Enchanted Springs Cultivation and Operations Plan for Boise Creek Parcel APN# 522-175-004

This parcel is zoned TPZ but represent an example of the complimentary nature of cannabis and TPZ in combination responsible forestry practices.

The site has been in existence since prior to January 1, 2016.

Site has access to well water. The site uses drip irrigation and supplemental hoses to keep watering as controlled as possible. Meters are used. With minimal watering a 43000 square foot garden can thrive on as little as 200000 gallons of water for the year, but could consume as much as 10 times that amount depending on the growing medium and the gardener.

This site is on a ridge top and all waters flow downhill and away from the cultivation area. Swales will be used to make sure runoff is dealt with responsibly. Roads are out sloped and seasonal measures are taken, such as digging ditches to make sure runoff is directed off of the road way, to control runoff and to ensure proper drainage of rain water.

We have planted the property with Sequoia Gigantea and Port Orford Cedar and other conifers. We regularly clear brush and dead trees to protect the property from fire. We have ditched the winter water that comes off the hillside into the natural slope of the land and down the hillside in a responsible manner which protects the road and graded flat. As in all of our cultivation sites we use Regenerative Organic Agriculture which includes such practices as cover crops, mulching, thermophilic composting, vermicompost to provide beneficial micro biological life and keeping a wide variety of perennial macro life as well, in order to disturb as little of the existing ecosystem as possible and actually add to it in a positive way. We also propagate natural species such as elderberry, huckleberry, wild strawberries, wilds raspberries, native grasses, clover, and different varieties of edible mushroom that thrive on freshly fallen tan oak and provide beneficial fungi back into the surrounding area.

Fertilizers are kept in their respective packaging and also stored inside dry wooden crates in a covered area. All fertilizers are organic and no chemical pesticides or other regulated products are used. The garden is Clean Green Certified but will still be registered with the Department of Pesticide Regulation as a precaution. 9000 Watt Generator on covered platform.

Cultivation sites are two areas of approximate equal size totaling 43000 square feet of outdoor cultivation.

January- Checking over equipment, making necessary repairs, Spreading and maintaining cover crops, spreading natural grass seed, spreading mulch, compost, and hay, spraying property with beneficial microbial life, planting companion winter crops.

February- Starting seed starts in greenhouse, preparing holes, continue spreading compost, spraying property with beneficial microbial life, planting companion plants, set watering schedule for starts. Running generator minimally, using captured rainwater.

March- Transplanting and weeding out plants, taking cuttings, starting seeds, preparing holes, spreading compost and organic fertilizer, spraying property with beneficial microbial life, planting companion plants. Running generator three days a week for 3 hours a day.

April- Transplanting and weeding out plants, taking cuttings, starting seeds, preparing holes, spreading

Enchanted Springs Plot Plan Attachment for Boise Creek Parcel APN# 522-175-004

Owner: Patrick and Katherine Shannon
Applicant: Enchanted Springs

All structures, cultivation sites, and water storage sties were in place prior to January 1st 2016.

Exempt Structure was constructed 4/2013 and has been used for drying and processing. Dimensions: 8X12x 13.5 ft tall (<120 interior square feet)

Water Storage: Tanks include 3 1500 gallon tanks for a total of 4500 gallons;
construction date: 10/2014.

No schools, school bus stops, places of worship, public parks, or Tribal Cultural Resources within 600 ft.

No residences within 300 ft.

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APP # 13201

Update to Cultivation and Operations Plan

1.Elaborate on projected water use:
Calculate water use at roughly between 800-1050 gallons per plant per year based on the following calculations gathered from notions made in the field.

For the first three months of cultivation and the last three months (Fed, Mar, April, Aug, Sept, Oct) the plants requires less than 2 gallons of water per day each. For May and June they need 5 gallons or less per day but for July they need up to 10 gallons per day. The length of time they need extra water varies greatly. And we have much more to learn about reducing water consumption.

240-400 plants reasonably on our site so that puts our estimated water use at 192,000-252,000 gallons if we do 240 plants and 320,000-420,000 if we do 400 plants.

It is worth noting that we are learning that bigger plants spaced out in above ground containers need much more water when compared to plants in the ground that are space relatively closer together in more traditional agricultural formations like trenches. So increasing our plant count may not necessarily lead to more water usage. Sorry for the the varied nature of the response we are experimenting with reducing our water and we have some trenches and some above ground pots. Last year 120 plants which was 1 half acre thrived on 126,000 gallons but we didn't get those numbers on all our sites as there are many variables.

2.Comment on water storage forbearance:
There are three 5000 gallon storage tanks. And soon there will be a 12,000 above ground pool installed. All currently and soon to be located in the area marked on the map as "water storage." There is also an old log pond on the property that is roughly ¼ of an acre still holding roughly 2 to three feet of water (200,000 gallons give or take) by the end of summer.

3.Describe and elaborate on cultivation sites:
There will be two sites off cultivation each equaling 1 half acre totaling 1 acre all together. The sites will be outdoor and will be utilizing light deprivation methods but may or may not do more than one cycle. So far we have only done small light deprivations that get two cycles, not on our entire crop. We are figuring out if we will continue in this direction and whether or not it is actuary more productive. We are leaning toward one cycle but may still use light the deprivation technique.

4.Processing Plan:
Processing will occur in an offsite facility by the professional trimming company Nor Cal Trimmers. We hope to work with them in the future and provide a facility for them to operate here in our area to bring jobs into the community. Currently they are based out of the area and have to rent facilities.

5.Primary power source:
Generators will be the main power source but we are moving towards solar arrays. We have one at each site but they are not currently permanently located. "Silent" generators are used and if necessary custom noise dampeners are used. However we are located far from any other residences or the public.

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