

**Andre Ducharme
RAM RAM BLISS 2, LLC
Cultivation and Operations Plan
Light Dep/Outdoor
11,762 Sq. Ft. of Cultivation
APN: 216-094-009**



Description of water source, storage, irrigation plan, and projected water usage:

There is a total of 392,000 gallons of storage in three ponds that serve as rainwater catchment vessels. Rainwater that is caught and stored in the ponds is used to fill a number of tanks and bladders. Refer to the following table for specifics:

Number	Type	Gallons each	Total gallons
1	Pond	162,000	162,000
1	Pond	140,000	140,000
1	Pond	90,000	90,000
2	Water bladders	20,000/20,000/15,000	55,000
1	Metal tank	24,000	24,000
7	Tanks	3,000	21,000
2	Tanks	5,000	10,000
3	Tank	1,000/500	2,500
3	Tanks	300	900
		Total Water Storage	505,400

Water for cultivation is applied with a drip irrigation system. Projected use for each of the four light deprivation sites. Two sites require 3,000 gallons per week each. Two sites require 1,500 gallons per week each. Total projected use at these sites is 9,000 gallons per week or 162,000 gallons per 18-week growing season. Projected use for the proposed full-term outdoor garden is 5,000 gallons per week or 90,000 gallons per 18-week growing season. In 2016, a permitted well was installed on the property.

Total projected use for all garden sites is 252,000 gallons for the 18-week season, maybe even a bit more. This estimate is based on historical usage. Timberland Resource Consultants prepared my WRPP, which should have a more exact picture of water systems on the property.

Description of site drainage, including runoff and erosion control measures:

The cultivation sites are flat and the gardens are watered with drip irrigation. The hoop-houses and greenhouse sites have raised beds, and the full term plants would be in Smart Pots. The water application rate is monitored and adjusted to account for climate conditions in order to prevent over or under watering. There is no runoff at any of the cultivation sites.

Detail of measures taken to ensure protection of watershed and nearby habitat:

The cultivation sites are over 150 yards from the one blue line creek on the property. Rainwater is caught off the road, and stored in ponds, and water is applied conservatively to the garden sites to prevent runoff. All organic supplements and nutrients are applied at or below the manufacturer's recommended rates.

The cultivation sites are fenced to prevent wildlife access. All cultivation-related waste is stored in trashcans in a contained area so waste cannot blow away or come in contact with the ground. The generators used for cultivation sit on pallets and gas is stored in a 250 gallon tank in a contained box; same thing with the diesel fuel. The Shop has a permitted septic with leach lines. There is also an outside composting toilet near the shop. The House has a permitted septic as well. The shop is also a propagation/holding area for the babies before replanting.

Protocols for proper storage and use of fertilizers, pesticides and other regulated products utilized:

Organic supplements and nutrients are stored in a secure 16'x20' building with a concrete floor. Nutrients are mixed in that building and then transported to the garden sites in 5-gallon pails with secure lids. Nutrients are applied conservatively and according to manufacturer guidelines.

Description of cultivation activities:

There is one hoop-house site that has five mini-hoop houses. The other three are greenhouse sites. Each of these sites use light deprivation cultivation, approximately 2 runs per season. *There is also one proposed full-term outdoor garden.*

Processing plan:

Plant material is harvested and hang dried in the shop, which is a secure 24'x44' wooden structure with locking doors. Shop was built in 2011. The drying space is cleaned and sanitized between each round of drying. Plant material is checked for contaminants throughout the growing, harvest and drying processes. Any contaminated material is removed immediately and composted well away from the garden and drying sites. *Plant material is processed on-site with a machine.*

Light Deprivation cultivation is proposed: Identify the number of cultivation cycles:

Two cultivation cycles per season are proposed at the hoop-house site and at the three greenhouse sites.

Schedule of activities during each month of the growing and harvesting seasons:

March: Site prep includes amending reused soil and covering beds.

April: Plant the light-dep beds and start covering after two weeks.

May: Leaf, support and amend plants at light-dep sites.

June: Full-season plants go out.

July: Harvest first light-dep run first of the season; re-plant greenhouses and hoop houses; start covering by the end of July.

August: Leaf, support and amend plants at all sites; stop covering light-dep sites around the 15th.

September: Harvest light-dep sites toward the end of September.

October: Harvest full-term plants.

Overwinter: Plant cover crop in garden beds.

Projected generator use:

There is generator/solar power use for about 20-24 hours a day for 2-3 weeks at the beginning of April to supplementally light the hoop houses and greenhouses. There is generator use for about an hour every three days throughout the season to power portable pumps that are used to feed and water.

COMPOSTING TOILET OUTSIDE OF THE SHOP

No Employee's will be needed at this time.

Security plan:

The parcel is accessible via a single road with two locked metal gates, a gate as soon as you leave the county road and another gate at the property line. The location is remote and the terrain is hilly and forested, restricting vehicular access to that single road. The path to the gardens is blocked with a locked gate. All buildings on the property lock and are secure, and all cannabis is stored in a secure, undisclosed location.

Visitors are accepted by appointment only, and regular communication is maintained with neighbors. Someone is present on the parcel at all times during the growing season, and there

are two dogs that alert to visitors. Defensible space is maintained around all structures, and the ponds are kept full for defense in the event of fire.

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We have added more water tanks: 21 tanks x 5000 gal each, 3 tanks x 10,000. On the place of the bladders (2 blue squares, close to pond 1 as per the map attached). Plan is to add more if we can do it financially so we can catch more rain and be able to keep it for the cultivation season.

We asked for permission to relocate Cultivation area #3 and Cultivation area #1 and to move them next to Cultivation area #4. There are several reasons for that:

Location of Area 4 is superior as it is sunnier and easier to access. Roads to this area are less steep and will be easier to maintain throughout time not causing erosion. Being sunnier will decrease use of lights and/or eliminate them all together. It will be beneficial to combine Area 3 and 1 into 4 as being concentrated will make it easier to serve from a manpower standpoint. We are a small family farm and unfortunately cannot afford hiring people to run around between the different hoops. With state and county requirements we do not spend our time only caring for plants anymore but also for administrative work (Metrac for example, which is very time consuming). There is enough space in Area 4 that will not require grading or continued maintenance of the steep road toward area 3. Water system is already in place and there will be less chance for any water leaks and loss of the precious water while serving different areas that are scattered around. Our goal at the end is to create a cannabis farm that can use minimum resources.