concentration of runoff that results from operations. Treatment may
 consist of, but not limited to, rocking, out sloping, rolling dips, cross drains, water bars, slope stabilization
 measures, or other practices appropriate to site-specific conditions.
- The treatment for other disturbed areas within 100 feet of a watercourse or lake, including: (A) areas exceeding 100 contiguous square feet where operations have exposed bare soil, (B) approaches to road watercourse crossings out to 100 feet or the nearest drainage facility, whichever is farthest, (C) road cut banks and fills, and (D) any other area of disturbed soil that threatens to discharge sediment into waters in amounts deleterious to the quality and beneficial uses of water, shall be grass seeded and mulched with straw or fine slash. Grass seed shall be applied at a rate exceeding 100 pounds per acre. Straw mulch shall be applied in amounts sufficient to provide at least 2- 4-inch depth of straw with minimum 90% coverage. Slash may be substituted for straw mulch provided the depth, texture, and ground contact are equivalent to at least 2-4 inches of straw mulch. Any treated area that has been subject to reuse or has less than 90% surface cover shall be treated again prior to the end of operations.
- Within 100 feet of a watercourse or lake, where the undisturbed natural ground cover cannot effectively
 protect beneficial uses of water from operations, the ground shall be treated with slope stabilization measures
 described in #3 above per timing described in #1 above.
- Side cast or fill material extending more than 20 feet in slope distance from the outside edge of a landing
 which has access to a watercourse or lake shall be treated with slope stabilization measures described in #3
 above. Timing shall occur per #1 above unless outside 100 feet of a watercourse or lake, in which completion
 date is October 15.
- All roads shall have drainage and/or drainage collection and storage facilities installed as soon as practical following operations and prior to either (1) the start of any rain which causes overland flow across or along the disturbed surface within 100 feet of a watercourse or lake protection, or (2) any day with a National Weather Service forecast of a chance of rain of 30 percent or more, a flash flood warning, or a flash flood watch.

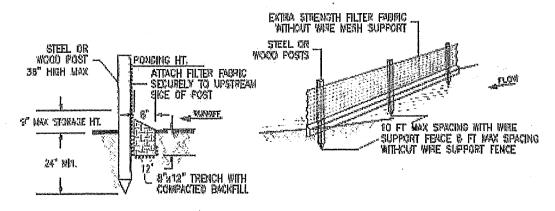
- Erosion control and sediment detention devices and materials shall be incorporated into the cleanup/restoration work design and installed prior to the end of project work and before the beginning of the rainy season. Any continuing, approved project work conducted after October 15 shall have erosion control works completed up-to-date and daily.
- Erosion control materials shall be, at minimum, stored on-site at all times during approved project work between May 1 and October 15.
- Approved project work within the 5-year flood plain shall not begin until all temporary erosion controls (straw bales or slit fences that are effectively keyed-in) are installed downslope of cleanup/restoration activities.
- Non-Invasive, non-persistent grass species (e.g., barley grass) may be used for their temporary erosion control benefits to stabilize disturbed slopes and prevent exposure of disturbed soils to rainfall.
- Upon work completion, all exposed soil present in and around the cleanup/restoration sites shall be stabilized within 7 days.
- Soils exposed by cleanup/restoration operations shall be seeded and mulched to prevent sediment runoff and transport.
- Straw Wattles (if used) shall be installed with 18 or 24-inch wood stakes at four feet on center. The ends of
 adjacent straw wattles shall be abutted to each other snugly or overlapped by six inches. Wattles shall be
 installed so that the wattle is in firm contact with the ground surface.



STRAW WATTLE NOTES:

- THE STRAW WATTLES SHALL BE INSTALLED WITH 18 OR 24 INCH WOOD STAKES AT FOUR FEET ON CENTER. THE ENDS OF ADJACENT STRAW WATTLES SHALL BE AGUITTED TO EACH OTHER SALESLY OR OVERLAPPED BY SIX INCHES.
- 2. STRAM ROLL INSTALLATION REGURNES THE PLACEMENT AND SECURE STAINING OF THE ROLL IN A TRENCH, 3*-5" DEEP, RUNGEF MUST NOT BE ALLOWED TO FROM UNDER OR AROUND THE ROLL.

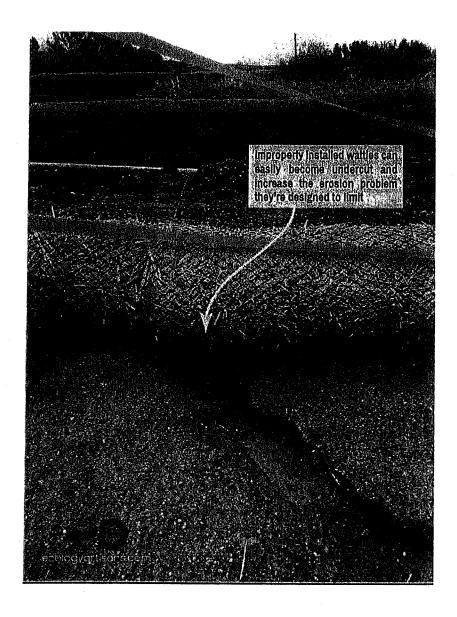
STRAW WATTLE INSTALLATION DETAIL
NTS

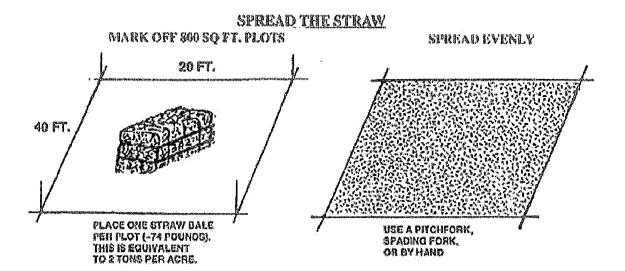


SILT FENCE NOTES:

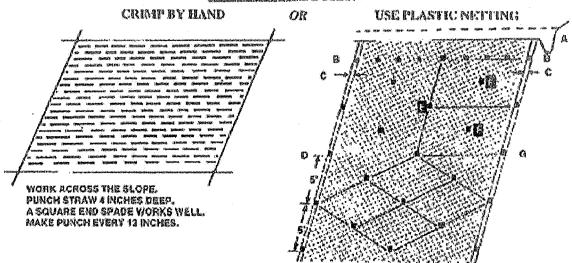
- 1. THE CONTRACTOR SHALL INSPECT AND REPAIR FEMILE AFTER EACH STORM EVENT-
- CONTRACTOR SHALL REMOVE SEDIMENT AS NECESSARY, REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF—SITE AND IN AM AREA THAT CAN BE PERMANENTLY STABILIZED.
- 3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO WANINGE PONDING EFFICENCY.

SILT FENCE DETAILS
NIS





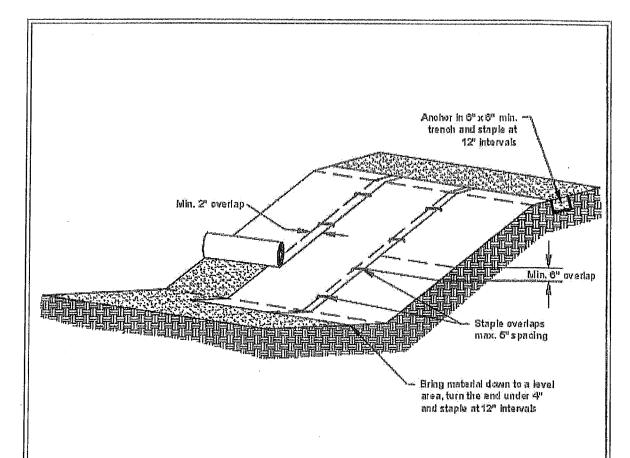
ANCHOR THE STRAW



- A. LAY BIRD CONTROL NETTING OR SIMILAR MATTING IN STRIPS DOWN THE SLOPE OVER THE STRAW, BURY UPPER END IN 6-8 INCH DEEP AND WIDE TRENCH., MOST NETTING COMES IN 14 TO 17 FT. WIDE ROLLS.
- B. SECURE THE UPPER END WITH STAKES EVERY 2 FEET.
- C. OVERLAP SEAMS ON EACH SIDE 4-3 INCHES.
- D. SECURE SEAMS WITH STAKES EVERY 5 FEET.
- E. STAKE DOWN THE CENTER EVERY 5 FEET.

- F. STAKE MIDDLES TO CREATE DIAMOND PAT TERN THAT PROVIDES STAKES SPACED 4-5 FEET APART.
- G. USE POINTED 1X2 INCH STAKES 8 TO 9 INCHES LONG. LEAVE 1 TO 2 INCH TOP ABOVE NETTING, OR USE "U" SHAPED METAL PINS AT LEAST 9 INCHES LONG.

NOTE: WHEN JOINING TWO STRIPS, OVERLAP UPPER STRIP 3 FEET OVER LOWER STRIP AND SECURE WITH STAKES EVERY 2 FEET LIKE IN *B* ABOVE



Notes:

- 1. Slope's urface shall be smooth before placement for proper soil contact.
- Stapling pattern as per manufacturer's recommendations.
- 3. Do not stretch blank ets/mattings tight allow the rolls to mold to any irregularities.
- For slopes less than 3H:11%, rolls may be placed in horizontal strips.
- If there is a berm at the top of the slope, anchor upslope of the berm.
- Lime, fedilize, and seed before installation. Planting of shrubs, trees, etc. should occur after installation.

NOT TO SCALE



Slope Installation

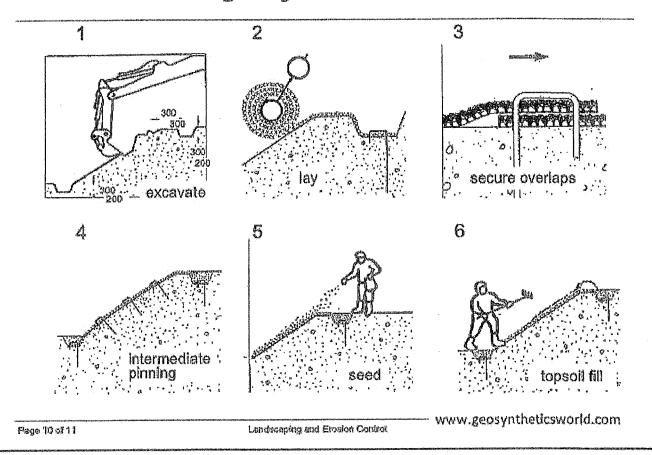
Revised June 2016

ECOLOGY

State of Washington

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Installation of a geosynthetics mat - Enkamat



Erosion Control Measures (Cont.)

Erosion Control Matting & Silt Fencing

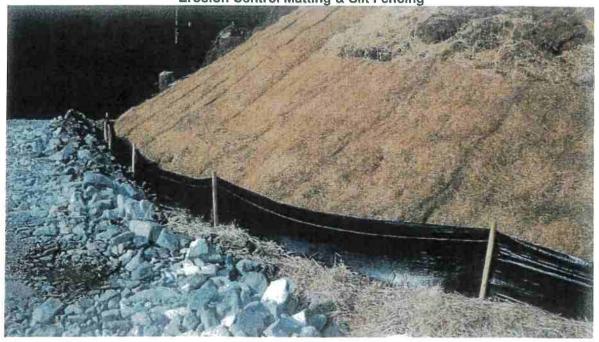




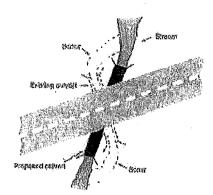


TABLE 34. Guidelines for exosion and sediment control application

Timing of application	Technique	Portion of road and construction area treated	
	Hydromulching, hydroseeding	Road fill slopes, cut slopes, bare soll areas	
	Dry seeding	Road fill slopes, cut slopes, bare soil areas	
Eicelon control during	Wood chip, straw, Excelsior or tackified mulch	Road fill slopes, cut slopes, bare soil areas	
	Straw wattles	Road fill slopes and cut slopes	
construction	Gravel surfacing	Road, landing and turnout surfaces	
	Dust palliative	Forad surfaces	
	Minimize disturbance (soil and vegetation)	All areas peripheral to construction	
Beatment	Sediment basin	Roadside ditches, turnouts and small stream crossings	
	Sediment traps (e.g., silt ferces, straw hales barriers, woody debris barriers)	Road fill slapes, cutbanks, bare soil areas and ditches	
	Straw bale dams	Ditches and small streams	
control during	Sumps and water pumps	Stream channels and stream crossings	
PENERGERIANNI.	Streamflow diversions (e.g., temporary culvens, flex pipe, etc.)	Stream channels and stream crossings	
	Surface diversion and dispersion devices (pipes, ditches, etc.)	All disturbed bare soil areas	
	Road shaping	Road and landing surfaces	
	Gravel surfacing	Road, landing and turnout surfaces	
	Bitumirous or asphalt surfacing	Road surface	
	Rolling dips	Road surface	
į	Ditch relief culverts	Roadbed and road fill	
	Downspouts and berm drains	Road fill slopes	
Fermanent erosion	Waterbara	Road and landing surfaces	
crantrol	Berrns	Road surface and roadside areas	
	Ditches	Road and landing surfaces	
	Riprap	Road fill slopes, stream crossing fills, cutbanks, stream and lake banks	
	Soil bloengineering	Road fill slopes, cut slopes, stream crossings, streambanks	
	Tree planting	Road fill slopes, cutbanks, bare soil areas, stream crosslogs, streambanks	
HANDBOOK FOR FORS:	et, ranch and rural roads		

BMP: Permanent Culvert Crossing

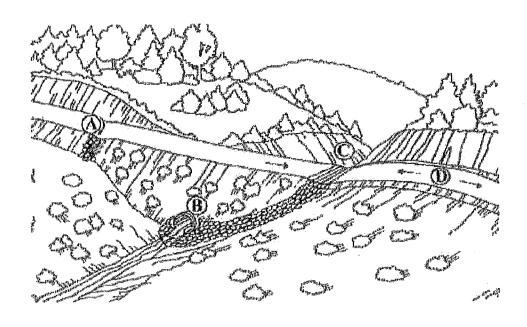
- New culvert installations shall be sized to accommodate flows associated with a 100-year storm event.
- If the new culvert is replacing a poorly installed old culvert, the crossing may need to be abandoned to the following standard:
 - o When fills are removed they shall be excavated to form a channel that is as close as feasible to natural watercourse grade and orientation, and that is wider than the natural channel.
 - o Excavated banks shall be laid back to a 2:1 (50%) or natural slope.
- New culverts shall be placed at stream gradient, or have downspouts, or have energy dissipators at outfall.
 - Align culverts with the natural stream channel orientation to ensure proper function, prevent bank erosion, and minimize debris plugging. See Figure 97 below.
 - Place culverts at the base of the fill and at the grade of the original streambed or install a downspout past the base of the fill.
 Downspouts should only be installed if there are no other options.
 - o Culverts should be set slightly below the original stream grade so that the water drops several inches as it enters the pipe.
 - o Culvert beds should be composed of rock-free soll or gravel, evenly distributed under the length of the pipe.
 - Compact the base and sidewall material before placing the pipe in its bed.
 - Lay the pipe on a well-compacted base. Poor basal compaction will cause settling or deflection in the pipe and can result in separation at a coupling or rupture in the pipe wall.
 - o Backfill material should be free of rocks, limbs, or other debris that could dent or puncture the pipe or allow water to seep around the pipe.
 - o Cover one end of the culvert pipe, then the other end. Once the ends are secure, cover the center.
 - o Tamp and compact backfill material throughout the entire process, using water as necessary for compaction,
 - o Backfill compacting will be done in 0.5 1.0 foot lifts until 1/3 of the diameter of the culvert has been covered.
 - o Push layers of fill over the crossing to achieve the final design road grade, road fill above the culvert should be no less than one-third to one-half the culvert diameter at any point on the drivable surface.
- Critical dips shall be installed on culvert crossings to eliminate diversion potential. Refer to Figure 84 below.
- Road approaches to crossings shall be treated out to the first drainage structure (i.e. waterbar, rolling dip, or hydrologic divide) to prevent transport of sediment.
- Road surfaces and ditches shall be disconnected from streams and stream crossings to the greatest extent feasible.
 Ditches and road surfaces that cannot be feasible disconnected from streams or stream crossings shall be treated to reduce sediment transport to streams.
- If downspouts are used, they shall be secured to the culvert outlet and shall be secure on fill slopes.
- Culverts shall be long enough so that road fill does not extend or slough past the culvert ends.
- Inlet of culverts, and associate fill, shall be protected with appropriate measures that extend at least as high as the top
 of the culvert.
- Outlet of culverts shall be armored with rock if road fill sloughing into channel can occur.
- Armor inlets and outlets with rock, or mulch and seed with grass as needed (not all stream crossings need to be armored).
- Where debris loads could endanger the crossing, a debris catchment structure shall be constructed upstream of the culvert inlet.
- Bank and channel armoring may occur, when appropriate, to provide channel and bank stabilization.



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KICURE 67. Convex alignment should be in relation to the stream and not the road. It is important that the stream enters and heres the culvert that relatively straight horizontal alignment so stream on does not have to sign to enter the inist or discharge into a bank as it exits. This figure stores a recessioned culvert installation that replaces the bending alignment that proviously existed. Channel time at the inist increase plugging potential because when follows the time the will not align with the inist shallow in the times at the other arc often accompanied thy scarr against the channel banks (visconsin Transportation Information Gentle, 2004).

BMP: Permanent Culvert Crossing Design (Critical Dip and Hydrologic Disconnect Placement)



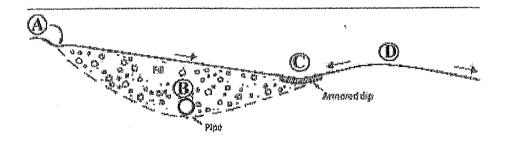
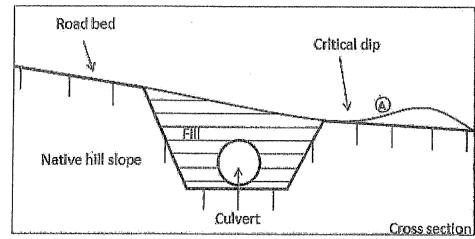


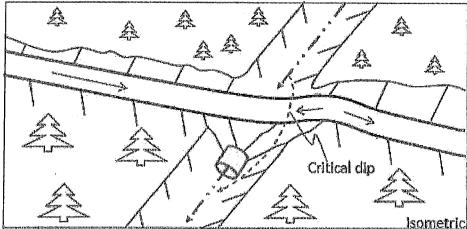
FIGURE 84. Onlice dips or dipped cossing this should be centered near a stream crossing's down-total singetine, not over the centerine of the crossing where overtopping could cause weather of severe erosion of the fill. If the stream crossing culvert (E) plugs, water will pend behind the fill until reaching the critical dip or low point in the crossing (C) and howing back down into the natural stream channel. The down-toad disch must be plugged to prevent streamdow from diverting down the disch line. For extra protection in this skeech, upper armor has been placed at the critical dip outline and extending downships to the stream channel. This is only required or suggested on stream crossings where the culvert is highly likely to plug and the crossing fill overtopped. The dip at the hings line is usually sundent to limit existent demage during an overtopping event. Each surface and disch rope if a disconnected from the stream crossing by installing a polary dip and duch relief culvert has up-road from the crossing (A) (Kellex and Sterez 2003).

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BMP: Permanent Culvert Crossing Design (Critical Dip)

Typical Critical Dip Design for Stream Crossings with Diversion Potential

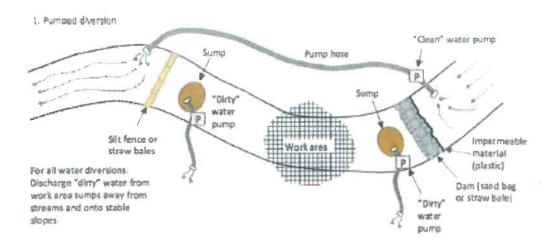


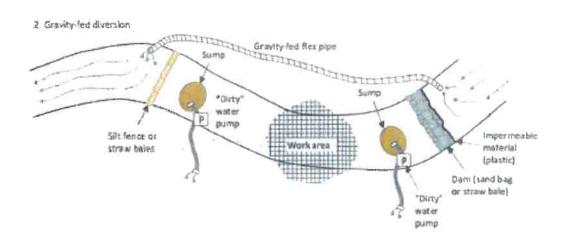


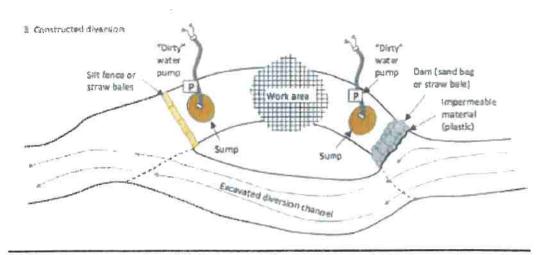
Critical Dip Construction:

- 1. Critical dip will be constructed on the lower side of crossing.
- Critical dip will extend from the cutbank to the outside edge of the road surface. Be sure to fill inboard ditch, if present.
- Critical dip will have a reverse grade (A) from cutbank to outside edge of road to ensure flow will not divert outside of crossing.
- 4. The rise in the reverse grade will be carried for about 10 to 20 feet and then return to original slope.
- 5. The transition from axis of bottom, through rising grade, to falling grade, will be in the road distance of at least 15 to 30 feet.
- 6. Critical dips are usually built perpendicular to the road surface to ensure that flow is directed back into the stream channel.

BMP: Permanent Culvert Crossing Design (Cofferdam Construction and Use Specifications)







BMP: Permanent Culvert Crossing Design (Cofferdam Construction and Use Specifications)



FIGURE 107. Flex pipe stream diversion around a road construction site. The inlet to this 6 inch diameter flex pipe inlet collects clear streamflow from a retention dam above the project site and gravity feeds it around the project area and back into the natural channel downstream from construction work (see photo).



FIGURE 198. Sand bag retention dam on this small stream was used to pend streamflow so it could be pumped around a culvent installation site. The green intake hose is exceed to keep out tooks and debris while the red pump hose extends several hundred feet around the project work area.



FRIURE 199. For larger streams, pump trucks, large pumps or multiple small pumps can be used to pump streamflow around project work sites. Here, a pump truck is used to temporarily direct flow in a fish bearing stream where dual culverts are being replaced with a railcar bridge. Young fish were removed from this fish bearing stream before project work started.

BMP: Permanent Culvert Crossing Design (Culvert Orientation)





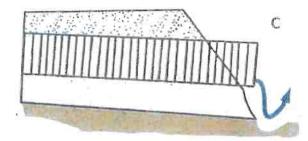
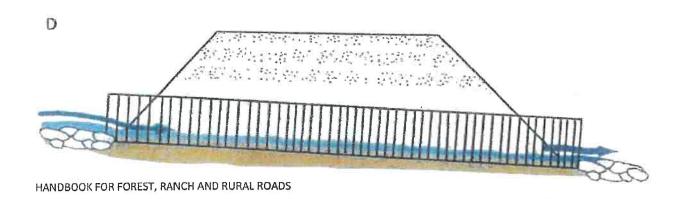
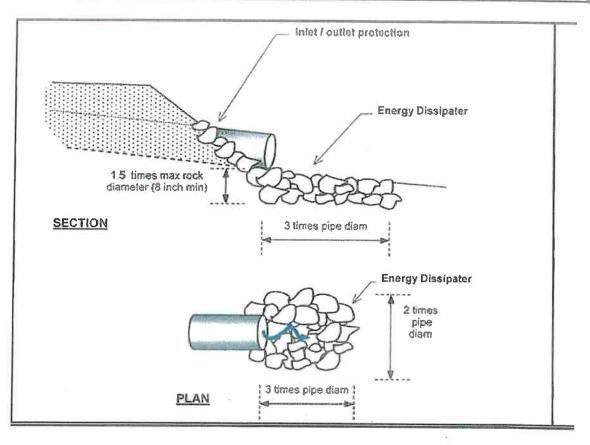
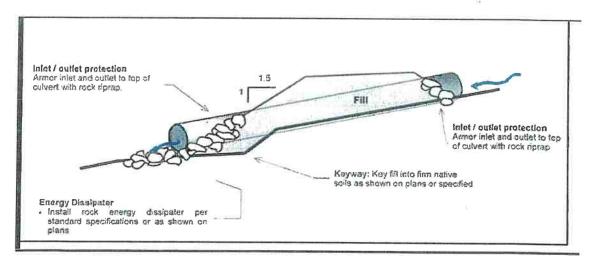


FIGURE 155. Proper culvert installation involves correct culvert orientation, setting the pipe slightly below the bed of the original stream, and backfilling and compacting the fill as it is placed over the culvert. Installing the inlet too low in the stream (A) can lead to culvert plugging, yet if set too high (B) flow can undercut the inlet. If the culvert is placed too high in the fill (C), flow at the outfall will erode the fill. Placed correctly (D), the culvert is set slightly below the original stream grade and protected with armor at the inlet and outlet. Culverts installed in fish-bearing stream channels must be inset into the streambed sufficiently (>25% embedded) to have a natural gravel bottom throughout the culvert (Modified from: MDSL, 1991).



BMP: Permanent Culvert Crossing Design (Inlet and Outlet Armoring)

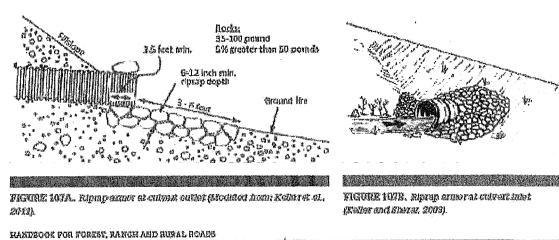




Riprap installed to protect the inlet and outlet of a stream crossing culvert from erosion or for energy dissipation should be keyed into the natural channel bed and banks to an approximate depth of about 1.5x the maximum rock thickness. Riprap should be placed at leas up to the top of the culvert at both the inlet and outlet to protect them from splash erosion and to trap any sediment eroded from the newly constructed fill slope above.

BMP: Permanent Culvert Crossing Design (Inlet and Outlet Armoring) Cont.

- Inlets of culverts and associate fills shall be protected with rock armoring that extends at least as high as the top of the culvert.
- · Outlets of culverts shall be provided a rocked energy dissipater at the outfall of the culvert.
- Outlets of culverts and associate fills shall be protected with rock armoring that extends at least as high as the top of the culvert if road fill sloughing into channel can occur.
- Prior to inlet and outlet rocking, the inlet and outlets shall be prepared. Preparation will include removal of vegetation and stored materials from the inlet and outlet.
- · Inlets may require construction of an inlet basin.
- Slopes at the outlet should be shaped to a 2:1 or natural slope prior to placing rock armor.
- Rock used at culvert inlets and outlets should be a matrix of various sized rocks and rip-rap that range from a 3" dia.
- The largest rocks should be places at the base of the culvert or fill. Incrementally smaller rocks shall be placed over the larger rocks at the armoring extend up the slope. Voids and spaces shall be back filed with smaller gravels and rocks.



BMP: Stream Bank Armoring (Riprap)

- Riprap should be installed on top of geotextile fabric or a clean mixture of coarse gravel and sand.
- The riprap should be keyed into the streambed and extend below the maximum expected scour depth with an adequately sized key base width at a thickness of a minimum of 2x the median (D50) rock diameter with the largest stone sizes placed at the base of the riprap structure.
- The armor should be set into the streambank so it does not significantly protrude into, or constrict, the natural channel, or otherwise reduce channel capacity.
- The riprap should extend along the length of unstable or over steepened bank and up the bank sufficiently to encompass the existing bank instability and/or design flood elevations.

BMP: Armored Ford [Fill]

- Armored fords are drainage structures designed to carry watercourses across roads.
- Armored fords shall have a U-shaped channel to create a drivable crossing.
 - The road shall dip into and out of the armored ford to minimize diversion potential. Construct a broad rolling dip across the roadbed, centered at the crossing, which is large enough to contain the expected 100-yr flood discharge while preventing flood flow from diverting down the road or around the rock armor.
- The road surface at the armored ford shall utilize native soils.
- The ford's inlet shall be rocked if a threat of head cutting exists.

 - Excavate the keyway Excavate a one to three-foot-deep "bed" into the inboard edge of the road

 Armor the basal keyway place various sized rock in the constructed keyway to prevent head cutting. Use the largest rock armor to fill the keyway trench and create a buttress along the inboard edge of the road. This should have a "U" shape to it and It will define the inlet where flow leaves the natural channel and enters the road.
- The ford's outlet shall be rock armored to resist downcutting and erosion.
 - Excavate the keyway and armored area Excavate a two to three-foot-deep "bed" into the dipped road surface and adjacent fillslope (to place the rock in) that extends from approximately the middle of the road, across the outer half of the road, and down the outboard road fill to where the base of the fill meets the natural channel. At the base of the fill, excavate a keyway trench extending across the channel bed.
 - Armor the basal keyway Put aside the largest rock armoring to create the buttresses. Use the largest rock armor to fill the basal trench and create a buttress at the base of the fill. This should have a "U" shape to it and it will define the outlet where flow leaves the armored fill and enters the natural channel.
 - Armor the fill Backfill the fill face with the remaining rock armor making sure the final armor is unsorted and well placed, the armor is two coarse-rock layers in thickness, and the armored area on the fill face also has a "U" shape that will accommodate the largest expected flow.
 - Armor the top of the fill Install a second trenched buttress for large rock at the break-in-slope between the outboard road edge and the top of the fill face.
- If water is expected during the time of use, an adequately sized pipe shall be installed to handle the flow if present (min. 6 Inch).
 - The pipe shall be laid over the armored ford surface.
 - The inlet should be at grade with the upstream flow.
 - The outlet shall drain onto the outlet armoring of the rocked ford.
 - A layer of clean native shall be installed over the pipe to establish the running surface of the truck road.
 - Following use, the temporary pipe shall be removed and the placed native soil shall be removed and drifted along the
 - No significant alteration to the bed and bank of the stream shall occur.
- Road approaches to armored fords shall be treated with seed and straw mulch out to the first drainage structure (i.e. waterbar) or hydrologic divide to prevent transport of sediment pursuant to Item 18, Section II.
- Bank and channel armoring may occur when appropriate to provide channel and bank stabilization.
- Armored ford armoring shall be reapplied following use as needed to maintain a permanent crossing,

BMP: Armored Ford [Fill] (Cont.)

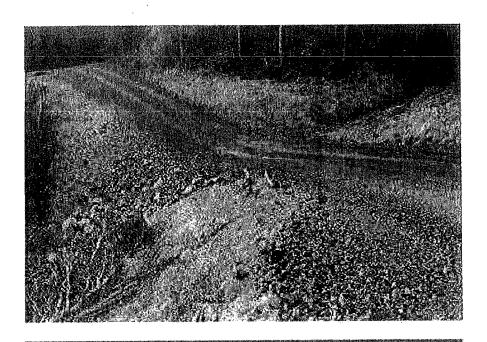


FIGURE 130. This amored his crossing of a steep, ephemeral sheam was constructed to provide a low maintenance crossing. The crossing has been deeply dipped to reduce the volume of road fill and to eliminate the potential for stream diversion. The fill slope has been heavily armored through the axis of the crossing to contain fixed flows and prevent downcutting. Armored fills cannot be used on fish bearing streams.

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BMP: Armored Ford [Fill] (Cont.)



FIGURE 121D. West graded rock armor to then be chiled into the structure and spread across the breadin of the U-shaped stream crossing, and about the chird the way up the roadbed, so that streamfow will only flow over or come in contact with resistant armor material. The armor must be spread and compacted across the design width of the expected flood flow channel width so peak flows with not flank the armored structure.



FIGURE 121E. Two weeks after this authored fill was constructed, a storm flow event occurred and the structure maintained its function and integrity. The road approaches had not yet been compacted or surfaced with road rock.

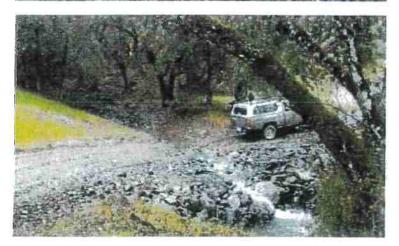


FIGURE 121F. The same amores in as it appeared after the first winter flood flows. No maintenance was required to reopen the need. It is also clear that no stream diversion is possible at this stream crossing site, and the within the crossing has been reduced to the minimum amount needed to maintain a relatively smooth driving surface on this low volume road.

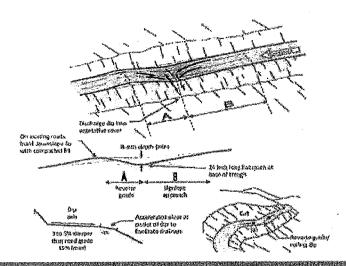
HANDSOOK FOR FOREST, RANCH AND RURAL ROADS

BMP: Rolling Dip Design and Placement

- · Rolling dips are drainage structures designed to force surface water to be drained from the road surface.
- The road shall dip into, and rise out of, the rolling dip to eliminate the potential of road surface runoff to run further down road way.
- · The rolling dip shall be constructed with clean native materials or rock surfaced where specified,
- . The rolling dips outlet may be armored to resist down-cutting and erosion of the outboard road fill.
- Do not discharge rolling dips into any areas that show signs of instability or active landsliding.
- If the rolling dip is designed to divert both road surface and ditch runoff, block the down-road ditch with compacted fill
 in order to force all ditch flows through the trough (low point) of the rolling dip.

BMP: Rocked Rolling Dip Design and Placement

- Rocked rolling dips are drainage structures designed to carry known sources of surface water across road ways or from known persistently wet segments of road such as swales without defined watercourses or road segments with heavy bank/road seepage.
- · The road shall dip into, and rise out of, the rocked rolling dip to minimize diversion potential.
- The rocked rolling dip shall be constructed with clean rock that is large enough to remain in place during peak flows.
 Rock size shall vary relative to the anticipated flow through the dip with larger rock used in location where greater flow is anticipated.
- · The rocked rolling dips inlet and outlet shall be armored to resist down-cutting and erosion.
- The entire width of the rocked rolling dip shall be rock armored to a minimum of 5-feet from the centerline of the dipped portion of the rolling dip.
- If a keyway is necessary, the rocked rolling dip keyway at the base of the dip shall be of sufficient size, depth and length to support materials used in the rocked rolling dip construction back up to the road crossing interface.
- · Do not discharge rolling dips into any areas that show signs of instability or active landsliding.
- If the rolling dip is designed to divert both road surface and ditch runoff, block the down-road ditch with compacted fill.
- The rolling dip should be designed as a broad feature ranging from 10-100 feet long so that it is drivable by most types of vehicular traffic and not significantly inhibit traffic and road use.

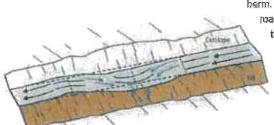


EKGIRE 34. A classer Type Lielling dip, where the overwised up-read approach (B) to the rolling dip is several percent deeper than the approaching road and extends for 60 to 40 rest to the dip axis. The lower ado of the structure reverses grade (A) over approximately 16 rest or more, and then miss down to rejoin the edigical road grade. The dip must be deep enough that it is not observed and the armound proximal p

HANDEGOX FOR FOREST, RANCH AND RURAL ROADS

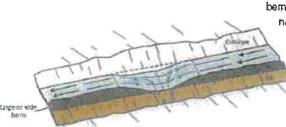
BMP: Rolling Dip Design and Placement (Types)

Type 1 Rolling Dip (Standard)



Type 1 rolling dips are used where road grades are less than about 12-14% and road runoff is not confined by a large through cut or herm. The axis of the dip should be perpendicular to the road alignment and sloped at 3-4% across the road tread. Steep roads will have longer and more abrupt dip dimensions to develop reverse grade through the dip axis. The road tread and/or the dip outlet can be rocked to protect against erosion, if needed.

Type 2 Rolling Dip (Through-out or thick beim road reaches)



Type 2 rolling dips are constructed on roads up to 12-14% grade where there is a through cut up to 3 feet tall, or a wide or tall bern that otherwise blocks road drainage. The bern or native through cut material should be removed for the length of the dip, or at least through the axis of the dip, to the extent needed to provide for uninterrupted drainage onto the adjacent slope. The bern and slope material can be excavated and endhauled, or the material can be sidecast onto native slopes up to 45%, provided it will not enter a stream.

Type 3 Rolling Dip (Steep wad grade) Type 3 rolling dips are utilized where road grades are steeper than about 12% and it is not feasible to develop a reverse grade that will also allow passage of the design vehicle (steep road grades require more abrupt grade reversals that some vehicles may not be able to traverse without bottoming out).

Instead of relying on the dip's grade reversal to turn runoff off the roadbed, the road is built with an exaggerated outslope of 6-8% across the dip axis. Road runoff is deflected obliquely across the dip axis and is shed off the outsloped section rather than continuing down the steep road grade.

FIGURE 36. Rolling dip types

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BMP: Rolling Dip Design and Placement

FIGURE 33A. Relling dip constructed on a rock sucfaced nutal road. The rolling dip tepresents a changein-grade along the mad alignment and acts to discharge water that has collected on, or is flowing down, the mad surface. This mad was recently converted from a high maintenance insloped, disabed mad to a low maintenance, oursloped mad with mility dips.

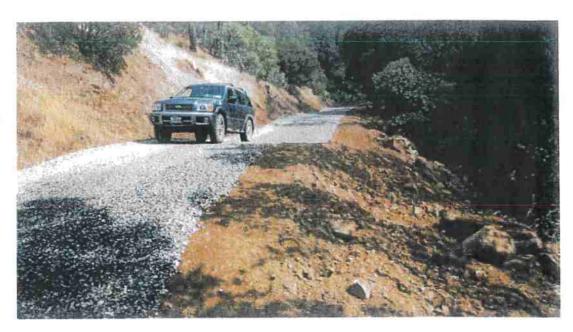
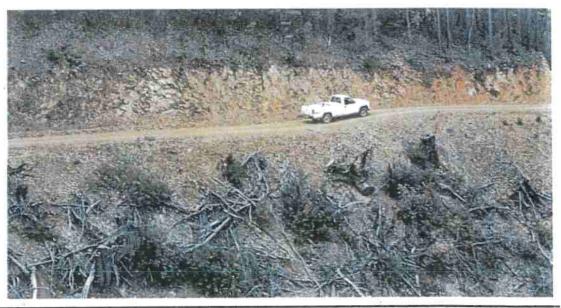


FIGURE 33B. This side view of an outsloped road shows that the rolling dip does not have to be deep or abrupt to reverse road grade and effectively drain the road surface. This outsloped forest road has rolling dips that allow all traf-6c types to travel the route without changing speed.



BMP: Waterbar/Rolling Dip Combined with DRC



FIGURE 39.

Waterbars are often used to drain surface runofficom seasonal, unsurfaced roads. Because they are easily broken down by vehicles, waterbars are only used on unsurfaced roads where there is little or no wet weather traffic. In this photo, a waterbar and ditch relief culvert are used to drain all road surface and ditch runoff from the insloped road prism.

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Diagram shows and discussed the use of a waterbar. However, a DRC combined with a rolling dip structure provides the same surface and ditch drainage for roads used year-round. Just as with the waterbar in the photo above, The DRC is installed just upslope from the rolling dip. This also creates a fail-safe should the DRC become plugged or overwhelmed.

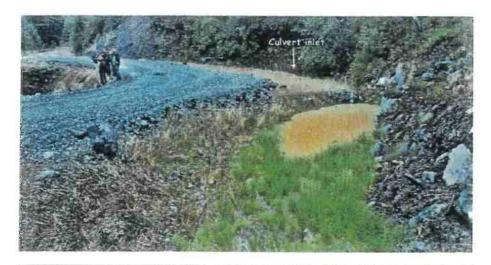
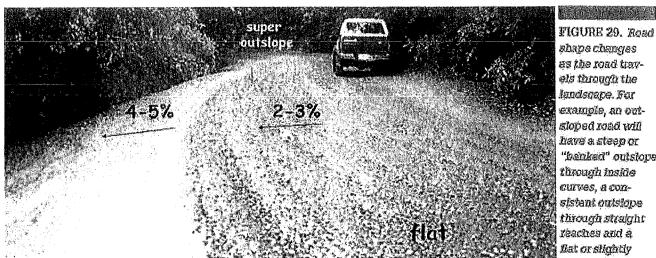


FIGURE 238. Traffic and surface runoff from graveled roads often produces surface erosion, turbid runoff and fine sediment transport that can be delivered to streams. Where distribes can't be eliminated, sediment traps and roadside settling basins can be installed to capture and remove most of the eroded sediment. This settling basin has been constructed along the inside ditch just before a stream crossing culvert inlet (see arrow). Eroded sediment from the road and ditch are deposited in the basin before flow is released to the stream. Fine sediments have filled about 1/3 of this basin and vegetation is now growing. Sediment basins require periodic maintenance to maintain their storage capacity.

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BMP: Road Outsloping



Handrook for forest, ranch, and rural roads

FIGURE 29. Road shape changes es the road trevels through the landscape. For example, an outsloped road will have a steep or "banked" outstope through inside curves, a consistent outslope through straight reaches and a Nat or slightly Insigned shape as It goes through an outside curvé. The roed may have an outslope of 2-3% acioss the travel surface while the sboulder is more steeply outsloped to ensure nunoti and sediment will leave the roadhed.

BMP: Steep Road Drainage Features

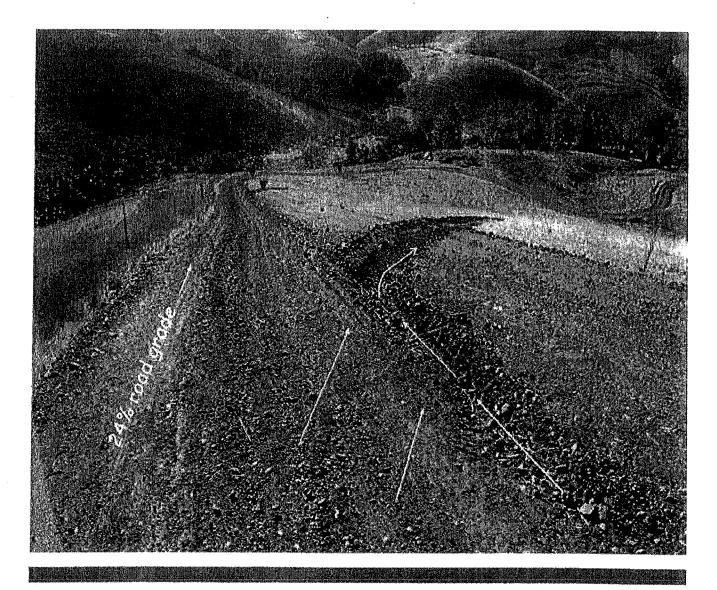


FIGURE 55. Steep roads that go straight up or down a hillside are very difficult to drain. This steep, fall line road developed a through cut cross section that was drained using lead out disches to direct runoff off the road and onto the adjacent, vegetated hillside. The road was "outsloped" to drain runoff to the right side, and the lead out disch was hullt slightly steeper than the road grade, to be self-cleaning. Four lead out disches have been constructed at 100-foot intervals to the bottom of the hillside, handlook for forest, rance and sural space.

BMP: Ditch Relief Culvert

- Install ditch relief culverts at an oblique (typically 30 degree) angle to the road so that ditch flow does not have to make
 a sharp angle turn to enter the pipe. On low gradient roads (<5%), where ditch flow is slow, ditch relief culverts can be
 installed at right angles to the road.
- Install ditch relief culverts (DRC) to outlet at, and drain to, the base of the fill
- If it cannot be installed at the base of the fill, install the DRC with a grade steeper than the inboard ditch draining to the culvert inlet, and then install a downspout on the outlet to carry the culverted flow to the base of the fillslope or energy dissipater material at outlet to prevent erosion or the outboard road fill.
- Downspouts longer than 20 feet should be secured to the hillslope for stability.
- Ditch relief culverts should not carry excessive flow such that gullying occurs below the culvert outlet or such that erosion and down-cutting of the inboard ditch is occurring.
- Do not discharge flows from ditch relief culverts onto unstable areas or highly erodible hillslopes.
- If the ditch is on an insloped or crowned road, consider reshaping road outsloping to drain the road surface. The ditch and the ditch relief culvert would then convey only spring flow from the cutbank and hillslope runoff, and not turbid runoff from the road surface.

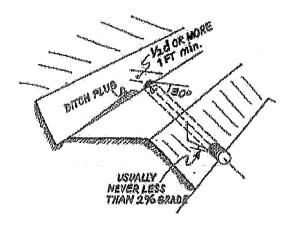
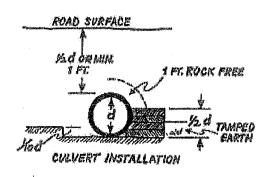


FIGURE 48. The elements of a properly installed ditch relief culvert. The culvert is angled at about 30 degrees to the road alignment to help capture flow and prevent culvert plugging or erosion of the inlet eres. It is set at the base of the fill (ideally) or with a grade slightly steeper than the grade of the contributing ditch (but never with a grade less than 2 percent) (USDA-SCS, 1923). At a minimum, the grade of the ditch relief culvert should be sufficient to prevent sediment accumulation at the inlet or deposition within the culvert itself (it should be self-cleaning) (USDA-SCS, 1993).

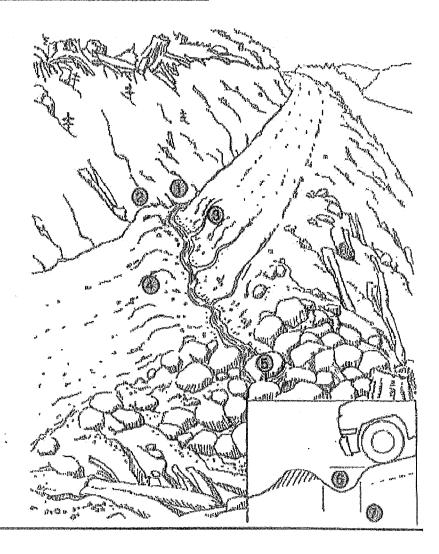


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BMP: Waterbar Construction

FIGURE 40. Waterbars are constructed on unsuitabed forest and reach roads that will have little or no traffic during the wet season. The waterbar should he extended to the cutbank to intercept all ditch flow (1) and extend beyond the shoulder of the wad. A berm (2) must block and prevent disch flow izom continuing down the road during flood flows. The excavated waterbar (3) should be constructed to be selfcleaning, typically with a 30° skew to the read alignment with the excavated material bermed on the downfull grade of the road (4). Water should shways be discharged onto the downhill side on a stable slope protected by regetation. Rock (shown in the figure) should not be necessary if waterbars are spaced close enough to prevent serious erosion. (5) The cross ditch depth (6) and width (7) must allow vehicle cross-over withour destroying the function of the drain. Several alternate types of waterbars are possible, including one that drains only the road surface (not the divib), and one that drains the road surface into the inside ditch (ECMF, 1991).

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BMP: Cultivation Site Restoration

- Remove all cultivation and associated materials from designated cultivation site.
 - This includes plant mass, root balls, potting containers, cultivation medium and any materials associated with the preparation, cultivation, and harvest of commercial cannabis.
 - Cultivation medium removed from the site shall be stored/disposed of in compliance with Order conditions related to spoils management.
- All disturbed and/or unstable slopes shall be stabilized and returned to pre-project conditions.
 - o Slopes shall be contoured as close as feasible to natural grade and aspect.
 - o Temporary erosion control shall be applied to prevent sediment run-off.
- Soll exposed as a result of project work, soil above rock riprap, and interstitial spaces between rocks shall be revegetated with native species by live planting, seed casting, or hydroseeding prior to the rainy season of the year work is completed.
 - Native plants characteristic of the local habitat shall be used for revegetation when implementing and maintaining cleanup/restoration work in riparian and other sensitive areas.
 - o Native forces and gramminoids shall be planted to replace sediment stabilization, sediment filtration and nutrient filtration
 - Native trees and shrubs shall be planted to replace bank stabilization, inputs of large woody debris and temperature control within riparian areas.
 - o Restoration of the quality/health of the riparian stand shall promote: 1) shade and microclimate controls; 2) delivery of wood to channels, 3) slope stability and erosion control, 4) ground cover, and 5) removal of excess nutrients.

Monitoring Plan

Cannabis cultivators shall regularly inspect and maintain the condition of access roads, access road drainage features, and watercourse crossings. At a minimum, cannabis cultivators shall perform inspections prior to the onset of fall and winter precipitation and following storm events that produce at least 0.5 in/day or 1.0 inch/7 days of precipitation. See Required Monitoring tables below for site specific monitoring and reporting requirements. Cannabis cultivators are required to perform all of the following maintenance:

- Remove any wood debris that may restrict flow in a culvert.
- Remove sediment that impacts access road or drainage feature performance.
- Place any removed sediment in a location outside the riparian setbacks and stabilize the sediment.
- Maintain records of access road and drainage feature maintenance for annual reporting.

Cannabis cultivators that are operating in areas that are, or may become, inaccessible during winter months due to extreme weather such as snow, road closures, seasonal access roads to the property, or any other such conditions shall make additional efforts to enhance winterization measures in the absence of monitoring during storm events.

Monitoring Requirements

(Tier 1, Low Risk, < 1 acre of cultivation)

Monitoring Requirement	Description	
Winterization Measures Implemented	Report winterization procedures implemented, any outstanding measures, and the schedule for completion.	
Tier Status Confirmation	Report any changes in the tier status.	
Third Party Identification	Report any change in third party status as appropriate.	

Annual Reporting

Annual Reports shall be submitted to the North Coast Regional Water Quality Control Board by March 1st following the year being monitored. Annual Reporting for this enrollment shall be submitted by March 1st, 2021 and report on monitoring done during the 2020 calendar year. Annual reporting is required each subsequent year of enrollment.

Implementation of Applicable BPTC Measures

Assessment of applicable BPTC measures consisted of a field examination on March 03, 2020. Anywhere applicable BPTC measures are not met on the property, descriptions of the assessments and the prescribed treatments are outlined following each associated section below.

Summary of BPTC Measures Compliance

- 1. Sediment Discharge BPTC Measures Y⊠/N□
- 2. Fertilizer, Pesticide, Herbicide, and Rodenticide BPTC Measures Y⊠/N□
- 3. Petroleum Product BPTC Measures Y⊠/N□
- 4. Trash/Refuse, and Domestic Wastewater BPTC Measures Y⊠/N□
- 5. Winterization BPTC Measures Y□/N⊠

1. Sediment Discharge BPTC Measures

- 1.1. Site Characteristics
 - 1.1.1. Provide a map showing access roads, vehicle parking areas, streams, stream crossings, cultivation site(s), disturbed areas, buildings, and other relevant site features.

See attached Site Map.

- 1.1.2. Describe the access road conditions including estimating vehicle traffic, road surface (e.g., paved, rocked, or bare ground), and maintenance activities. Describe how storm water is drained from the access road (e.g., crowned, out slope, armored ditch, culverts, rolling dips, etc.).
 - See section "Land Development and Maintenance, Erosion Control, and Drainage Features" above, the attached Mitigation Report, Site Maps, and Treatment Implementation Schedule for site specific descriptions, treatments, and the Implementation schedule.
- 1.1.3. Describe any vehicle stream crossing including the type of crossing (e.g., bridge, culvert, low water, etc.).
 - See the section titled "Stream Crossing Installation and Maintenance" or the attached Mitigation Report and Site Maps for site specific details and treatment schedules.
 - 1.1.3.1. For Region 1 Dischargers, identify, discuss, and locate on the site map any legacy waste discharge issues that exist on the property.
 - Multiple legacy roads were identified on the property as many roads were constructed for past timber harvest activities. The

roads have either already been abandoned, and water course crossings have been decommissioned.

- 1.2. Sediment Erosion Prevention and Sediment Capture (Moderate risk Tier 1 or Tier 2 Dischargers are required to submit a Site Erosion and Sediment Control Plan. Those Dischargers may refer to that plan rather than repeat it here)
 - 1.2.1. Erosion Prevention BPTC Measures
 - 1.2.1.1. Describe the BPTC measures that have been, or will be implemented to prevent or limit erosion. Provide an implementation schedule for BPTC measures that have not yet been implemented. Identify the erosion prevention BPTC measures on a site map.

See sections "Land Development and Maintenance, Erosion Control, and Drainage Features" and "Riparian and Wetland Protection and Management" above, attached Mitigation Report, Site Maps, and Treatment Implementation Schedule for site specific descriptions of physical BPTC measures being prescribed.

1.2.1.1.1 The description shall address physical BPTC measures, (e.g., placement of straw mulch, plastic covers, slope stabilization, soil binders, culvert outfall armoring, etc.) and biological BPTC measures (vegetation preservation/replacement, hydro seeding, etc.).

See the attached Mitigation Report and Best Management Practices (BMPs) for descriptions of physical BPTC measures being prescribed.

1.2.2. Sediment Control BPTC Measures

1.2.2.1. Describe the BPTC measures that have been, or will be implemented to capture sediment that has been eroded. Provide an implementation schedule for BPTC measures that have not yet been implemented. Identify the sediment control BPTC measures on a site map.

Not applicable.

1.2.2.1.1. The description shall address physical BPTC measures, (e.g., placement of silt fences, fiber rolls, or settling ponds/areas, etc.) and biological BPTC measures (vegetated outfalls, hydro seeding, etc.).

There are no biological BPTC measures being prescribed.

- 1.2.3. Maintenance Activities Erosion Prevention and Sediment Control
 - 1.2.3.1. Describe how the erosion prevention and sediment control BPTC measures will be monitored and maintained to protect water quality.

Erosion prevention BPTC measures and all corresponding work shall be inspected prior to and in conjunction with winter monitoring, as described above under the "Monitoring Plan" to ensure proper placement, installation, and function remain intact prior to and throughout the Winter Period.

1.2.3.2. Describe how any captured sediment will be either stabilized in place, excavated and stabilized on-site, or removed from the site.

Not applicable.

1.2.4. Erosion control BPTC measures: Describe the interim soil stabilization, if applicable and long-term BPTC measures implemented to prevent sediment transport at each identified disturbed area(s) and improperly constructed features.

Not applicable. There was no erosion observed at any of the disturbed areas and there are no improperly constructed features. Disturbed areas are located on gentle slopes surrounded by vegetation and grass buffers.

2. Fertilizer, Pesticide, Herbicide, and Rodenticide BPTC Measures

2.1. Provide a summary table that identifies the products used at the site, when they are delivered to the site, how they are stored, and used at the site. If products are not consumed during the growing season, describe how they are removed from the site or stored to prevent discharge over the winter season.

See comprehensive table under 2.3

2.2. Provide a site map that locates storage locations.

See attached Site Map. Fertilizers and soil amendments are currently stored properly in sheds.

2.3. Describe how bulk fertilizers and chemical concentrates are stored, mixed, applied, and how empty containers are disposed.

Fertilizer, Pesticides, and Herbicide Products used on Site

Product	Delivery and Storage	On-site usage	How removed or stored
Organic Neem Oil	Brought to property as needed. Stored within the sheds with all other fertilizers and amendments.	Mixed into tank with water. It is then dripline watered to plants as needed.	Stored within the storage structures over winter. Empty containers are disposed of at an appropriate waste disposal facility.

2.4. Describe procedures for spill prevention and cleanup.

Any fertilizer, pesticides, and herbicide products used shall either be stored in a purpose-built structure or within other secured structures over winter. The cannabis cultivator shall obtain adequate quantities of absorbent materials and ensure that they are stored at all locations where the materials above are used, stored, or mixed. Should a spill of these materials occur, absorbent materials will be applied immediately and allowed enough time to absorb as much material as possible. Following treatment, absorbent materials applied will be removed and disposed of appropriately as per the manufacturer's guidelines.

3. Petroleum Product BPTC Measures

3.1. Provide a summary table that identifies the products used at the site, when they are delivered to the site, how they are stored, and used at the site. If products are not consumed during the growing season, describe how they are removed from the site or stored to prevent discharge over the winter season.

See comprehensive table under 3.3.

3.2. Provide a site map that locates storage locations.

See attached Site Map.

3.3. Describe how fuels, lubricants, and other petroleum products are stored, mixed, applied, and empty containers are disposed.

Petroleum Products

Products used on site	When they are delivered to site	How they are stored and used	How removed or stored
Gasoline	Brought to site when needed throughout the year.	Stored in standard 5- gallon gasoline canisters. Used to fuel equipment.	Stored in standard 5- gallon gasoline canisters.

3.4. Describe procedures for spill prevention and cleanup.

Any/all fuel canisters, motor oil containers, and generators, large or small, shall be stored in secondary containment (e.g. drip pans, plastic totes, or sealed metal boxes) while being stored long term or not in immediate use, wherever these materials are used anywhere on the property. Adequate quantities of absorbent materials are stored at all locations where these types of materials are used, stored, or mixed. Should a spill of these materials occur, absorbent materials will be applied immediately and allowed enough time to absorb as much material as possible. Following treatment, absorbent materials applied as well as any

contaminated soil will be removed and disposed of appropriately for the spilled material.

4. Trash/Refuse, and Domestic Wastewater BPTC Measures

4.1. Describe the types of trash/refuse that will be generated at the site. Describe how the material is contained and properly disposed of.

Commercial cannabis refuse will be generated at the site. The refuse is securely stored in trash bags, trash bins, and a shed prior to disposal at an appropriate waste disposal facility.

4.1.1. Provide a site map that locates the trash/refuse storage locations.

Refuse is stored in trash bags, trash bins, and a shed. See attached Site Map.

4.2. Describe the number of employees, visitors, or residents at the site.

There are two regular employees who are at the site during the cultivation season. Additional employees are brought onto the property for short periods of time to complete projects requiring additional employees. Visitors are occasionally on site, including consultants and regulatory agencies.

4.2.1. Describe the types of domestic wastewater generated at the site (e.g., household generated wastewater or chemical toilet).

Not applicable.

- 4.2.2. Describe how the domestic wastewater is disposed.
 - 4.2.2.1. Permitted onsite wastewater treatment system (e.g., septic tank and leach lines).

Not applicable.

4.2.2.2. Chemical toilets or holding tank. If so, provide the name of the servicing company and the frequency of service.

Bread and Butter Portables provides and services multiple chemical toilets during the cultivation season. The facilities are serviced every as needed.

4.2.2.3. Outhouse, pit privy, or similar. Use of this alternative requires approval from the Regional Water Board Executive Officer; include the approval from the Executive Officer and any conditions imposed for use of this alternative.

Not applicable.

4.2.2.3.1. Provide a site map that locates any domestic wastewater treatment, storage, or disposal area.

Not applicable.

5. Winterization BPTC Measures

- 5.1. Describe activities that will be performed to winterize the site and prevent discharges of waste. The description should address all the issues listed above.
 - See Mitigation Report and Annual Winterization Measures for prescribed general winterization measures that will be performed prior to each Winter Period, and site-specific interim measures that will be performed prior to the Winter Period until permanent, prescribed treatments can be executed.
- 5.2. Describe maintenance of all drainage or sediment capture features (e.g., drainage culverts, drainage trenches, settling ponds, etc.) to remove debris, soil blockages, and ensure adequate capacity exists.
 - Existing drainage structures will be maintenanced or repaired as feasible and necessary with hand tools during annual winterization and winter monitoring. Prescribed repair and maintenance will be executed in accordance with the Mitigation Report and Treatment Implementation Schedules.
- 5.3. Describe any revegetation activities that will occur either at the beginning or end of the precipitation season.
 - Not applicable.
- 5.4. If any BPTC measure cannot be completed before the onset of Winter Period, contact the Regional Water Board to establish a compliance schedule.
 - See the attached Mitigation Report and Treatment Implementation Schedule for site descriptions, treatments, and the implementation schedule.
- 5.5. For Region 1 Dischargers, describe any activities that will be performed to address legacy waste discharge issues. Region 6 Dischargers should consult with Regional Water Board staff to confirm if any other activities in addition to BPTCs are necessary to address legacy waste discharge issues.
 - Not applicable. No legacy waste discharge issues were identified during the assessment of the property.

Photographs
Photo Dates: March 3rd, 2020



Groundwater well located on property.



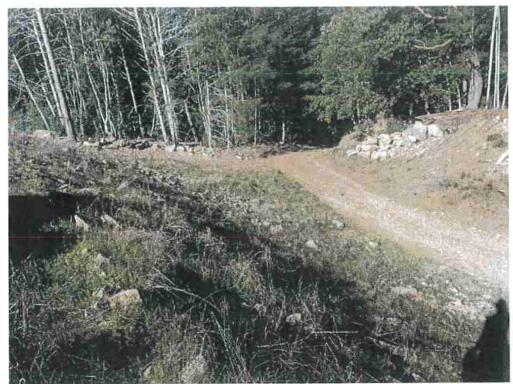
Cultivation Area C.



Cultivation Area B.



Cultivation Area A.



Riling present on the permanent road leading up to Cultivation Site C. The riling will be mitigated through the instillation of two ditch lines on the inboard and outboard of the road to direct surface runoff.



Past cultivation area nearby Site 08.