

## Operations Plan

Bob Howard

Location: 000 Reed Mountain Rd Garberville, CA 95542

County: Humboldt

APN: 223044010

Address: PO Box 909 Garberville, CA 95542

Contact Name: Vanessa Valare

Telephone: 760.613.6520/ 707.986.7815

Email: etahumboldt@gmail.com



### Project Description

The site is located on Reed Mountain rd, West of the south fork of the Eel River near Benbow. The site is characterized by mixed conifer and hardwood forested areas. Gardens and homestead and operations present a low threat to water quality. Owners/Operators of the farm pride themselves on land stewardship, best practices, and take great care to minimize impacts on the natural environment as well as to improve and restore the land and surroundings.

The cultivation activity is classified Tier 1 Low Risk with the NCRWQCB. The total cultivation area is approximately 9,375 sq ft with two cultivation areas. The cultivation area behind caretaker's house being decommissioned under application 11916 as part of a relocation and remediation project on the northern portion of the parcel. The parcel is currently under review by the planning dept for a lot line adjustment that will separate the northern and southern part of the property using a creek as a natural boundary line. Omsberg and Preston are writing up a relocation and remediation plan and it should be ready within the first part of January and the plan to be implemented with the onset of the dry period.

The irrigation water source for this operation is rainwater stored in a pond that has a capacity of approximately four and half acre feet. The rainwater stored in the pond provides more than enough water for all seasonal irrigation uses. Site uses approx 200,000 gal of water per year. There is a spring labeled diversion one on the map, used to fill a domestic water tank..There is an additional fully contained spring that has been used historically for domestic purposes and is used for emergency domestic backup only. We are working with SWRCB and geologist to confirm its source and viability.

### **Land Features**

To the best of my knowledge the graded flats on the land were created by Eel River Sawmills. In years applicant used small equipment to aid in shaping and contouring existing flats on the land. No more than 50 yards of dirt ever moved to help maintain current logging decks. There is no legacy amage. Land and maintained and cleaned by the applicant regularly. There are 7 culverts all in excellent condition and maintained regularly. Parcels that access their land vis Reed Mountain to the east of applicants property have easement to cross the land to access their own land with the traffic required to conduct their businesses and lives.

There are no signs of erosion or water run off. Site is checked on a weekly basis to monitor for performance on BMP.

### **Proximity**

The cultivation site POU #1 is 697 ft from my neighboring property line to the north of me, and 520ft from the neighboring property line to the south. POU #2 is 540 ft from the neighboring property line to the east and 725 from the neighboring property line to the north, and 514 ft to the southern parcel, 817 ft to western parel. See map for all setbacks.. . There are no schools, school bus stops, public parks, public lands, hiking trails or tribal resources within 600 ft of my property.

### **Tracking, Records, and Inspections**

CERCC requires that the project be in compliance with the Track-and-Trace System and local requirements. The following policies shall be implemented to ensure compliance with the CERCC and CWMP:

A. In addition to all other tracking requirements, disposal of cannabis waste shall use the Track-and-Trace System with documentation to ensure cannabis waste is identified, weighed, and tracked while on premises and when disposed.

B. All cannabis plant material identified as cannabis waste shall be reported in the Track-and-Trace System made within three (3) business days of the change in disposition from cannabis plant material into cannabis waste scheduled for destruction or disposal.

C. Review of on-site cannabis, Track-and-Trace System records, cannabis waste, commercial waste, and any other records shall be available for CDFA inspection or their designated representative. Inspections shall

occur at standard business hours from 8:00am to 5:00pm. Prior notice for inspections is not required by the inspecting agency.

D. No person shall interfere with, obstruct or impede inspection, investigation or audit. This includes, but is not limited to, the following actions: Denying the department access to the licensed premises. Providing false or misleading statements.

Providing false, falsified, fraudulent or misleading documents and records, and failing to provide records, reports, and other supporting documents.

E. Accurate and comprehensive records shall be maintained on-site for seven (7) years regarding cannabis waste which are subject to CDFA inspection that account for, reconcile, and evidence all activity related to the generation or disposition of cannabis waste.

### **Trash/Refuse**

Refuse and garbage shall be stored in a location and manner that prevents its discharge to receiving waters and prevents any leachate or contact water from entering or percolating to receiving waters. All trash and recycling is stored in cans with lids on a stable, flat area. The cans are secured to exclude wildlife and prevent discharge or contact with water or receiving waters. Garbage and refuse shall be disposed of at an appropriate waste disposal location. All garbage and refuse is disposed of at an authorized municipal waste transfer station. It will be taken to Redway Transfer station by personal vehicle, ie truck, 1-3 times per week depending on garbage accumulation.

### **Solid Waste/ Recycling**

Solid waste and recyclables on the property will be not be stored or collected. They will be taken to Redway Transfer station by personal vehicle, ie truck, 1-3 times per week depending on garbage accumulation. All soil will be reused and never dumped. Garbage from the grow is bags from amendments and fertilizer containers. All items will be cleaned out properly into a leach field or garden area, recycled if possible and if not removed to the transfer station. All recycling is sorted in a can with lids in the yurt until it is removed. No garbage is stored outside or unattended where animals can access.

### **Solid Waste and Recyclables Disposal**

Redway Transfer Station  
Recycling center in Humboldt County, California  
Conservation Camp Rd.  
Redway, CA 95560

707-923-3944

<https://www.recology.com/recology-eel-river/redway-transfer-station/>

**Hazardous Waste Disposal**

Humboldt Waste Management Authority

1059 W Hawthorne St.

Eureka, CA 95501

707-268-8680

## Cultivation Plan

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## Cultivation Site

This project will consist of 5 flowering cannabis gardens. The total pre-existing flowering canopy cultivation for this parcel is 9,375 sq. ft. The footprint of the gardens is as they were in 2011. All cannabis in gardens grown outdoors some under greenhouses, some in open air listed below. All cannabis is harvested and dried on site, in the greenhouses it is grown in. POU#1 is 1500 sq ft, consists of two (2) 750 sq ft greenhouses. POU #2 has two (2) greenhouses on the lower bench totally 3850 sq ft of 1425 each. The upper bench in POU#2 has a 1500 sq ft greenhouse and 2525 sq ft of open air canopy.

Black plastic is used to propagate two (2) harvests per year from greenhouses and one (1) harvest per year from open air. All black out plastic used as many seasons as possible and repaired instead of replaced for as long as possible. There are companion plants, native grasses and indigenous plants that grow in the garden and around the area to also help control any type of run off. There are no signs of wastewater runoff or erosion in this garden. Hay is also spread around the area and on the topsoil. The water line as well as manifolds and fittings are checked almost daily for leak or cracks.

## Immature Plants

Immature plants will be propagated from seed or purchased from a licensed nursery. When needed a section of the greenhouses will be used for seedling and immature plants. An additional 900 sq ft greenhouse will be built seasonally for second cultivation cycle immature plants. Only minor supplemental light is used, 22w regular light bulbs. This greenhouse will be put at caretaker's residence and solar system is used for lights.

### Cultivation Cycles

The applicant intends to harvest the greenhouse twice. The first time in July after a Light Deprivation cycle. The second harvest in Sept/Oct with natural finish. The full term outdoor to be harvested once per year Sept/Oct. Also plans for personal medical plants to be harvested in Sept/Oct.

### Monthly Cultivation Site Activities

Month	Activities
January	Finish processing of fall harvest, trimming and storage. Plan new year. Mow cover crop. Check roads for issues/fix. Check water lines, tanks and all equipment for repairs or damages. Make plan for repairs.
February	Check roads for issues/fix. Check water lines, tanks and all equipment for repairs or damages. Make plan for repairs.
March	Check roads for issues/fix. Check water lines, tanks and all equipment for repairs or damages. Make plan for repairs.
April	Start seeds in small propagation greenhouse, start amending sites when weather permits. Greenhouse fixes. Site maintenance. Check roads for issues/fix. Check water lines, tanks and all equipment for repairs or damages. Make plan for repairs..
May	Start cultivation areas within greenhouse zones. Assisted light added to small plants to keep in vegetative space at caretaker's area. All greenhouse plants switched into flower using a blackout cover mid-late may. Turn beds, fix/ replace and clean drip emitters, check timers. Possibly plant long term plants late may. Double check all water systems for leaks and clogs. Put out sound sensors for rodents. Check roads for issues/fix. Check water lines, tanks and all equipment for repairs or damages. Make plan for repairs.
June	All assisted light ends in temporary immature plant greenhouse. Plant long term plants. Hay put over each trench for water retention. Use re mesh for supports as well as bamboo stakes which are cleaned with bleach before each use. Bamboo reused for multiple years. Pests are dealt with as they arise with oils that are approved for cannabis.. Check roads for issues/fix. Check water lines, tanks and all equipment for repairs or damages. Make plan for repairs.



July	Harvest greenhouse mid month, replant with new clones from a permitted nursery or additional plants from propagation greenhouse on site. Treat plants with preventive measures if necessary. Harvested flowers to hang in greenhouse then to be cured and machine trimmed according to paragraphs above. Check roads for issues/fix. Check water lines, tanks and all equipment for repairs or damages. Make plan for repairs.
August	Finish processing July's harvest. Monitor water supply, check lines and all areas for insect/ animal disturbance. Check roads for issues/fix. Check water and feeding tanks and all equipment for repairs or damages. Make plan for repairs.
September	Prepare for Harvest. Bleach drying shed. Prepare lines and drying spaces. Clean all supplies and purchase new items needed. Start harvesting early strains of long term if applicable. Harvest greenhouse mid September when possible. Harvest, cure and trim as outlined above Check roads for issues/fix. Check water lines, tanks and all equipment for repairs or damages. Make plan for repairs.
October	Harvest all long term cannabis and late greenhouses. Process as outlined above. Pull all root-balls, pack hay and cover crop seeds on beds. Pull drip system. Check all equipment and tools for leaks and damages before storing for winter. Store all supplies possible, clean up site.
November	Winterize water system, greenhouse and sheds. Clean up drying rooms remove all lines and debris. Continue processing cannabis as outlined above.
December	Finish processing cannabis. Prep all water and water storage system for shut down. Clean all garden implements. Put all left over supplies away. s. Tree removal if necessary, driveway fixing other farm/garden maintenance. Check roads for issues/fix. Check water lines, tanks and all equipment for repairs or damages. Make plan for repairs.



## Security Plan

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### Security

Each entrance to cultivation site and Ancillary area have locked gates. The shop behind the caretaker house is the harvested cannabis storage area and is locked at all times. No items of value shall be left in visible areas. Applicant plans to add a camera system to each part of the gardens with a central base at the caretaker's cabin and connected to smartphone. Applicant intends to have this system fully functional by 2021.



## Processing Plan

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### Harvest

Cannabis will be harvested using gloves and clean tools. All cannabis will be hung to dry in the greenhouses which would be covered with blackout tarp. Fans are never used in the drying. Cannabis will be dried for 10-21 days on lines in these areas depending on weather. Moldy cannabis will be removed and destroyed using county and state approved procedures for holding and destroying unwanted product.

### Curing

Curing will take place after cannabis is dried on the lines. Cannabis will be visually checked for mold then placed into plastic totes for (2) weeks to two (2) months for curing. The bins are stored at the secure shop behind caretaker's home. During this time the bins will be checked for mold and moisture consistency. Moldy or defective cannabis will be removed and destroyed using county and state approved procedures for holding and destroying unwanted product.

### Processing

Ideally a processing center will be available to contract processing of cannabis from harvested cured product to a shelf-ready product. If not plan below would be implemented until facility became available. Cannabis Trimming, trimming will occur as cannabis becomes ready from curing process. Trimming will physically take place in processing at a licensed Processing Facility. If that does not become available applicant intends to trim with the aid of a trim machine. The trim machine is used in this shop. Some distributors will take the product bucked and trimmed by machine. If needed applicant may hire 2-3 independent contractors with a processor's license to help. Processing will occur in building located near

caretaker cabin that has a bathroom for daily helpers. Processed cannabis will be bagged into turkey bags or sealed bags to be held until a distributor is ready. The trim or remaining leaves from processed cannabis, will be bagged into brown lawn bags and into contractor bags to be stored until needed, sold or destroyed in the legal manner. Using a processing center for trimming would be ideal scenario in future. As soon as option is available I intend to utilize it.

### **Processing- Independent Contractors**

Beyond the caretaker who is the lead cultivator and main employee of the cultivation, the applicant will need help, so he intends to independent contractors will be hired to help in their respective fields. Independent contractors will have access to parking, spacious work zone, clean supplies for task, hand washing areas with soap, bathroom with sink and flushing toilet and break area. All areas are kept clean and in good condition. All independent contractors will have access to personal safety equipment to meet the needs of the job for example, face mask, gloves, Tyvek suits, safety glasses, rubber boot covers etc. Additionally, the following practices will be implemented and only employ persons for hire as allowable by law. At all times workers shall have access to safe drinking water, toilets and handwashing facilities. No worker housing is planned

### **Worker Safety Practices**

Safety protocols will be implemented to protect the health and safety of employees. All employees shall be provided with adequate safety training relevant to their specific job functions, which may include:

- Employee accident reporting

- Security breach

- Fire prevention

- Materials handling policies

- Use of protective clothing such as long sleeve shirts, brimmed hats, and sunglasses.

- Each garden site and or processing area have the following emergency equipment:

- Personal protective equipment including gloves and respiratory protection are provided where necessary

- Fire extinguisher

- First Aid Kit

- Snake Bite/Bee Sting Kit

- Eye Washing Kit

Comply with all applicable federal, state, and local laws and regulations governing California Agricultural Employers, which may include: federal and state wage and hour laws, CAL/OSHA, OSHA, California Agricultural

Labor Relations Act, and the Humboldt County Code (including the Building Code).

## **Materials Management Plan**

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### **Petroleum Based/ Fuel Products**

Gasoline, oil and oil/gasoline mix used for generator, weed whacker, lawn mower and other garden supplies are stored in shed located on site plan next to caretaker residence. This building has concrete flooring and a plastic covering for secondary containment of possible spills and leaks. All used oils are disposed of properly. Gasoline for generators stored in approved canisters in generator shed area with secondary containment. Propane is used for house appliances and water heater.

### **Procedures for spill prevention and cleanup.**

Spills shall be cleaned up immediately following discovery. Spills shall be cleaned up using proper material to soak up hazardous materials. Spilled materials will be put into proper container, labeled and transported to a facility that will take the materials. A spill kit will be maintained on site.

### **Petroleum Product BPTC Measures**

Petroleum products and other liquid chemicals, including but not limited to gasoline, and oils shall be stored so as to prevent their spillage, discharge, or seepage into nearby soils or receiving waters. Storage containers will be of suitable material and construction to be compatible with the substance(s) stored and conditions of storage such as pressure and temperature. These materials are used for generator, weed whacker, lawn mower and other garden tools maintenance and use. All five gallon gasoline cans are stored with secondary containment inside of generator shed or in garage on flat, stable areas. The applicant will implement spill

prevention, control, and countermeasures (SPCC) and will There are no underground storage tanks on the property.

### **Fertilizer**

Fertilizer and other cannabis feeding supplies are stored in shed located on site plan next to caretaker residence. The shed has concrete flooring with a plastic covering for secondary containment of possible spills and leaks. Gloves, fresh water and soap are also next to feeding tank with stored items Greenhouse also has small feeding barrels. Gloves, fresh water and soap are also located next to the barrels

### **Fertilizer Usage**

Fertilizers are used in accordance with package directions or from top dressing with soil amendments compost tea recipes. All gardening practices are guided toward biodynamic and organic preparations. All fertilizer stored in original container with labels intact. Weekly visual inspections are done to insure all containers are viable and not leaking.

### **Fertilizer Types**

All fertilizers qualify under Clean Green Certificate Program - *Non Liquid Amendments* -Stutzman's chicken manure, Biochar, Peruvian Seabird Guano, Earthworm Castings, Bat Guano, Organic Steer Manure, Omri listed Compost, and Diatomaceous Earth.

### **Pesticide and Agricultural Chemicals**

Prevention and management of pests achieved through companion planting of non-invasive plants, nematodes, biodynamic farm preparations, diatomaceous earth, organic and legal pesticides and visual inspection with hand removal of infested plants.

### **Pesticide and Agricultural Chemical Storage Area**

Pesticides and agricultural chemicals (fungicide and rodenticide) are stored in a secure location under roofed structure with secondary containment, the shed located on site plan next to caretaker residence. Pesticides and agricultural chemicals are stored in an orderly fashion on shelves and on the floor with original labels per manufacturers recommendations. The area is neat, orderly, and includes a table with measuring devices for calculating and mixing chemicals.

### **Measures to protect watershed**

All spraying of plants for any type of pest control, mildew/mold control or foliage feeding is done when winds are at 0 and sprayed directly onto plants without over spray. No generators or household projects of any sort happen within 200 ft feet of the watershed. No pumping or dumping ever occurs in watershed. All fertilization of plants is done while I am monitoring it. Fertilizer comes from separate 55 gallon barrels. The fertilizer system is piped into drip irrigation system propelled by gravity. This process is always monitored. Same for greenhouse crops, the food comes from a 50 gallon barrel and is always fed with supervision.

### **Cultural Pest Management Control Methods**

The applicant utilizes crop isolation, cultivations beds with optimum plant density, vegetative stripping, and spacing as a means to manage pests. A buffer around the cultivation beds is used as further means of isolation from the surrounding environment. Pest repellent companion plant species are also used in the vicinity such as marigolds, red amaranthus, dill, cilantro, basil, chrysanthemum, and rosemary.

The applicant performs routine ongoing maintenance activities for management of pests including, pruning, defoliation, thinning and topping. Irrigation and drainage is designed to eliminate standing water and runoff/pooling. Sanitation facilities are designed and located to reduce pest attraction. Additional maintenance activities include crop residue destruction, maintenance of clean cultivation bed borders, and weed control. The timing of harvesting is also used to reduce exposure to powdery mildew infestations.

### **Physical/Mechanical and Biological Pest Management Control Methods**

The applicant utilizes physical/mechanical and biological pest management control methods. The table below contains potential pests and optional physical/mechanical and biological pest management control methods. Please note pest management options will be utilized depending on conditions and circumstances.



**Table 1: Physical/Mechanical and Biological Pest Management Control Methods**

Pest or Disease	Physical/Mechanical Practices	Biological Practices
Spider Mites	Keep dust down by watering off plants (if dust is a problem)	Release predatory mites
Broad Mites	Inspect plants; disinfest or dispose of infested plants	Release predatory mites and six-spotted thrips
Russet Mites		Release predatory mites
Whiteflies	Hang up yellow sticky cards, Use reflective plastic mulch	
Thrips	Hang up yellow or blue sticky cards	
Aphids	Hang up yellow sticky cards (alates), Hose off plants	
Leafminers	Remove older infested leaves	Release Diglyphus parasitoids
Cutworms	Use pheromone traps to detect adults. Remove weeds, which serve as a reservoir for cutworms and other noctuidae	
Flea Beetles	Use reflective mulches Plant trap crops (e.g., radish or Chinese	

	mustard)	
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### Chemical Pest-Management Control Methods

The following table contains a list of all of the chemicals will be used for pest management. The active ingredients are exempt from residue tolerance requirements and either exempt from registration requirements or registered for a use broad enough to include use on cannabis.

**Table 2: Chemical Pest-Management Control Methods**

Pest or Disease	Pesticide Active Ingredient	Pesticide
Mites, powdery mildew, leafhoppers, aphids, whiteflies, moth larvae	Soybean Oil (39%), Sodium Lauryl Sulfate (19%), Citric Acid, and Isopropyl Alcohol	Green Cleaner Spidermite Miticide
Mites, powdery mildew, leafhoppers, aphids, whiteflies, moth larvae	Soy Oil,, Peppermint Essential Oil, Citric Acid, Plant Based Surfactant (Soap), Alcohol, Sodium Citrate, and Water	Lost Coast Plant Therapy
Mites, powdery mildew, botrytis and other pests, and fungal/mildew	Thyme Oil 14%, Clove Oil 10%, Garlic Oil 9%, Peppermint Oil 4%, Corn Oil 3%, Geraniol 3%, Citric Acid 2%, Rosemary Oil 2%, 53% Filtered Water, Soap, Isopropyl Alcohol, and Vinegar	Trifecta Crop Control

### **Rodenticide**

Rodent control is limited to hardware cloth that lines the beds, noise activators, Tanglefoot Brand coating paste, and cayenne/cinnamon spray. Rodenticide supplies are stored as outlined above. Rodenticide supplies are used in accordance with original labels per manufacturers recommendations.

### **Fungicides**

Mold and mildew pathogens controlled with sulfur, Actinovate, Safer Brand Garden Fungicide and visual inspection with removal of infected vegetative matter. Fungicides and other cannabis preventive and treatment supplies are used in accordance with original labels per manufacturers recommendations.

**Light Pollution Control Plan**

**Bob Howard**



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**Light Pollution Control**

The only light applicant uses is supplemental light for immature plants.

Immature plants will be located in a small 900 sq ft greenhouse.

Greenhouse will be covered with black plastic before dusk to ensure no light leaks occur. Area is well maintained and inspected for light leaks everyday that plants are under this light. The light is small supplemental light 15-20 22w light bulbs. Applicant guarantees that there are no light leaks coming from the greenhouse.

## Soils Management Plan

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## Soils Management Plan

### Cultivation Soils

All soil from cultivation site will be reused and never dumped. Reused meaning the applicant tills the soils in place in the garden areas or moves soils to a large pile for amending or later use see plot plan pg 8. Area is marked on map. No soils are removed or transferred off of the property.

Applicant amends the garden soils every year with basic amendments. Greenhouses plants are planted in containers, reusable pots and raised beds. Protection from over use of inputs and reuse of these soils shall be a key component of operations.

Operations will protect the resources through the following means: The Site management plan will be implemented, Cultivations will occur in beds, air pots, or in the ground. Mixing, tilling, and amending of soils will occur within the receptacles. Composting is in a secure dedicated area.

Vegetative materials will be chipped back into the compost pile. Cover crops will be utilized when not in cultivation for a month or more to reduce soil loss.

Garbage from the cultivation is limited to bags from amendments and fertilizer containers. All items will be cleaned out properly into the garden area, recycled if possible and if not removed to the transfer station.

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 shall, for as long as they remain on the site, be stored at locations where

they will not enter or be blown into surface waters, and in a manner that ensures that residues and pollutants within those materials do not migrate or leach into surface water or groundwaters.



## Hazardous Waste Statement

Bob Howard

Location: 000 Reed Mountain Rd Garberville, CA 95542

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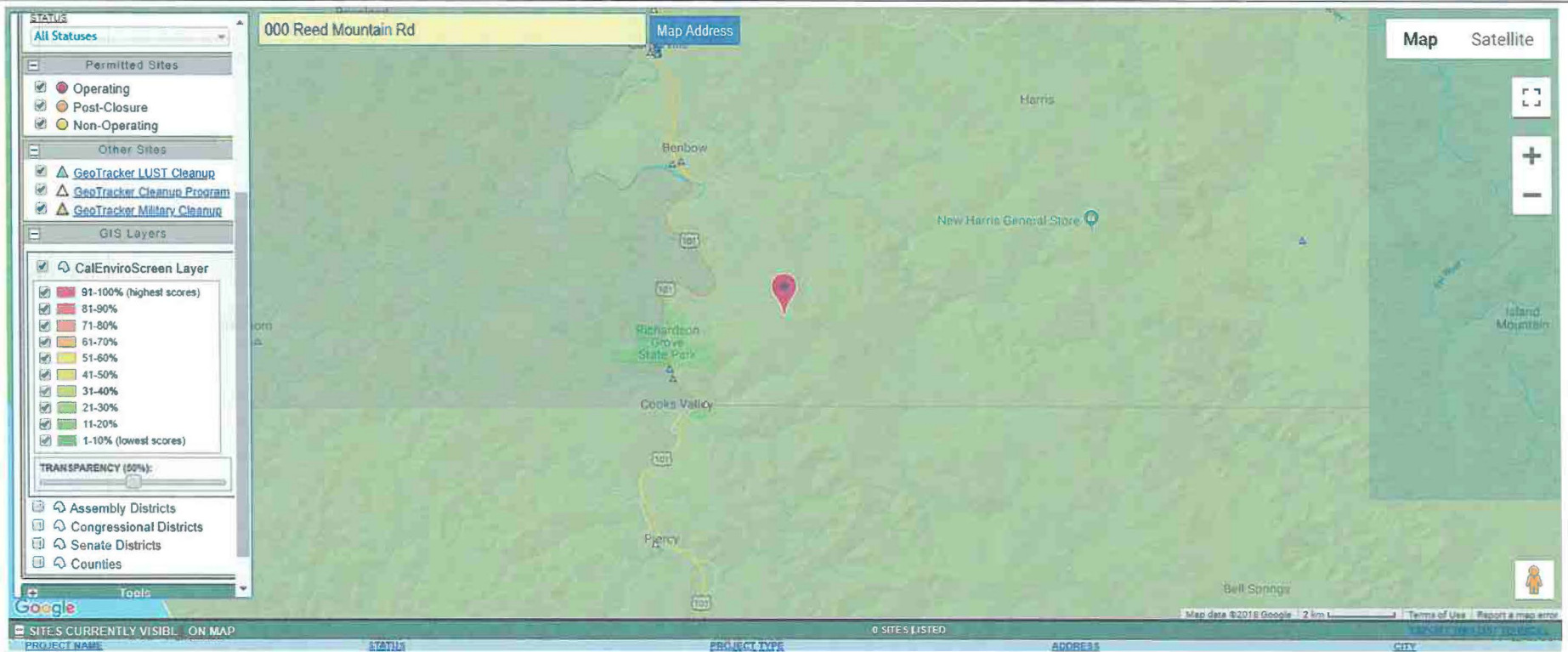
Contact Name: Vanessa Valare

Telephone: 760.613.6520/ 707.986.7815

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The property 223-044-010 or commonly known as 000 Reed Mountain Rd,, has not been used as a storage facility for Hazardous Waste. This was confirmed through EnviroStor database.



ENVIRO STORE MAPPINGS SHOW 000 REED MOUNTAIN RD TO BE IN A GREEN SHADED AREA, THOSE AREAS HAVE THE LOWEST SCORE. A FEW SITES HAVE BEEN IDENTIFIED NEARBY IN THEY NEIGHBORING TOWNS OF BENBOW AND COOKS VALLEY THEY ARE BOTH APPROX 2.5 AND 3.5 MILES AWAY RESPECTIVELY THE CULTIVATION SITE

Census Tract: 6023011500  
 CalEnviroScreen Percentile: 11-15%  
 Pollution Burden Percentile: 4%  
 Population Characteristics Percentile: 31%



## ENVIROSTORE DATA

BOB HOWARD

000 REED MOUNTAIN RD, BENBOW

223-044-010

HAZ

## Energy Plan

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### Equipment/ Power

There is no power at the cultivation Site. Power for fans, power tools, surge protectors, cannabis trimming machine and all electrical supplies and equipment are on solar system with backup generator that is tied to the caretaker's residence. There are 6 (four) 200 watt solar panels and 4 (four) L-16 marine deep-cycle batteries with a 2,500kw inverter. All power for entire property on this system. Generator usage is dependent on people in household, weather and month of the year. Solar system provides enough power from Feb- Oct with generator supplement from Nov-Jan. When generator backup is require a 2,000 watt Honda generator is utilized. Water is moved from the pond to POU#1 using a solar powered pump. From POU#1 water is pumped to POU#2. Once water reaches its point of use, water is moved by gravity to the cannabis cultivation areas. If something goes wrong with solar pumps water is carried by truck with water tank to the cannabis cultivation areas. No power is used during harvest. All cannabis dried inside greenhouses in natural wind with black out covered pulled halfway to keep out light leaks. Harvested cannabis is transported by roads owned by applicant to caretaker's residence where the adjacent shop serves as a cultivation support area. This area is powered adequately by home system. The trim machine is used in this shop. Some distributors will take the product bucked and trimmed by machine, when this is not enough cannabis will go onto processing facility. No power need for processing center or crew. Applicant would like to add an additional eight (8) solar panels. Four (4) batteries and one 2,500kw inverter to add to POU#2 in the event that fans would need to be added in the future. Historically no power utilized on POU#1 or POU#2.

## Stormwater Management

Bob Howard

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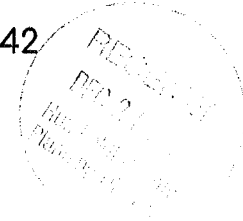
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### Erosion Control

This cultivation site is flat. Daily inspections from all personal to verify that spoils are not be stored or placed in or where they can enter any surface water. Spoils will be adequately contained or stabilized to prevent sediment delivery to surface waters. Spoils generated through development or maintenance of roads, driveways, earthen fill pads, or other cleared or filled areas shall not be sidecast in any location where they can enter or be transported to surface waters. We will use appropriate erosion control measures to minimize erosion of disturbed areas, potting soil, or bulk soil amendments to prevent discharges of waste. Fill soil shall not be placed where it may discharge into surface water. Weed-free straw mulch is used on exposed soils and, if warranted by site conditions, shall be secured to the ground. We will not plant or seed noxious weeds. Prohibited plant species, only locally native, non-invasive, and non-persistent grass species will be used for temporary erosion control. We will incorporate erosion control and sediment detention devices and materials into the design, work schedule, and implementation of all cannabis cultivation activities. Measures to limit or prevent erosion, include, but are not limited to, removal of fill from watercourses, stream restoration, riparian vegetation planting and maintenance, soil stabilization, erosion control, upgrading stream crossings if needed, road outsloping and rolling dip installation where safe and suitable as needed, installing ditch relief culverts and overside drains if prescribed, stabilizing unstable areas, reshaping cutbanks, and rocking native- surfaced roads. We will do our best to implement all applicable Erosion Control and Soil Disposal and Spoils Management Requirements in addition to the Winterization Requirements below by the onset of the winter period (November 15).



### **Sediment Erosion Prevention and Sediment Capture**

Daily inspections from all personnel to verify that spoils are not be stored or placed in or where they can enter any nearby soils and surface water.

Spoils will be adequately contained or stabilized to prevent sediment delivery to surface waters. Spoils generated through development or maintenance of roads, driveways, earthen fill pads, or other cleared or filled areas shall not be sidecast in any location where they can enter or be transported to surface waters. The applicant will use appropriate erosion control measures to minimize erosion of disturbed areas, potting soil, or bulk soil amendments to prevent discharges of waste. Fill soil shall not be placed where it may discharge into surface water. Weed-free straw mulch is used on exposed soils and, if warranted by site conditions, shall be secured to the ground. The applicant will not plant or seed noxious weeds.

Prohibited plant species, only locally native, non-invasive, and non-persistent grass species will be used for temporary erosion control.

The applicant will incorporate erosion control and sediment detention devices and materials into the design, work schedule, and implementation of all cannabis cultivation activities. Measures to limit or prevent erosion, include, but are not limited to, removal of fill from watercourses, stream restoration, riparian vegetation planting and maintenance, soil stabilization, erosion control, upgrading stream crossings if needed, road outsloping and rolling dip installation, where safe and suitable as needed, installing critical dip culverts and oversized drains if prescribed, stabilizing unstable areas, reshaping cutbanks, and rocking native- surfaced roads.

### **Sediment Control BPTC Measures**

Implementing water conservation measures, irrigating at conservative rates, applying fertilizers at conservative rates, applying chemicals according to the label specifications, and maintaining stable soil and growth media should serve to minimize the amount of runoff and the concentration of chemicals in that water. In the event that irrigation runoff occurs, measures shall be in place to treat/control/contain the runoff. The applicant is water conservative and uses no more than what is required. Irrigation runoff will be contained so that any pollutant are trapped in the ditch relief. Irrigation runoff will be managed so that any entrained constituents, such as fertilizers, fine sediment and suspended organic particles, and other oxygen consuming materials are not discharged to nearby watercourses. The applicant will do his best to ensure that

irrigation tailwater is not discharged towards or impounded over unstable features or landslides.

### **Spoils Management**

Cultivation areas and associated facilities are not located or occurring within 100' of any Class I or II watercourse or within 50' of any Class III watercourse or wetland, buffers maintain natural slopes with native vegetation, and buffers are of sufficient width to filter wastes from runoff discharging from production lands and associated facilities to all wetlands, streams, drainage ditches, or other conveyances.

Currently, no spoils are stored or placed in or where they can enter any surface water or pollute nearby lands. Any and all spoils shall be adequately contained or stabilized to prevent sediment delivery to surface waters. Any and 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.

If any further spoiling material is required, such as from stream crossing installation or other grading, the discharger shall follow the BMPs in Appendix B of the Order, under Spoil Management. Spoil sites shall be located outside any standard width riparian area (50' for Class III and 100' for Class III) and shall be stabilized and contained as per the BMPs.

### **Winterization BPTC Measures**

The applicant will do his best to implement all applicable Erosion Control and Soil Disposal and Spoils Management Requirements in addition to the Winterization Requirements below by the onset of the winter period (November 15).

The applicant will do his best best to block or otherwise close any temporary access roads to all motorized vehicles no later than the onset of the winter period each year.

The applicant will not operate heavy equipment of any kind at the cannabis cultivation site during the winter period, unless authorized for emergency repairs contained in an enforcement order issued by the State Water Board, Regional Water Board, or other agency having jurisdiction. The applicant will apply linear sediment controls (e.g., silt fences, wattles, etc.) along the toe of the slope, face of the slope, and at the grade breaks of exposed slopes to comply with sheet flow length at the frequency specified below.



The applicant will maintain all culverts, drop inlets, trash racks and similar devices to ensure they are not blocked by debris or sediment. The culverts will be inspected before to the onset of fall and winter precipitation and following precipitation events that produce a lot of rainfall. We will do our best to stabilize all disturbed areas and construction entrances and exits to control erosion and sediment discharges from land disturbance.

The applicant will cover and berm all loose stockpiled construction materials (e.g., soil, spoils, aggregate, etc.) that are not actively (scheduled for use within 48 hours) being used as needed to prevent erosion by storm water. We will procure adequate cover and berm materials available onsite if the weather forecast indicates a probability of precipitation.

The applicant will do our best to apply erosion repair and control measures to the bare ground (e.g., cultivation area, access paths, etc.) to prevent discharge of sediment to waters of the state.

## Parking Plan

Bob Howard

Location: 000 Reed Mountain Rd Garberville, CA 95542

County: Humboldt

APN: 223044010

Address: PO Box 909 Garberville, CA 95542

Contact Name: Vanessa Valare

Telephone: 760.613.6520/ 707.986.7815

Email: etahumboldt@gmail.com

## Parking Plan

There is adequate parking for up to 12 vehicles at any time between the three places of use on the property. POU#1 has adequate parking for at least 3 vehicles. POU #2 has adequate parking for at least 3 vehicles. The ancillary area has parking for up to 6 vehicles comfortably. See Site Plan. POU #1 and POU#2 easily accessed by a two wheel drive vehicle. Ancillary Area 4WD is encouraged and recommended.



## Road Plan

Bob Howard



**Location:** 000 Reed Mountain Rd Garberville, CA 95542

**County:** Humboldt

**APN:** 223044010

**Address:** PO Box 909 Garberville, CA 95542

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### Access Road Conditions

The site is located on Reed Mountain, West of the south fork of the Eel River near Benbow. Reed Mountain Rd is gravel and dirt and is shared with neighbors and a locked gate. Personal driveway is shared with no additional neighbors. Driveways come directly into cultivation sites with plenty of parking for up to 10 vehicles. Driveway is maintained with annual additions of gravel, grading, and limbing of the trees.

The entire road segment is being upgraded and developed to be equivalent of a road category four standard by permit holders who have to address road evaluation standards. The applicant is part of the road association. Attached is a road evaluation plan from PWA and the DWF that should address all concerns regarding a road evaluation plan or biological assessment of the road .

Roads are and will be maintained as appropriate (with adequate surfacing and drainage features) to avoid developing surface ruts, gullies, or surface erosion that results in sediment delivery to nearby soils and surface waters. The internal roads are maintained clear of debris and are enhanced with rock armor as necessary. Stockpiled construction materials are stored in a location and manner so as to prevent their transport to receiving waters .

### Vehicle Stream Crossing

There are seven culverts on this site and two bridges. Culvert shall be sized to pass the expected 100- year peak streamflow. The culverts were installed and modified in 2003 and 2007 under supervision of DWF and PWA, see attachments.

Reed Mountain Road Association

Star Farons is the contact person.707-223-1302

## Noise Plan

Bob Howard

Location: 000 Reed Mountain Rd Garberville, CA 95542

County: Humboldt

APN: 223044010

Address: PO Box 909 Garberville, CA 95542

Contact Name: Vanessa Valare

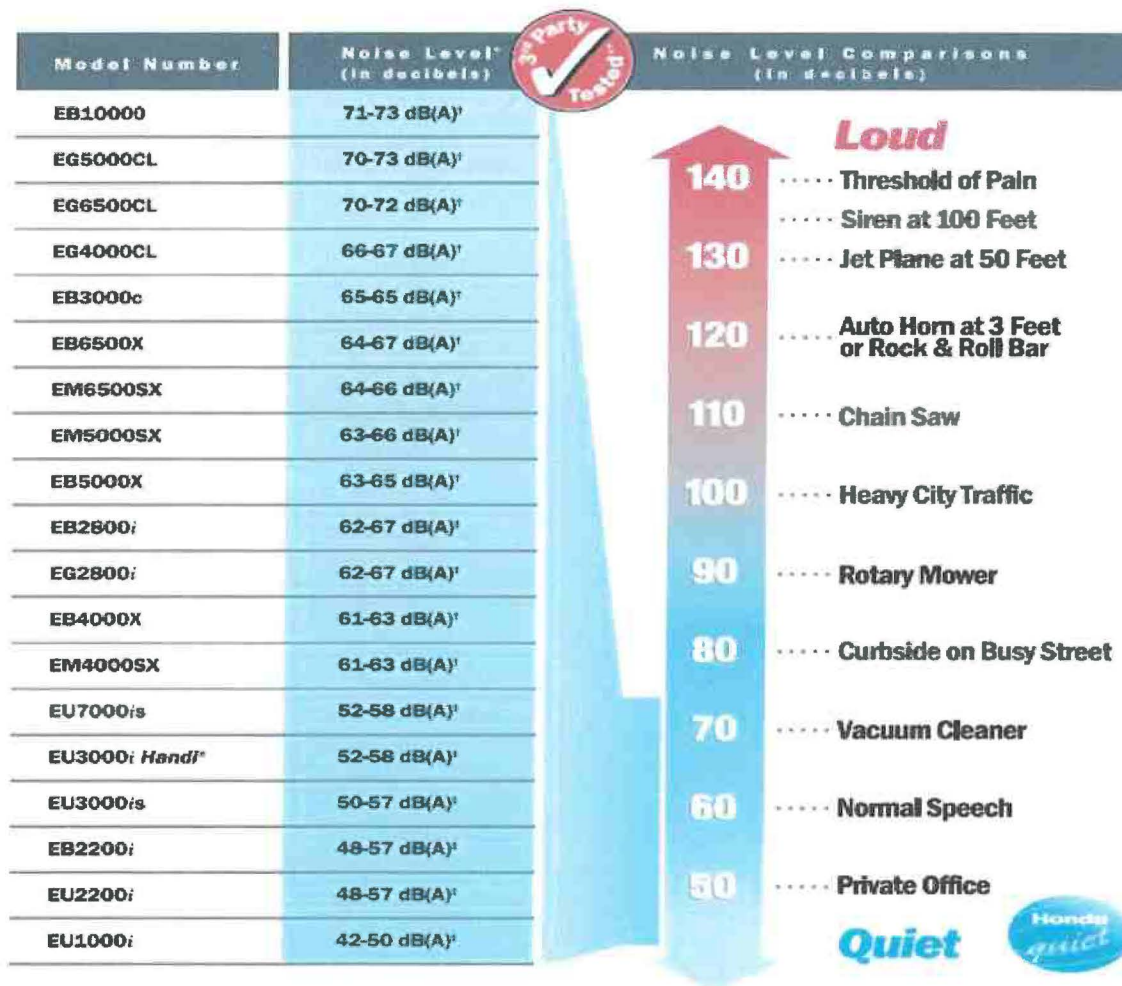
Telephone: 760.613.6520/ 707.986.7815

Email: etahumboldt@gmail.com



## Noise plan

Applicant has a 2000-watt Honda that is used as backup generator for solar system that powers house and cultivation related needs as they arise. The actual cultivation spaces have no power and no power other than battery operated power tools are used. Generator at residence is used less than 20% for all cannabis ancillary activities and domestic use. This is plenty of power as it has been in the past.. The generator is stored in shop behind house. Gas and pump stored in shed with secondary containment. Generator puts out maximum of 57 decibels. Applicant has contracted a biologist to perform a biological reconnaissance survey as well as to measure existing ambient noise levels at the property line using current noise measurements, as per the performance standards in CCMLUO – PC Hearing Draft 1-11-2018.



\*Tested in accordance with ISO 9013-2, sound pressure level (calculated at 21 Feet (7 meters)) using the front plane of the generator (control panel side) per ASHRAE Handbook 2017  
<sup>†</sup>3rd Party Testing by Leading Independent Laboratory: 50% Rated Load 100% Rated Load 25% Rated Load 100% Rated Load



## Human Waste Water Disposal

Bob Howard



Location: 000 Reed Mountain Rd Garberville, CA 95542

County: Humboldt

APN: 223044010

Address: PO Box 909 Garberville, CA 95542

Contact Name: Vanessa Valare

Telephone: 760.613.6520/ 707.986.7815

Email: etahumboldt@gmail.com

## Domestic Waste Water

Wastewater is handled with an Onsite wastewater system in the form of a septic tank and leach field. Septic has been perk tested, designed and engineered by PWA. Report can be added if needed.. Septic tank for grey and black water. Septic Tank is 10 ft from residence and is installed according to design schematic and parameters Leach field behind septic.

This septic tank collects waste from kitchen sink, shower and bathroom sinks, toilet in caretakers residence and in processing shop that has one bathroom and one sink. This shop bathroom is for use by the seasonal workers or independent contractors. Waste tanks are serviced as necessary and checked once a year.

Porta potty, if needed