Received by HCPBD 11/1/2023

Site Management Plan
Attachment #1
Question answers to long for PDF form

Preparer Name:	See Attachment #4 for info (Jasmine Finley)	**Application Number:**	414695
Email Address:	hhcrbill@gmail.com	**Tier and Risk Designation:**	1 Low
Site Name:	Humboldt Headless Chicken Ranch	**Disturbed Area (ft^2):**	41,380
County:	Humboldt	**Cultivation Area (ft^2):**	41,380
APN(s):	218-151-005	**Cumulative Disturbed Area (ft^2)*:**	
Site Address:	1530 D Road / Garberville, Ca 95542	**Cumulative Cultivation Area (ft^2)*:**	

Q#1
Section : 1.A.ii.f.
Describe the number, spacing, and discharge location of water drainage features.

I have 3 ditch relief culverts (DRC) see map for locations. I have been working with Pacific Watershed Associates(PWA) to minimize any potential erosion problems on my property. At the recommendation of PWA DRC #1 is closely monitored for potential sediment delivery. I have modified D Road above existing access road #1 by out sloping the road to take water off the road rather than contributing to the storm water flow at DRC#1 as recommended by Pacific Watershed Associates. This has minimized flow through DRC #1 and minimized DRC#1's potential to deliver sediment to surface water. See attachment 3, page 27, for photo of out sloped road above DRC #1.

As noted on site map and in WRPP draft prepared by (PWA) DRC#2 does not deliver sediment because of maintained roadways and outlet onto infiltration system in a low grade area upslope of stream #1. See attachment #3, page 21 for photo of vegetated infiltration area.

As noted on the Site Map and in WRPP draft I have an energy dissipater located at DRC #3 outlet. See attachment 3 Page 22 for picture of energy dissipater. I have additionally crowned D Road from the intersection of D Road and Existing Road #3 to 20 feet before DRC #3 as recommended by PWA to minimize flow through DRC #3 as much as possible.

I have two storm water lead off ditches as noted on the site map. See attachment 3, page 32 and 33 for pictures of leadoff ditches.

I have a storm water infiltration area at the bottom of existing access road #3. See attachment #3, page 20 for picture.

Q#2
Section: 1.A.ii.g.

Select the erosion control and sediment capture measures used on the access roads and water drainage features. Check all that apply.

Erosion Control Measures

☐ Erosion control blankets ☐ Geotextiles ☑ Straw mulch ☐ Hydromulch ☐ Wood mulch

☐ ✔ Vegetation Preservation ☑ ✔ Vegetation Planting ☐ Hydroseeding ☐ Vegetated channels

☐ Check dams ☐ Other: _____

Sediment Capture Measures

☐ ✔ Fiber Rolls ☐ Silt fences ☐ Other: _____

Describe the selected measures in the space below

I mulch and erosion control mix bare places before the onset of winter (Note: would like to seed with wild grass mix but cant find native wild grass seed). These places include but are not limited to. Sides of roads, around water storage facilities, around greenhouse.

I limit ATV use on the property in order to preserve as much of the natural vegetation as possible. I have placed fiber rolls anywhere I see natural vegetation showing sings of erosion. One example of this is how I have trenched and fiber rolled the area behind Greenhouse #1 and greenhouse #4, see attachment #3 page7-10 for pictures of fiber roll use.

I use fiber rolls to winterize my seasonal ATV trail. I place them in particular on the quad trail where it runs along stream #1 see site map for location. See attachment # 3, page 19 for picture of ATV trail that will have fiber rolls placed before the onset of winter period. I also assess other roads for fiber roll need each year and will use more fiber rolls if a need arises.

I also have armored outfalls to culverts to preserve natural vegetation below them. I will armor the outfall of the stream crossing located on my property when replaced. I am still waiting on final LSA paperwork and now plan to do the replacement in 2020. I already have a non point form the regional water board for the project.

Q#3
Section: 1.A.ii.h.
h. What activities are done to maintain the roads? What activities are done to maintain erosion control measures? What is the maintenance schedule?

Roads are maintained according to the Handbook for Forest, Ranch, and Rural Roads published by Pacific Watershed Associates in 2015.

Ditches, stream crossings, and Ditch relief culverts are cleaned (with a shovel) and maintained on a monthly at minimum but usually on a weekly basis in the winter months. If rain fall exceeds 1/2 an inch in 24 hours or 1 inch in a week I monitor all ditches and culverts.

Roads are regularly graded and rocked. I assess my roads 1 month before the onset of winter period (Nov. 15th) and 1 month before the end of winter period (April 1st). If the roads need grading or rocking I schedule the work at this time. I hope to have a steady income from my cannabis business to continue improving my roadways. I have invested in blue rock and used it to minimize dust and potential for sediment runoff. It is best to work the roads with some moisture in them so I try to schedule work for directly before or directly after the winter period(November 15- April 1st).

I have a Non-Point from the regional water board and should be receiving the LSA Agreement shortly to up-size the one stream crossing located on my property. Pacific Watershed Associates recommended I up-size the culvert so that it would withstand the 100 year flood. The culvert has never clogged in over 30 years. I will be replacing it to eliminate the potential for problems during flooding as recommended.

DRC's are all monitored regularly. Ditches leading to DRC's are also monitored and worked by hand with a shovel as needed. I monitor DRC's at the same time as I monitor stream crossings

I have natural sediment catch features on my property. These features are notes on the site map and photo's are included in attachment #3, page 20-22. Including a storm water infiltration area at the bottom of Road #3, infiltration area at the outlet of DRC#2, and an energy dissipater at the outlet of DRC#3. I monitor these features when monitoring stream crossings and ditches throughout the winter.

I also straw mulch and seed bare places on the sides of roads with erosion control mix prior to the onset of winter period.

I am always assessing the need for more fiber rolls, straw bales, erosion control seeding, or other practices recommended by the Rural Roads Handbook published by Pacific watershed associates.

Q#4
Section: 1.b.i.a.
a. How is storm water drained from buildings, greenhouses, and other structures? How are stormwater conveyance systems monitored and maintained to protect water quality?

Some buildings are equipped with gutters leading to rainwater catch tanks or outlets onto semi flat ground allowing infiltration of runoff water without sediment transport. Buildings that are not equipped with gutters don't show any sign of erosion. See attachment #3, page 5 & 6 for pictures of buildings showing no sign of erosion.

I monitor all stormwater conveyance systems after it rains 1/2 an inch in 24 hours or 1 inch in seven days. I usually end up monitoring about once a week in the winter months, but it all depends on the weather.

Generally the greenhouses do not create any erosion problems. I do monitor greenhouses regularly throughout the winter to be sure no erosion is starting. The north side of Greenhouse #1 and #4 are equipped with small man made trenches containing fiber rolls that eliminate any potential erosion that could be created by runoff. I have made small trenches that catch run off form the greenhouses and I place a fiber roll in the trench to eliminated the possibility of sediment runoff form the greenhouses. I monitor these fiber rolls any time I monitor other stormwater conveyance systems on site. See attachment #3, page 7-10 for photo's of this fiber roll use.

Q#5
Section: 1.B.iii.a.
a. How will erosion prevention BPTC measures, sediment control BPTC measures, and stormwater conveyance systems be monitored and maintained to protect water quality? Describe all required maintenance tasks and a schedule for implementation.

I will monitor all stream crossings, ditch relief culverts, stormwater conveyance systems, erosion prevention BPTC measures, and sediment control BPTC measures once per month on minimum(usually once per week during the winter). In the winter months monitoring becomes much more frequent. I will monitor any time it rains 1/2 an inch in 24 hours or more than 1 inch in 7 days. I check on any stormwater conveyance systems, erosion prevention, and sediment control measures that are in place to make sure they are doing their job. I then modify or add more BPTC measures as needed.

Before the onset of winter period, meaning before the first rain, I check the Inlets of culverts for debris that could create clogs. I then remove any debris that needs to be removed to allow full function of the culvert during the coming winter period.

Roads are regularly graded and rocked. I assess my roads 1 month before the onset of winter period (Nov. 15th) and 1 month before the end of winter period (April 1st). If the roads need grading or rocking I schedule the work at this time. I hope to have a steady income from my cannabis business to continue improving my roadways. I have invested in blue road and used it to minimize dust and potential for erosion. It is best to work the roads with some moisture in them so I try to schedule work for directly before or directly after the winter period(November 15-April 1st).

I am planning a upsizing on the one stream crossing located on my property. I have a Non-Point from the regional water board (You) and should be receiving the LSA Agreement to up-size the one stream crossing shortly. Pacific Watershed Associates recommended I up-size the culvert so that it would withstand the 100 year flood. The culvert has never clogged in over 30 years. I will be replacing it to eliminate the potential for problems during flooding as recommended. This should help protect water quality long into the future. I plan to replace the culvert in the dry season of 2020. I originally wanted to replace it this year (2019) but have not yet received the LSA so I was not able to do the replacement. The crossing is in a class three stream so timing the replacement in the dry season when the stream is completely dry is what I have planned. Implementation of the plan will now shift to next year(2020).

Q#6
2.C.i.
i. How are bulk fertilizers and chemical concentrates stored, mixed, and applied?

No bulk fertilizer or chemicals are stored on site.

Any left over fertilizer and chemicals are stored in the pesticide and fertilizer storage room that is equipped with non permeable flooring inside of secondary containment totes in the original packaging. In the event that excess bulk fertilizer occurs it will be stored in the Waste storage C-crate.

Note, in the 2019 season I purchased a fertilizer that was higher in nitrogen than past batches I had purchased. This lead to excess fertilizer on site that would not fit in the normal storage location. I then decided to place the fertilizer in the waste storage area (a covered and closed C crate) to prevent any nutrient delivery to waters of the state throughout the coming winter season.

All mixing will take place in the supply shed on the no permeable floor with a secondary containment and spill kit present.

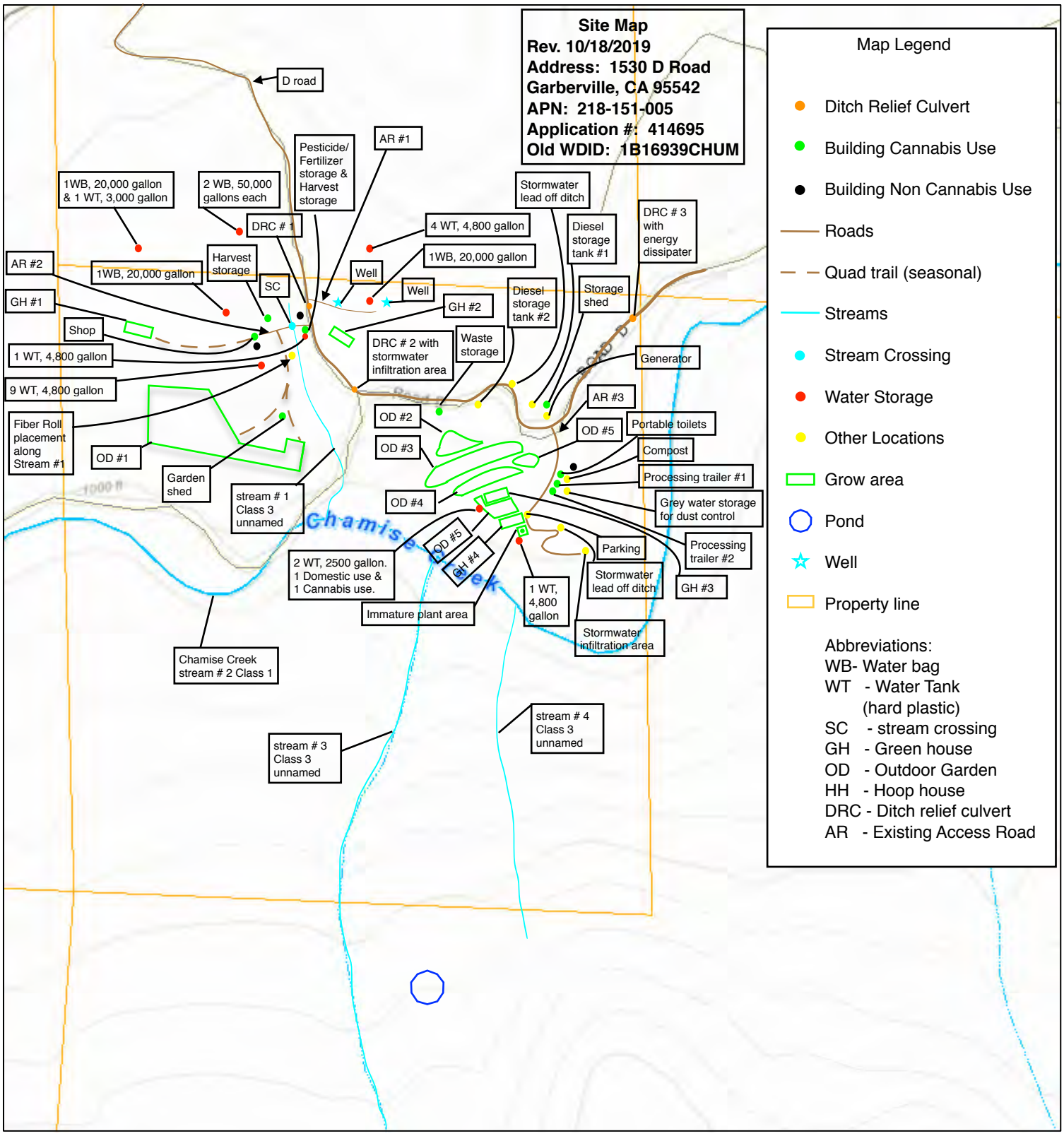
Before making an application, operators will evaluate equipment, weather conditions, and the property to be treated and surrounding areas to determine the likelihood of substantial drift or harm to non-target crops, contamination, or the creation of a health hazard. Applications are made according to the label at recommended rates and amounts or lower than recommended.

Q#7
Section: 4.A. i.
i. What types of trash/ refuse will be generated at the site? Include a description of all solid waste materials(e.g. spent hydroponic growing media, organic materials, plastic, paper, glass, clay, etc.)

I am implementing measures to reduce and/or eliminate cultivation related waste. All plant related material will be composted in covered piles to prevent nutrient transport and will be reused as part of my soils management plan. I compost or burn all my organic material cannabis waste(stems). I currently compost but I am interested in the possibility of creating some bio-char to enrich my soil by burning stems and then adding water. I have not done this yet but may try it in the future, until then I will continue to make compost with the organic waste that can be used to amend older soil so it can be reused.

Pots containing starts and clones will be washed, rinsed, and reused between seasons and recycled at the end of their useful life. I will recycle pesticide and fertilizer containers per California pesticide regulations. I do produce some plastic trash from purchase of soil, amendments, fertilizer, and pesticides. I could forceable produce glass waste as well. I compost cardboard waste if it is not inked and send it with the recycling if it is inked. All associated waste (other than compostable organic material) will be placed in garbage cans with lids or closed trash bags and stored in the covered waste storage area to prevent nutrients from being leached to groundwater or transported to watercourses. I will determine frequency of disposal to permitted disposal sites that prevents rodent infestation and other nuisances on the property. This will likely be done on a bi-weekly schedule during the growing season.

Site Management Plan, Attachment #2 Site Map



ArcGIS Web Map

Humboldt County Planning and Building Department

0 180 360 720 Feet

0 0.0325 0.065 0.13 Miles

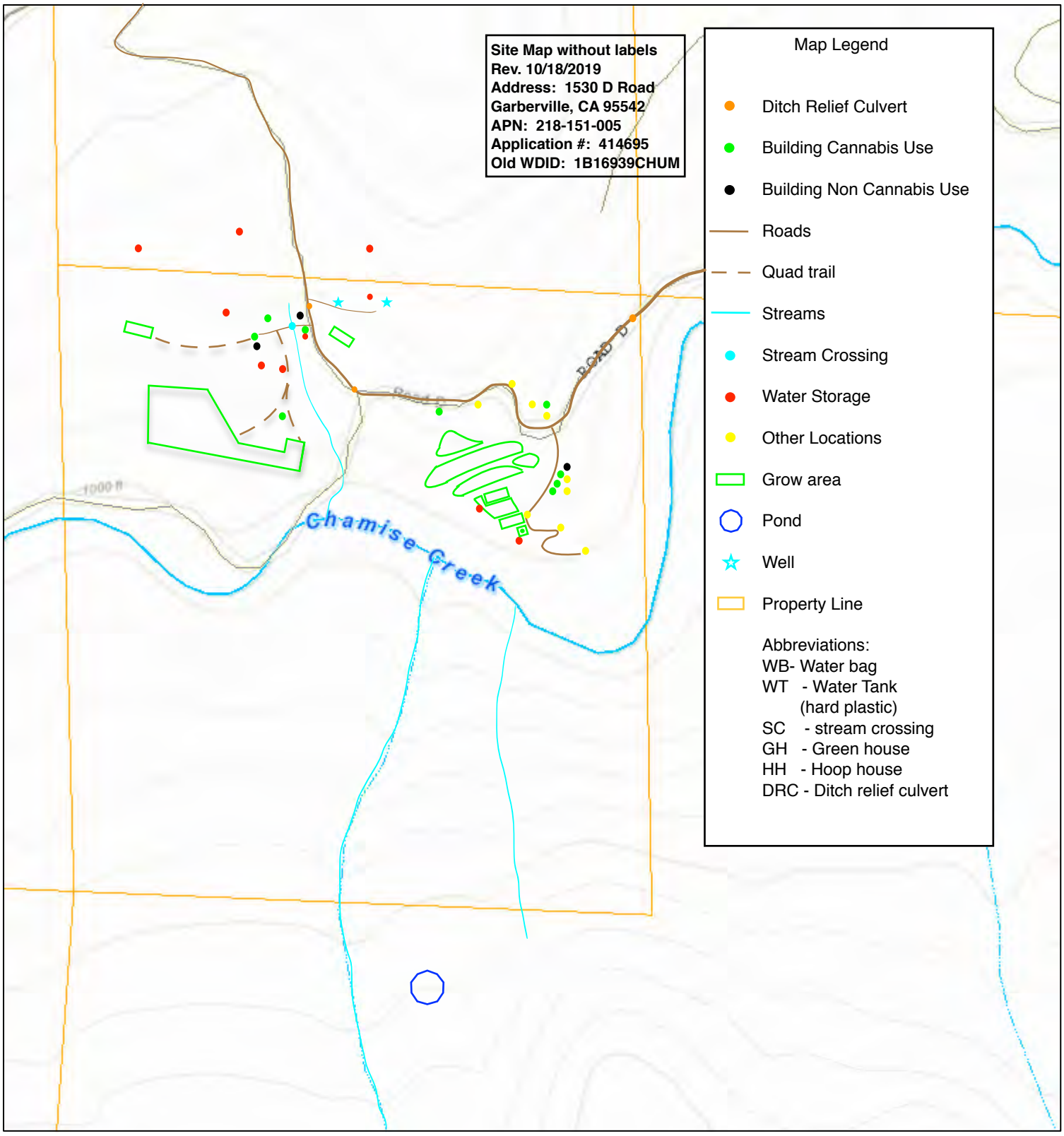
RF= 1:4,514 1 in = 376 ft

Printed: October 1, 2019 Web AppBuilder 2.0 for ArcGIS

Map Disclaimer:
While every effort has been made to assure the accuracy of this information, it should be understood that it does not have the force & effect of law, rule, or regulation. Should any difference or error occur, the law will take precedence.

Source: Humboldt County GIS, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Site Management Plan, Attachment #2 Site Map



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Site Management Plan
Attachment #3
Pictures

Preparer Name:	See Attachment #4 for info (Jasmine Finley)	**Application Number:**	414695
Email Address:	hhcrbill@gmail.com	**Tier and Risk Designation:**	1 Low
Site Name:	Humboldt Headless Chicken Ranch	**Disturbed Area (ft^2):**	41,380
County:	Humboldt	**Cultivation Area (ft^2):**	41,380
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The inlet of one and only stream crossing located on my property. I have LSA in but not complete (do to request for biological study) to upsize this culvert to with stand the 100 year flood. Note, the pipes currently in the culvert will be removed/rerouted when replacement happens. I have received a Non-point for the project. I will also remove the old cement bags that were used to armor the stream inlet.

Stream crossing outlet.

Stream crossing cross-sectional.

Buildings and greenhouses either don't show signs of erosion form rainfall around their eves or have been equipped with gutters and rainwater catch tanks or gutters drain onto semi flat area with ample room for infiltration.

If desired we can photograph every single building but it seems like a bit much, so we just included a few examples of different things done to prevent any potential erosion form buildings. Here is an example of the side of a garden shed not showing any signs of erosion.

Greenhouse not showing erosion

I have placed fiber roll at the end of a man made ditch at the back of greenhouse #1 to remove sediment from water flowing off of greenhouse before it drains from the flat the greenhouse is located on.
The following 4 images are of that ditch and fiber roll set up. I was pleased with how it worked last winter.

No signs of erosion at the side of flat.

Gutters on Cannabis building used for fertilizer and pesticide storage on Site Map. These run into rainwater catchment tank on far side of the building. See site map for location.

Places that are bare and will be mulched with straw and seeded with erosion control mix before the onset of winter period.
I am very religious about using erosion control mix and straw. Some of these ares show old straw form last years implementation of the same practices.
Here is bare ground in Garden #1

Bare ground Garden #1 continued.

Here is Bare ground in Garden #3

Here is bare ground on roadside that needs seed.

Here is bare ground Next to GH #1

Here is bare ground next to GH 4 that will be seeded.

Bare place to be seed garden #4

Location fiber rolls will be placed on seasonal ATV road.

Vegetated infiltration area at bottom of access road #3

Vegetated infiltration area at DRC #2

Energy diffuser At DRC #3

Picture of petroleum storage #1

Petroleum storage #2

Compost Pile

Trash Storage / Temporary emergency bulk fertilizer storage. This past year I bought fertilizer to find it was higher in nitrogen than it had been in the past. Due to the level of nitrogen I could not use it all this year and was forced to find a temporary storage location.

Roads: Out sloped above DRC#1 as recommended by Pacific Watershed Associates.

Roads: blue rock on access road #3

Roads: Blue rock on D road done in 2018

Roads: more blue rock access road #2

Roads: more blue rock different part of D road.

Roads: existing stormwater leadoff ditch D road. Was revegetated after roadwork in 2018.

Roads: existing stormwater leadoff ditch access road #3

Portable toilets. Used onsite.

Site Management Plan
Attachment #4 Preparer Information

This Site Management Plan and all attachments were prepared by Jasmine Finley, from information collected directly from the enrollee, Humboldt Headless Chicken Ranch (Business Owner: William Finley).

I, Jasmine Finley, do not claim any particular title or credential. I have a few family members enrolled under this order so I have tried to familiarized myself with the Site Management Plan requirements.

I apologize in advance if I have not included some needed details. I am doing my best to ensure these farms are complying with the 2019 order and implementing needed BPTC measures before the onset of winter period. I am happy to redraft Site Management Plans and any attachments to include any other needed details. Please let me know if any changes need to be made.

You can contact me, Jasmine Finley at (707)223-3776 with any concerns or details on changes needed. My email is finleyandfriends707@gmail.com