



Tierra Consulting

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## Site Management Plan

**Humboldt Standard, LLC  
Friday Ridge Road  
Willow Creek, CA 95573  
County of Humboldt  
APN: 524-075-023  
WDID: 1\_12CC418648**

***Prepared for:***

**North Coast Regional Water Quality Control Board (NCRWQCB)  
5550 Skylane Boulevard Suite A  
Santa Rosa, California 95403-1072**

***Date of Preparation:***

***March 2020***

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**Attachments**

- Attachment 1 – Location and Site Map**
- Attachment 2 – Photo Log**
- Attachment 3 – BPTC Table**
- Attachment 4 – SWRCB Notice of Applicability**
- Attachment 5 – CDFW LSAA**
- Attachment 6 – TVCE Grading and Erosion Control Plan**

## *General Site Information*

**Discharger:** Humboldt Standard LLC

**Landowner:** Wade and Judy Ammon

**Site Address:** 2185 Friday Ridge Road, Willow Creek, 95573

**Mailing Address:** 3887 Bartley Dr., Sacramento, CA 95822

**Assessor's Parcel No.:** 524-075-023

**WDID:** 1\_12CC418648

**General Plan Designation:** Residential Agriculture (RA40)

**Zoning:** Unclassified (U)

**Parcel Size:** 13.8 acres

**Watershed:** Four Mile Creek – South Fork Trinity River

**Water Source:** Groundwater well used for cannabis cultivation.

**Cultivation Area:** ± 17,000 Square Feet

**Disturbed Area:** 0.78 acres

**Number of Stream Crossings:** 2

**Average Slope within Parcel:** Less than 15 to 50 %

**Risk Designation:** Low Risk



## 1. Introduction

This management plan was prepared by Tierra Consulting (Tierra) for Humboldt Standard, LLC (discharger) related to cannabis cultivation activities as required by the State Water Resource Control Board (SWRCB) Order WQ 2017-0023-DWQ. The purpose of the Statewide Order is to provide a regulatory structure for cannabis cultivation-related activities that reduces contributions to existing water quality issues and prevents additional adverse impacts to natural resources throughout California. The mandated Site Management Plan is to identify and document existing conditions present within the project parcel that may pose a threat to natural resources and establish a timeline to meet requirements set forth within the Order.

Tierra Consulting conducted an initial site assessment of the project parcel by desktop reconnaissance (e.g., USGS National Geologic Map Database, USDA Web Soil Survey, USGS Streamstats, Calfire Forest Practice Watershed Mapper, County of Humboldt Web GIS) and site visitations on 4/15/17 and 2/7/2020. Data was gathered utilizing a Trimble Geo7x GPS data collector (submeter accuracy) to document existing conditions, this includes roads, buildings, cultivation areas, watercourses, and areas requiring remediation. A Location and Site Map (**Attachment 1**) can be located in the Attachments section and will be referenced throughout the remainder of the document. Photo documentation of site conditions taken and are provided in **Attachment 2 (Photo Log)**.

## 2. Background and Overview

### 2.1 General

The site project site is located in Humboldt County, approximately 2.5 miles up Friday Ridge Road from Highway 299. The project site elevation is approximately 1600 feet above sea level. Located in the South Fork Trinity River Hydrologic Unit (HU) near Four Mile Creek. The slopes within the parcel range from less than 15 to 30 percent slope. four watercourses originate or bisect the project parcel.

The Trinity River HU was listed on the SWRCB 303(d) list for impairment to water quality associated with Sedimentation/Siltation and temperature in December of 1998. The South Fork Trinity River is known to host several State and Federally-listed endangered and threatened species, including Coho, Chinook, and Steelhead salmonids. Geologically, the site is underlain by geology of Western Paleozoic and Triassic belt of rocks and is underlain by swath of intrusive ultramafic rocks that is a localized member of the previously mentioned formation (Young, 1987). Irwin (1972) differentiates the Western Paleozoic and Triassic belt into three distinct terranes, where the site underlain by the Rattlesnake Creek Terrane. The composition of this terrane is predominately serpentized ultramafic rocks, gabbro, diabase, pillow lavas and other mafic volcanic rocks, phyllite, thin bedded radiolarian chert, discontinuous lenses of limestone, and locally interbedded sandstone and pebble conglomerate. Due the low-grade metamorphism, folding and faulting encountered within this terrane, the Rattlesnake Creek terrane is highly susceptible to mass wasting. The project site is located 0.5 miles west of the Hennessey Ridge



fault, a major inter-formational thrust fault placing the Western Paleozoic and Triassic belt structurally on top of Jurassic-aged Galice formation, but is largely inactive.

## 2.2 Site Overview

The approximate 14-acre parcel has a 4 green houses, two shipping containers, and two port-a-potties, where water is provided by a groundwater well. Cultivation activities are located on a historic quarry landing opening surrounded by deciduous and coniferous forest. One, unnamed, class III tributary to Four Mile creek is located on the parcel. The total area disturbance is approximately 34,000 square feet (SF) (0.78 acres) due maintenance of access roads and stream crossing fill prisms, along with the total cleared area associated with the cultivation site. The total cultivation area is approximately 17,000 SF of total cultivation, all mixed light cultivation located within two distinct greenhouse areas, and located on slopes from less than 15% to 30%. Adherence to the erosion and sediment control measures specified in the *Sediment Erosion Prevention and Sediment Capture* section of this report insure disturbed areas have been adequately stabilized.

There are several locations throughout the subject parcel where Best Practical Treatment and Controls (BPTC) measures are recommended. The descriptions that follow describe treatments that have been applied throughout the site. For site specific measures, please see the summary table included as **Attachment 3**.

Table 1: Cultivation Area Synopsis

Cultivation Location	Cultivation Area (SF)	Slope (%)	Distance to Watercourse (ft)	Watercourse Classification
Greenhouse Area 1	13,808	15%-30%	50	III
Greenhouse Area 2 (Proposed)	3,192	15%-30%	50	III

## 3. Sediment Discharge BPTC measures

### 3.1 Site Characteristics

#### 3.1.1 Map of relevant site features.

See Attachment 1.

#### 3.1.2 Access Roads

The site is located approximately 2.2 miles south of highway 299 along Friday Ridge Road. Friday Ridge Road has been categorized as a category 4 road by Humboldt County. The



intersection of Friday Ridge Road and the Access Driveway is the starting point of the subject property's roadway system.

The road system throughout the parcel consists of approximately 0.41 miles of road. In general, the road system is of a shallow (less than 15%) grade and is not delivering sediment to streams. There are several erosion control measures installed on the site which are functioning well. However, there are multiple locations where evidence of overland flow is apparent on the surface of the roads. In these locations, identified in Attachment 1, additional mitigations are outlined as follows:

### **Road Segment #1 (RS1):**

The driveway entrance from Friday Ridge Road is a dirt surfaced road (RS #1). The seasonal dirt surfaced road is located away from watercourses and does not have the potential to directly deliver sediment to surface waters (Four Mile Creek, a tributary of the South Fork Trinity River). During the assessment, the condition of the seasonal dirt surfaced road was dry and dusty. There were short segments where ruts and pot holes had formed during the winter season. There was no evidence of direct discharge of sediment into a watercourse.

Two (2) rolling dips (RD #1-2) are proposed in areas where surface water has demonstrated pooling, and to ensure surface water discharge of the moderately sloping road segment that has the potential to deliver sediment away from watercourses. The entire road segment, including the rolling dip sections will be maintained with two (2) inches of 1 ½ inch gravel, and four (4) inches of 2 to 3 inch rock base that will be installed prior to adding surface rock. These materials will be compacted by a vibratory roller to insure compaction and embedment.

### **Road Point #2 (RP2):**

The access road (RS #2) to the upper landing from the lower landing (cultivation area) is a seasonal dirt surfaced road. Surface ruts and gullies have been noted on this stretch of road. This road is within the streamside management area of a Class-III watercourse, where there is hydrological connectivity from the road to the watercourse. There is evidence of direct discharge of sediment into the watercourse from this road segment.

To relieve sediment delivery from the connected road segment, the existing inboard ditch (ID#1) will be rock-lined and check dams installed to reduce flow velocity, erosion and sedimentation. The proposed rock-lined inboard ditch along RS#2 (100 LF; 1000 SF) will be rock-lined with a minimum of 4" of rock base to reduce erosion and sedimentation originating from seasonal use and uncontrolled overland flow the road presently experiences. An inboard ditch will be installed from the upper landing along the toe of the cutbank of the access road and directed towards outlet of the rock-armored ford chute. The purpose is to capture any overland flow and cutbank seepage. The ditch will be at minimum 3 feet wide and 1 foot deep, lined with 6 – 8 inch diameter angular aggregate. This will require the excavation of 7 CY (60 LF), with installation of 5.5 CY of rip-rap to rock line the inboard ditch. These activities will disturb up to 240 SF. The installation of the rock-lined ditch will require the loss of shrubs and grasses.



The entire road segment, including the rolling dip sections will be maintained with two (2) inches of 1 ½ inch gravel, and four (4) inches of 2 to 3 inch rock base that will be installed prior to adding surface rock. These materials will be compacted by a vibratory roller to insure compaction and embedment.

### **Road Point #3 (RP3):**

The access road (RS#3) from the upper landing area to relict quarry sorting area is a dirt surfaced road that has seen little or no maintenance since the relict quarry was in operation. Both surface ruts and gullies have formed due to diverted overland flow along this segment, which has led to surface erosion due to concentrated runoff, introducing sediment to the Class- III watercourse.

On RS#3, a rock ford crossing (SC#2) in order to maintain quad access to the water storage tanks, shall be installed at the location of where the Class-III watercourse crosses the RS #3. In addition, two (2) water bars (WB #1-2) shall be installed on the remaining portion of RS #3 as an additional measure to road outslipping to reduce concentration of overland flow originated upslope of this road segment. The earthen waterbar will run at an angle of 30° downslope of perpendicular to the roadway. The waterbar berm will be elevated enough to divert water to the outlet (8 to 12 inches) and recommended length of waterbar feature will be 6 to 12 feet to allow vehicle passage when necessary. The entire road segment, including the rolling dip sections will be maintained with two (2) inches of 1 ½ inch gravel, and four (4) inches of 2 to 3 inch rock base that will be installed prior to adding surface rock. These materials will be compacted by a vibratory roller to insure compaction and embedment.

### **General Road Conditions:**

Seasonal road use is limited to the months of April-October. Use during the wet season is avoided on seasonal roads to reduce damage to the roadbed (e.g., windrowing). If these roads become regularly used during the wet season, these roads shall be upgraded to permanent use road conditions.

Overall, the access road system, and subject parcel road system are both adequate for the intended uses on of the subject property. Implementation of the above recommendations will provide for the intended use and limit the effects on water quality.

#### **3.1.3 Stream Crossings**

The project requires 1 culvert to be upgraded, a natural, dirt ford to be upgraded to a rock armored ford crossing. The paragraphs below outline the specifications of onsite stream crossings and impoundments and the proposed upgrades that demonstrate proposed compliance with the requirements of the State Water Board Cannabis Policy (Policy). Additionally, a 401 application will be submitted by May 1, 2020 to the North Coast Regional Water Quality Control Board, which will provide additional information on the proposed stream crossing upgrades, including mitigation plans for proposed instream work as well as proposed timelines for work completion.



**Stream Crossing #1 (SC1):**

There is one Class-III watercourse stream crossing within the subject parcel. One (1) 18" corrugated metal pipe culvert passes through the landing that contains the cultivation area. Sedimentation was observed at the culvert inlet from erosion of upland areas associated with RS #2 and #3. Efforts outlined in the previous sections shall contribute to reduction of sedimentation the culvert inlet. In addition, no existing armoring of the culvert inlet is present. Area around the inlet shall be prepared to allow placement of 8" to ¼ ton RSP to arm the inlet. The outlet is armored with an approximately 24 SF (3 feet wide and 8 feet long) velocity dissipater comprised of 6 inch to 12 inch rip-rap.

Sedimentation (2-3 CY of sediment) of the inlet has occurred over the 30 year life of the culvert. Over all, the culvert is in good condition. Based on the expected Q100 for the Class III watercourse (~8.2cfs), the culvert monograph indicates the crossing should have a 21 inch diameter culvert (HW/D = 1) at this location. Additional stream channel geometries were measured employing the 3x Bankfull method to interpolate the appropriate sizing. We measured seven bankfull measurements above the culvert location. These measurements are tabulated below:

Table 1: SC#1 Bankfull Measurements

Length Top (in)	Length Bottom (in)	Height (in)	Area (in <sup>2</sup> )	Area (ft <sup>2</sup> )
21	12	4	66	0.46
14	12	2	26	0.18
12	8	2	20	0.14
16	14	2	30	0.21
18	12	3	45	0.31
19	11	4	60	0.42
20	20	1.5	30	0.21
AVG Bankfull Area (Ft <sup>2</sup> )		0.28		
3x AVG Bankfull Area		0.83		

A typical 18 inch culvert is approximately 1.77 SF in area, based from the field observations, the existing 18 inch culvert is adequate at this location. This location can shall be monitored and maintained. Required maintenance of sediment build up at the inlet will occur with the rock-armored spillway and outlet buildout.

**Rock Armored Ford (SC#2):**

The proposed rock-armored ford crossing and outlet is located on an old access road to a quarry working area. The road has diverted the original watercourse, where water is now pooling on the inboard edge of the access road and then causing entrenchment of the stream channel on the



outboard edge causing sedimentation at the inlet of the existing 18 inch corrugated metal pipe (SC#1) that crosses the landing where cultivation activities are now present. Previous activities associated with this site had been associated with mining hard rock. The site has been “reclaimed”, however this was addressing the slope area where active mining was occurring, where “additional slope activity would also provide a new source of erosion and sedimentation that would require additional erosion and sediment control practices”. We propose the installation of a rock ford per Tierra Consulting recommendations (**Attachment #6** – TVCE Grading and Erosion Control Plan). Furthermore, the streambank will be stabilized from the rock ford to the culvert inlet to reduce erosion and sedimentation by placement of RSP. Based on the simplified rock-armored crossing monograph (2017 California Forest Report No. 1) and the expected Q100 for the Class III watercourse (~8.2 cfs), the minimum rip-rap mean diameter (D50) is ~1.35 feet (for a 2:1 (h:v) slope inclination), where rip-rap thickness normal to slope face is ~2.7 feet, where the minimum channel width is ~3 feet and the minimum depth is ~1 foot. The installation of the rock-armored ford will require the excavation of 60 CY (35 LF) of material from the channel, where approximately 38 CY of rip-rap will be imported and permanently emplaced as part of the watercourse crossing installation. The approximate area of disturbance will be approximately 525 square feet.

Beyond the toe of the chute of the proposed crossing structure a trapezoidal outlet channel will continue along the access road to the inlet of the existing 18 inch culvert. The trapezoidal geometry of the channel will be 5 feet ( $L_{Top}$ ), 3 feet ( $L_{Bottom}$ ) by 1 foot (Height) to maintain similar channel geometry of the crossing structure. The installation of this structure will require the excavation of 16.5 CY (25 LF) of materials from the channel, where approximately 12 CY of rip-rap will be installed. The approximate area of disturbance will be approximately 225 square feet.

Approximately 750 SF of overall disturbance will occur, 76.5 cubic yards of fill will be permanently displaced associated with the ford installation and outlet structure and 50 CY of rip-rap will be installed on 65 LF of Class III watercourse. A non-woven geotextile will underlay the rip-rap. The access road will be surfaced with 2 inch minus road base 50 feet in either direction from the center line of the crossing. This crossing will require the loss of shrubs and pine seedlings. Additional measures will be made to access road leading to the quarry work area to reduce hydrologic connectivity. Two water bars will be installed along the access road as outlined above.



Table 2. Crossing Sizing

Stream Crossings –Sizing Recommendations <sup>1,2,3</sup>					
Stream crossing	Existing culvert diameter (in)	Watershed area (acres) (A)	100-year Return-period Precipitation (in/hr) (I)	Q100 (cfs)	Recommended culvert diameter (in)
SC #1/2	18	7.92	3.45	8.2	21
<p><sup>1</sup> Assumes mean annual precipitation of 50 inches, 0.3 runoff coefficient (C ) and a headwater depth ratio (HW/D) of 1.0 was used to determine culvert sizing.</p> <p><sup>2</sup>The 100-year Return-Period precipitation data was sourced from: <a href="http://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=ca">http://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=ca</a></p> <p><sup>3</sup>The method is based on this equation: <math>Q_{100}=CIA</math></p> <p>Where:  <math>Q_{100}</math>= predicted peak runoff from a 100-year runoff event (in cubic feet per second)  C= runoff coefficient (percent of rainfall that becomes runoff)  I= uniform rate of rainfall intensity  A= drainage area (in acres)</p>					

Note that all proposed stream crossing upgrades and road drainage structures associated with these projects will occur on in-use roads and cultivation related access sites. All disturbance associated with this project will be limited to the road or clearing and immediately adjacent stream channel reaches as necessary to improve road drainage, stormproof the stream crossings, and prevent sediment delivery to watercourses.

Standards of work will conform to *CDFW California Salmonid Stream Habitat Restorations Manual Part X* (Weaver, Hagans and Weppner, 2006) and the *Handbook for Forest, Ranch, and Rural Roads* (Weaver, Weppner and Hagans 2015), and will occur during the summer months. Care will be taken not to unnecessarily disturb the native channel outside of the identified areas. Fill to be permanently removed will be stored in designated locations with no risk of sediment delivery. All disturbed areas where sediment delivery from surface erosion processes is feasible will be seeded and mulched to reduce surface erosion and transport processes.

### 3.1.3.1 Legacy Waste Discharge Issues

In general, roads, fills, and terraced areas within this parcel due to the past operations of the quarry were designed to be hydrologically connected to the Class-III watercourse to encourage site drainage. As outlined above, all road segments, should encourage hydrologic disconnection, promoting dispersal and infiltration within the parcel. The



heavily accessed area around the cultivation area (greenhouses) will be rocked to discourage hydrologic connectivity and increase both dispersal and infiltration.

### 3.2 Erosion Prevention and Sediment Capture

Disturbed areas observed during the site investigation consisted of the cultivation area and surrounding cleared areas containing bare earth, soil piles, unstable road segments, and stream crossings that are in need of upgrades, as shown on **Attachment 1** – Location and *Site Map*.

#### 3.2.1 Erosion Prevention

Areas requiring erosion control measures include the cultivation area and the disturbed road segments. During the site investigation, the cultivation areas were relatively bear with compacted dirt, and intermittent native vegetation within the perimeters and interstitial spaces, and some moderate ponding of water on the site. The raised beds in the greenhouses contain no cover. There are some areas where excess potting soil is open to the environmental elements. The landowner plans to plant cover crops of clover and fetch on exposed raised beds prior to the onset of the next rainy season, and mix in the excess potting soil into the beds prior to the beginning of the 2020 cultivation season, or cover it appropriately as recommended in terms 8 and 9 of Attachment A of the Cannabis Policy.

Plans for the site include expanding the cultivation area to the upper landing. Currently, the landing experiences ponding water after significant (greater than 0.25” in a 24 hr period) rain events. To combat accumulation of ponded water, a 3ftx1ft inboard ditch will be constructed along the existing cut-slope and will run the length of the landing, eastbound and discharge onto the native slope downhill from the landing, prior to the onset of the next winter period, October 15, 2020. A short segment of road runs between the upper and lower landings along the eastern edge of the landings. The inboard ditch will not discharge onto this road segment, and the road segment will be strawed and seeded with a native seed mixture prior to the onset of the next winter period, October 15, 2020.

As indicated in the prior sections, all-season and permeant access roads are adequately surfaced, outsloped and/or crowned per the recommendations of terms 15, 17, 22-24, and 26 of the Policy, or will be per the recommendations outlined “Access Roads” section, above by October of 2021.

#### 3.2.2 Sediment Control

Likely sources of sediment are related to the disturbed area associated with cannabis cultivation, as well as the seasonal and permeant access road segments on the subject parcel. Sediment control mechanisms for these sites are described above, and include specifications on the measures implemented, as well as references to BPTC requirements.



### 3.2.3 Maintenance Activities for Erosion and Sediment Prevention and Control

All erosion prevention and sediment control BPTC measures, as described in the preceding sections, are monitored by the landowner at regular intervals. Prior to any rain event forecasted to produce greater than 2" in a 24 hour period, the landowner will check to ensure that all stream crossings, water bars, and road surfaces are adequately functioning and prepared for the ensuing storm event. The landowner will also monitor all disturbed areas to ensure that mulch and native seed mixtures are still adequately covering the disturbed ground and ready to prevent erosion due to the oncoming rain event. If any of the features listed above, or in this section, are not functioning or adequately installed, the landowner will remediate the sites immediately to the standards listed in the previous sections, and will ensure that all culverted stream crossings are clear of debris and ready to accept any incoming stream and debris flow. Any sediment that is captured within the cultivation area should be absorbed by the vegetation that will crop up from the native seed mixture. If there is any excess sediment buildup within this area, the sediment will be redistributed in the adjacent field, outside of the riparian setback, and at a quantity no more than 2 inches deep across the landscape.

Interim measure for stabilizing the site for erosion control include the use of straw mulch and a native seed mix to stabilize the disturbed areas associated with cultivation, as well as areas adjacent to stream crossing replacement sites where appropriate. In some areas, the native seed mixture is expected to take hold and no further action is required. In other locations, where cultivation will occur annually, and thus create annual disturbance of the site, mulch and seed mixture will be applied annually, creating a permanent, temporary BPTC solution. As indicated above, this site will be monitored prior to each significant rain event for adequacy of installation and function, and reapplication will be executed as necessary.

## 4. Water Use

### Well:

Presently the existing water source at this site is a groundwater well that provides water for existing 9,600 SF of cannabis gardens (greenhouses). The groundwater well was drilled in 2016 and has a completion depth of 220 feet below ground surface. The casing is constructed of 5" PVC pipe, with multiple screened zones (20 to 40 ft below ground surface (bgs), 80- to 100 ft bgs, 120-140 ft bgs, 160 to 180 ft bgs, and 200 to 220 ft bgs), these screened zones are milled slots, with slot size of 0.032 inch. The well had an initial yield of 15 gallons per minute (gpm). The well is approximately 350 feet from any watercourse and was approved by Humboldt County DEH.

Presently water fed from the well is delivered by pump (powered by generator) to first holding tank (2,500 gallon tank), then discharges into 3 more storage tanks, all 2,500 gallons, respectively, that are used to deliver water to the cultivation areas. Potable water is imported to the site.



## 5. Fertilizers, Pesticides and Herbicides

### 5.1 Application, Storage and Disposal

All fertilizers, pesticides, herbicides, when used, are prepared and administered in locations where they cannot enter a waterbody (surface or groundwater). Fertilizers, pesticides and herbicides are applied at agronomic rates as specified per each amendment. The enrollee will keep a log of fertilizer, pesticide and herbicide use for annual reporting to the appropriate agencies. All liquid chemicals are stored within secondary containment, a shipping container, which minimizes the likelihood of wildlife tampering and is locked when not in use. No fertilizers, pesticides or herbicides or applicators are left outside when not in use. All fertilizers and other applicators are used in operations, any excess products are stored over the winter period and used the following season. No restricted materials or pesticides are used or stored onsite. A summary of fertilizers, pesticides, and herbicides used annually are listed below:

Table 3: Overview of annual chemical use

Product Name	Chemical Type	N-P-K or Active Ingredient	Use (lbs. or vol.)
AZAGUARD	AZADIRACHTIN	-	When Needed
TRIFECTA THYME OIL 14%, CLOVE OIL 10%, GARLIC OIL 9%, PEPPERMINT	THYME OIL 14%, CLOVE OIL 10%, GARLIC OIL 9%, PEPPERMINT OIL 4%, CORN OIL 3%, GERANIOL 3%, CITRIC ACID 2%, ROSEMARY OIL 2%	-	When Needed
TRIACT	NEEM EXTRACT	-	When Needed
SUFFOIL-X	MINERAL OIL	-	When Needed
TOUGH LOVE	ESSENTIAL OILS	-	When Needed
BOTANIGARD 22WP	BAVARIA BASSIANA	-	When Needed
MET 52	METARHIZIUM ANISOPLIAE STRAIN F52	-	When Needed
VENEGRATE	BURKHOLDERIA SPP. STRAIN A396	-	When Needed
REGALIA	REYNOUTRIA SACHALINENSIS	-	When Needed
SNS 209	ROSEMARY BOTANICAL EXTRACTS	-	When Needed
SNS 203	ROSEMARY AND CLOVE BOTANICAL EXTRACTS	-	When Needed
PFR 97	ISARIA FUMOSOROSEA APOPKA STRAIN 97	-	When Needed
XTREME GARDENING AZOS	ASOSPIRILLIUM BRASILENSE	-	6 oz Weekly
PRIMORDIAL SOLUTIONS ROOTAMENTARY	-	6.5-5-1.5	16 oz Weekly



ISOPROPYL ALCOHOL	-	-	16 oz Weekly
ROOT BOOST ROOTING POWDER	HORMODIN	-	2 oz Weekly
DYNAGRO KLN	INDOLE-3-BUTYRIC ACID/1-NAPHTHALENEACETIC ACID	-	32 oz Weekly
EB STONE ORGANIC COMPOST	COMPOST	-	5 cu ft Biweekly
ROOTS ORGANIC BIG WORM EARTHWORM CASTINGS	WORM CASTINGS	1-0-0	5 cu ft Biweekly
GARDENERS COMPOST	COMPOST	-	5 cu ft Biweekly
VITAL EARTH CALIFORNIA GOLD HUMUS	HUMIC ACID	-	5 cu ft Biweekly
EB STONE ORGANIC EARTHWORM CASTINGS	WORM CASTINGS	1-0-0	5 cu ft Biweekly
TERRAVESCO VERMICOMPOST	PLANT GROWTH PROMOTING MICROBES	0.75-0.75-0.75	5 cu ft Biweekly
ANASAZI GOLD HUMIC ACID SOIL CONDITIONER	HUMATES	-	10 gal Weekly
ANASAZI GOLD HUMIC ACID (LIQUID)	HUMIC ACID	-	10 gal Weekly
XTREME GARDENING MYKOS WP WATER SOLUBLE MYCORRHIZAE	RHIZOPHAGUS INTRARACIDICES	-	3 lbs Weekly
SEA PAL LIQUID FISH EMLUSION	FISH EMULSION	5-1-1	15 gal Weekly
HIGH GRADE HUMATES	HUMATES	-	4 lbs Weekly
GH ANCIENT FOREST ALASKA HUMUS	HUMATES	-	2 cu ft Biweekly
ROOTS ORGANICS BUDDHA GROW	BAT GUANO, KELP EXTRACT, SOY EXTRACT, MOLASSES, WORM CASTINGS, YUCCA EXTRACT	2-0.25-2	2.5 Gal Weekly
ROOTS ORGANICS TRINITY	KELP EXTRACT, SOY PROTEIN HYDROLYSATE, MOLASSES, YUCCA EXTRACT, HUMIC ACID, TRIERPENE SAPONINS	0.25-0.1-1	2.5 Gal Weekly

All fertilizers and pesticides are stored within a locked conex container found on site.

One location contains stockpiled, excess potting soil, adjacent to the greenhouses, and is planned to be covered with a plastic tarp and located over 50 ft. from the adjacent class III surface waterbody.

**Agricultural chemicals will not be applied within 48-hours of a predicted rain event with a 50% or greater chance of 0.25 inches.**

### 5.2 Spill Prevention and Clean-up

A spill cleanup kit is be kept onsite where agricultural chemicals or petroleum products are stored. The spill kit contains vermiculite. In case of a major spill of fertilizers or petroleum products, the discharger shall immediately notify the County of Humboldt Department of Environmental Health Certified Unified Program Agency (CUPA) at (707) 445-6215 and



California Office of Emergency Services at (800) 852-7550 and initiate cleanup activities for all spills that could enter surface waters or degrade groundwater.

## 6. Petroleum and Petroleum Products

### 6.1 Use, Storage, and Disposal

The discharger uses two diesel powered generators and propane on the subject parcel for energy. Fuel is stored in a compatible container (100-gallon steel transfer tank), which has secondary containment. Neither generator has secondary containment, but will have appropriate secondary containment by 10/15/2020. A spill kit is located and available on the premises. Additional effort will be made to adapt to non-petroleum based power supplies, such solar and or connecting to the grid via PG&E for on-site operations.

Table 4: Overview of Petroleum Products onsite

Product Name	Chemical Type	Annual Use (lbs. or gallons)
Gasoline	Fuel	1000 gal
Motor Oil	Lubricant	5 gal
Propane	Gas	N/A
Diesel	Fuel	1000 gal

## 7. Cultivation Waste, Trash/Refuse and Domestic Wastewater

### 7.1 Cultivation Waste

The cultivator plans to install compost area for cultivation related biowaste to meet CDFA requirements, which requires full enclosure, roof, and impermeable flooring (cement) that will have appropriate security features that meet setback requirements that maximizes riparian and wetland protection.

All materials that are utilized for cannabis cultivation that are non-compostable and no longer in use are treated as refuse. This includes plastic tarps, old plastic packaging from soil and amendment bags, plastic trellis materials, and nutrient containers. For the disposal methods, please see the refuse section below.

## 8. Trash/Refuse Overview

Refuse and garbage is collected and stored in trash containers with appropriate, wildlife safe lids. Once the onsite refuse containers are full, they are taken off site and disposed of at Humboldt Waste Management Authority Waste in Eureka, CA.. This includes all cultivation related waste considered refuse, as outlined above. Any refuse that was not properly contained at the time of this writing will be promptly contained and/or disposed of.



### *8.1 Employees and Domestic Wastewater BPTC Measures*

The site currently supports 2 full time equivalent positions. The discharger has contracted Trinity Valley Consulting Engineers (TVCE) for the design of an Onsite Wastewater Treatment System (OWTS). The temporary BMP until the installation of the OWTS are B&B Portable Toilets for on-site employees, and are regularly serviced, shown in the Photo Log.

## **9. Winterization Measures**

### *9.1 Summary*

All winterization measures, including the erosion and sediment prevention measures outlined above, are completed annually before the onset of the winter season (for specifics on implementation and maintenance of these measures, please see the erosion and sediment control sections outlined above), prior to November 1<sup>st</sup>.

No heavy machinery or vehicles will be driven on seasonal roads to avoid degradation of saturated roadways and unstable surfaces. Any stockpiles of exposed soil, or earthen spoils that have not been disposed of, will be covered (6 mil plastic sheeting or mulch) and perimeter controls (i.e. fiber roll/straw bales) applied. All trash and refuse will be thoroughly cleaned up before the winter season. All fertilizers, both liquid and solids and petroleum/petroleum containing machinery will be placed in the appropriate location as described in the previous section and placed in secondary containment when necessary.

All measures are expected to be completed prior to the onset of each winter period, and no extension requests should be required.

## **10. Monitoring**

This site is considered a “low risk” site, monitoring is limited to an annual Facility Status Report. All reporting will be submitted to the NCRWQCB and is due March 1<sup>st</sup> every year of operation. The annual reporting shall include the information described in *Table 4 – Facility status monitoring requirements* as well as the name and contact information for person responsible for operation, maintenance and monitoring.

Reporting documents may be emailed to [northcoast@waterboards.ca.gov](mailto:northcoast@waterboards.ca.gov) or mailed to:

North Coast Regional Water Quality Control Board  
5550 Skylane Boulevard, Suite A  
Santa Rosa, California 95403



Table 4: Facility Status Monitoring Requirements

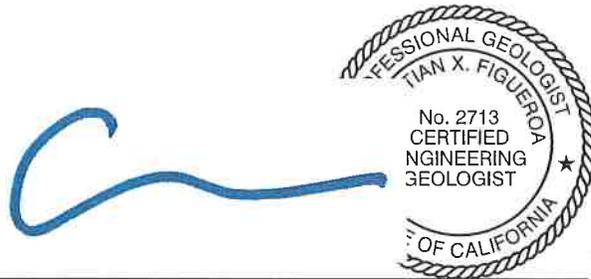
Monitoring Requirements	Description
Winterization Measures Implemented	Report winterization procedures implemented, any outstanding measures, and schedule for completion
Tier Status Confirmation	Report any changes to tier designation (Stabilization of disturbed areas may change the tier status of a facility. Contact the Regional Board if change in status is appropriate)
Third Party Designation	Report any change in third party status as appropriate

**11. Certification and Notification**

*11.1 Site Management Plan Developer*

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Name: Christian Figueroa, PG, CEG, QSD Title: Professional Geologist/SMP Developer

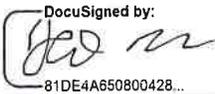


Signature: \_\_\_\_\_ Date: 3/31/2020



*11.2 Discharger*

“I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachment and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, include the possibility of fine and imprisonment.”

Legally Responsible Person:  \_\_\_\_\_

Date: 4/2/2020 \_\_\_\_\_





Tierra Consulting

Christian Figueroa, PG, CEG, QSD

Post Office Box 989, Willow Creek, CA 95573

# Attachment 1

## Location and Site Map







Tierra Consulting

Christian Figueroa, PG, CEG, QSD

Post Office Box 989, Willow Creek, CA 95573

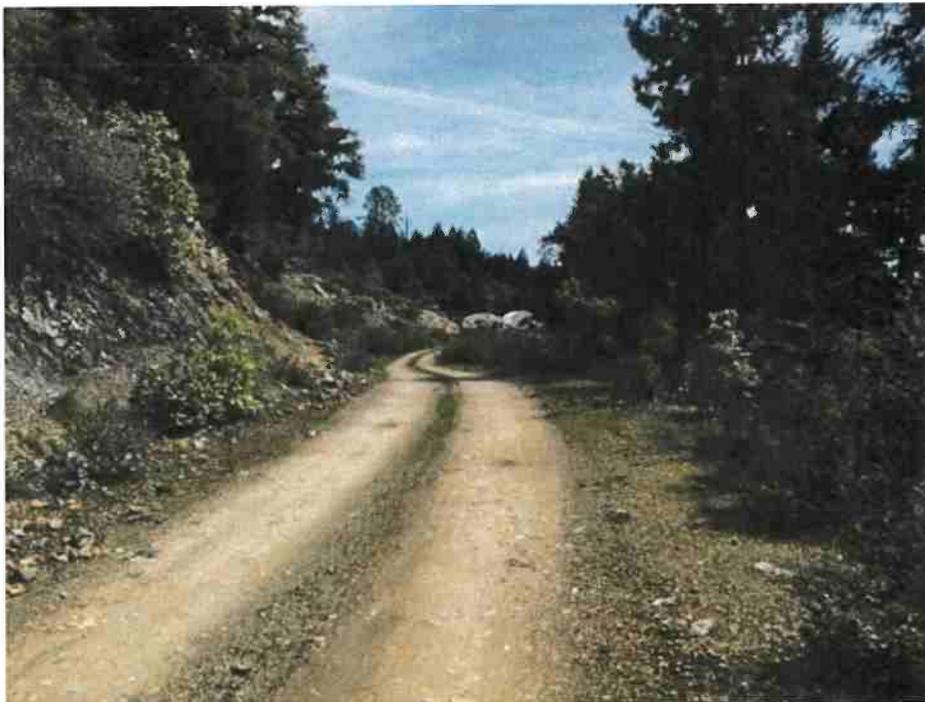
## Attachment 2

## Photo Log





**Picture 1:** This is a photograph of the proposed Rolling Dip (RD #1) on Road Segment #1 (RS #1), near the site entrance from Friday Ridge Road. Photograph was taken 4/15/17.



**Picture 2:** This is a photograph of the proposed Rolling Dip (RD #2) on Road Segment #1 (RS #1), between the access gate and cultivation area. Photograph was taken 4/15/17.



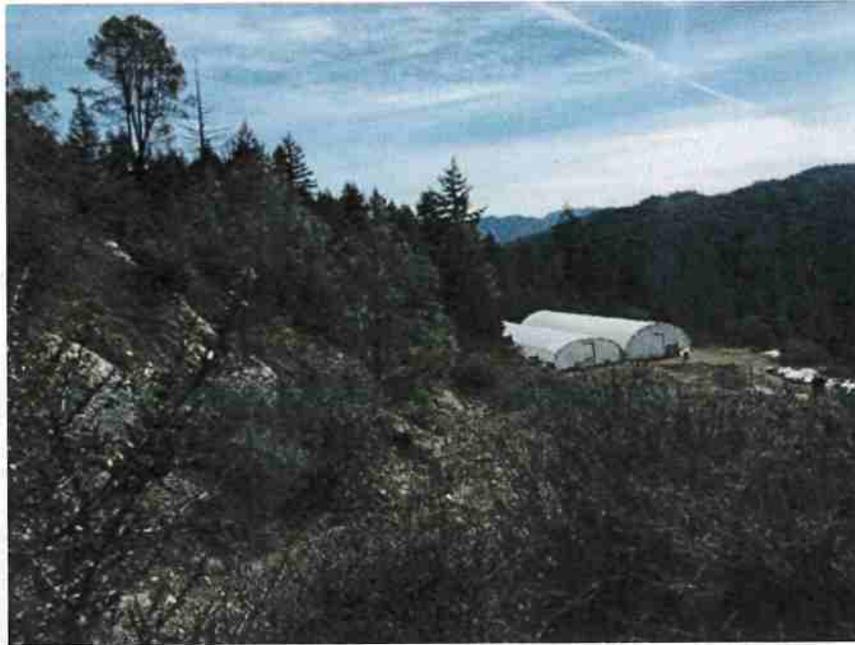


**Picture 3:** This is a photograph of the proposed In-board Ditch (ID #1) on Road Segment #2 (RS #2), between the cultivation area and upper landing. Photograph was taken 4/15/17.

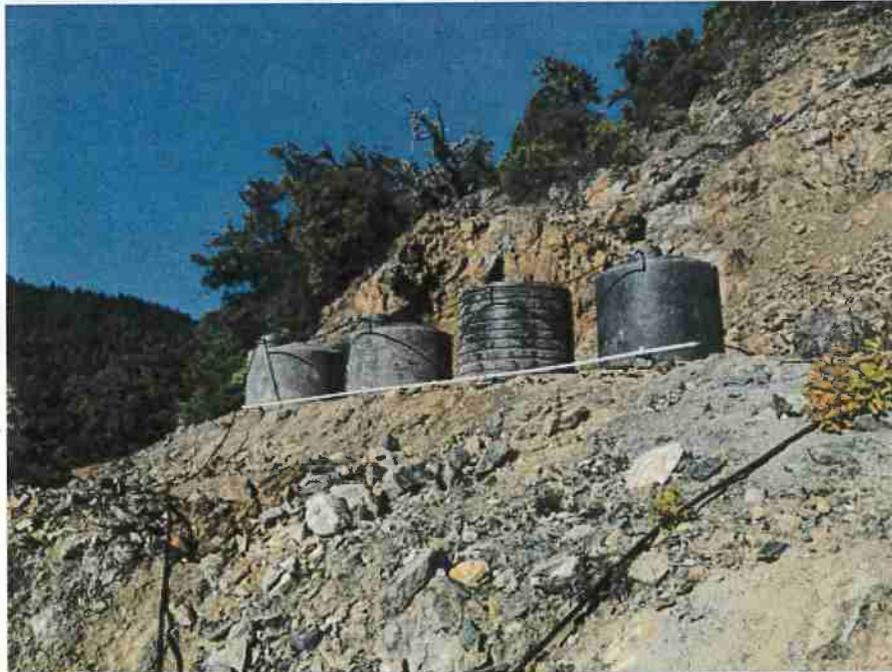


**Picture 4:** This is a photograph of the proposed Rock Ford crossing (RF #1) on Road Segment #3 (RS #3), the location of the Class-III watercourse stream crossing near the Upper Landing. Photograph was taken 4/15/17.





**Picture 5:** This is a photograph of Road Segment #3 (RS #3) looking towards the Upper Landing Access. Two (2) water bars (WB #1-2) are proposed along this segment. Photograph was taken 4/15/17.

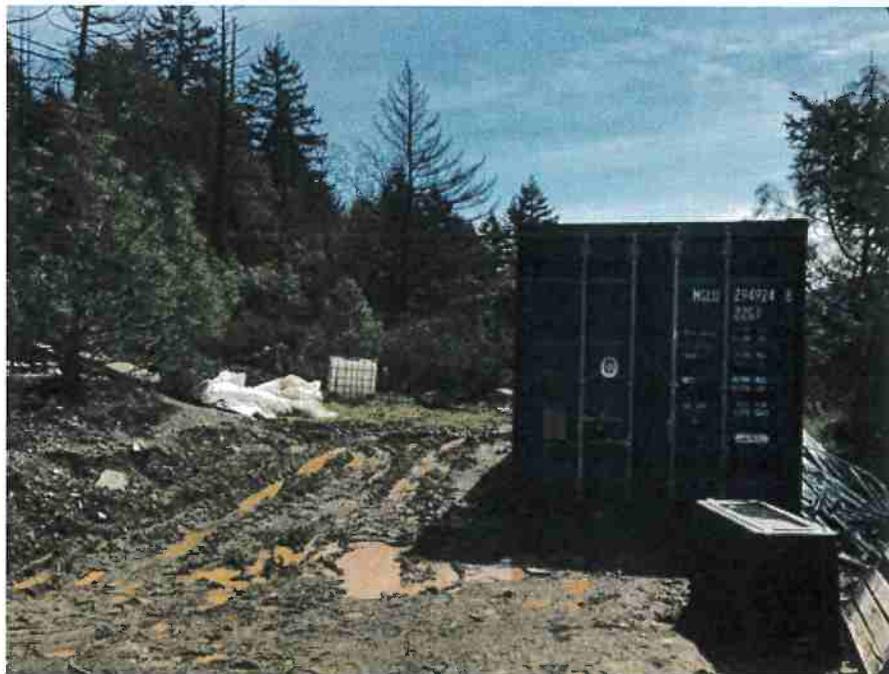


**Picture 6:** This is a photograph of the existing water storage on-site (4x2,500 gallons, respectively). Photograph was taken 2/7/20.





**Picture 7:** This is a photograph of the existing permitted groundwater well on-site. Photograph was taken 4/15/17.

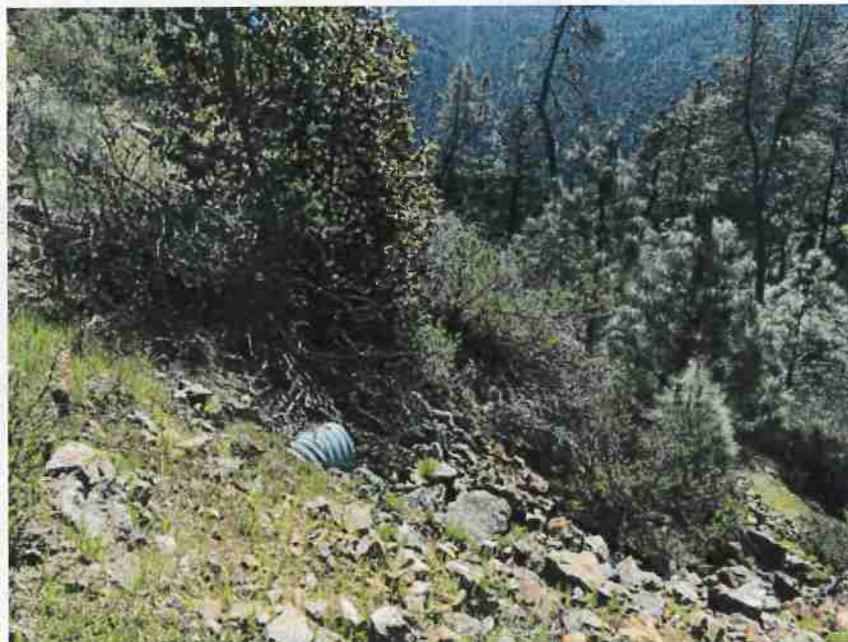


**Picture 8:** This is a photograph of the conex container on the upper landing used for fertilizer/amendment storage and materials use for cultivation activities. Photograph was taken 4/15/17.



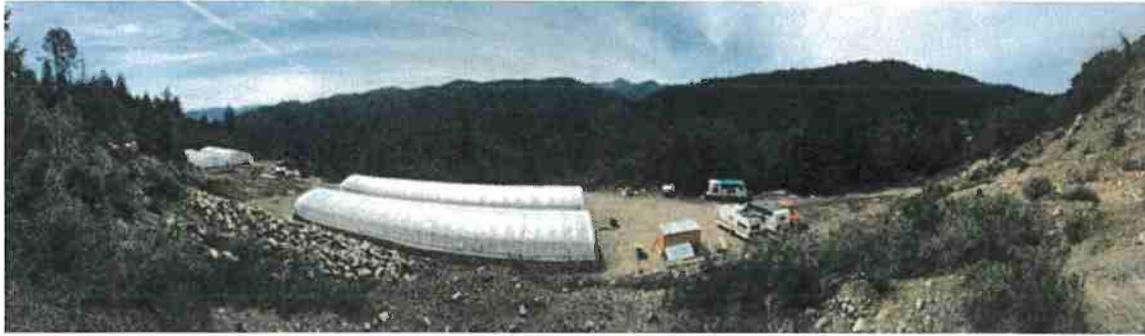


**Picture 9:** This is a photograph of the existing 18" CMP culvert inlet with observed sedimentation. Photograph was taken 4/15/17.

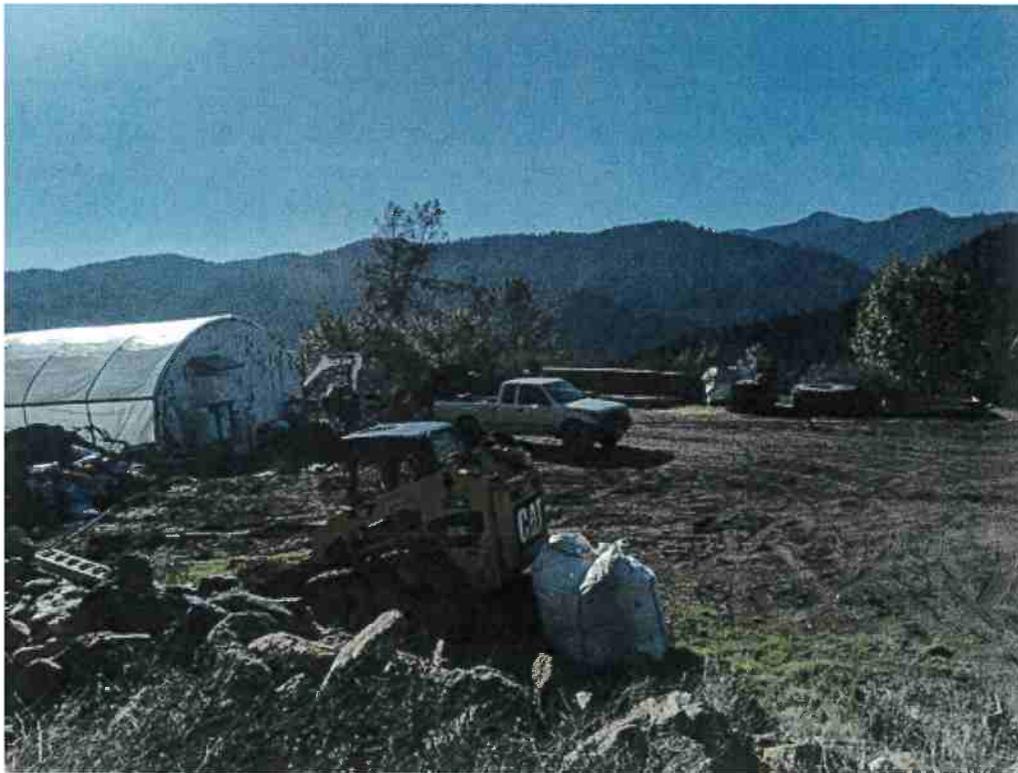


**Picture 10:** This is a photograph of the existing 18" CMP culvert outlet with RSP velocity dissipation. Photograph was taken 4/15/17.



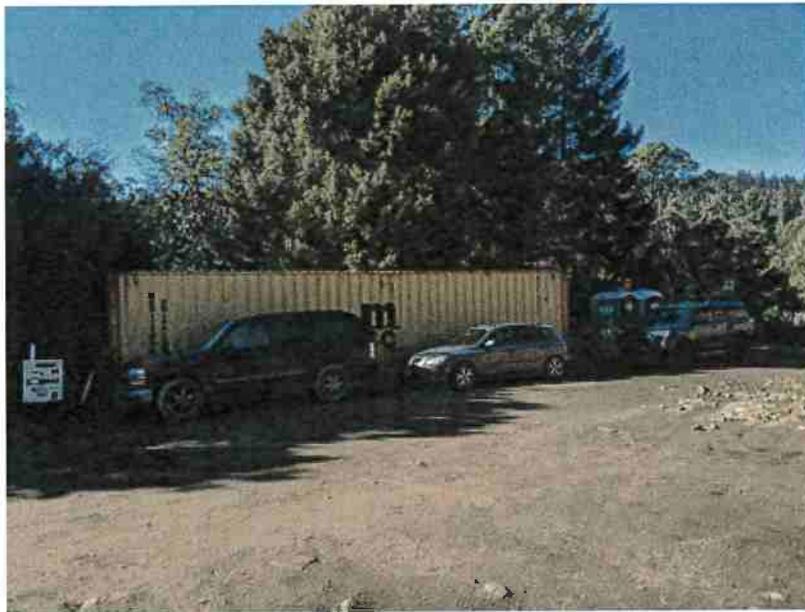


**Picture 11:** This is a photograph of the existing cultivation area landing and Road Segment #1 (RS #1). Photograph was taken 4/15/17.

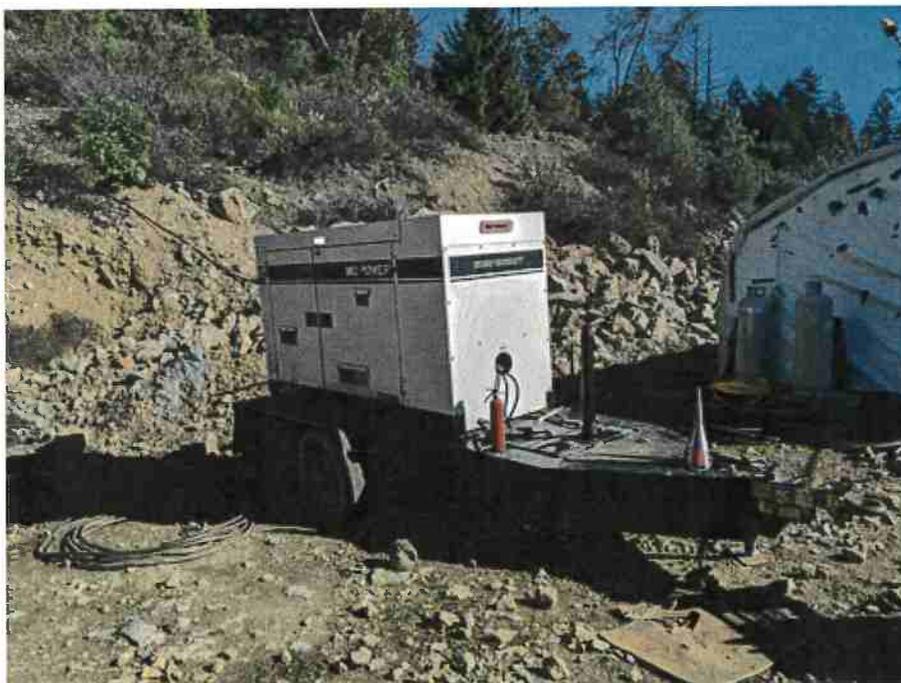


**Picture 12:** View of cultivation area with uncontained soil piles that will be reused, properly covered, and/or disposed of by October 15, 2020.





**Picture 12:** Storage container for cultivation related supplies. B&B porta potty in the background. Generator without current secondary containment on the left side of photo. The generator will have secondary containment constructed as shown in the next photo by 10/15/2020. Photo was taken on 2/7/20



**Picture 13:** Second generator without appropriate secondary containment. This generator will have appropriate secondary containment by 10/15/2020. Photo was taken on 2/7/20



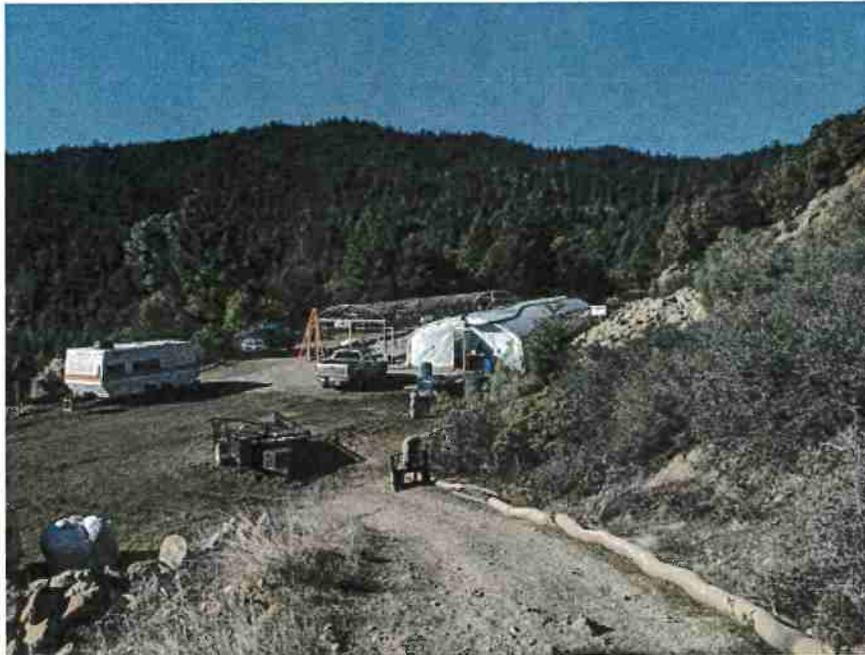


**Picture 16:** Propane container for energy use. Photo was taken on 2/7/20

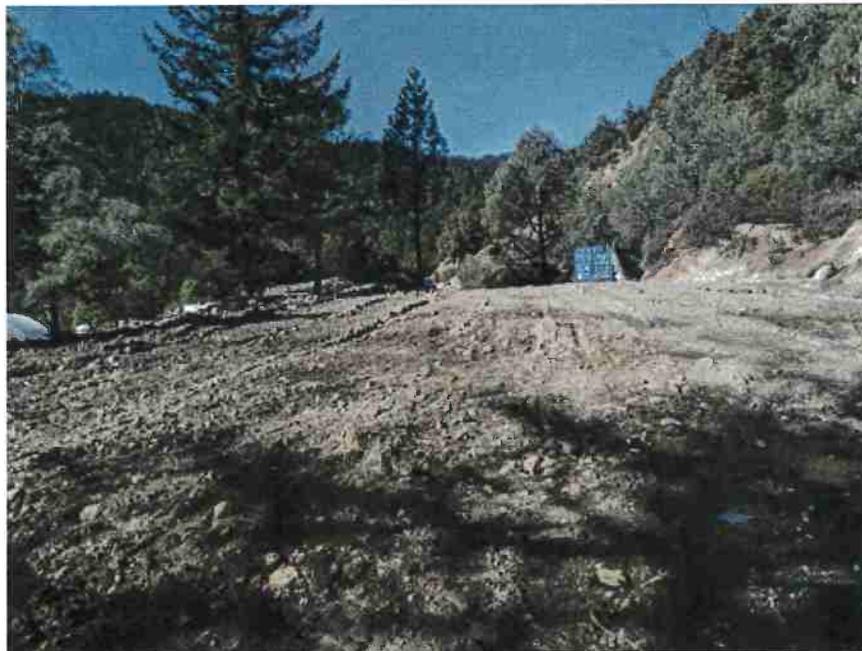


**Picture 17:** This is a photograph of the uncovered and no perimeter controls of soil stockpile. Photograph was taken 4/15/17.





**Picture 18:** Photograph of RS#2, to be modified per specifications in section 3.1.2



**Picture 19:** Photograph of upper landing with ponding water visible, inboard ditch to be constructed along cu-slope on right side of picture.





Tierra Consulting

Christian Figueroa, PG, CEG, QSD

Post Office Box 989, Willow Creek, CA 95573

## **Attachment 3**

## **BPTC Table**



Unique Map (Location) Point(s)	Map Point Description	Associated BPTC Requirement	Temporary BMP	Permanent BMP	Priority for Action	Time Schedule for completion of Permanent BMP
All Access Roads	Road Segment with sediment delivery potential	17, 24	N/A	Rock the road surfaces	2	10/15/2021
RS#1-2	Road Segment with sediment delivery potential	17, 24	N/A	Rock the road surfaces	3	10/15/2021
RS#3	Road Segment with sediment delivery potential	17, 24	Install Check Dams	Outslope	2	10/15/2021
WB#1-2	Proposed Water Bar(s)	26	N/A	Install Water Bar(s) with outsloping on RS#3	2	10/15/2021
RD#1-3	Proposed Rolling Dip(s)	17, 24	N/A	Install Rolling Dip(s)	3	10/15/2021
SC#2	Proposed Rock Ford	48-51	Check Dams	Install Rock Ford	3	10/15/2022
ID#1	Inboard ditch on Road Segment #2	17, 24	Remove debris by hand	Rock Inboard Ditch and Check Dams	3	10/15/2022
SC#1	Existing 24" Corrugated Metal Pipe	48-51	N/A	Excavate to grade and armor inlet	1	10/15/2022
5	Groundwater Well	70-94	Cover/Perimeter Control	Install Flow Meter	1	10/15/2020
6	Stockpiled Soil	48-51	Move to Enclosed Area	N/A	1	10/15/2020
7	Portable Generators and Fuel	48-51	Removed Garbage	Move to Containers	2	10/15/2020
8	Cultivation-related waste	119-122	B&B Portable Toilet	Create Holding Location	3	10/15/2020
9 (OWTS)	Onsite Wastewater Treatment System	124-125	N/A	Install OWTS	2	10/15/2022



**Note: Treatment Priority Meaning:** Treatment Priority (1) indicates a very high priority with the treatment being planned to occur immediately, (2) indicates a high priority site with treatment to occur prior to the start of the winter period (Nov. 15), (3) indicates a moderate priority with treatment being planned to occur within one-year, or prior to the winter period (Nov. 15) of the 2<sup>nd</sup> season of operations, and (4) indicates a low priority with treatment being planned to occur in the shortest time possible, but no later than the expiration of this Order (five-years).





Tierra Consulting

Christian Figueroa, PG, CEG, QSD

Post Office Box 989, Willow Creek, CA 95573

## Attachment 4

# SWRCB Notice of Applicability





---

**North Coast Regional Water Quality Control Board**

July 31, 2019

WDID:1\_12CC418648

HUMBOLDT STANDARD LLC  
ATTN: PHUA PENNEY  
3887 BARTLEY DR DRIVE  
SACRAMENTO, CA 95822

Subject: Notice of Applicability - Waste Discharge Requirements Water Quality Order WQ 2019-0001-DWQ

The attached Notice of Applicability provides notice that the requirements of the State Water Board *Cannabis Cultivation Policy- Principles and Guidelines for Cannabis Cultivation (Policy)*, and the *General Waste Discharge Requirements and Waiver of Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities*, Order WQ 2019-0001-DWQ (General Order – previously WQ 2017-0023-DWQ, with updates and revisions effective April 16, 2019) are applicable to the site as described below. Based on the information provided, the Discharger self-certifies the cannabis cultivation activities are consistent with the requirements of the State Water Board Policy and General Order.

Please direct all submittals, discharge notifications, and questions regarding compliance and enforcement to the North Coast Regional Water Quality Control Board Cannabis Program at (707) 576-2676 or [northcoast.cannabis@waterboards.ca.gov](mailto:northcoast.cannabis@waterboards.ca.gov).

Sincerely,

Matthias St. John  
Executive Officer  
North Coast Regional Water Quality Control Board

190731\_1L\_1\_12CC418648\_1B161707CHUM\_Humboldt Standard\_NOA\_TW

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**NOTICE OF APPLICABILITY – WASTE DISCHARGE REQUIREMENTS, WATER QUALITY ORDER WQ 2019-0001-DWQ, HUMBOLDT STANDARD LLC, HUMBOLDT COUNTY APN(s) 524-075-023**

Humboldt Standard LLC (hereafter “Discharger”) submitted information through the State Water Resources Control Board’s (State Water Board’s) online portal on June 30, 2019, for discharges of waste associated with cannabis cultivation related activities. Based on the information provided, the Discharger self-certifies the cannabis cultivation activities are consistent with the requirements of the Policy and General Order. This letter provides notice that the Policy and General Order are applicable to the site as described below. You are hereby assigned waste discharge identification (WDID) number 1\_12CC418648. The original WDID assigned by the North Coast Regional Water Quality Control Board was 1B161707CHUM.

The Discharger is responsible for all the applicable requirements in the Policy, General Order, and this Notice of Applicability (NOA). This includes making any necessary changes to the enrollment, and the Discharger is the sole person or entity with legal authority to make those changes. The Discharger will be held liable for any noncompliance with the Policy, General Order, and the NOA.

**1. FACILITY AND DISCHARGE DESCRIPTION**

All dischargers enrolled under the North Coast Regional Water Board’s Order (R1-2015-0023) or the Central Valley Regional Water Board’s Order (R5-2015-0113) as of October 17, 2017, (the adoption date of the General Order) may retain the reduced setbacks applicable under the appropriate Regional Water Board order unless the Executive Officer for the appropriate Regional Board determines that the reduced setbacks applicable under their regional order are not protective of water quality. However, sites that expand their cannabis cultivation area or other cannabis related activities must comply with the riparian setbacks in the General Order.

The information submitted by the Discharger states the disturbed area is equal to or greater than 2,000 square feet and less than 1 acre (43,560 square feet) no portion of the disturbed area is within the setback requirements, no portion of the disturbed area is located on a slope greater than 30 percent, and the cannabis cultivation area is less than or equal to 1 acre.

Based on the information submitted by the Discharger, the cannabis cultivation activities are classified as Tier 1 Low Risk.

**2. SITE-SPECIFIC REQUIREMENTS**

The Policy and General Order are available on the Internet at:

[https://www.waterboards.ca.gov/water\\_issues/programs/cannabis/cannabis\\_water\\_quality.html](https://www.waterboards.ca.gov/water_issues/programs/cannabis/cannabis_water_quality.html)

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The Discharger shall ensure that all site operating personnel know, understand, and comply with the requirements contained in the Policy, General Order, this NOA, and the Monitoring and Reporting Program (MRP, Attachment B of the General Order). Note that the General Order contains standard provisions, general requirements, and prohibitions that apply to all cannabis cultivation activities.

The application requires the Discharger to self-certify that all applicable Best Practicable Treatment or Control (BPTC) measures are being implemented, or will be implemented by the onset of the winter period (November 15 - April 1), following the enrollment date. Landowners of the cultivation site in the North Coast Region are required to submit and implement Site Management Plans that describes how BPTC measures are implemented property-wide, including BPTC measures implemented to address discharges from legacy activities (e.g. former timber harvest, road building, mining, etc.) at the site per Provision C.1.a. of the General Order. Dischargers that cannot implement all applicable BPTC measures by the onset of the winter period, following their enrollment date, shall submit to the appropriate Regional Water Board a *Site Management Plan* that includes a time schedule and scope of work for use by the Regional Water Board in developing a compliance schedule as described in Attachment A of the General Order.

The Policy and General Order require that, prior to conducting any work in streams or wetlands, the Discharger obtain water quality certification from the Water Boards and other required permits from other agencies (e.g. a Clean Water Act section 404 permit from the United States Army Corps of Engineers, a Lake and Streambed Alteration Agreement from the California Department of Fish and Wildlife, and other local permits). Enrollment in the General Order requires that the Discharger obtain water quality certification for any such work, but this NOA does not provide the necessary certification. If the Discharger proposes or requires work in streams or wetlands, they must apply for water quality certification separately by filling out and submitting a separate application for that work. The application is available for download at the following Regional Water Board website:

[https://www.waterboards.ca.gov/northcoast/water\\_issues/programs/cannabis/](https://www.waterboards.ca.gov/northcoast/water_issues/programs/cannabis/)

Currently, the direct link to that application is as follows:

[https://www.waterboards.ca.gov/northcoast/water\\_issues/programs/cannabis/pdf/190403/180731\\_031616\\_401\\_WQ2017-0023-Application.pdf](https://www.waterboards.ca.gov/northcoast/water_issues/programs/cannabis/pdf/190403/180731_031616_401_WQ2017-0023-Application.pdf)

Note: Water Quality Certifications require separate application and monitoring fees. A fee calculator and additional information are available at:

[https://www.waterboards.ca.gov/northcoast/water\\_issues/programs/water\\_quality\\_certification/#401\\_calc](https://www.waterboards.ca.gov/northcoast/water_issues/programs/water_quality_certification/#401_calc)

During reasonable hours, the Discharger shall allow the State Water Board or Regional Water Board (collectively Water Boards), California Department of Fish and Wildlife, CAL FIRE, and any other authorized representatives of the Water Boards upon presentation of a badge, employee identification card, or similar credentials, to:

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- i. enter premises and facilities where cannabis is cultivated; where water is diverted, stored, or used; where wastes are treated, stored, or disposed; or in which any records are kept;
- i. access and copy, any records required to be kept under the terms and conditions of the Policy and General Order;
- ii. inspect, photograph, and record audio and video, any cannabis cultivation sites, and associated premises, facilities, monitoring equipment or device, practices, or operations regulated or required by the Policy and General Order; and
- iii. sample, monitor, photograph, and record audio and video of site conditions, any discharge, waste material substances, or water quality parameters at any location for the purpose of assuring compliance with the Policy and General Order.

### **3. TECHNICAL REPORT REQUIREMENTS**

The following technical report(s) shall be submitted by the Discharger as described below:

A Site Management Plan, by September 27, 2019, consistent with the requirements of General Order Provision C.1.a., and Attachment A, Section 5. Attachment D of the General Order provides guidance on the contents of the Site Management Plan.

A *Site Closure Report* must be submitted 90 days prior to permanently ending cannabis cultivation activities and seeking to rescind coverage under the General Order. The *Site Closure Report* must be consistent with the requirements of General Order Provision C.1.e., and Attachment A, Section 5. Attachment D of the General Order provides guidance on the contents of the *Site Closure Report*.

### **4. MONITORING AND REPORTING PROGRAM**

The Discharger shall comply with all provisions of the Monitoring and Reporting Program (MRP), which appears as Attachment B to the General Order. The Discharger shall also comply with all provisions of the *North Coast Regional Supplement to Annual Monitoring and Reporting Requirements for Statewide Cannabis General Order WQ 2017-0023-DWQ* (Regional Supplement), which independently appears as Investigative Order No. R1-2019-0023, issued by the Regional Water Board Executive Officer on March 22, 2019. Annual reports for both sets of requirements shall be submitted to the Regional Water Board in a combined report by March 1 following the year being monitored through the online portal (<https://public2.waterboards.ca.gov/cgo>). The Discharger shall not implement any changes to the MRP or to the Regional Supplement unless and until a revised MRP or Regional Supplement is issued by the Regional Water Board Executive Officer or the State Water Board Division of Water Quality Deputy Director, or the State Water Board Chief Deputy Director.

A copy of Attachment B to the General Order can be obtained online at the following location, or by contacting staff at the phone number and email address listed below. [https://www.waterboards.ca.gov/board/decisions/adopted\\_orders/water\\_quality/2019/wq2019\\_0001\\_dwq.pdf#page=32](https://www.waterboards.ca.gov/board/decisions/adopted_orders/water_quality/2019/wq2019_0001_dwq.pdf#page=32).

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A copy of the Regional Supplement can be obtained online at the following location, or by contacting staff at the phone number and email address listed below.

[https://www.waterboards.ca.gov/northcoast/board\\_decisions/adopted\\_orders/pdf/2019/19\\_0023\\_Regional%20Supplement%2013267%20Order.pdf](https://www.waterboards.ca.gov/northcoast/board_decisions/adopted_orders/pdf/2019/19_0023_Regional%20Supplement%2013267%20Order.pdf).

## 5. ANNUAL FEE

According to the information submitted, the discharge is classified as Tier 1 Low Risk. The 2018-2019 annual fee for that tier and risk level was set at \$600, but please note that the Fee Schedule is updated annually and future fees may be invoiced at different rates. Invoices are sent by the State Water Board at the beginning of each calendar year (generally in February). Do not submit payments without receiving an invoice. If you have questions or concerns about your fees please contact the Fee Branch at [FeeBranch@waterboards.ca.gov](mailto:FeeBranch@waterboards.ca.gov) or (916) 341-5247. The fee is due and payable on an annual basis until coverage under this General Order is formally rescinded. To rescind coverage, the Discharger must submit a Request for Termination in writing through the online portal (available at: <https://public2.waterboards.ca.gov/cgo>), including a Site Closure Report at least 90 days prior to termination of activities and include a final MRP report.

## 6. TERMINATION OF COVERAGE UNDER THE GENERAL ORDER & REGIONAL WATER BOARD CONTACT INFORMATION

Enrollees that propose to terminate coverage under the General Order must submit a Request for Termination in writing through the online portal (<https://public2.waterboards.ca.gov/cgo>). The Request for Termination consists of a formal statement regarding the reason for requesting termination (i.e. cultivation is no longer occurring, the property is being sold, etc.), documentation that the site is in compliance with the General Order, including dated photographs and a written discussion. If the site is not meeting the requirements of the General Order, then the enrollment cannot be terminated. Regional Water Board staff will review the Request for Termination for completeness before determining if a property inspection, enrollment termination, or a request for additional information is appropriate.

If the Discharger cannot comply with the General Order, or will be unable to implement an applicable BPTC measure contained in Attachment A by the onset of the winter period each year, the Discharger shall notify the North Coast Regional Cannabis Unit staff at (707) 576-2676 or [northcoast.cannabis@waterboards.ca.gov](mailto:northcoast.cannabis@waterboards.ca.gov) so that a site-specific compliance schedule can be developed.

Cc: Kevin Porzio, State Water Resources Control Board,  
[dwq.cannabis@waterboards.ca.gov](mailto:dwq.cannabis@waterboards.ca.gov)  
Cheri Sanville, California Department of Fish and Wildlife,  
[cheri.sanville@wildlife.ca.gov](mailto:cheri.sanville@wildlife.ca.gov)  
Cliff Johnson, Humboldt County Planning and Building,  
[cjohnson@co.humboldt.ca.us](mailto:cjohnson@co.humboldt.ca.us)  
Jedediah Morris, 59 West Jade Lane Salyer, CA 95563

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WDID #1\_12CC418648

July 31, 2019



Tierra Consulting

Christian Figueroa, PG, CEG, QSD

Post Office Box 989, Willow Creek, CA 95573

## Attachment 5

## CDFW LSAA





State of California – Natural Resources Agency  
**DEPARTMENT OF FISH AND WILDLIFE**  
Northern Region  
619 Second Street  
Eureka, California 95501  
(707) 445-6493  
[www.wildlife.ca.gov](http://www.wildlife.ca.gov)

**GAVIN NEWSOM, Governor**  
**CHARLTON H. BONHAM, Director**



March 19, 2019

Jedediah Morris  
P.O. Box 951  
Willow Creek, CA 95573

Subject: Draft Lake or Streambed Alteration Agreement  
Notification No. 1600-2018-0558-R1  
Morris Stream Crossings Project

Dear Jedediah Morris:

The California Department of Fish and Wildlife (Department) has determined that your project requires a Lake or Streambed Alteration Agreement (Agreement) because it could substantially adversely affect an existing fish or wildlife resource. Enclosed is a draft Agreement that includes measures the Department has determined are necessary to protect existing fish and wildlife resources.

Within 30 days of receipt of this draft Agreement, you must notify the Department in writing whether the measures to protect fish and wildlife resources are acceptable (Fish and Game Code section 1603). If you agree with the measures set forth in the draft Agreement, you or your authorized representative **must return the draft Agreement with original signature to the above address.**

If you disagree with any measures in the draft Agreement, please contact the Department staff identified below. In the event that mutual agreement is not reached, you may follow the dispute resolution process described in Fish and Game Code section 1603(a), Part III of the "Notification Instructions and Process." If you fail to respond in writing within 90 days of receiving the draft Agreement, the Department may withdraw the draft Agreement.

Please be advised the Department may not execute the Agreement until it has complied with the California Environmental Quality Act (CEQA) (Public Resources Code section 21000 *et seq.*) as the lead or a responsible agency. Please note that the draft Agreement may be subject to change upon receipt and review of the environmental document for the project.

After you receive a final Agreement executed by the Department, you may begin the project the Agreement authorizes provided you have obtained all other necessary local, state, and federal permits or other authorizations.

*Conserving California's Wildlife Since 1870*

Table 1. Project Encroachments with Description

ID	Latitude/Longitude	Description
P-1	40.88652, -123.63585	Upgrade natural ford crossing to a rock-armored ford crossing
P-2	40.88651, -123.63578	Rock inboard ditch and road surface to promote bank stabilization.
P-3	40.88635, -123.63599	Maintain existing 18" diameter culvert at the inlet and outlet.

## PROJECT IMPACTS

Existing fish or wildlife resources the project could substantially adversely affect include: Southern Torrent Salamander (*Rhyacotriton variegatus*), Pacific Tailed Frog (*Ascaphus truei*), Foothill Yellow-legged Frog (*Rana boylei*), Chinook Salmon (*Oncorhynchus tshawytscha*), Coho Salmon (*O. kisutch*), Steelhead Trout (*O. mykiss*), and Pacific lamprey (*Entosphenus tridentata*), as well as, other amphibian, reptile, aquatic invertebrate, mammal, and bird species.

The adverse effects the project could have on the fish or wildlife resources identified above include:

### Impacts to water quality:

reduced instream flow;  
 temporary increase in fine sediment transport;

### Impacts to natural flow and effects on habitat structure and process:

direct and/or incidental take;  
 indirect impacts;  
 impediment of up- or down-stream migration;  
 water quality degradation; and  
 damage to aquatic habitat and function.

## MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES

### 1. Administrative Measures

The Permittee shall meet each administrative requirement described below.

- 1.1 Documentation at Project Site. The Permittee shall make the Agreement, any extensions and amendments to the Agreement, and all related notification materials and California Environmental Quality Act (CEQA) documents, readily available at the project site at all times and shall be presented to CDFW personnel, or personnel from another state, federal, or local agency upon request.
- 1.2 Providing Agreement to Persons at Project Site. The Permittee shall provide copies of the Agreement and any extensions and amendments to the Agreement to all persons who will be working on the project at the project site on behalf of the

Permittee, including but not limited to contractors, subcontractors, inspectors, and monitors.

- 1.3 Adherence to Existing Authorizations. All water diversion facilities that the Permittee owns, operates, or controls shall be operated and maintained in accordance with current law and applicable water rights.
- 1.4 Change of Conditions and Need to Cease Operations. If conditions arise, or change, in such a manner as to be considered deleterious by CDFW to the stream or wildlife, operations shall cease until corrective measures approved by CDFW are taken. This includes new information becoming available that indicates that the bypass flows and diversion rates provided in this agreement are not providing adequate protection to keep aquatic life downstream in good condition or to avoid "take" or "incidental take" of federal or State listed species.
- 1.5 Notification of Conflicting Provisions. The Permittee shall notify CDFW if the Permittee determines or learns that a provision in the Agreement might conflict with a provision imposed on the project by another local, state, or federal agency. In that event, CDFW shall contact the Permittee to resolve any conflict.
- 1.6 Project Site Entry. The Permittee agrees to allow CDFW employees access to any property it owns and/or manages for the purpose of inspecting and/or monitoring the activities covered by this Agreement, provided CDFW: a) provides 24 hours advance notice; and b) allows the Permittee or representatives to participate in the inspection and/or monitoring. This condition does not apply to CDFW enforcement personnel.
- 1.7 CDFW Notification of Work Initiation and Completion. The Permittee shall contact CDFW within the seven-day period preceding the beginning of work permitted by this Agreement. Information to be disclosed shall include Agreement number, and the anticipated start date. Subsequently, the Permittee shall notify CDFW no later than seven (7) days after the project is fully completed.

## **2. Avoidance and Minimization Measures**

To avoid or minimize adverse impacts to fish and wildlife resources identified above, the Permittee shall implement each measure listed below.

- 2.1 Permitted Project Activities. Except where otherwise stipulated in this Agreement, all work shall be in accordance with the Permittee Notification received on September 17, 2018, with revisions received on November 28, 2018, together with all maps, BMP's, photographs, drawings, and other supporting documents submitted with the Notification.
- 2.2 Incidental Take. This Agreement does not allow for the take, or incidental take of any state or federal listed threatened or endangered listed species.

## Project Timing

- 2.3 Work Period. All work, not including diversion of water, shall be confined to the period **June 15 through October 1** of each year. Work within the active channel of a stream shall be restricted to periods of **dry weather**. Precipitation forecasts and potential increases in stream flow shall be considered when planning construction activities. Construction activities shall cease and all necessary erosion control measures shall be implemented prior to the onset of precipitation.
- 2.4 Work Completion. The proposed work shall be completed by no later than **October 1, 2019. Failure to complete work by this date shall result in suspension or revocation of this Agreement.** A notice of completed work, including photographs of each site, shall be submitted to CDFW within seven (7) days of project completion.
- 2.5 Extension of the Work Period. If weather conditions permit, and the Permittee wishes to extend the work period after October 1, a written request shall be made to CDFW at least 5-working days before the proposed work period variance. Written approval (letter or e-mail) for the proposed time extension must be received from CDFW prior to activities continuing past October 1.

## Vegetation Management

- 2.6 Minimum Vegetation Removal. No native riparian vegetation shall be removed from the bank of the stream, except where authorized by CDFW. Permittee shall limit the disturbance or removal of native vegetation to the minimum necessary to achieve design guidelines and standards for the Authorized Activity. Permittee shall take precautions to avoid damage to vegetation outside the work area.
- 2.7 Vegetation Management. Permittee shall limit vegetation management (e.g., trimming, pruning, or limbing) and removal for the purpose of stream crossing or diversion infrastructure placement/maintenance to the use of hand tools. Vegetation management shall not include treatment with herbicides.

## Stream Crossings

- 2.8 Stream Protection. No debris, soil, silt, sand, bark, slash, sawdust, rubbish, cement or concrete washings, oil or petroleum products, or other deleterious material from project activities shall be allowed to enter into or be placed where it may be washed by rainfall or runoff into the stream. All project materials and debris shall be removed from the project site and properly disposed of off-site upon project completion.
- 2.9 Equipment Maintenance. Refueling of machinery or heavy equipment, or adding or draining oil, lubricants, coolants or hydraulic fluids shall not take place within stream bed, channel and bank. All such fluids and containers shall be disposed of

properly off-site. Heavy equipment used or stored within stream bed, channel and bank shall use drip pans or other devices (e.g., absorbent blankets, sheet barriers or other materials) as needed to prevent soil and water contamination.

2.10 Hazardous Spills. Any material, which could be hazardous or toxic to aquatic life and enters a stream (i.e. a piece of equipment tipping-over in a stream and dumping oil, fuel or hydraulic fluid), the Permittee shall immediately notify the California Emergency Management Agency State Warning Center at 1-800-852-7550, and immediately initiate clean-up activities. CDFW shall be notified by the Permittee within 24 hours at 707-445-6493 and consulted regarding clean-up procedures.

#### 2.11 Crossing Maintenance

2.11.1 The placement of armoring shall be confined to the work period when the stream is dry or at its lowest flow

2.11.2 No heavy equipment shall enter the wetted stream channel.

2.11.3 No fill material, other than clean rock, shall be placed in the stream channel.

2.11.4 Rock shall be sized to withstand washout from high stream flows and extend above the ordinary high-water level.

2.11.5 Rock armoring shall not constrict the natural stream channel width and shall be keyed into a footing trench with a depth sufficient to prevent instability.

#### 2.12 Fords, Armored Fill and Vented Crossings.

2.12.1 Fords, armored and vented crossings are considered permanent watercourse encroachments and shall accommodate the 100-year flood flow plus associated sediment and debris.

2.12.2 Hydrologically-connected road approaches to fords, armored and vented crossings shall be rocked and maintained to avoid delivery of fine sediment to the watercourse below.

2.12.3 Fords, armored and vented crossings shall be maintained as necessary to avoid delivery of fine sediment to the watercourse below.

2.12.4 Fords, armored and vented crossings shall be sufficiently outsloped to minimize aggradation of suspended sediments at the crossing.

2.12.5 The lowest point of fords, armored and vented crossings shall be constructed within or directly over the original stream channel, to the extent

feasible, in order to contain high flows up to twice bank-full and to avoid diversion potential.

2.12.6 Armor material shall be comprised of durable angular screened quarry rock of sufficient size and placement to minimize mobilization during a 100-year storm event. Wood may be used for armoring if sound, tight-grained, redwood is applied and sufficiently keyed into the fillslope to resist movement during a 100-year storm event.

2.12.7 If maximum fill heights exceed 15 feet or fills exceed 500 cubic yards of fill, rock sizing, armoring thickness, chute width and chute depth shall be calculated and sized using the nomograph provided in Figure 23 of Cafferata et al (2017).

2.12.8 Stream crossing spillway fill slopes shall be armored from roadbed to the natural channel in a manner sufficient to prevent significant scour or removal of armor during high flows. Scour is expected through road surface rock cap.

2.13 Road Approaches. The Permittee shall treat road approaches to new or reconstructed permanent crossings *on Class I and II watercourses* to minimize erosion and sediment delivery to the watercourse. Permittee shall ensure road approaches are hydrologically disconnected to the maximum extent feasible to prevent sediment from entering the crossing site, including when a Stream Crossing is being constructed or reconstructed. Road approaches shall be armored from the crossing for a minimum of 50 feet in both directions, or to the nearest effective water bar or point where road drainage does not drain to the crossing, with durable rock, compacted grindings, pavement, or chip-seal.

#### 2.14 Foothill Yellow-legged Frog Avoidance

2.14.1 No crossing construction/reconstruction shall occur if water is present, unless a visual encounter survey is conducted for all life-stages of FYLF by a qualified individual (knowledgeable of all life stages of FYLF and similar species) within the project area no more than two weeks prior to operations.

2.14.2 Visual encounter surveys shall consist of walking the entire survey reach and visually scanning in the water and on the banks. Any frog species encountered shall be recorded and submitted to the Department along with the work completion report. Observation reports shall be recorded on a CNDDDB report form found at:

<https://www.wildlife.ca.gov/Data/CNDDDB/Submitting-Data>

2.14.3 Permittee shall install exclusion fencing to deter frog entry into project area during project implementation. Fencing shall be installed using the

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following guidelines:

- 2.14.3.1 Fencing shall be installed directly upstream and downstream of the project area, perpendicular to the direction of flow, within the bankfull channel, and fitted with wings, a minimum of ten feet in length, angled 45 degrees away from the project area.
- 2.14.3.2 The bottom edge of fencing should be securely in contact with the ground to prevent individuals from passing underneath.
- 2.14.3.3 When surface flow is present, fencing material spanning the channel shall not impede natural flow of water but shall prohibit passage of juvenile frogs (e.g., netting with no greater than 0.25 inch opening size).
- 2.14.3.4 Wing fencing shall be made of material FYLF cannot climb (e.g. geotextile fabric).

2.15 Project Inspection. The Project shall be inspected by Tierra Consulting or a licensed engineer to ensure that the stream crossings were installed as designed. A copy of the inspection report, including photographs of each site, shall be submitted to CDFW within 90 days of completion of this project.

### **Erosion Control and Pollution**

- 2.16 Erosion Control. Permittee shall use erosion control measures throughout all work phases where sediment runoff threatens to enter a stream, lake, or other Waters of the State.
- 2.17 Seed and Mulch. Upon completion of construction operations and/or the onset of wet weather, Permittee shall stabilize exposed soil areas within the work area by applying mulch and seed. Permittee shall restore all exposed or disturbed areas and access points within the stream and riparian zone by applying local native and weed free erosion control grass seeds. Locally native wildflower and/or shrub seeds may also be included in the seed mix. Permittee shall mulch restored areas using at least two to four inches of weed-free clean straw or similar biodegradable mulch over the seeded area. Alternately, Permittee may cover seeding with jute netting, coconut fiber blanket, or similar non-synthetic monofilament netting erosion control blanket.
- 2.18 Erosion and Sediment Barriers. Permittee shall monitor and maintain all erosion and sediment barriers in good operating condition throughout the work period and the following rainy season, defined herein to mean October 15 through June 15. Maintenance includes, but is not limited to, removal of accumulated sediment and/or replacement of damaged sediment fencing, coir logs, coir rolls, and/or

straw bale dikes. If the sediment barrier fails to retain sediment, Permittee shall employ corrective measures, and notify the department immediately.

- 2.19 Prohibition on Use of Monofilament Netting. To minimize the risk of ensnaring and strangling wildlife, Permittee shall not use any erosion control materials that contain synthetic (e.g., plastic or nylon) monofilament netting, including photo- or biodegradable plastic netting. Geotextiles, fiber rolls, and other erosion control measures shall be made of loose-weave mesh, such as jute, hemp, coconut (coir) fiber, or other products without welded weaves.
- 2.20 Site Maintenance. Permittee shall be responsible for site maintenance including, but not limited to, re-establishing erosion control to minimize surface erosion and ensuring drainage structures and altered streambeds and banks remain sufficiently armored and/or stable.
- 2.21 Cover Spoil Piles. Permittee shall have readily available erosion control materials such as wattles, natural fiber mats, or plastic sheeting, to cover and contain exposed spoil piles and exposed areas in order to prevent sediment from moving into a stream or lake. Permittee shall apply and secure these materials prior to rain events to prevent loose soils from entering a stream, lake, or other Waters of the State.
- 2.22 No Dumping. Permittee shall not deposit, permit to pass into, or place where it can pass into a stream, lake, or other Waters of the State any material deleterious to fish and wildlife, or abandon, dispose of, or throw away within 150 feet of a stream, lake, or other Waters of the State any cans, bottles, garbage, motor vehicle or parts thereof, rubbish, litter, refuse, waste, debris, or the viscera or carcass of any dead mammal, or the carcass of any dead bird.

### 3. Reporting Measures

- 3.1 Work Completion. The proposed work shall be completed by no later than **October 1, 2019. Failure to complete work by this date shall result in suspension or revocation of this Agreement.** A notice of completed work (condition 2.4), with supplemental photos, shall be submitted to CDFW **within seven (7) days** of project completion.
- 3.2 Project Inspection. The Permittee shall submit the **Project Inspection Report** (condition 2.15) to CDFW, LSA Program at 619 Second Street, Eureka, CA 95501

### CONTACT INFORMATION

Written communication that the Permittee or CDFW submits to the other shall be delivered to the address below unless the Permittee or CDFW specifies otherwise.

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To Permittee:

Jedediah Morris  
PO Box 989  
Willow Creek, California 95573  
(707) 496-4690

To CDFW:

Department of Fish and Wildlife  
Northern Region  
619 Second Street  
Eureka, California 95501  
Attn: Lake and Streambed Alteration Program  
Notification #1600-2018-0558-R1

**LIABILITY**

The Permittee shall be solely liable for any violation of the Agreement, whether committed by the Permittee or any person acting on behalf of the Permittee, including its officers, employees, representatives, agents or contractors and subcontractors, to complete the project or any activity related to it that the Agreement authorizes.

This Agreement does not constitute CDFW's endorsement of, or require the Permittee to proceed with the project. The decision to proceed with the project is the Permittee's alone.

**SUSPENSION AND REVOCATION**

CDFW may suspend or revoke in its entirety this Agreement if it determines that the Permittee or any person acting on behalf of the Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, is not in compliance with the Agreement.

Before CDFW suspends or revokes the Agreement, it shall provide the Permittee written notice by certified or registered mail that it intends to suspend or revoke. The notice shall state the reason(s) for the proposed suspension or revocation, provide the Permittee an opportunity to correct any deficiency before CDFW suspends or revokes the Agreement, and include instructions to the Permittee, if necessary, including but not limited to a directive to immediately cease the specific activity or activities that caused CDFW to issue the notice.

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## **ENFORCEMENT**

Nothing in the Agreement precludes CDFW from pursuing an enforcement action against the Permittee instead of, or in addition to, suspending or revoking the Agreement.

Nothing in the Agreement limits or otherwise affects CDFW's enforcement authority or that of its enforcement personnel.

## **OTHER LEGAL OBLIGATIONS**

This Agreement does not relieve the Permittee or any person acting on behalf of the Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from obtaining any other permits or authorizations that might be required under other federal, state, or local laws or regulations before beginning the project or an activity related to it.

This Agreement does not relieve the Permittee or any person acting on behalf of the Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with other applicable statutes in the FGC including, but not limited to, FGC sections 2050 *et seq.* (threatened and endangered species), 3503 (bird nests and eggs), 3503.5 (birds of prey), 5650 (water pollution), 5652 (refuse disposal into water), 5901 (fish passage), 5937 (sufficient water for fish), and 5948 (obstruction of stream).

Nothing in the Agreement authorizes the Permittee or any person acting on behalf of the Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, to trespass.

## **AMENDMENT**

CDFW may amend the Agreement at any time during its term if CDFW determines the amendment is necessary to protect an existing fish or wildlife resource.

The Permittee may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by CDFW and the Permittee. To request an amendment, the Permittee shall submit to CDFW a completed CDFW "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the corresponding amendment fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

## **TRANSFER AND ASSIGNMENT**

This Agreement may not be transferred or assigned to another entity, and any purported transfer or assignment of the Agreement to another entity shall not be valid or effective,

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unless the transfer or assignment is requested by the Permittee in writing, as specified below, and thereafter CDFW approves the transfer or assignment in writing.

The transfer or assignment of the Agreement to another entity shall constitute a minor amendment, and therefore to request a transfer or assignment, the Permittee shall submit to CDFW a completed CDFW "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the minor amendment fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

## **EXTENSIONS**

In accordance with FGC section 1605(b), the Permittee may request one extension of the Agreement, provided the request is made prior to the expiration of the Agreement's term. To request an extension, the Permittee shall submit to CDFW a completed CDFW "Request to Extend Lake or Streambed Alteration" form and include with the completed form payment of the extension fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5). CDFW shall process the extension request in accordance with FGC 1605(b) through (e).

If the Permittee fails to submit a request to extend the Agreement prior to its expiration, the Permittee must submit a new notification and notification fee before beginning or continuing the project the Agreement covers (FGC section 1605(f)).

## **EFFECTIVE DATE**

The Agreement becomes effective on the date of CDFW's signature, which shall be: 1) after the Permittee signature; 2) after CDFW complies with all applicable requirements under the California Environmental Quality Act (CEQA); and 3) after payment of the applicable FGC section 711.4 filing fee listed at [http://www.wildlife.ca.gov/habcon/ceqa/ceqa\\_changes.html](http://www.wildlife.ca.gov/habcon/ceqa/ceqa_changes.html).

## **TERM**

This Agreement shall **expire five years** from date of execution, unless it is terminated or extended before then. All provisions in the Agreement shall remain in force throughout its term. The Permittee shall remain responsible for implementing any provisions specified herein to protect fish and wildlife resources after the Agreement expires or is terminated, as FGC section 1605(a)(2) requires.

## **AUTHORITY**

If the person signing the Agreement (signatory) is doing so as a representative of the Permittee, the signatory hereby acknowledges that he or she is doing so on the Permittee's behalf and represents and warrants that he or she has the authority to legally bind the Permittee to the provisions herein.

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**AUTHORIZATION**

This Agreement authorizes only the project described herein. If the Permittee begins or completes a project different from the project the Agreement authorizes, the Permittee may be subject to civil or criminal prosecution for failing to notify CDFW in accordance with FGC section 1602.

**CONCURRENCE**

The undersigned accepts and agrees to comply with all provisions contained herein.

**FOR Jedediah Morris**

\_\_\_\_\_  
Jedediah Morris

\_\_\_\_\_  
Date

**FOR DEPARTMENT OF FISH AND WILDLIFE**

\_\_\_\_\_  
Scott Bauer  
Senior Environmental Scientist Supervisor

\_\_\_\_\_  
Date



**Tierra Consulting**

**Christian Figueroa, PG, CEG, QSD**

Post Office Box 989, Willow Creek, CA 95573

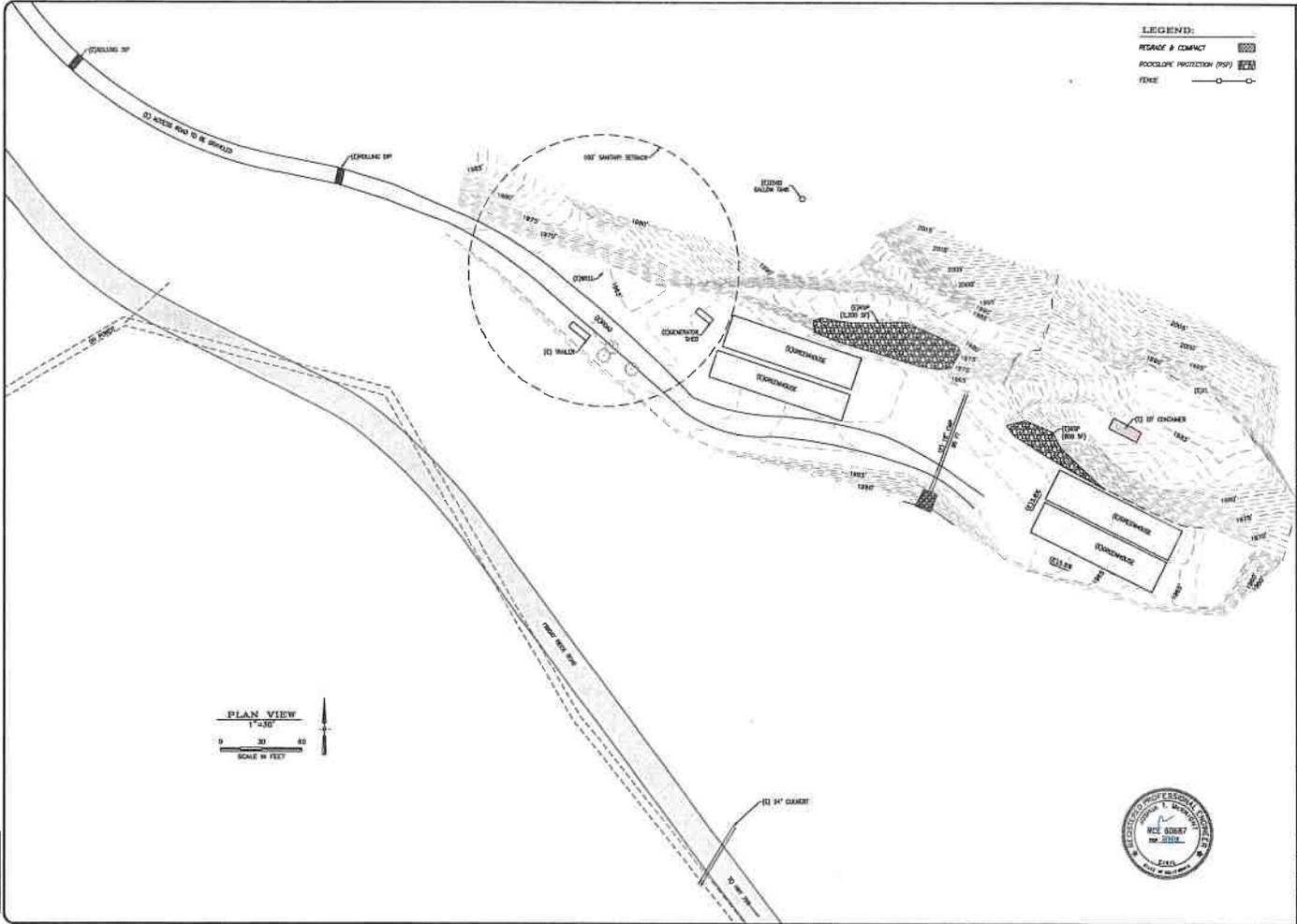
## **Attachment 6**

# **TVCE Grading and Erosion Control Plan**









**LEGEND:**  
 RETAIN & CONTACT [Symbol]  
 ROCKSLOPE PROTECTION (RSP) [Symbol]  
 FENCE [Symbol]

**PLAN VIEW**  
 1"=30'  
 SCALE IN FEET



**TYCE**

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10

PROJECT: HARBORLAND STANDARD PLANNING  
 APR. 2014-07-2017  
**EXISTING SITE PLAN**  
 WILSON CREEK, HARIBOLD COUNTY, CALIFORNIA

DATE OF PLAN	NOV 2017
DATE OF SHEET	MAY 2017
SCALE	AS SHOWN
PROJECT NO.	1831
DRAWN BY	C02

TYCE ENGINEERING, INC.  
 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000









