# Summary of Water Consumption for both INDOOR and GREENHOUSE Cannabis Cultivation @ 13350 River Road,LLC <br> Mission Lane @ River Road, San Luis Obispo County <br> Permit No DRC2018-00036 <br> Exceptions to Applicants Environmental Submittals (SCH\# 2019069095) Water Management Water Demand Analysis and Summary 

Sirs:
Based on the applicants stated total of 6.44 acre-feet/year of total water demand. 1.64 acre-feet/year of that total is included in odor control, making the STATED PLANT WATER DEMAND; 4.8 acre-feet/year. We do hereby take exception to the demand factors this applicant has provided for this project as follows:

1) Our annual indoor water demand calculations project a 7.3 acre-feet/year demand (see attached).
2) Our annual greenhouse water demand calculations project a 21.9 acre-feet/year demand (see attached).
3) The plant demand alone for these two cultivation areas would more realistically assess a combined total of 29.2 acre-feet of annual demand.
4) Next, we need to add back the odor control water demand of 1.64 acre-feet which would now total 30.84 acre-feet of ACTUAL annual demand.
5) The applicant would have you believe the combined total of annual demand to be only 6.44 acre-feet. When assessing a more likely 30.84 acre-feet which means that the applicants calculations are $130 \%$ off from what the projects ACTUAL water usage is modestly projected to demand.
6) Finally, when we are left to consider the applicants ANNUAL STATED PLANT WATER DEMAND we are left with extremely low daily water levels that no experienced cannabis farmer would offer as an honest value, relative to the water requirements based on the canopy size offered in their own CEQA project submittals (see attached).

STATED: 4.8 (acre-feet/year) x 325,851 (acre-foot:gal) $=1,564,084$ (annual gal) $\div 365$ (days) $=4,285$ (gal/day)
177,250 (combined sq-ft) $\div 16$ sq-ft (per plant area) $=11,078$ (plants)
4,285 (gal/day) $\div 11,078$ (plants) $=0.38 \mathrm{gal} /$ day $/ 16 \mathrm{sq}-\mathrm{ft}$ area
Under this scenario it will take 2.6 days to accumulate 1 gal of water to feed a single 16 sq-ft area!
We would ask that this project not be approved unless the water demand calculations we've shown here are to be considered in the project's approval. These demands are realistic in terms of the plants uptake requirements but do not include water demand levels for any other use such as wash down, processing, etc. If the project is to be approved, we ask that the water be metered and electronically monitored so that if at any point during the year the applicant exceeds the stated 6.44 acre-feet demand, there will be a "suggested environmental tax" of $\$ 5.00 / \mathrm{gal}$ of water consumed. If at any point during the year the project exceeds a $10 \%$ overage in demand the applicant must agree to shut down their operations for the remainder of that year.

The bottom line is we want, we need honest assessments of what these commercial cannabis facilities are going to do to our environment and adjoining industries if the ACTUAL water demands exceed the STATED demands. We rely on our government to assure us that these projections are accurate. As is currently the case, there is no penalty for an applicant who would understate their water demands in these applications. With the information we've provided herein, the ball is now squarely in your court to make certain these environmental conditions are accounted for.

# Calculating Annual Average Water Consumption for INDOOR Cannabis Cultivation @ 13350 River Road, LLC <br> Mission Lane @ River Road <br> Permit No DRC2018-00036 <br> Exceptions to Applicants Environmental Submittals (SCH\# 2019069095) Water Management Water Demand Analysis 

Sirs:
Based on the applicants stated total of 6.44 acre-feet/year of total water demand (1.64 of that is included in odor control), we do hereby take exception to the demand factors this applicant has provided for this project as follows:

1) For the purposes of this exercise, we are factoring a cannabis plants modestly assessed $3 \mathrm{gal} / \mathrm{day}$ water requirement when grown indoors. This value allows for an average consumption over the life of the plant. We will factor the area per plant water demand at 16 sq -ft per plant. This will account for a single mature flowering plant area calculation as well as multiple plants in that same area while in a vegetative state.
2) When completing CEQA applications the applicant will present the total sq-ft being considered for cultivation. As well as where the water will be coming from and how many gallons/day that operation will require. This will ultimately be converted into an acre-foot/year demand on whatever water supply will be feeding that applicant.

$$
1 \text { acre }=43,560 \text { sq-ft } \quad 1 \text { acre-foot }=325,851 \text { gallons }
$$

3) Here is our project water demand analysis for a 33,250 sq-ft (canopy totals):
$33,250 \mathrm{sq}-\mathrm{ft}$ (Total Area) $\div 16 \mathrm{sq}-\mathrm{ft}$ (per plant area) $=2,078$ plants
2,078 (plants) $\times 3 \mathrm{gal} /$ day water $=6,234 \mathrm{gal} /$ day water
6,234 (gal/day) $\div 325,851$ (gal) $=0.02$ acre-feet/day
$0.02 \times 365$ days $=7.3$ acre-feet/year

# Calculating Annual Average Water Consumption for GREENHOUSE Cannabis Cultivation @ 13350 River Road,LLC <br> Mission Lane @ River Road <br> Permit No DRC2018-00036 <br> Exceptions to Applicants Environmental Submittals (SCH\# 2019069095) Water Management Water Demand Analysis 

Sirs:
Based on the applicants stated total of 6.44 acre-feet/year of total water demand (1.64 of that is included in odor control), we do hereby take exception to the demand factors this applicant has provided for this project as follows:

1) For the purposes of this exercise, we are factoring a cannabis plants modestly assessed $2 \mathrm{gal} /$ day water requirement when grown in a greenhouse. This value allows for an average consumption over the life of the plant. We will factor the area per plant water demand at $16 \mathrm{sq}-\mathrm{ft}$ per plant. This will account for a single mature flowering plant area calculation as well as multiple plants in that same area while in a vegetative state.
2) When completing CEQA applications the applicant will present the total sq-ft being considered for cultivation. As well as where the water will be coming from and how many gallons/day that operation will require. This will ultimately be converted into an acre-foot/year demand on whatever water supply will be feeding that applicant.

$$
1 \text { acre }=43,560 \text { sq-ft } \quad 1 \text { acre-foot }=325,851 \text { gallons }
$$

3) Here is our project water demand analysis for a $144,000 \mathrm{sq}-\mathrm{ft}$ (canopy totals):

144,000 sq-ft (Total Area) $\div 16$ sq-ft (per plant area) $=9,000$ plants
9,000 (plants) $\times 2 \mathrm{gal} /$ day water $=18,000 \mathrm{gal} /$ day water
18,000 (gal/day) $\div 325,851$ (gal) $=0.06$ acre-feet/day
$0.06 \times 365$ days $=21.9$ acre-feet/year

Project Title: DRC2018-00036 13350 River Road LLC (pereviously Dayspring_Pretty) Conditional Use Permit


| Document Type: |  |  |  |
| :---: | :---: | :---: | :---: |
| CEQA: $\square$ NOP <br>  $\square$ Early Cons <br>  $\square$ Neg Dec <br>  $\square$ Mit Neg Dec | Draft EIR <br> Supplement/Subsequent EIR <br> (Prior SCH No.) $\qquad$ <br> Other | NEPA: $\square$ NOI Other: <br>  $\square$ EA  <br>  $\square$ Draft EIS  <br>  $\square$ FONSI  | $\begin{aligned} & \square \text { Joint Document } \\ & \square \text { Final Document } \\ & \square \text { Other } \end{aligned}$ |
| Local Action Type: |  |  |  |
| General Plan Update <br> General Plan Amendment <br> General Plan Element Community Plan | Specific Plan Master Plan Planned Unit Development Site Plan | Rezone Prezone Use Permit Land Division (Subdivision, etc.) | Annexation Redevelopment Coastal Permit Other $\qquad$ |



| A Aesthetic/Visual | $\square$ Fiscal | Recreation/Parks | $\square$ Vegetation |
| :---: | :---: | :---: | :---: |
| $\square$ Agricultural Land | $\square$ Flood Plain/Flooding | $\square$ Schools/Universities | $\square$ Water |
| $\triangle$ Air Quality | $\square$ Forest Land/Fire Hazard | $\square$ Septic Systems | W Water Supply/Groundwater |
| $\square$ Archeological/Historical | $\square$ Geologic/Seismic | $\square$ Sewer Capacity | $\square$ Wetland/Riparian |
| இ Biological Resources | $\square$ Minerals | $\square$ Soil Erosion/Compaction/Grading | $\square$ Wildlife |
| $\square$ Coastal Zone | $\triangle$ Noise | $\square$ Solid Waste | $\square$ Growth Inducing |
| $\square$ Drainage/Absorption | $\square$ Population/Housing Balance | ® Toxic/Hazardous | $\square$ Land Use |
| $\square$ Economic/Jobs <br> Q Other Energy an | Public Services/Facilities reenhouse Gas Emissions | $\square$ Traffic/Circulation | 区 Cumulative Effects |

## Present Land Use/Zoning/General Plan Designation:

## Agriculture

Project Description: (please use a separate page if necessary)
See Attached. This is a revised Draft Mitigated Negative Declaration

Lead Agencies may recommend State Clearinghouse distribution by marking agencies below with and "X". If you have already sent your document to the agency please denote that with an "S".

|  | Air Resources Board |  | Office of Emergency Services |
| :---: | :---: | :---: | :---: |
|  | Boating \& Waterways, Department of |  | Office of Historic Preservation |
|  | California Highway Patrol |  | Office of Public School Construction |
|  | CalFire |  | Parks \& Recreation |
| X | Caltrans District \# 5 |  | Pesticide Regulation, Department of |
|  | Caltrans Division of Aeronautics |  | Public Utilities Commission |
|  | Caltrans Planning (Headquarters) | X | Regional WQCB \# 3 |
|  | Central Valley Flood Protection Board |  | Resources Agency |
|  | Coachella Valley Mountains Conservancy |  | S.F. Bay Conservation \& Development Commission |
|  | Coastal Commission |  | San Gabriel \& Lower L.A. Rivers and Mtns Conservancy |
|  | Colorado River Board |  | San Joaquin River Conservancy |
|  | Conservation, Department of |  | Santa Monica Mountains Conservancy |
|  | Corrections, Department of |  | State Lands Commission |
|  | Delta Protection Commission |  | SWRCB: Clean Water Grants |
|  | Education, Department of |  | SWRCB: Water Quality |
|  | Energy Commission |  | SWRCB: Water Rights |
| X | Fish \& Game Region \# 4 |  | Tahoe Regional Planning Agency |
| X | Food \& Agriculture, Department of | - | Toxic Substances Control, Department of |
|  | General Services, Department of |  | Water Resources, Department of |
|  | Health Services, Department of |  |  |
|  | Housing \& Community Development |  | Other |
|  | Integrated Waste Management Board |  | Other |
|  | Native American Heritage Commission |  |  |

Local Public Review Period (to be filled in by lead agency)

Starting Date December 29, 2020
Ending Date January 31, 2021

## Lead Agency (Complete if applicable):

Consulting Firm: $\qquad$
Address: 976 Osos St Rm 300
City/State/Zip: San Luis Obispo, CA 93401
Contact: Eric Hughes
Phone: 805-781-1591

Applicant: $\qquad$
Address: $\qquad$
City/State/Zip:
Phone: $\qquad$

## Project Description - 13350 River Road LLC (previously Dayspring Pretty) Conditional Use Permit (DRC2018-00036)

Hearing to consider a request by 13350 River Road LLC (previously Dayspring Pretty) for a Conditional Use Permit (DRC2018-00036) to authorize cannabis operations with up to three acres of outdoor cultivation in hoop structures, up to 22,000 square feet of indoor mixed-light cultivation, up to 27,570 square feet of ancillary cannabis nursery, and operation of a non-storefront dispensary. The dispensary, as well as ancillary processing, curing, drying and trimming, and ancillary nursery will occupy a 4,740 square foot existing winery building. The project will include the construction of one greenhouse building with a total combined floor area of 45,000 square feet and the installation of 20,5,000-gallon water storage tanks. In addition, a new 5,000 sq.ft. metal building will be constructed to be used for drying and processing and the placement; one seatrain container will be used for the storage of agricultural equipment. Outdoor cultivation and nursery activities will occur within a total of 63 hoop structures. The project includes a request for an ordinance modification to reduce the required number of parking spaces from 95 to 24 . The project will result in approximately 13.4 acres of site disturbance on an approximately 63-acre parcel located at 13350 River Road, east of the community of San Miguel. The project is within the Agricultural land use category and the Salinas River Sub Planning Area of the North County Planning Area.

The greenhouses will be 14 feet and 4 inches in height. The 20, 5,000-gallon water storage tanks will reach a maximum height of 6 feet 4 inches. The proposed 5,000 sq.ft. processing building will be 35 feet tall and will incorporate design features that resemble a barn.

With the exception of the one ordinance modification discussed below, the project would meet all the requirements of the County Land Use Ordinance (LUO), including:

- Required 1,000-foot setbacks from sensitive receptors for all operations,
- Required 300-foot setbacks from the property line for outdoor cultivation, and
- Required 100-foot setbacks from offsite residences for indoor cultivation.

The regional location of the project site is shown in Figure 1, and an aerial view is provided in Figure 2. Table 1 provides a summary of project components.

Table 1 - Project Components

| Project Component | Structure <br> Size Count | Area (sf) | Canopy (sf) | Canopy (acres) |
| :---: | :---: | :---: | :---: | :---: |
| Outdoor Cultivation |  |  |  |  |
| Hoop Houses Mature/Flowering | $100^{\prime} \times 24^{\prime} \quad 56$ | 159,000 | 127,680 | 2.93 |
| Hoop Houses - Ancillary Nursery | $100^{\prime} \times 24^{\prime}$ | 20,400 | 16,320 | 0.38 |
|  | Total | 179,400 | 144,000 | 3.30 |
| Indoor Cultivation |  |  |  |  |
| Greenhouse - Mature/Flowering | 45,000 sq.ft. 1 | 24,000 | 22,000 | 0.50 |
| Greenhouse - Ancillary Nursery |  | 21,000 | 11,250 | 0.25 |
|  | Total | 45,000 | 33,250 | 0.76 |
| Indoor Processing, Ancillary Nursery and Dispensary |  |  |  |  |
| Indoor Processing | New 5,000 sq.ft. processing building | 5,000 | n/a | n/a |
|  | Total | 5,000 | 0 | 0 |
| Indoor Drying/Curing/Ancillary Nursery | First floor of existing 4,750 sq.ft. former winery building | 640 | $\begin{array}{r} \text { Max. } 640 \\ \text { sq.ft. } \end{array}$ | Max. 0.01 |
| Indoor Processing |  | 1,080 | n/a | n/a |
| Indoor Dispensary Operation |  | 440 | n/a | n/a |
| Indoor Storage |  | 145 | n/a | n/a |
| Indoor Bathroom |  | 65 | n/a | n/a |
| Indoor Processing | Upper floor of existing 4,750 sq.ft. former winery building | 2,370 | n/a | n/a |
|  | Total | 4,740 | 640 | 0.01 |
|  |  |  |  |  |
| Total: |  | $\begin{array}{r} 234,140 \\ \text { (5.3 acres) } \end{array}$ | 177,890 | 4.08 |

## Operations

The project will require a total of 5 full time staff consisting of 4 laborers who will live in the home onsite and a manager, who will arrive at approximately 6:00 am and leave in the afternoon before 2:00 pm. Three times a year, in June, August and late October for harvest, 4 additional employees will be employed onsite for a total of 9 . These harvest times are six days long where the cannabis is cut and hung inside each hoop house or in the existing processing building. Once dried, the onsite staff cut and trim the product.

## Processing

The project proposes to construct a new, 5,000 sq.ft. metal building for processing activities for cannabis products grown on site. In addition, a 4,090 sq.ft. portion of an existing former winery building will be used for processing that would include drying, trimming and curing; no manufacturing or the use of processing machinery is proposed. ). A 640 sq.ft. portion of the ground floor processing area will be used
cyclically for nursery then drying as the crops go through each grow cycle. The water use for this 640 sq. ft . of nursery space is included in the water estimate. This space will be equipped with an odor mitigation system.

Once cannabis products are processed, they would be transported off-site for testing, distribution, and sale. The building is served by eight paved parking spaces, including one space that is American Disability Act (ADA) compliant; the former winery building also includes a restroom and a secure storage area.

## Non-storefront Dispensary

The project proposes to use a 440 sq.ft. portion of the existing winery building for a non-storefront dispensary. The dispensary would include a 145 sq.ft. secure storage area where cannabis products grown and processed on-site will be stored prior to delivery. The dispensary will receive orders over the phone and online and would make up to four delivery runs per day ( $8 \mathrm{am}, 11 \mathrm{am}, 2 \mathrm{pm}$, and 6:30pm). Deliveries will occur via two drivers using two separate vehicles that will be kept onsite during nondelivery hours. Deliveries will be made to cities and counties within the State of California in which cannabis product deliveries are not prohibited. The applicant currently operates a dispensary in the City of Grover Beach with established employee safety protocols that will be applied to this operation.

Security
Access to the site would be directly from River Road by way of a paved driveway that will be gated and locked. While no road improvements are necessary, the applicant will be required to remove existing walls and gates from the County right-of-way (Public Works, September 2018) for which an encroachment permit will be required.

An existing six-foot high fence is located along the property lines fronting River Road and Mission Lane. The cannabis cultivation areas would be enclosed within a 6 -foot tall secure chain-link fence with privacy slats along with an 11 foot tall polyethylene wind screen and vegetative screening for wind break and privacy (Figure 9). Locked gates and motion detection lights (downward facing to reduce light pollution) will be installed for secure access. Lighting associated with the greenhouses would be shielded with blackout screening to prevent views from offsite.

## Odor Management

Odor associated with outdoor cultivation will be managed with the use of setbacks and barriers (hoop house materials and screened fencing) and by conducting processing activities within enclosed buildings. Each of the proposed outdoor cultivation areas will be located a minimum of 300 feet from all property lines. All structures utilized for indoor cannabis cultivation and processing will be equipped with sufficient ventilation controls (e.g. carbon scrubbers) and an odor neutralizing spray to eliminate nuisance odor emissions from being detected offsite. The proposed nursery operation is not anticipated to create any odor issues.

## Water Management

Based on the Water Demand Analysis prepared for the project, project cultivation irrigation activities would result in approximately 6.44 acre-feet of water demand per year, including 1.64 acre-feet per year (AFY) for the proposed odor control systems. Domestic water use for 10 full-time employees has been estimated to result in about 0.1 acre-foot per year.

The project is located in the Paso Robles Groundwater Basin which is designated at Level of Severity III by the County's Resource Management System. However, the site is not located within an Area of Severe Decline. As such, the project will be required to offset the projected water use at a 1:1 ratio in compliance with the Countywide Water Conservation Program (CWWCP).

The project water demand would be served by an existing groundwater well. A total of 11 10,000-gallon water tanks would be installed on the property for seasonal storage of irrigation water.

## Waste Management

All green waste consisting of dead and/or stripped-of-flower plants and soil will be composted onsite and reused. The compost area will be located in the northeast corner of the cultivation fenced area. Two commercial sized dumpsters will be located east of the existing residence for disposal of agricultural production materials and extraneous trash. This location is not visible from offsite due to intervening buildings and vegetation.

The existing on-site septic system would serve the project. Portable restrooms would also be located in the cultivation area. A permanent restroom facility is included within the existing former winery building which is served by an existing on-site septic system. Employees working within the proposed nonstorefront dispensary would utilize the existing permanent restroom facilities.

## Pesticides and Fertilizers

In accordance with LUO Section 22.40.050.C.3. all applications for cannabis cultivation must include a list of all pesticides, fertilizers and any other hazardous materials expected to be used, along with a storage and hazardous response plan. Products used onsite will be stored in two existing 320 sq . ft . seatrain containers within secondary containment in small containers within spill containment bins in the cultivation and nursery environments. Materials will consist of the following:

| Pesticides |  |  | Fertilizers |
| :---: | :---: | :---: | :---: |
| Product | Type | Active Ingredient |  |
| Azadirect | Liquid | Azadirachtin | Seaweed extract |
| Cueva | Liquid | Copper Octanoate | Mammoy p |
| Dipel DF | Powder | Bacillus thurin gienses, su bsp.kurstaki | Azos Mykos |
| DoubleNickel LC | Liquid | Bacillus amyloliquefaciens strain D747 | Potassium nitrate Calcium nitrate |
| Kaligreen | Powder | Potassium bicarbonate | Magnesium nitrate |
| M-Pede | Liquid | Potassium salts of fatty acids | Potassium thiosulfa |
| Mycotrol ESO | Liquid | Beauveria bassiana Strain GHA | Ammonium phosphate |
| Oxidate 2.0 | Liquid | Hydrogen dioxide/Peroxyacetic acid | Mono potassium |
| Oxigreen | Liquid | Peroxyacetic acid/Hydrogen peroxide | phosphate |
| Pest Out | Liquid | Cottonseed, clove garlic oil |  |
| Regalia | Liquid | Reynoutria sachalinensis | Ammonium sulphate |
| Trilogy | Liquid | Clarified hydrophobic extract of neem oil | Magnesium sulphate Iran chelate 13\% |
| Xentari | Powder | Bacillus thurigniensis, subsp. aizawai | Magneseum chelate <br> 13\% <br> Zinc chelate $14 \%$ <br> Copper chelate 14\% |

Ordinance Modification. The project includes a modification from the parking provisions set forth in Section 22.18.050.C. 1 of the County LUO. The type of commercial agricultural use that best matches the proposed cannabis cultivation is "Nursery Specialties" with a parking requirement of one parking space
per 500 square feet of floor area. The combined floor area of the proposed greenhouses and indoor operations is 47,370 square feet which, with the application of this parking standard, would require the applicant to provide 95 parking spaces. The project proposes a total of 24 parking spaces including one space designed to meet Americans With Disabilities standards. Up to ten employees may be on site at various times during the day. Therefore, 24 spaces are sufficient to meet the peak parking demand of the project.

Baseline Conditions. Existing development includes a single-family residence, agricultural accessory structures, a vineyard, and a 4,740 sq.ft. winery building that includes a second-floor vacation rental and a first-floor restroom. In order to comply with LUO Section 20.40.040.Q, Use of a Residence, the project will be conditioned to convert the existing vacation rental ( $2^{\text {nd }}$ floor of winery building) to a nonresidential use.

An existing paved parking area with eight spaces is located next to the winery building and would be used to serve cannabis activities.

The residential, agricultural and winery activities of the project site have historically been served by one existing well. Vineyards have not been cultivated since at least 2013, based on historic aerial photographs. A four-hour pump test performed in February 2018 indicates the existing well provides ample water to serve the proposed cannabis uses.
There has been no cannabis cultivation previously on the project site.

