



COUNTY OF HUMBOLDT
PLANNING AND BUILDING DEPARTMENT
CURRENT PLANNING DIVISION

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Phone: (707)445-7541 Fax: (707) 268-3792

Hearing Date: September 21, 2017

To: Humboldt County Planning Commission

From: John H. Ford, Director of Planning and Building Department

Subject: **Humboldt Partner Group Conditional Use Permit**
Application Number 10840
Case Numbers CUP 16-088
Assessor's Parcel Numbers (APN) 316-111-003
19049 State Highway 299, Blue Lake, CA 95525

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Please contact Rodney Yandell, Planner, at 707-268-3732 or by email at ryandell@co.humboldt.ca.us if you have any questions about the scheduled item.

Cc: California Department of Fish and Wildlife

AGENDA ITEM TRANSMITTAL

Hearing Date	Subject	Contact
September 21, 2017	Conditional Use Permit	Rodney Yandell

Project Description: A Conditional Use Permit (CUP) for an existing 11,533 square foot (sf) mixed-light commercial medical cannabis cultivation. All water used for cultivation of cannabis is sourced on-site from a rainwater catchment system located adjacent to Greenhouse #2 (see Plot Plan). This greenhouse is guttered, and intercepted rainwater is conveyed to a series of ten (10) 5,000-gallon storage tanks. The applicant uses two 1,500-gallon tanks to mix nutrients prior to delivery to plants. Additionally, appurtenant processing of cannabis product grown on-site occurs inside an existing shop structure approximately 200 square feet in size. There will be a total of two employees at full operation. The project is estimated to generate approximately 6.4 average daily trips. The property is also developed with an existing single-family residence served by on-site water and sewage disposal systems.

Project Location: The project is located in Humboldt County, in the Redwood Valley area, on the North side of State Hwy 299, approximately 247 feet north from the intersection of State Hwy 299 and Bair Road, on the property known to be in Section 4 of Township 06 North, Range 03 East, Humboldt Base & Meridian.

Present Plan Land Use Designations: Timber Production (T), Framework Plan (FRWK), Density: 160 to 20 acers per dwelling unit, Slope Stability: Moderate Instability (2)

Present Zoning: Timberland Production (TPZ)

Case Number: CUP16-088

Application Number: 10840

Assessor Parcel Number: 316-111-003

Applicant

Humboldt Partner Group
19049 State Highway 299
Blue Lake, California 95525

Owner

Smith Richard D
21 Crest Road
Fairfax, California 94930

Agent

Green Road Consulting
(GRC)
Attn: Kaylie Saxon
1650 Central Avenue, #C
McKinleyville, California
95519

Environmental Review: California Environmental Quality Act (CEQA) Exemption Sections: 15301 (Existing Facilities) of the CEQA State Guidelines.

State Appeal Status: Project is NOT appealable to the California Coastal Commission

Major Issues: None

HUMBOLDT PARTNER GROUP
Case Number CUP16-088
Assessor's Parcel Number 316-111-003

Recommended Commission Action

1. Describe the application as part of the Consent Agenda;
2. Survey the audience for any person who would like to discuss the application;
3. If no one requests discussion, make the following motion to approve the application as part of the consent agenda:

Find the project Categorically Exempt from environmental review pursuant to Sections 15301 of the State CEQA Guidelines, make all of the required findings for approval of the Conditional Use Permit (Conditional Use Permit) based on evidence in the staff report and any public testimony, and adopt the Resolution approving the proposed Humboldt Partner Group Conditional Use Permit subject to the recommended conditions.

Executive Summary: Humboldt Partner Group is seeking a CUP for an existing 11,533 sf mixed-light commercial medical cannabis operation in compliance with the County Commercial Medical Marijuana Land Use Ordinance (CMMLUO). The Project site is comprised of one parcel (APN 316-111-003). Commercial cannabis cultivation currently occurs within two greenhouses located in two separate locations on the 143-acre parcel, identified as Greenhouse #1 and Greenhouse # 2 on the plot plan. Greenhouse #1 is approximately 1,533 sf and is located behind the existing residential dwelling. Greenhouse #2 is approximately 10,000 sf and is located on the southwestern portion of the property. The operation includes both mixed-light cultivation and on-site processing. The Applicant will participate in the Track and Trace program.

In addition to the two greenhouses, there are two other structures on the property: a single-family residence and a shop building. The residence is not used for cannabis related activities. The residence was built on the parcel in 2009 and was permitted through the Humboldt County Building Department. The residential building and shop building use a permitted septic system for onsite wastewater treatment. The shop building is used for cannabis processing. The shop was constructed in 2011 and was permitted by the Building Department. Water for domestic use is provided by a diversion site located within the Class II watercourse on the property. The Applicant has a pending registration filed with the State Water Resources Control Board (WRCB) for Small Domestic Use Appropriation for this water diversion, which provides up to 300 gallons per day for domestic and drinking water usage.

Water

The amount of water used for the cultivation of cannabis varies throughout the year, with peak periods of water use occurring during the summer months. Estimated annual water use for the property is approximately 53,000 gallons. The estimated total annual water availability is 53,000 gallons. All water used for the cultivation of cannabis is sourced on-site from an existing rainwater catchment system, located adjacent to Greenhouse #2. The site includes ten 5,000-gallon hard tanks that provide up to 50,000 gallons of water storage. This greenhouse facility is guttered and supplies the 50,000 gallons of hard tank storage with rainwater, as well as a 1,500-gallon hard water tank that is used to mix nutrients prior to delivery to the plants. There is also a single 3,000-gallon hard water tank located at the diversion site used for domestic purposes. All water used for cultivation is irrigated by an AquaJet underground irrigation system, which allows for the cannabis to be watered at the most efficient rate possible. The Applicant has agreed to

use water meters and install additional water storage tanks if additional water storage is needed, to avoid relying on surface water diversion during the dry season.

There is one Class II watercourse and one Class III watercourse that runs through the property. There are two stream crossings on the Class III watercourse, one of which is a County-maintained road. The Applicant is enrolled in the Tier 2 Discharge Program of the North Coast Regional Water Quality Control Board (NCRWQCB). The Applicant has prepared a Water Resource Protection Plan (WRPP) that is required for enrollment. The WRPP determined that all cultivation sites meet the required buffers for a Tier 2 site (50 feet for Class III and 100 feet for Class II and Class I). The WRPP has also determined that the stream crossings on the site require remediation as the existing culverts are undersized and will need to be replaced with larger sized culverts. As a Condition of Approval, the Applicant will have to submit notification to the CDFW pursuant to Fish and Game Code 1602 for this water diversion and stream crossing sites that need remediation.

Operations (Cultivation and Processing)

Humboldt Partner Group conducts cultivation activities in four cycles with harvests in March, June, August and November. Cultivation activities can change depending on weather and strain. The shop building is used year-round for the development of plants to supply the greenhouses. Since the operation is mixed-light, the Applicant will shield extraneous light during sunset hours to comply with the International Dark Sky Performance Standards.

The shop building is used for processing of the cannabis. These activities include drying, trimming, curing, and storage. The Applicant is exploring options to convert the shop into a commercial building that meets ADA-requirements for use by additional employees or by a third-party licensed processor in the future.

The Applicant has submitted information regarding materials used for pest management, fertilizers and amendments. The WRPP includes information regarding storage and handling of these materials and best management practices (BMPs). All cultivation waste is stored in trash containers and kept on site. Waste is transferred to Humboldt Sanitation and Recycling in McKinleyville, CA. All green waste will be stored away from any watercourses and composted on site.

Energy

The operation is on the grid and supplied by commercial power. The Applicant is working with their energy service provider to secure a more reliable source of power in lieu of having to use backup generators. Any use of backup generators will comply with the noise attenuation measures to avoid harassment of protected species, including the Northern Spotted Owl.

Security

The Applicant has also submitted a detailed security plan including the use of a steel gate at the entrance to the property with an electronic lock and a closed loop camera system that will cover all gates, cultivation and processing areas.

Access

The property is accessible directly off State Highway 299. Parking is available on site.

The 143-acre property used for medical cultivation activity is zoned TPZ. The CMMLUO identified TPZ-zoned parcels 5 acres or larger as sites where existing cannabis cultivation activities could be allowed. Mixed-light cultivation of between 10,000 sf and 22,000 sf acre is allowed subject to the issuance of a CUP. A CUP is a discretionary permit meaning that, to approve the requested

cultivation area, the Planning Commission must consider whether the findings required for permit approval can be met for the described project.

There are no schools, school bus stops, places of worship, public parks or Tribal Cultural Resources within 600 feet of the cultivation or processing areas.

Permits/Approvals

The Building Inspection Division recommends Conditional Approval.

The Department of Public Works recommends Approval.

The Division of Environmental Health recommends Conditional Approval.

The California Department of Fish and Wildlife provided comments.

The Bear River Band Rohnerville Rancheria recommends Conditional Approval.

Staff Recommendation

Based on the on-site inspection, a review of Planning Division reference sources, and comments from all involved referral agencies, planning staff believes that the applicant has submitted evidence in support of making all of the required findings for approving the Conditional Use Permit.

ALTERNATIVES: The Planning Commission could elect not to approve the project, to require the applicant to submit further evidence, or modify the project. These alternatives could be implemented if the Commission is unable to make all of the required findings. Planning Division staff has stated that the required findings in support of the proposal have been made. Consequently, Planning staff does not recommend further consideration of the alternatives.

**RESOLUTION OF THE PLANNING COMMISSION
OF THE COUNTY OF HUMBOLDT
Resolution Number 17-**

**Case Number: CUP 16-088
Assessor's Parcel Number: 316-111-003**

Makes the required findings for certifying compliance with the California Environmental Quality Act and conditionally approves Humboldt Partner Group Conditional Use Permit request.

WHEREAS, Humboldt Partner Group submitted an application and evidence in support of approving the Conditional Use Permit to permit an existing 11,533 square-foot mixed-light cultivation area with onsite processing; and

WHEREAS, the County Planning Division reviewed the submitted application and supporting substantial evidence and referred the application and evidence to involved reviewing agencies for site inspections, comments and recommendations; and

WHEREAS, the project is exempt from environmental review per Sections 15301 (Existing Facilities), of the CEQA Guidelines; and

WHEREAS, Attachment 2 in the Planning Division staff report includes substantial evidence in support of making all of the required findings for approving the proposed Conditional Use Permit (Case Number CUP 16-088); and

WHEREAS, a public hearing was held on the matter before the Humboldt County Planning Commission on September 21, 2017.

NOW, THEREFORE, be it resolved, determined, and ordered by the Humboldt County Planning Commission that the following findings be and are hereby made:

1. The proposed project is exempt from environmental review pursuant to Sections 15301 (Existing Facilities) of the California Environmental Quality Act (CEQA) State Guidelines; and
2. The findings in Attachment 2 of the Planning Division staff report for Case Number CUP 16-088 support approval of the project based on the submitted evidence; and
3. Approves the Conditional Use Permit Case Number CUP 16-088 as recommended and conditioned in Attachment 1 for Case Number CUP 16-088.

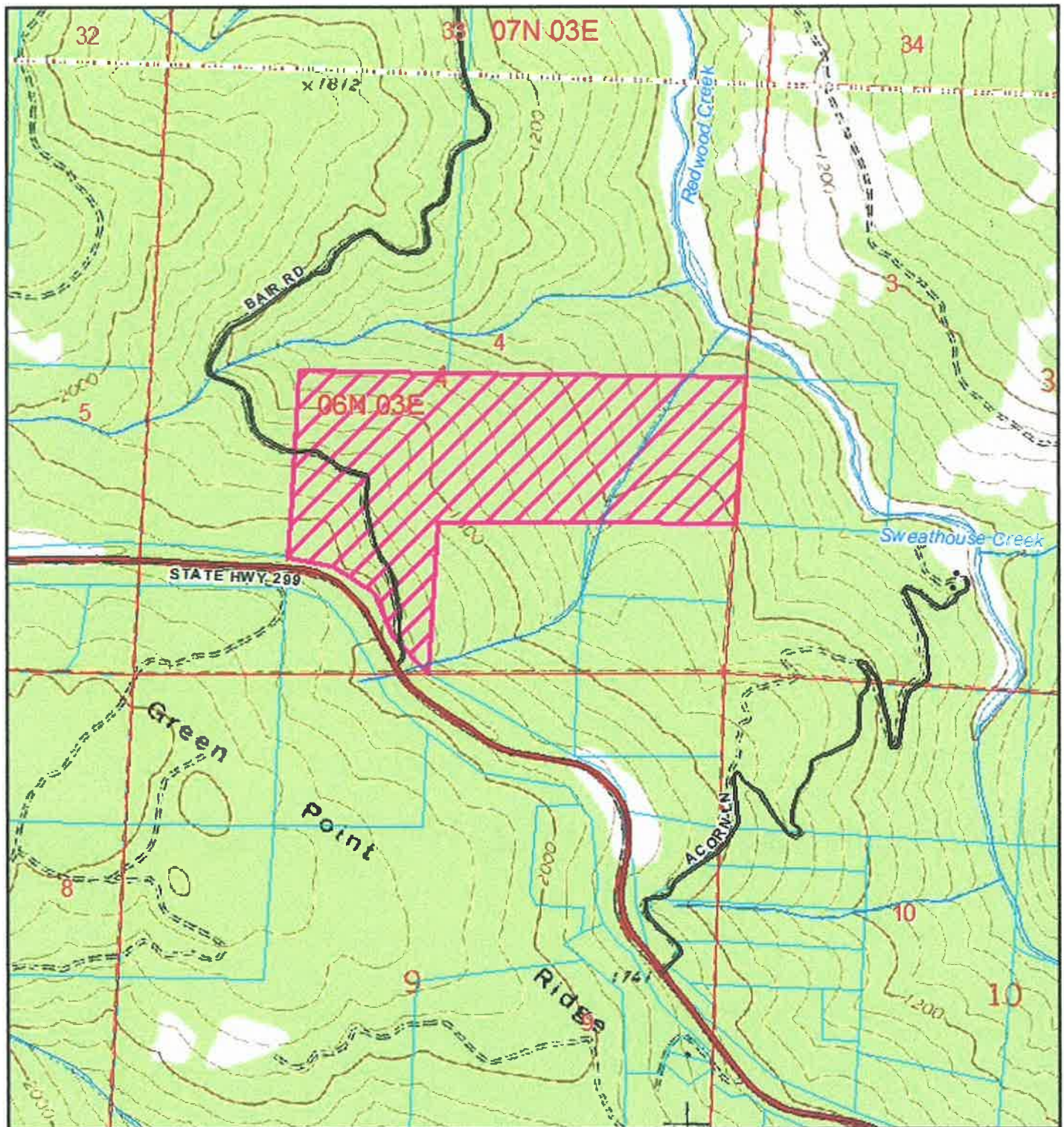
Adopted after review and consideration of all the evidence on September 21, 2017.

The motion was made by COMMISSIONER _____ and second by COMMISSIONER _____:

AYES: COMMISSIONERS:
NOES: COMMISSIONERS:
ABSENT: COMMISSIONERS:
ABSTAIN: COMMISSIONERS:
DECISION:

I, John Ford, Secretary to the Planning Commission of the County of Humboldt, do hereby certify the foregoing to be a true and correct record of the action taken on the above entitled matter by said Commission at a meeting held on the date noted above.

John Ford
Director, Planning and Building Department



TOPO MAP

Project Area = 

**PROPOSED HUMBOLDT PARTNER GROUP
REDWOOD VALLEY AREA**

CUP-16-088

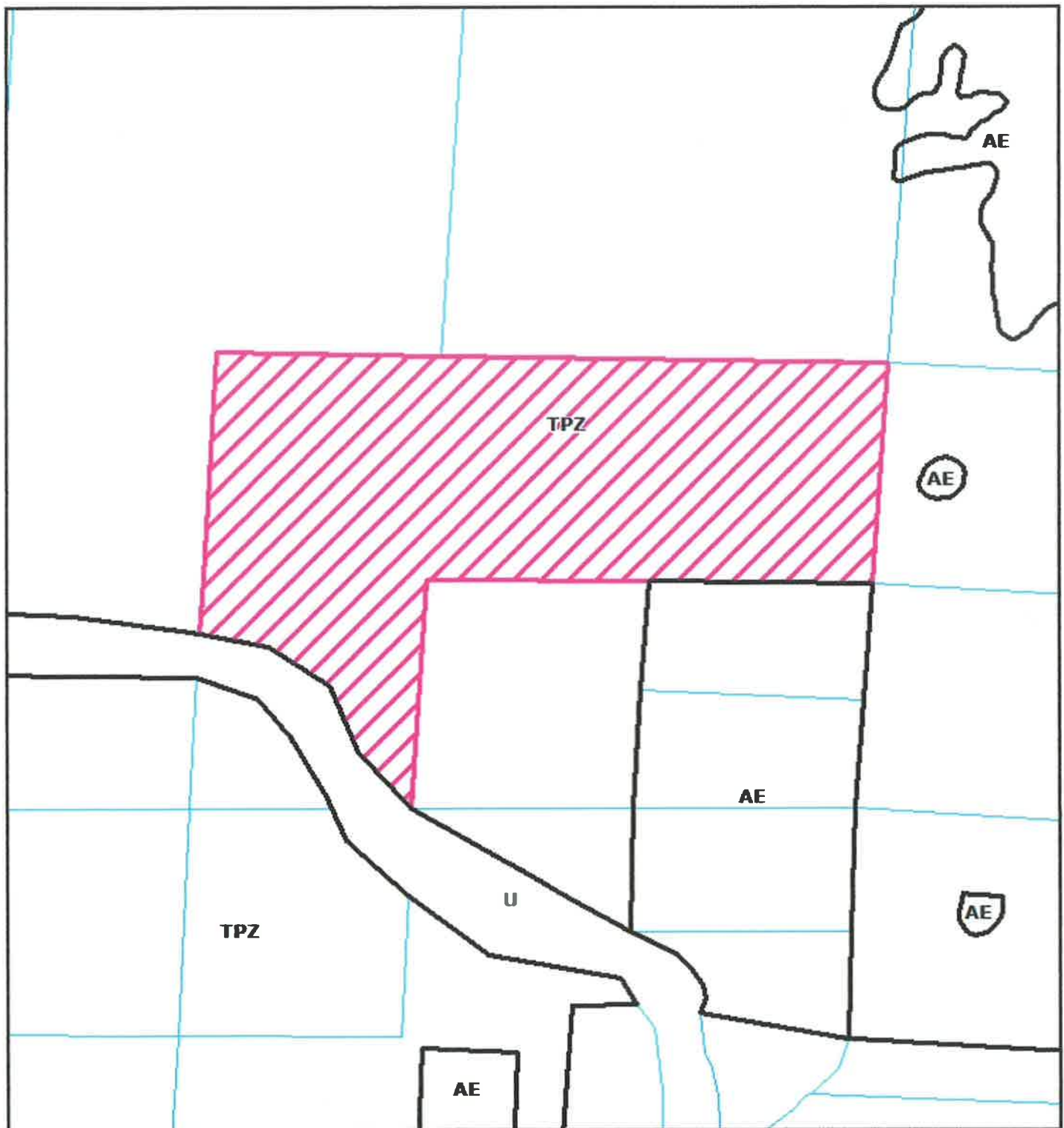
APN: 316-111-003

T06N R03E S4 HB&M (LORD ELLIS SUMMIT)

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.



0 0.25 Miles



ZONING MAP

Project Area = 

**PROPOSED HUMBOLDT PARTNER GROUP
REDWOOD VALLEY AREA**

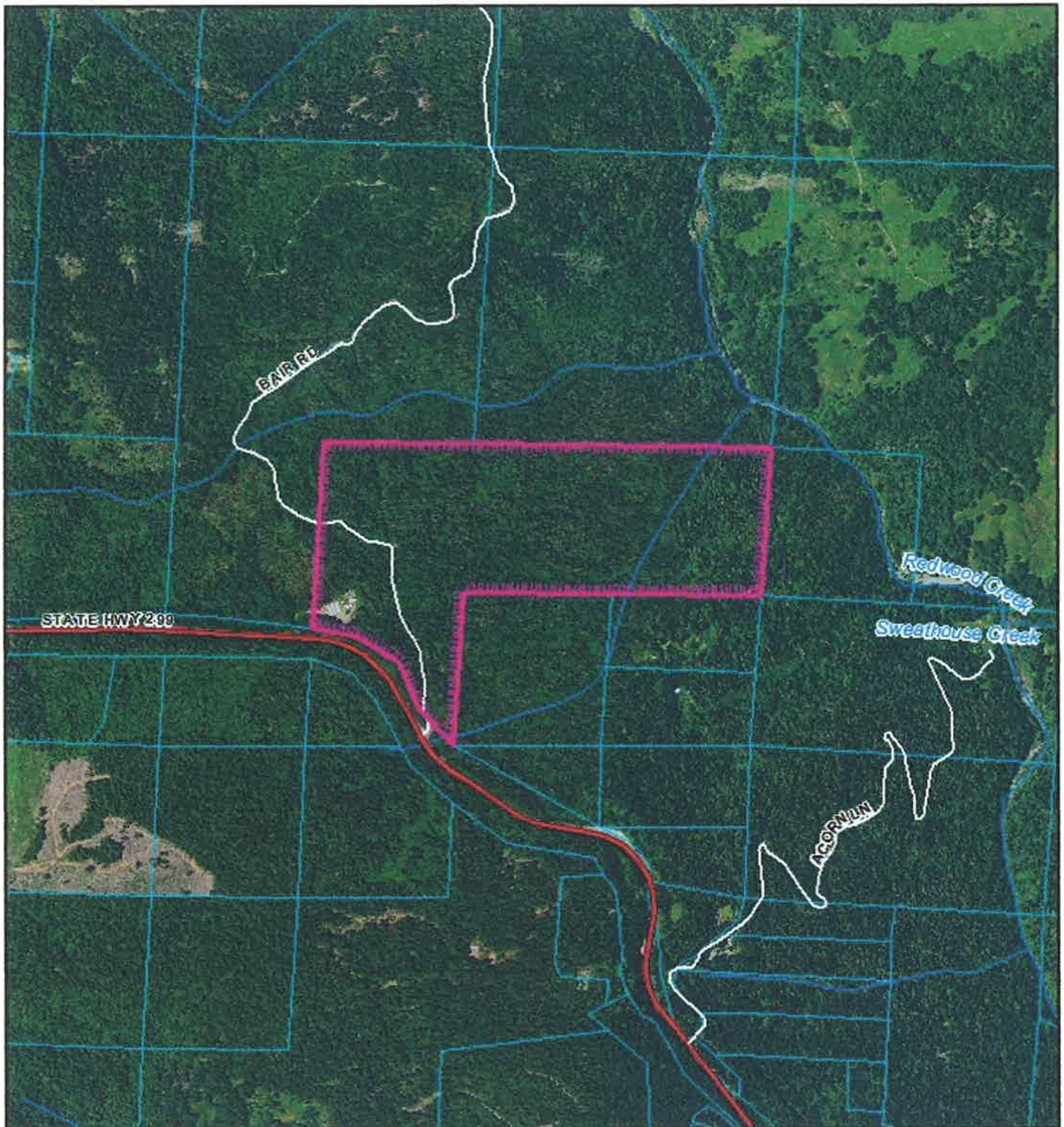
CUP-16-088

APN: 316-111-003

T06N R03E S4 HB&M (LORD ELLIS SUMMIT)

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.





AERIAL MAP

Project Area = 

**PROPOSED HUMBOLDT PARTNER GROUP
REDWOOD VALLEY AREA**

CUP-16-088

APN: 316-111-003

T06N R03E S4 HB&M (LORD ELLIS SUMMIT)

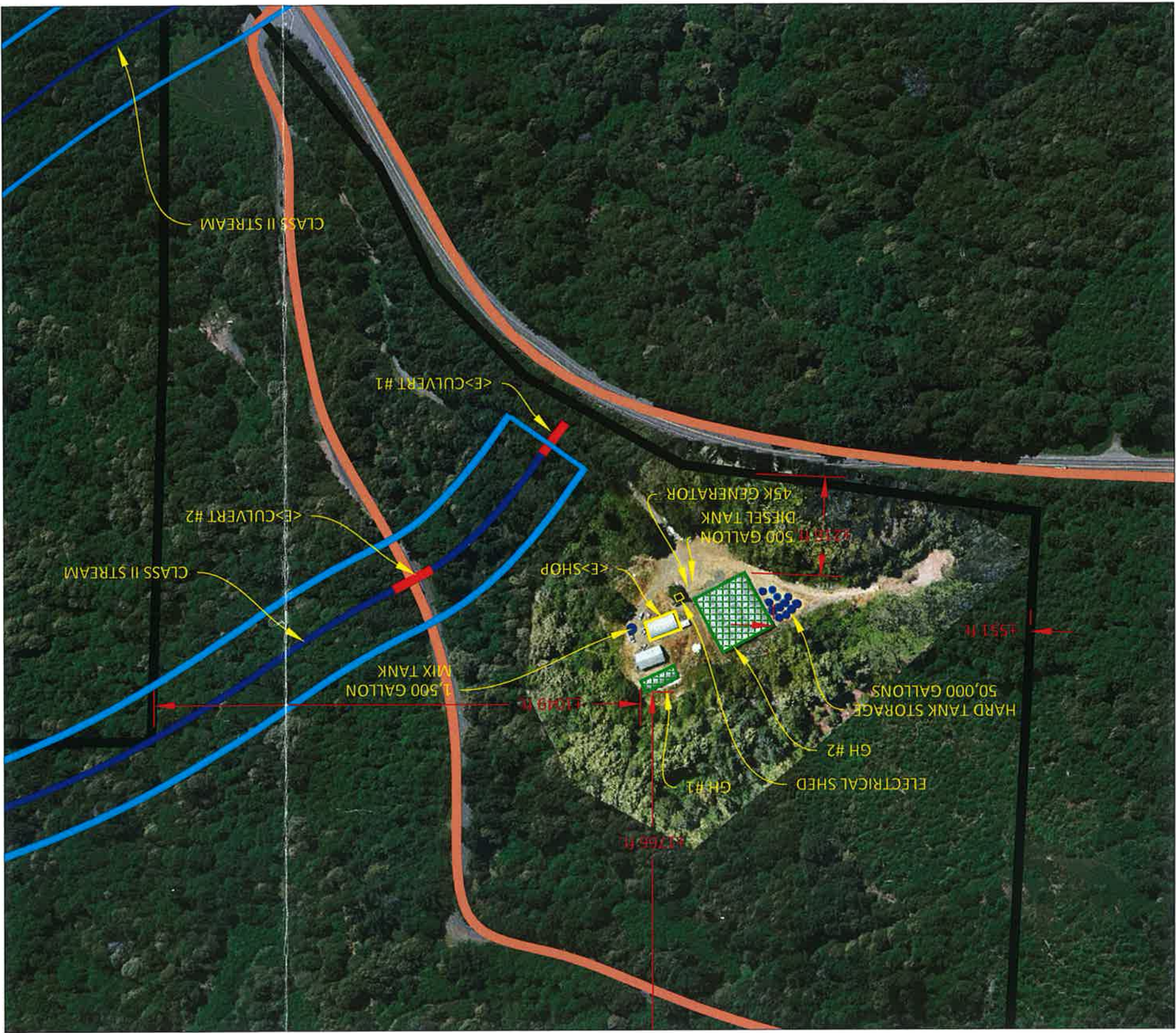
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0 0.25
Miles

CULTIVATION OVERVIEW

APN: 316-111-03



CULTIVATION SITE MAP SUMMARY
SHOWS AND IDENTIFIES ALL BUILDINGS AND FEATURES THAT ARE ASSOCIATED WITH CULTIVATION AND/OR RESTORATION AREAS

CULTIVATION BUILDINGS AND USE

CULTIVATION AREA
GH #1= 1,533 FT²
GH #2 = 10,000 FT²

BUILDING
SHOP - DRYING/CURING
TOTAL MIXED LIGHT CULTIVATION = 11,533 FT²

SURROUNDING BUILDINGS

THERE ARE NO SCHOOLS, BUS STOPS, PLACES OF WORSHIP, PUBLIC PARKS OR TRIBAL CULTURAL RESOURCES WITHIN 600 FEET OF THE CULTIVATION SITE.
THERE ARE NO OFF SITE RESIDENCES WITHIN 300 FEET OF THE CULTIVATION SITE.

CLASS III STREAM WITH THE REQUIRED 50 FT BUFFER ZONE

CLASS II STREAM WITH THE REQUIRED 100 FT BUFFER ZONE



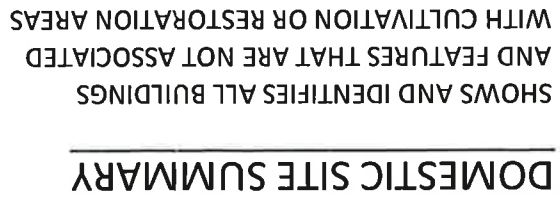
PROJECT INFORMATION
HUMBOLDT PARTNER GROUP
APN: 316-111-03
CULTIVATION OVERVIEW

PROJECT ADDRESS SHEET INFO

REVISIONS
NO. NOTES DATE

DATE 10/28/16
DRAFTER RP
SCALE NOT TO SCALE

CO
SHEET



DOMESTIC BUILDINGS AND USE

TOTAL AMOUNT OF WATER STORAGE= 54,500 GALLONS

WATER SOURCE
DIVERSION SITE

DIVERSION TANK 1 3,000 G

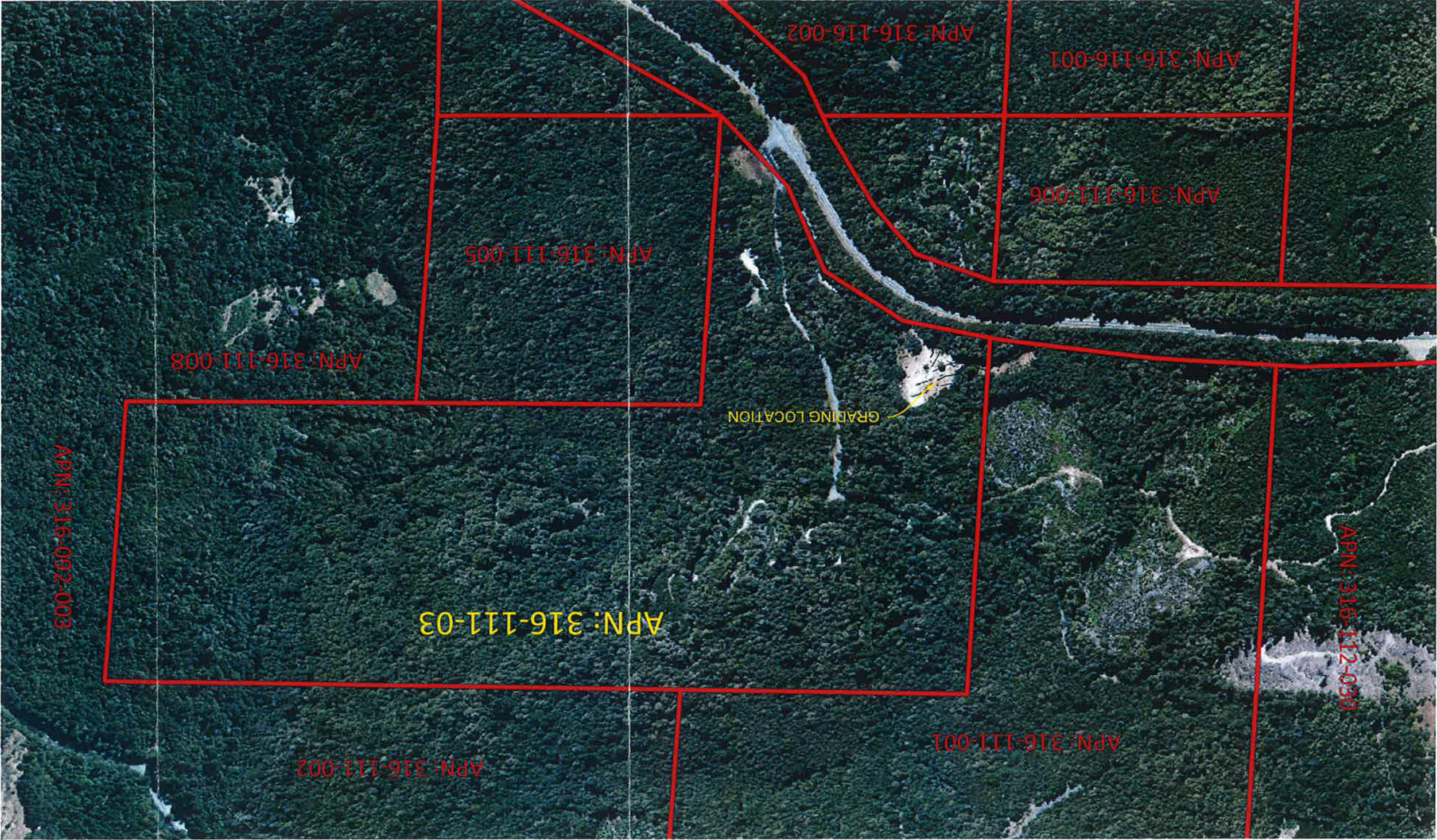
HUMBOLDT PARTNER GROUP

SHEET INFO

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PROJECT
ADDRESS
SHEET INFO

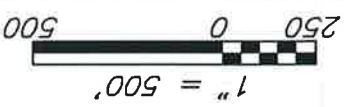
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NOTES:

- 1. PROPERTY LINES AND BUILDING LOCATIONS ARE APPROXIMATE AND BASED ON ASSESSOR MAPS AND AERIAL PHOTOS.
- ZONING: TPZ
- 2.1 FRONT SETBACK = 20'
- 2.2 REAR SETBACK = 30'
- 2.3 SIDE SETBACK = 20-30'
- 2.4 MAX. HT. = 35'
- 3. SITE AREA = 140± ACRES
- 4. WATER = RAIN WATER CATCHMENT

PLOT PLAN
APN: 316-111-03



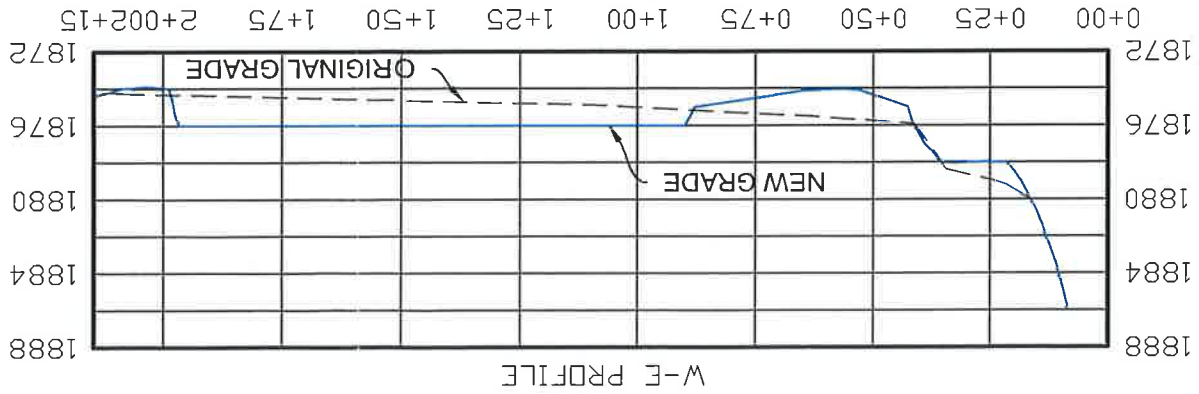
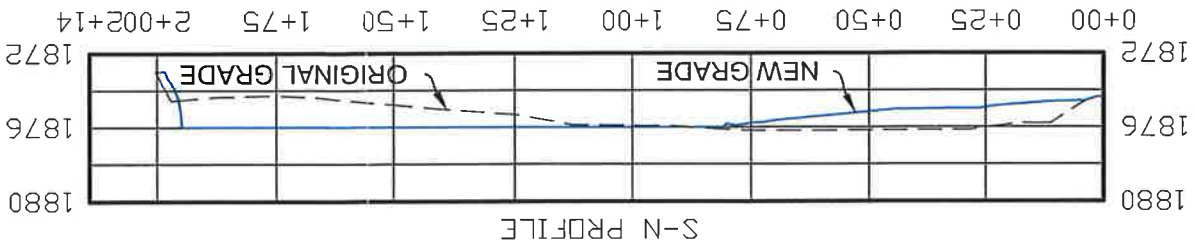
DATE		9/30/16	
DRAFTER		C. BARRETT	
SCALE		AS NOTED	
SHEET		C1	
PROJECT INFORMATION			
PROJECT ADDRESS		HUMBOLDT PARTNER GROUP 19049 ST HWY 299 BLUE LAKE, CA 95525	
SHEET INFO		PLOT PLAN	





Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Grading	1.000	1.000	24,196 Sq. Ft.	411 Cu. Yd.	408 Cu. Yd.	3 Cu. Yd. <i>(cut)</i>
Totals			24,196 Sq. Ft.	411 Cu. Yd.	408 Cu. Yd.	3 Cu. Yd. <i>(cut)</i>



PROJECT SHEET TITLE
APN: 316-111-03



PROJECT INFORMATION
HUMBOLDT PARTNER GROUP
19049 ST HWY 299 BLUE LAKE, CA 95525
GRADING PLAN

SHEET INFO

REVISIONS
NO. NOTES DATE

DATE 9/30/16

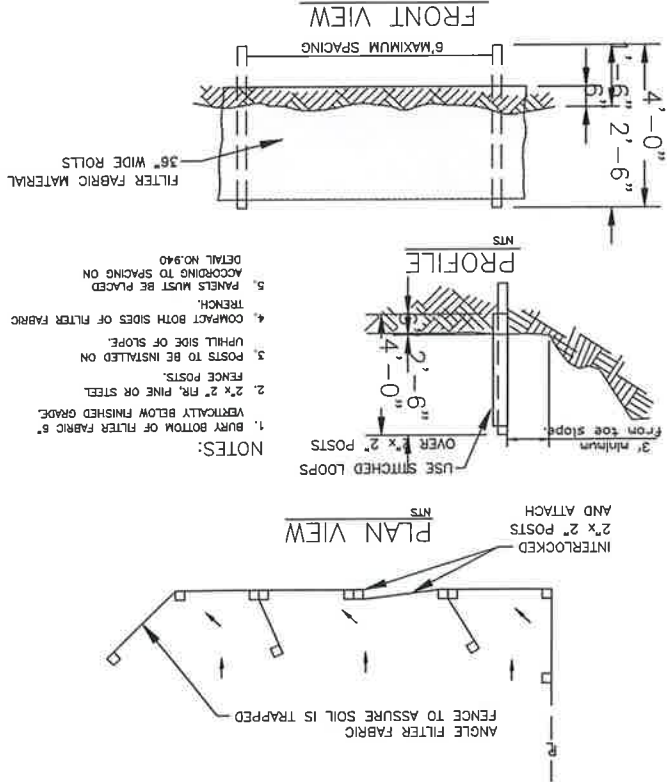
DRAFTER C. BARETT

SCALE AS NOTED

SHEET
G1

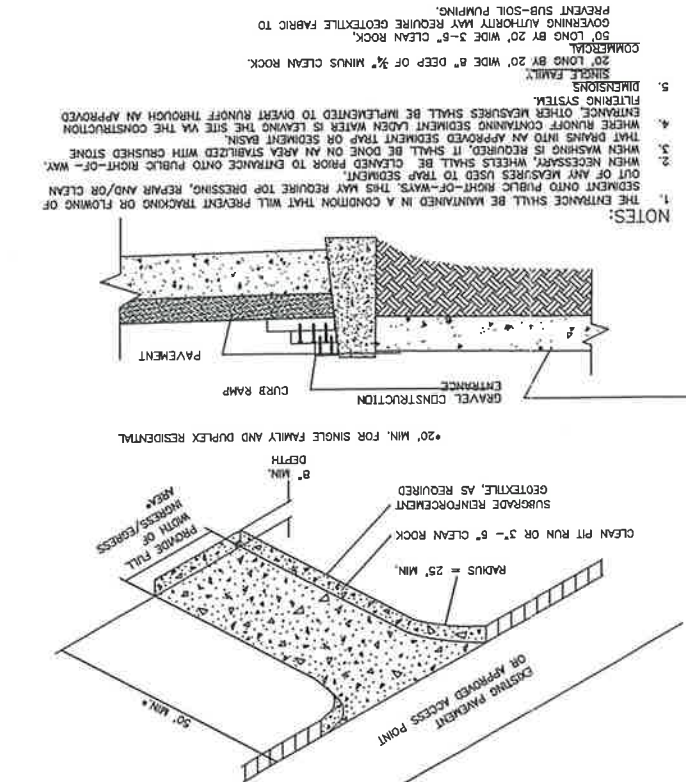
- EROSION AND SEDIMENT CONTROL PLAN NOTES**
1. ON ALL DISTURBED AREAS AS GRADING PROGRESSES.
 2. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND ON SLOPES FROM OCTOBER 1 THROUGH MAY 31 EACH YEAR.
 3. DURING WET WEATHER PERIODS TEMPORARY STABILIZATION OF THE SITE MUST OCCUR AT THE END OF EACH WORKDAY IF RAINFALL IS FORECAST IN THE NEXT 24 HOURS.
 4. ALL EROSION AND SEDIMENT CONTROLS NOT IN THE DIRECT PATH OF WORK MUST BE PRESERVED EXISTING VEGETATION AND RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION.
 5. ALL TEMPORARY SEDIMENT CONTROLS MUST REMAIN IN PLACE UNTIL PERMANENT VEGETATION OR OTHER PERMANENT COVERING OF EXPOSED SOIL IS ESTABLISHED.
 6. SEDIMENT CONTROL MUST BE INSTALLED AND MAINTAINED ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE AT ALL TIMES DURING CONSTRUCTION.
 7. ALL ACTIVE CATCH BASINS SEDIMENT CONTROLS MUST HAVE SEDIMENT CONTROLS WATER-TIGHT TRUCKS MUST BE USED TO TRANSPORT SATURATED SOILS FROM THE DESIGNATED LOCATION USING APPROPRIATE BMPS SOIL MUST BE DRAINED TO THE CONSTRUCTION SITE, AN APPROVED EQUIVALENT TO DRAIN THE SOIL ON-SITE AT A TEMPORARY STABILIZATION OR COVERING OF SOIL STOCKPILES MUST OCCUR AT THE END OF EACH WORKDAY OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT TURBID DISCHARGES TO SURFACE WATERS.
 8. DEVELOP AND MAINTAIN ON-SITE A WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURE.
 9. ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL.
 10. THE PERMITTEE MUST PROPERLY PREVENT AND MANAGE HAZARDOUS WASTES, USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY WASTE, LIQUID WASTE, OR OTHER HAZARDOUS WASTES, WHICH LEAVES THE SITE, MUST BE CLEANED UP WITHIN 24 HOURS AND ANY PLACED BACK ON THE SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSE OF THE SEDIMENT RELEASE MUST BE FOUND AND PREVENTED FROM CAUSING A REOCCURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. INSTREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIME FRAME.
 11. SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATERBODIES. DRY SWEEPING MUST BE USED TO CLEAN UP RELEASED SEDIMENTS.
 12. THE APPLICATION RATE OF FERTILIZERS USED TO RE-ESTABLISH VEGETATION MUST FOLLOW THE MANUFACTURER'S RECOMMENDATIONS. NUTRIENT RELEASES FROM FERTILIZERS TO SURFACE WATERS MUST BE MINIMIZED. TIME RELEASE FERTILIZERS SHOULD BE USED AND CARE SHOULD BE TAKEN IN THE APPLICATION OF FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE.
 13. SEDIMENT MUST BE REMOVED FROM BEHIND A SEDIMENT FENCE WHEN IT HAS REACHED A HEIGHT OF 1/3 THE HEIGHT OF THE FENCE ABOVEGROUND AND BEFORE FENCE REMOVAL.
 14. CLEANING OF TRAPPED CATCH BASINS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY (50) PERCENT, AND AT THE COMPLETION OF A PROJECT.
 15. REMOVAL OF TRAPPED SEDIMENT IN A SEDIMENT BASIN OR SEDIMENT TRAP OR CATCH BASINS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY (50) PERCENT AND AT COMPLETION OF PROJECT.
 16. DEO MUST APPROVE OF ANY TREATMENT SYSTEM AND OPERATIONAL PLAN THAT MAY BE NECESSARY TO TREAT CONTAMINATED CONSTRUCTION DEWATERING OR SEDIMENT AND TURBIDITY IN STORMWATER RUNOFF.
 17. SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR THIRTY DAYS OR MORE, THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD.
 18. SHOULD CONSTRUCTION ACTIVITIES CEASE FOR FIFTEEN (15) DAYS OR MORE ON ANY SIGNIFICANT PORTION OF A CONSTRUCTION SITE TEMPORARY STABILIZATION IS REQUIRED FOR THAT PORTION OF THE SITE WITH STRAW, COMPOST, OR OTHER TACKIFIED COVERING THAT PREVENT SOIL OR WIND EROSION UNTIL WORK RESUMES ON THAT PORTION OF THE SITE.
 19. OWNER OR DESIGNATED PERSON SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS.
 20. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE SLOPES OF THE CLEARING LIMITS, VEGETATED BUFFER, AND ANY SENSITIVE AREAS SHOWN ON THIS PLAN SHALL BE CLEARLY DELINEATED LID IN THE FIELD. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE IS PERMITTED BEYOND THE CLEARING LIMITS. THE OVERSEEDING MUST MAINTAIN THE DELINEATION FOR THE DURATION OF THE PROJECT.
 21. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BMPS THAT MUST BE INSTALLED ARE A GRAVEL CONSTRUCTION ENTRANCE, PERMANENT SEDIMENT CONTROL, AND INLET PROTECT.
 22. IF VEGETATED SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1; THE TYPE AND PERCENTAGES OF SEED IN THE MIX MUST BE IDENTIFIED ON THE PLANS.
 23. THE ESC PLAN MUST BE KEPT ON SITE. ALL MEASURES SHOWN ON THE PLAN MUST BE INSTALLED PROPERLY TO ENSURE THAT SEDIMENT OR SEDIMENT LADEN WATER DOES NOT ENTER A SURFACE WATER SYSTEM, ROADWAY, OR OTHER PROPERTIES.
 24. THE ESC MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE MEASURES SHALL BE UPGRADED AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION CONTROL REGULATIONS.
 25. ALL EXPOSED SOILS MUST BE COVERED DURING THE WET WEATHER PERIOD.

SEDIMENT FENCE



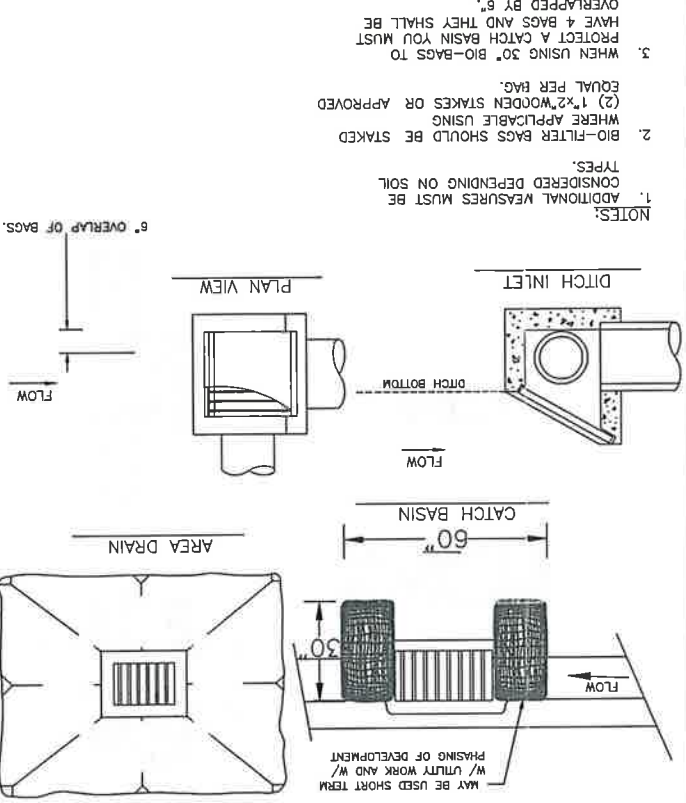
- NOTES:**
1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
 2. 2' x 2" FR. PIPE OR STEEL.
 3. POSTS TO BE INSTALLED ON UP-HILL SIDE OF SLOPE.
 4. COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.
 5. PAVEMENT MUST BE PLACED ON DETAIL NO. 940 ACCORDING TO SPACING ON

CONSTRUCTION ENTRANCE



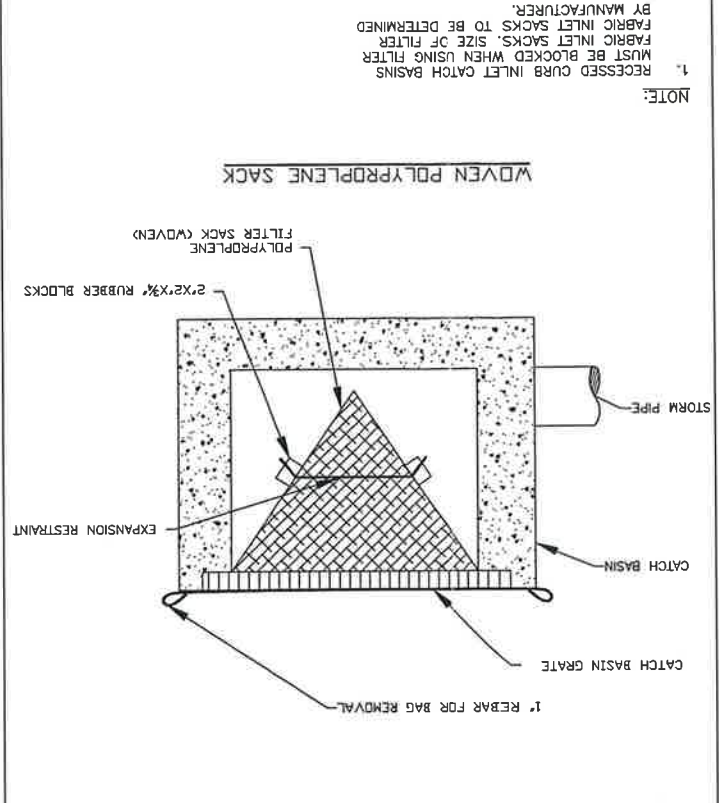
- NOTES:**
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY DEBRIS USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. THAT DRAINING INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
 4. OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED ENTRANCE.
 5. DIMENSIONS: 20' LONG BY 20" DEEP OF 3/4" MINUS CLEAN ROCK. 50' LONG BY 20" WIDE 3/4"-5" CLEAN ROCK. COVERING AUTHORITY MAY REQUIRE GEOTEXTILE FABRIC TO PREVENT SUB-SOIL PUMPING.

INLET PROTECTION TYPE 4



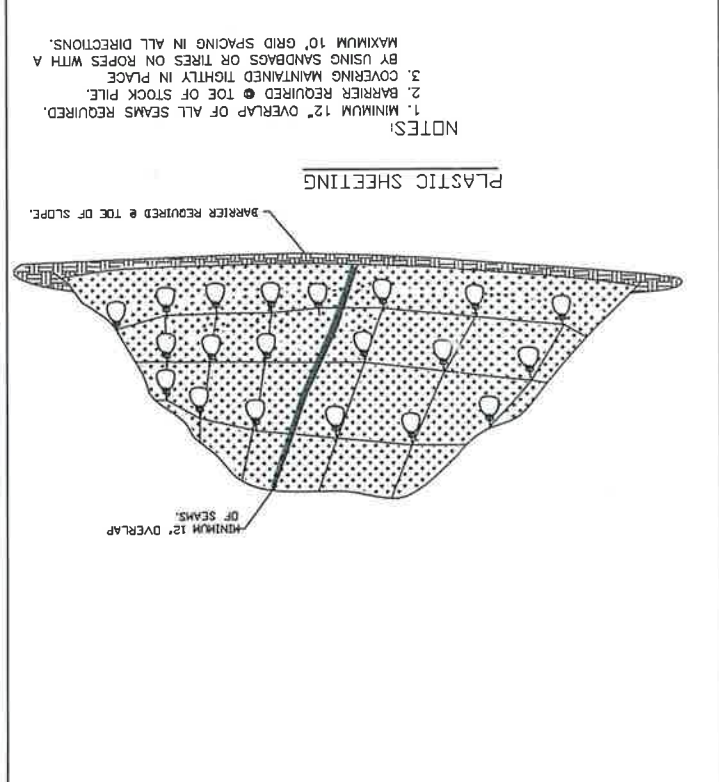
- NOTES:**
1. ADDITIONAL MEASURES MUST BE CONSIDERED DEPENDING ON SOIL TYPES.
 2. BIO-FILTER BAGS SHOULD BE STACKED WHERE APPLICABLE USING (2) 1"x2" WOODEN STAKES OR APPROVED EQUAL PER BAG.
 3. WHEN USING 30" BIO-BAGS TO PROTECT A CATCH BASIN YOU MUST HAVE 4 BAGS AND THEY SHALL BE OVERLAPPED BY 6".

INLET PROTECTION TYPE 5



- NOTE:**
1. RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS. SIZE OF FILTER MUST BE BLOCKED WHEN USING FILTER BY MANUFACTURER.

PLASTIC SHEETING



- NOTES:**
1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
 2. BARRIER REQUIRED @ 10' OF STOCK PILE.
 3. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPE WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.

E1

SHEET

SCALE AS NOTED

DRAWN BY C.BARRETT

DATE 9/30/16

REVISIONS

NO.	NOTES	DATE

PROJECT INFORMATION

PROJECT ADDRESS: 19049 ST HWY 299 BLUE LAKE, CA 95525

HUMBOLDT PARTNER GROUP

EROSION CONTROL DETAILS



ATTACHMENT 1

RECOMMENDED CONDITIONS OF APPROVAL

APPROVAL OF THE CONDITIONAL USE PERMIT IS CONDITIONED ON THE FOLLOWING TERMS AND REQUIREMENTS WHICH MUST BE SATISFIED BEFORE THE PROVISIONAL CANNABIS CULTIVATION PERMIT CAN BE FINALIZED.

1. Within 60 days of project approval, the applicant shall execute a Compliance Agreement with the Humboldt County Planning Department detailing all necessary permits and infrastructure improvements described under Conditions of Approval #2-15. The agreement shall provide a timeline for completing all outstanding items. All activities detailed under the agreement must be completed to the satisfaction of the Planning and Building Department before the permit may be finalized and no longer considered provisional.
2. The applicant shall secure permits for all structures related to the cannabis cultivation and other commercial cannabis activity. A letter or similar communication from the Building Division verifying that all structures related to the cannabis cultivation are permitted will satisfy this condition.
3. The applicant shall submit at least one legible copy of the Water Resources Protection Plan (WRPP) to Planning. The applicant shall implement all corrective actions detailed within the WRPP developed for the parcel, prepared pursuant to Tier 2 enrollment under the North Coast Regional Water Quality Control Board (NCRWQCB) Cannabis Waste Discharge Regulatory Program. A letter or similar communication from the RWQCB verifying that all their requirements have been met will satisfy this condition.
4. The conditions of the Building Inspection Division referrals dated March 3, 2017 and March 23, 2017, included herein as Exhibit A of Attachment 1 shall be completed or secured to the satisfaction of that department. A letter or similar communication from the Building Inspection Division verifying that all their requirements have been met will satisfy this condition.
5. The applicant shall submit a revised Site Plan that shows the location of two on-site parking spaces and they be developed as part of the building permit(s).
6. The conditions of the Division of Environmental Health referral, date stamped June 26, 2017, by the Planning Division, included herein as Exhibit B of Attachment 1 shall be completed or secured to the satisfaction of that department. A letter or similar communication from the Department of Environmental Health verifying that all their requirements have been met will satisfy this condition.
7. The Applicant shall provide the California Department of Fish and Wildlife with all requested notification and reporting information for obtaining a Lake or Streambed Alteration Agreement (LSAA) for the existing water diversion that is used on site. Final LSAA documentation or other communication from the CDFW verifying that this requirement has been met will satisfy this condition.
8. The Applicant shall provide the California Department of Fish and Wildlife with all requested notification and reporting information for all required remediation at the watercourse crossings on site pursuant to fish and Game Code 1602.
9. The applicant shall install an additional hard tank of 5,000 gallons or more to provide sufficient storage for the water needs of their operation.
10. The Applicant shall agree to use a water meter to demonstrate that there is sufficient water supply to meet the demands of the project without having to rely on surface water diversion during the summer months. The Applicant shall install additional water storage tanks if needed. As part of the annual inspection, the applicant shall present water use records

showing water use for the year broken down by month. The water use for cultivation is limited to the amount of water available in storage tanks.

11. The Applicant shall meet all the required site remediation, cleanup and Best Management Practices (BMPs) stated in the WRPP, including the cleanup of trash and remnants of an old trespass grow that is located 100 yards east of the county road on the property. [Note: The County road and surrounding area is prone to dumping and requires additional trash removal on the property. The property should be continually monitored for illegal dumping and cleaned up as needed].
12. If at any time, the Applicant chooses to use generators, the Applicant must notify the County and demonstrate that the generators will not produce noise levels that would result in the harassment of the Northern Spotted Owl species, which are known to occur on the property. The Applicant would have to identify the type and the location of the generator to demonstrate that the noise can be attenuated below 50 dB sound output at 100 feet from the generator or at the edge of the nearest forest habitat, so that protected species are not harassed. These standards are set forth in Section 55.4.11 (o) of the CMMLUO. Prior to issuance of a building permit or the initiation of cultivation activities, whichever occurs first, the applicant shall provide documentation from a qualified professional demonstrating that the generators conform to the specified standard. Should the applicant proposed to achieve noise attenuation by placing the generators inside a building(s), the applicant shall secure a building permit prior to construction.
13. The applicant shall execute and file with the Planning Division the statement titled, "Notice and Acknowledgment regarding Agricultural Activities in Humboldt County," ("Right to Farm" ordinance) as required by the HCC and available at the Planning Division.
14. The applicant shall be compliant with the County of Humboldt's Certified Unified Program Agency (CUPA) requirements regarding hazardous materials. A written verification of compliance shall be required before any provisional permits may be finalized. Ongoing proof of compliance with this condition shall be required at each annual inspection in order to keep the permit valid.
15. The project area has been determined to have potential nesting or roosting habitat for Northern Spotted Owl (*Strix occidentalis caurina*). The following avoidance and minimization measure shall be implemented:
 - a. Prior to tree removal activities, a qualified wildlife biologist with experience in Northern Spotted Owl protocol surveys shall complete a survey of the site to determine if there are trees that could provide nesting or roosting habitat for the Northern Spotted Owl. No tree that could provide suitable nesting or roosting habitat for this species shall be removed or altered.
 - b. No work will occur in the Northern Spotted Owl nesting season (February 1st- July 31st) unless a wildlife biologist with experience in Northern Spotted Owl protocol surveys completes a biological assessment of the property to determine whether the area has Northern Spotted Owl presence and whether site specific avoidance measures are necessary to avoid any impact to the species. Any measures developed by the biologist must be adhered to during the nesting season.
 - c. No proposed activity generating noise levels 20 or more decibels above ambient noise levels or with maximum noise levels above 90 decibels may occur during the Northern Spotted Owl nesting season.

- d. No human activities shall occur within a visual line-of – sight of 40 meters (131 feet) or less from a known nest location.
 - e. For the life of the project, the applicant shall at the time of the annual inspection, submit annual monitoring reports prepared by a qualified wildlife biologist with experience in Northern Spotted Owl protocol surveys for the review and approval of the Planning Director.
16. Within 30 days of application approval, the applicant shall obtain a Business License from the Humboldt County Tax Collector.
 17. A review fee for Conformance with Conditions as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors (currently \$125.00) shall be paid to the Humboldt County Planning Division, 3015 "H" Street, Eureka. This fee is a deposit, and if actual review costs exceed this amount, additional fees will be billed at the County's current burdened hourly rate.
 18. The applicant is required to pay for permit processing on a time and material basis as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors. The Department will provide a bill to the applicant after the decision. Any and all outstanding Planning fees to cover the processing of the application to decision by the Hearing Officer shall be paid to the Humboldt County Planning Division, 3015 "H" Street, Eureka.

Ongoing Requirements/Development Restrictions Which Must be Satisfied for the Life of the Project:

1. All components of project shall be developed, operated, and maintained in conformance with the Project Description, the approved Site Plan, the Plan of Operations, and these conditions of approval. Changes shall require modification of this permit except where consistent with Humboldt County Code Section 312-11.1, Minor Deviations to Approved Plot Plan.
2. If offsite processing is chosen to be the preferred method of processing, this permit shall be modified to identify the offsite licensed facility.
3. Cannabis cultivation and other commercial cannabis activity shall be conducted in compliance with all laws and regulations as set forth in the CMMLUO and MMRSA, as applicable to the permit type.
4. If operating pursuant to a written approved compliance agreement, permittee shall abate or cure violations at the earliest feasible date, but in no event no more than two (2) years from the date of issuance of a provisional clearance or permit. Permittee shall provide plans for curing such violations to the Planning & Building Department within one (1) year of issuance of the provisional clearance or permit. If good faith effort towards compliance can be shown within the two years following the issuance of the provisional clearance or permit, The Planning Department may, at the discretion of the Director, provide for extensions of the provisional permit to allow for additional time to meet the outstanding requirements.
5. Possession of a current, valid required license, or licenses, issued by any agency of the State of California in accordance with the MMRSA, and regulations promulgated thereunder, as soon as such licenses become available.
6. Compliance with all statutes, regulations and requirements of the California State Water Resources Control Board and the Division of Water Rights, at a minimum to include a statement of diversion of surface water from a stream, river, underground stream, or other watercourse required by Water Code Section 5101, or other applicable permit, license, or registration, as applicable.

7. Confinement of the area of cannabis cultivation, processing, manufacture or distribution to the locations depicted on the approved site plan. The commercial cannabis activity shall be set back at least 30 feet from any property line, and 600 feet from any School, School Bus Stop, Church or other Place of Religious Worship, Public Park, or Tribal Cultural Resources, except where a reduction to this setback has been approved pursuant to Section 55.4.11(d).
8. Maintain enrollment in Tier 1, 2 or 3, certification with the North Coast Regional Water Quality Control Board (NCRWQCB) Order No. 2015-0023, if applicable, or any substantially equivalent rule that may be subsequently adopted by the County of Humboldt or other responsible agency.
9. For cultivation area(s) for which no enrollment pursuant to NCRWQB Order No. 2015-0023 is required by that Order, comply with the standard conditions applicable to all Tier 1 dischargers.
10. Comply with the terms of any applicable Streambed Alteration (1600) Permit obtained from the California Department of Fish & Wildlife.
11. Comply with the terms of a less-than-3-acre conversion exemption or timberland conversion permit, approved by the California Department of Forestry and Fire Protection (CAL-FIRE), if applicable.
12. Consent to an annual on-site compliance inspection, with at least 24 hours prior notice, to be conducted by appropriate County officials during regular business hours (Monday – Friday, 9:00 am – 5:00 pm, excluding holidays).
13. Refrain from the improper storage or use of any fuels, fertilizer, pesticide, fungicide, rodenticide, or herbicide.
14. Pay all applicable application and annual inspection fees.
15. Where surface water diversion provides any part of the water supply for irrigation of cannabis cultivation, permittee shall either: 1) forebear from any such diversion during the period from May 15th to October 31st of each year (or whatever is dictated in the final LSAA, whichever is more stringent) and establish on-site water storage for retention of wet season flows sufficient to provide adequate irrigation water for the size of the area to be cultivated, or 2) comply with the approved water management plan prepared by a qualified person such as a licensed engineer, hydrologist, or similar qualified professional, that establishes minimum water storage and forbearance period, if required, based upon local site conditions, or 3) adhere to the RWQCB approved Water Resources Protection Plan or other clearance issued by the agency. If the method of compliance changes during the term of the Conditional Use Permits, permittee shall notify the Planning and Building Department and furnish appropriate documentation of compliance with this standard.
16. At least one water meter shall be installed on the water line providing irrigation flow to the cultivation site. The water meter shall have the capacity to measure at least 100,000 gallons of flow before resetting. The water meter shall be used to measure the amount of water provided to the cultivation area during the forbearance period. The meter shall be installed at a point on the water line that provides an accurate measurement of the water used for irrigation. Household water use at the residence shall be separately metered if required.
17. The noise produced by a generator used for cannabis drying, curing, and processing shall not be audible by humans at neighboring residences. The decibel level for generators measured at the property line shall be no more than 60 decibels. Where applicable, sound levels must also show that they will not result in the harassment of Marbled Murrelet or Spotted Owl species. Conformance will be evaluated using current auditory disturbance guidance prepared by the United States Fish and Wildlife Service, and further consultation where necessary. Under these guidelines, generator noise may not exceed 50dB as measured at 100 feet from the generator or at the edge of the nearest Marbled Murrelet or Spotted Owl habitat, whichever is closer.

18. Storage of Fuel - Fuel shall be stored and handled in compliance with applicable state and local laws and regulations, including the County of Humboldt's CUPA program, and in such a way that no spillage occurs.
19. Pay all applicable taxes as required by the Humboldt County Commercial Marijuana Cultivation Tax Ordinance (Humboldt County Code Section 719-1 et seq.).
20. The operation shall participate in the Medical Cannabis Track and Trace Program administered by the Humboldt County Agricultural Commissioner, when available.

Performance Standards for Cultivation and Processing Operations

21. Pursuant to the MMRSA, Health and Safety Code section 19322(a)(9), an applicant seeking a cultivation license shall "provide a statement declaring the applicant is an 'agricultural employer,' as defined in the Alatorre-Zenovich-Dunlap-Berman Agricultural Labor Relations Act of 1975 (Part 3.5 commencing with Section 1140) of Division 2 of the Labor Code), to the extent not prohibited by law."
22. Cultivators shall 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).
23. Cultivators engaged in processing shall comply with the following Processing Practices:
 - I. Processing operations must be maintained in a clean and sanitary condition including all work surfaces and equipment.
 - II. Processing operations must implement protocols which prevent processing contamination and mold and mildew growth on cannabis.
 - III. Employees handling cannabis in processing operations must have access to facemasks and gloves in good operable condition as applicable to their job function.
 - IV. Employees must wash hands sufficiently when handling cannabis or use gloves.
24. All persons hiring employees to engage in commercial cannabis cultivation and processing shall comply with the following Employee Safety Practices:
 - i. Cultivation operations and processing operations must implement safety protocols and provide all employees with adequate safety training relevant to their specific job functions, which may include:
 - 1) Emergency action response planning as necessary;
 - 2) Employee accident reporting and investigation policies;
 - 3) Fire prevention;
 - 4) Hazard communication policies, including maintenance of material safety data sheets (MSDS);
 - 5) Materials handling policies;
 - 6) Job hazard analyses; and
 - 7) Personal protective equipment policies, including respiratory protection.
 - ii. Cultivation operations and processing operations must visibly post and maintain an emergency contact list which includes at a minimum:
 - 8) Operation manager contacts;
 - 9) Emergency responder contacts;
 - 10) Poison control contacts.
 - iii. At all times, employees shall have access to safe drinking water and toilets and handwashing facilities that comply with applicable federal, state, and local laws and regulations. Plumbing facilities and water source must be capable of handling increased usage without adverse consequences to neighboring properties or the environment.

- iv. On site-housing provided to employees shall comply with all applicable federal, state, and local laws and regulations.

25. All cultivators shall comply with the approved Processing Plan as to the following:

- i. Processing Practices.
- ii. Location where processing will occur.
- iii. Number of employees, if any.
- iv. Employee Safety Practices.
- v. Toilet and handwashing facilities.
- vi. Plumbing and/or septic system and whether or not the system is capable of handling increased usage.
- vii. Drinking water for employees.
- viii. Plan to minimize impact from increased road use resulting from processing.
- ix. On-site housing, if any.

26. Permit Duration. Any Commercial Cannabis Cultivation CUP issued pursuant to this section shall expire after one (1) year after date of issuance, and on the anniversary date of such issuance each year thereafter, unless an annual compliance inspection has been conducted and the permittees, lessees, and the permitted site have been found to comply with all conditions of approval.

If the inspector or other County official determines that the permittees, lessees, or site do not comply with the conditions of approval, the inspector shall serve the CUP or permit holder with a written statement identifying the items not in compliance, and the action that the permit holder may take to cure the non-compliance, or file an appeal within ten (10) days of the date that the written statement is delivered to the permit holder. Personal delivery or mailing the written statement to the mailing address listed on the application by regular mail, plus three (3) days after date of mailing, shall constitute delivery. The permit holder may request a reinspection to determine whether or not the permit holder has cured all issues of non-compliance. Failure to request reinspection or to cure any items of non-compliance shall terminate the Use Permit, immediately upon the expiration of any appeal period, or final determination of the appeal if an appeal has been timely filed pursuant to section 55.4.13.

27. Acknowledgements to Remain in Full Force and Effect. Permittee Acknowledges that the County reserves the right to reduce the size of the area allowed for cultivation under any clearance or permit issued in accordance with this Section in the event that environmental conditions, such as a sustained drought or low flows in the watershed in which the cultivation area is located will not support diversions for irrigation.

28. Transfers. Transfer of any leases or permits approved by this project is subject to the review and approval of the Planning Director for conformance with CMMLUO eligibility requirements, and agreement to permit terms and acknowledgments. The fee for required permit transfer review shall accompany the request. The request shall include the following information:

- (1) Identifying information for the new Owner(s) and management as required in an initial permit application;
- (2) A written acknowledgment by the new Owner in accordance as required for the initial Permit application;
- (3) The specific date on which the transfer is to occur; and

- (4) Acknowledgement of full responsibility for complying with the existing Permit; and
- (5) Execution of an Affidavit of Non-diversion of Medical Cannabis.

29. Inspections. The permit holder and subject property owner are to permit the County or representative(s) or designee(s) to make inspections at any reasonable time deemed necessary to assure that the activities being performed under the authority of this permit are in accordance with the terms and conditions prescribed herein.

Informational Notes:

1. If cultural resources are encountered during ground disturbing activities, the contractor on site shall cease all work in the immediate area and within a 50-foot buffer of the discovery location. A qualified archaeologist as well as the appropriate Tribal Historic Preservation Officer(s) (THPOs) are to be contacted to evaluate the discovery and, in consultation with the applicant and lead agency, develop a treatment plan in any instance where significant impacts cannot be avoided.

The Native American Heritage Commission (NAHC) can provide information regarding the appropriate Tribal point(s) of contact for a specific area; the NAHC can be reached at 916-653-4082. Prehistoric materials may include obsidian or chert flakes, tools, locally darkened midden soils, groundstone artifacts, shellfish or faunal remains, and human burials. If human remains are found, California Health and Safety Code 7050.5 requires that the County Coroner be contacted immediately at 707-445-7242. If the Coroner determines the remains to be Native American, the NAHC will then be contacted by the Coroner to determine appropriate treatment of the remains pursuant to PRC 5097.98. Violators shall be prosecuted in accordance with PRC Section 5097.99

The applicant is ultimately responsible for ensuring compliance with this condition.

2. The applicant is responsible for receiving all necessary permits and/or approvals from other state and local agencies.
3. This permit approval shall expire and become null and void at the expiration of one (1) year after all appeal periods have lapsed (see "Effective Date"); except where construction under a valid building permit or use in reliance on the permit has commenced prior to such anniversary date. Once initiated, the use is subject to the Permit Duration and Renewal provisions set forth in Condition of Approval # 26 and 27 of the On-Going Requirements /Development Restrictions, above. The period within which construction or use must be initially commenced may be extended as provided by Section 312-11.3 of the Humboldt County Code.
4. The applicant is required to pay for permit processing on a time and material basis as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors. The Department will provide a bill to the applicant after the decision. Any and all outstanding Planning fees to cover the processing of the application to decision by the Hearing Officer shall be paid to the Humboldt County Planning Division, 3015 "H" Street, Eureka.



Attachment 1 - Exhibit A

HUMBOLDT COUNTY
PLANNING AND BUILDING DEPARTMENT ~ BUILDING DIVISION
3015 H STREET, EUREKA, CA 95501 ~ PHONE (707) 445-7245

PRE-SITE INVESTIGATION FORM

THIS IS NOT A PERMIT DOCUMENT

APPLICANT INFORMATION

Name Smith Richard D Tr
Address 1 **Address 2** 21 Crest Rd
City Fairfax **State** CA **Zip** 94930

OWNER'S NAME AND MAILING ADDRESS

Name Smith Richard D Tr **E-mail**
Address 1 **Address 2** 21 Crest Rd
City Fairfax **State** CA **Zip** 94930

SITE INFORMATION

Parcel Number 316-111-003-000 **Application Number** 43070
Street Address 19049 St Hwy 299 **City** Blue Lake **State** **Zip**
MS4 Reporting Area No **Project Threat** -

PRESITE INVESTIGATION

Project is already started	AOB Inspection
Soil report is required due to	Project appears to be within wet area
Project is in flood zone A per	FIRM panel number
Flood elevation certificate required	Is 2nd Flood Certificate Required?
Plans stamped by a licensed person required	SRA requirements apply
SRA water storage requirements apply	Lot created prior to 1992
Appr.SRA req. need to be shown on plot plan	Plot plan incomplete, must be revised No
Driveway slope appears to be	Submit engineered foundation for
Grading permit required	Applicant must locate property lines
Incomplete submittal Construction Plan	No Erosion and sediment control measures req.
Other concerns exist	Yes, see expl. below

NOTES

Inspector Notes 3-23-17 G. Dumler

- Recommend conditional approval
- Implement erosion and sediment control plan.
- Protect diesel catchment basin from rainwater.
- Grading has been done.
- Verify/Obtain permits for all grading and tree removal that has been done on parcel.
- Show full scope of grading that has been done on grading plan .
- Declare amount of grading that has been done.
- Indicate on grading plan amount of grading that has already been done and proposed grading to be done.
- Submit R-2 Geo report
- Submit Ag exempt letters of intent for greenhouses.
- Greenhouses are existing.
- Submit floor plans of greenhouses with dimensions, electrical and plumbing details.
- Verify/Obtain permits for all structures on property

Attachment 1 - Exhibit B



**HUMBOLDT COUNTY
PLANNING AND BUILDING DEPARTMENT
CURRENT PLANNING DIVISION
3015 H STREET, EUREKA, CA 95501 ~ PHONE (707) 445-7541**



**PROJECT REFERRAL TO: Health and Human Services Environmental
Health Division**

16/17-0867

Project Referred To The Following Agencies:

Building Inspection Division, Public Works Land Use Division, Health and Human Services Environmental Health Division, Supervising Planner, Current Planning Division, County Counsel, CalFire, California Department of Fish And Wildlife, Northwest Information Center, Bear River Band Rohnerville Rancheria, California Department of Transportation District #1, Regional Water Quality Control Board, Humboldt County District Attorney, Humboldt County Agriculture Commissioner, California Division of Water Resources, Sherriff, US Air Force, US Army, US Navy, US Marine Corps, Green Point School District

Applicant Name Humboldt Partner Group **Key Parcel Number** 316-111-003-000

Application (APPS#) 10840 **Assigned Planner** Michelle Nielsen (707) 268-3708 **Case Number(s)** CUP16-088

Please review the above project and provide comments with any recommended conditions of approval. To help us log your response accurately, please include a copy of this form with your correspondence.

Questions concerning this project may be directed to the assigned planner for this project between 8:30am and 5:30pm Monday through Friday.

County Zoning Ordinance allows up to 15 calendar days for a response. If no response or extension request is received by the response date, processing will proceed as proposed.

☐ If this box is checked, please return large format maps with your response.

Return Response No Later Than Planning Commission Clerk
County of Humboldt Planning and Building Department
3015 H Street
Eureka, CA 95501
E-mail: PlanningClerk@co.humboldt.ca.us **Fax:** (707) 268-3792

We have reviewed the above application and recommend the following:

Conditional Approval

Comments:

DEH recommends approval with the following condition:

(1) **Processing can be approved** if completed by residents of on site dwelling as described to DEH. If processing requires additional staffing expansion of the existing onsite waste treatment system (OWTS) or an additional OWTS may be required.

*This review and recommendation is for the Land Use aspects of the planning project and does not include or imply compliance with all DEH programs. Although DEH recommends the approval of the Planning project, Solid Waste and HazMat Program requirements need to be addressed directly with staff from those programs.

Response Date: 6/21/2017 **Recommendation By:** Mario Kalson



ATTACHMENT 2

Staff Analysis of the Evidence Supporting the Required Findings

Required Findings: To approve this project, the Hearing Officer must determine that the applicant has submitted evidence in support of making **all** of the following required findings.

The County Zoning Ordinance, Section 312-17.1 of the Humboldt County Code (Required Findings for All Discretionary Permits) specifies the findings that are required to grant a Conditional Use Permit:

1. The proposed development is in conformance with the County General Plan;
2. The proposed development is consistent with the purposes of the existing zone in which the site is located;
3. The proposed development conforms with all applicable standards and requirements of these regulations;
4. The proposed development and conditions under which it may be operated or maintained will not be detrimental to the public health, safety, or welfare; or materially injurious to property or improvements in the vicinity;
5. The proposed development does not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law (the mid-point of the density range specified in the plan designation).
6. In addition, the California Environmental Quality Act (CEQA) states that one of the following findings must be made prior to approval of any development which is subject to the regulations of CEQA. The project either:
 - a) is categorically or statutorily exempt; or
 - b) has no substantial evidence that the project will have a significant effect on the environment and a negative declaration has been prepared; or
 - c) has had an environmental impact report (EIR) prepared and all significant environmental effects have been eliminated or substantially lessened, or the required findings in Section 15091 of the State CEQA Guidelines have been made.

1. General Plan Consistency. The following table identifies the evidence which supports finding that the proposed action is in conformance with all applicable policies and standards in the Framework General Plan.

Relevant Plan Section(s)	Summary of Applicable Goal, Policy or Standard	Evidence Which Supports Making the General Plan Conformance Finding
Land Use: Timber Production (T) §2721 (FRWK)	The Timber Production designation is utilized to classify land that is primarily suitable for the growing, harvesting and production of timber. Compatible uses include grazing and other agricultural uses. Density Range: One (1) dwelling unit per 160 acres to one (1) dwelling unit/ per 20 acres	Compatible uses for Timber Production includes grazing and agricultural uses. The MMRSA, Health and Safety Code section 11362.777(a) provides that medical cannabis is an agricultural product, subject to extensive state and local regulation. The subject parcel is zoned TPZ. The proposed action would permit an existing agricultural use. The subject parcel is 143 acres and contains one existing dwelling unit and one shop building.
§2400 Housing (FRWK)	Housing shall be developed in conformity with the goals and policies of the Humboldt County Housing Element.	No housing is proposed. No subdivision is proposed.

§3200 Hazards (FRWK)	New development shall minimize risk to life and property in areas of high geologic, flood and fire hazards.	The subject parcel is in an area shown as moderate slope instability and high fire danger; however, the proposed action would permit an existing activity that does not propose any substantial new development. The site is located in the Blue Lake Fire Response Area. All structures are setback at least 30 feet from the property lines. The cultivation area is located on a site within the property that has been graded and is relatively flat. The cultivation areas are located on 15 percent to 30 percent slopes. The property as whole is located on hilly terrain, with slopes ranging from 30 percent to 50 percent. The potential for mudslide or landslide is considered low. Two quaternary faults are located within 1.0 mile of the cultivation area: The Bald Mountain Big Lagoon Fault Zone and the Grogan Fault. The site is not located
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		within the Alquist Priolo Fault Hazard Zone. However, the area is known for seismic activity and the possibility of seismic damage from fault rupture is considered low. The Humboldt County Building Inspection Department has recommended Conditional Approval and requested a geotechnical investigation to assess the stability for the existing greenhouse structures on the site. A Geotechnical Investigation was prepared by GRC in August 2017 and determined that the existing greenhouse structures would not be impacted from a geotechnical perspective. In addition, the Building Inspection Department requests that the Applicant protect the diesel catchment basin from rainwater, implement an erosion, sediment, and control plan. These have been included as Conditions of Approval. The Building Inspection Department has also requested that the Applicant secure all building and grading permits for any grading that has been done on the property. These requests have been included as a Condition of Approval. The site does not fall within a 100-year or 500-year flood zone. The property is not subject to inundation from tsunami or an upstream dam.
§3420 Biological Resources (FRWK)	§3431 Biological Resource Maps shall be incorporated into the project review process in order to identify sensitive habitat concerns. §3432 Where necessary, the width of the Streamside Management Area (SMA) may be expanded to include areas	The Biological Resource maps of the Framework Plan do not identify any sensitive or critical habitat areas on the subject parcel. However, according to the CDFW, there are reported Northern Spotted Owl observations on the property. The Applicant proposes not to use generators. However, in the event that the Applicant uses generators, the Applicant must notify the County and

	of significant riparian vegetation up to 200 feet. Development allowed instream channels includes agricultural diversions and wells.	demonstrate that the generators will not produce noise levels that would result in the harassment of the Northern Spotted Owl. The Applicant would have to identify the type of generators used on-site and the location of the generator to demonstrate that the noise can be attenuated below 50 dB sound output at 100 feet from the generator or at the edge of the nearest forest habitat, so that protected species are not harassed. These standards are set forth in Section 55.4.11 (o) of the CMMLUO. In addition, a condition of approval has been incorporated to insure Northern Spotted Owl in the area are not harassed by cultivation activities. The 135-acre parcel has two (2) watercourses on the property that are associated with Redwood Creek. The watercourse consist of one Class II and one Class III watercourse. The cannabis cultivation areas are located beyond the 100-foot setback requirement for Class II watercourses and 50-foot setback requirement for Class III watercourses. Domestic water use is currently supplied by a water diversion associated with the Class III watercourse. This diversion supplies approximately 300 gallons per day for domestic use. The residence uses a 3,000-gallon hard tank to store water diverted from the Class II watercourse. The Applicant has filed registration for small domestic use with the State Water Resources Control Board (WRCB). However, this registration is pending. The CDFW has also reviewed this diversion and has concluded that the diversion is jurisdictional to the CDFW. As a Condition of Approval, the Applicant must file notification pursuant to Fish and Game Code 1600. The Project site falls within Tier 2 of the NCRWQCB's Order No. 2015-0023 (Order), which requires preparation of a
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		WRPP to protect water quality from cannabis cultivation and related activities. The applicant retained Green Road Consulting for the preparation of a Water Resource Protection Plan (WRPP). The WRPP has been prepared to describe and address the required elements and compliance with the 12 Standard Conditions established by the Order. The WRPP identified areas where the Project site does not meet all 12 Standard Conditions and set a preliminary schedule prioritizing corrective actions to reach full compliance with the Order. Any identified corrective actions and BMPs in the WRPP are included as conditions of approval. In particular, the WRPP has identified stream crossings on the site that require remediation. The existing culverts are undersized and will be need to be replaced with larger sized culverts. As a Condition of Approval, the Applicant will have to submit notification to the CDFW pursuant to Fish and Game Code 1602 for this water diversion and stream crossing sites that need remediation. Water for the mixed-light cultivation areas is sourced from an onsite rainwater catchment system. The Applicant's usage from April to October is approximately 52,590 gallons. The CDFW has reviewed the estimated water usage and supply information provided by the Applicant and expressed concerns that the approximate 50,000 gallons of water storage is not sufficient to supply cultivation during the dry months without further diverting water from the Class II stream. As a Condition of Approval, the Applicant has agreed to use a water meter and install additional storage in the event that usage is greater than projected. The WRPP has identified a location on the property (Map Point #2) that is a remanence of an old trespass grow that is located 100 yards east of the county
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		road. The area contains old soil, plastic bags, and pvc pipes that are required to be cleaned up and taken to the nearest garbage facility. The County road is prone to dumping and requires additional trash removal on the property.
§3500 Cultural Resource Protection (FRWK)	New development shall protect cultural, archeological and paleontological resources.	The project was referred to the Northwest Information Center (NWIC) and the Bear River Band of the Rohnerville Rancheria. The Bear River Band of the Rohnerville Rancheria recommended a Cultural Resource Investigation. A Cultural Resources Investigation was prepared by William Rich and Associates in May 2017. The results of the investigation indicated that no significant archaeological or historic resources exist on the property. William Rich and Associates recommended no further study and the inclusion of the standard inadvertent discovery condition. The THPO of the Bear River Band of the Rohnerville Rancheria reviewed the investigation and supported the conclusion. This requirement has been added to the conditions of approval to this permit.
Sewage Disposal §4530, 4531.5, 4531.6, 3361.2 (FRWK)	Goal: To ensure a safe means for waste disposal and protect the County's water resources for the public's health and safety. Policy: Septic systems shall not be permitted where the slope exceeds 30% or within 50 feet from an unstable land form. Policy: Sewage disposal systems placed on an existing lot must meet all of the requirements of the Humboldt County Department of Public Health and the North Coast Regional Water Quality Control Board (NCRWQCB). Policy: Regulate development that would pollute watershed areas.	The residence and shop building is served by an onsite septic system that was permitted in 2011. The County's Department of Environmental Health recommends conditional approval for the septic service associated with the shop building, as long as processing activities are conducted by the residents of the onsite dwelling. If processing activities require additional staffing, then additional system will have to be added or the existing onsite waste treatment system can be expanded. Any expansion of service or additional waste systems will have to meet the County's sewage disposal requirements.

Noise §3240 (FRWK)	Conform with noise standards.	The CDFW bio map prepared for the site indicated Northern Spotted Owl observations within the property. As such, the subject parcel is located in an area that requires special noise attenuation measures. However, the Applicant has indicated that they are working with their energy provider to obtain a larger grid power drop in lieu of having to use emergency backup generators.
Access §4220, 4237.7 (FRWK)	Goal: To develop, operate, and maintain a well-coordinated, balanced, circulation system that is safe, efficient and provides good access to all cities, communities, neighborhoods, recreational facilities and adjoining areas. Policy: New Development shall only be approved which will not significantly create or aggravate safety, capacity or parking problems on County roads.	Access to the site is directly off a paved County-maintained public road (Bair Road) and State Highway 299. Department of Public Works stated that the roadway serving the subject property is adequate to accommodate the proposed use.

2. The proposed development is consistent with the purposes of the existing zone in which the site is located; and 3. The proposed development conforms with all applicable standards and requirements of these regulations. The following table identifies the evidence which supports finding that the proposed development is in conformance with all applicable policies and standards in the Humboldt County Zoning Regulations.

Zoning Section	Summary of Applicable Requirement	Evidence
§314-7.4 Timberland Production (TPZ) §314-55.4.8.2 §314-55.4.8.2.2	Grazing and other agricultural uses are principal compatible uses. In all zones consisting of timberland, cultivation shall be permitted in a 3-acre conversion exemption area or in non-timberland open area. Permits for existing outdoor cultivation in zoning districts including TPZ may be issued only when possible to bring them into compliance with all applicable standards. The total cultivation area shall not exceed 1 acre for outdoor cultivation.	The subject parcel is zoned TPZ. The proposed action would permit a mixed-light commercial cannabis cultivation in existence prior to January 1, 2016. The existing cultivation area totals 11,533 sf (0.26 acre).

Zoning Section	Summary of Applicable Requirement	Evidence
Minimum Lot Area:	160 acres; or 40 acres if provisions of §51119.5 are met	The subject parcel is approximately 143 acres.
Max. Lot Coverage:	None specified	N/A
Min. Yard Setbacks	Front: 20 feet Rear: 30 feet Side: 30 feet	According to the submitted Plot Plan, the minimum setbacks for all cultivation areas are as follows: Front: 20 feet Rear: 30 feet Side: 20 feet to 30 feet
Max. Building Height:	None specified	N/A
§314-109.1.3.3: Off-Street Parking:	None specified	According to the applicant's information there will be no more than two people working the site.
314-55.4 Commercial Cultivation, Processing, Manufacturing and Distribution of Cannabis for Medical Use Inland Land Use Regulation (CMMLUO)		
§314-55.4.8.2.2 Existing Outdoor Cultivation and Mixed Light Areas	A Zoning Clearance Certificate, Special Permit or Use Permit may be issued for outdoor or mixed-light commercial cannabis cultivation for some or all of the cultivation area in existence prior to January 1, 2016, in [...] TPZ districts (on parcels of one acre or larger) only when possible to bring them into compliance with all applicable standards set forth in this section and to eliminate existing violations as specified in this ordinance. No expansion of the existing cultivation area shall be permitted. The total cultivation area allowed on a single parcel shall not exceed one acre for outdoor cultivation.	The proposed action will permit an existing mixed-light cannabis cultivation of 11,533 square feet on a parcel zoned TPZ. No expansion of the cultivation area is proposed. New greenhouses would be constructed in existing cultivation areas.
§314-55.4.8.10 Permit Limit	No more than four commercial cannabis activity permits may be issued to a single person.	According to records maintained by the Department, the applicant holds no other cannabis activity permits, and is entitled to four.

Zoning Section	Summary of Applicable Requirement	Evidence
314-55.4.9.4 Pre-Application Registration	All operators of existing cultivation sites seeking recognition of cultivation activities that occurred on or before January 1, 2016, for purposes of obtaining a Zoning Clearance Certificate or discretionary permit for ongoing commercial cannabis cultivation for medical use pursuant to the CMMLUO shall register with the County of Humboldt Department of Planning & Building within 180 days of the effective date of this ordinance.	The applicant submitted the required registration form.
§314-55.4.10 Application Requirements	Identifies the Information Required for All Applications	All the required information was received.
§314-55.4.11 Performance Standards	Identifies the Performance Standards for Cannabis Cultivation Activities	All the applicable performance standards are included as conditions of project approval. They are required to be met throughout the timeframe of the permit.
§314-55.4.17 Sunset Date	No application for any Use Permit pursuant to the CMMLUO shall be processed for issuance or approval that is received after December 31, 2016.	The County acknowledges that the applicant met the appropriate deadline requirements.

4. Public Health, Safety, and Welfare: The following table identifies the evidence which supports finding that the proposed development will not be detrimental to the public health, safety and welfare or materially injurious to properties or improvements in the vicinity.

Code Section	Summary of Applicable Requirement	Evidence that Supports the Required Finding
§312-17.1.4 Permit Findings	The proposed development will not be detrimental to the public health, safety and welfare, and will not be materially injurious to properties or improvements in the vicinity.	The proposed action would permit an existing mixed-light cannabis cultivation operation on a parcel with no immediate neighbors. Permitting the operation would not result in any change to existing conditions that would be detrimental to the public health, safety, and welfare.

5. Residential Density Target: The following table identifies the evidence which supports finding that the proposed project will not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law.

Code Section	Summary of Applicable Requirement	Evidence that Supports the Required Finding
312-17.1.5 Housing Element Densities	The proposed development does not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law (the midpoint of the density range specified in the plan designation), except where: 1) the reduction is consistent with the adopted general plan including the housing element; and 2) the remaining sites identified in the housing element are adequate to accommodate the County share of the regional housing need; and 3) the property contains insurmountable physical or environmental limitations and clustering of residential units on the developable portions of the site has been maximized.	The proposed project involves an existing commercial cannabis cultivation and does not propose any new residences on the subject parcel. The site is zoned TPZ and is designated as Timberland. Therefore, the parcel was not included in the Housing Inventory.

6. Environmental Impact:

Consistent with the California Environmental Quality Act (CEQA), the project was evaluated for any potential adverse effects on the environment. Based on a site inspection, information in the application, a review of relevant references in the Department, and comments from affected agencies, staff has determined that there is no evidence before the Department that the project could have any adverse effect, either individually or cumulatively, on the environment.

The project has been determined to be exempt from CEQA pursuant to Section 15301 - Existing Facilities of the Guidelines for the Implementation of CEQA. Section 15301 exempts from environmental review the permitting of existing facilities involving negligible or no expansion of an existing use. The proposed action would permit an existing commercial medicinal cannabis cultivation and on-site processing operation with no expansion of the existing use.

ATTACHMENT 3

Applicant's Evidence in Support of the Required Findings

Attachment 3 includes a listing of all written evidence which has been submitted by the applicant in support of making the required findings. The following materials are on file with the Planning Division:

1. The name, contact address and phone number(s) of the applicant. (Application form on file)
2. If the applicant is not the record title owner of parcel, written consent of the owner for the application with original signature and notary acknowledgement. (On file)
3. Site plan showing the entire parcel, including easements, streams, springs, ponds and other surface water features, and the location and area for cultivation on the parcel with dimensions of the area for cultivation and setbacks from property lines. The site plan shall also include all areas of ground disturbance or surface water disturbance associated with cultivation activities, including: access roads, water diversions, culverts, ponds, dams, graded flats, and other related features. If the area for cultivation is within $\frac{1}{4}$ mile (1,320 feet) of a school, school bus stop, church or other place of religious worship, public park, or Tribal Cultural Resource, the site plan shall include dimensions showing that the distance from the location of such features to the nearest point of the cultivation area is at least 600 feet. (Attached)
4. A cultivation and operations plan that meets or exceeds minimum legal standards for water storage, conservation and use; drainage, runoff and erosion control; watershed and habitat protection; and proper storage of fertilizers, pesticides, and other regulated products to be used on the parcel, and a description of cultivation activities (outdoor, indoor, mixed light), the approximate date(s) cannabis cultivation activities have been conducted on the parcel prior to the effective date of this ordinance, if applicable, and schedule of activities during each month of the growing and harvesting season. (Attachment 3)
5. Copy of the statement of water diversion, or other permit, license or registration filed with the State Water Resources Control Board (WRCB), Division of Water Rights, if applicable. (On-file)
6. Description of water source, storage, irrigation plan, and projected water usage. (Attachment 3)
7. Copy of Notice of Intent and Monitoring Self-Certification and other documents filed with the NCRWQCB demonstrating enrollment in Tier 1, 2 or 3, NCRWQCB Order No. 2015-0023, or any substantially equivalent rule that may be subsequently adopted by the County of Humboldt or other responsible agency. (Attachment 3)
8. If any on-site or off-site component of the cultivation facility, including access roads, water supply, grading or terracing impacts the bed or bank of any stream or other watercourse, a copy of the Streambed Alteration Permit obtained from the Department of Fish & Wildlife. (On File)
9. If the source of water is a well, a copy of the County well permit, if available. (Not applicable)
10. If the parcel is zoned FR, U, or TPZ, or involves the conversion of timberland as defined under section 4526 of the Public Resources Code, a copy of a less-than-3-acre conversion exemption or timberland conversion permit, approved by the California Department of Forestry and Fire Protection (CAL-FIRE). Alternately, for existing operations occupying sites created through prior unauthorized conversion of timberland, evidence may be provided showing that the landowner has completed a

civil or criminal process and/or entered into a negotiated settlement with CAL-FIRE. (Not applicable)

11. Consent for onsite inspection of the parcel by County officials at prearranged date and time in consultation with the applicant prior to issuance of any clearance or permit, and once annually thereafter. (On-file)
12. For indoor cultivation facilities, identify the source of electrical power and how it will meet with the energy requirements in section 55.4.8.2.3, and plan for compliance with applicable Building Codes. (Not applicable)
13. Acknowledge that the County reserves the right to reduce the size of the area allowed for cultivation under any clearance or permit issued in accordance with this Section in the event that environmental conditions, such as a sustained drought or low flows in the watershed will not support diversions for irrigation. (On-file)
14. Acknowledge that the county reserves the right to engage with local Tribes before consenting to the issuance of any clearance or permit, if cultivation operations occur within an Area of Traditional Tribal Cultural Affiliation, as defined herein. This process will follow current departmental referral protocol, including engagement with the Tribe(s) through coordination with their Tribal Historic Preservation Officer (THPO) or other Tribal representatives. This procedure shall be conducted similar to the protocols outlined under SB 18 (Burton) and AB 52 (Gatto), which describe "government to government" consultation, through Tribal and local government officials and their designees. During this process, the Tribe may request that operations associated with the clearance or permit be designed to avoid, minimize or mitigate impacts to Tribal Cultural Resources, as defined herein. Examples include, but are not limited to: conducting a site visit with the THPO or their designee to the existing or proposed cultivation site, requiring that a professional cultural resources survey be performed, or requiring that a Tribal cultural monitor be retained during project-related ground disturbance within areas of sensitivity or concern. The county shall request that a records search be performed through the California Historical Resources Information System (CHRIS). (On-file)
15. Water Resources Protection Plan (On-file)
16. Preliminary Geotechnical Engineering Report (On-file)
17. Miller Hydrologic Analysis (On-File)
18. Artificial Light and Generator Use (On-File)
19. Cultivation and Water Usage (On-File)
20. Notification of Lake or Streambed Alteration Water Diversion (On- File)
21. Pending Small Domestic Use Registration with State Water Resources Control Board (WRCB) (On-File)



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Applicant: Humboldt Partner Group

Parcel: 316-111-03

Cultivation and Operations Plan

Site Plan Overview and Cultivation and Operations Plan



Site Plan Overview and Cultivation and Operations Plan

Applicant/Owner

Humboldt Partner Group

19049 State Highway 299

Blue Lake, CA 95525

Agent

Kaylie Saxon

Green Road Consulting

1650 Central Avenue, Suite C

McKinleyville, CA 95519



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I. Site Plan Overview

1.0 Project Information

Humboldt Partner Group ("Applicant") is submitting this application for a Use Permit for commercial cannabis cultivation on their 142-acre farm, located near Blue Lake, CA ("Parcel"), Assessor's Parcel Number 316-111-03. This application is submitted through their agent, Kaylie Saxon of Green Road Consulting, Inc., and has been prepared in accordance with Humboldt County's ("County") Commercial Medical Marijuana Land Use Ordinance ("CMMLUO").

The Use Permit would achieve the following results for the Applicant:

- a. Bring the Applicant's existing 11,533 square feet of mixed light commercial cannabis cultivation activities in existence prior to January 1, 2016 into compliance with the County CMMLUO.
- b. Comply with applicable standards for water quality maintenance and watershed protection through the Waiver of Waste Discharge requirements of the North Coast Regional Water Quality Control Board ("Water Board") and California Department of Fish and Wildlife ("Fish and Wildlife").

2.0 Project Location

The Applicant's Parcel is located in the inland zone of Humboldt County near Blue Lake, CA. The Parcel is comprised of 142-acres and is identified by Assessor's Parcel Number ("APN") 316-111-03. The street address for the Parcel is 19049 State Highway 299 Blue Lake, CA 95525.

2.1 Zoning Classification

The County's Zoning Classification of the Parcel is TPZ with a General Plan of 100% TPZ, T (FRWK). The CMMLUO permits existing mixed light commercial cannabis cultivation on land zoned as TPZ with cultivation sites between 10,000 and 22,000 square feet with a Use Permit.

2.2 Site Topography

A map of the Parcel's topography is included as Attachment "A."

3.0 Easements

Below is Exhibit "A" from the Trust Transfer Deed for the Parcel, which is included in the Evidence of Ownership Authorization section of this application:

"The real property situated in the County of Humboldt, State of California, described as follows:

PARCEL ONE:

The North Half of the Southeast Quarter and the East half of the Southwest Quarter of Section 4 in Township 6 North of Range 3 East, Humboldt Meridian.

EXCEPTING therefrom all that portion thereof as conveyed to the State of California for freeway purposes by Deed dated June 27, 1957 and recorded August 13, 1957, under Recorder's File No. 12159

PARCEL TWO:

The right of access over and across Courses (2) and (5) as described to the Deed to the State of California recorded August 13, 1957 in Book 455 of Official Records, page 374, under Recorder's Serial No. 12159, Humboldt County Records, to two openings in the main thoroughfare of the freeway as described in said Deed, described as follows:

One: COMMENCING at the Southeasterly terminus of Course (1) as described in said Deed; thence South 21 degrees 23 minutes 19 seconds East 356.54 feet; thence South 48 degrees 51 minutes 44 seconds East 37.23 to the true point of beginning of the opening to be described; thence South 48 degrees 51 minutes 44 seconds East 90.00 feet.

Two: BEGINNING at the Northeasterly terminus of said Course (5);

thence South 84 degrees 52 minutes 22 seconds East 30 feet, as reserved by Pacific Conservation Company in the Deed to the State of California referred to above.

PARCEL THREE:

A non-exclusive right of way, 50 feet wide, the center line of which is the center line of an existing road over the land described as Parcels One and Two in the Deed from Jay McCarn and Dorothy McCarn, husband and wife, to John S. Palmer, et al, recorded May 26, 1976, In Book 1346 of Official Records, Page 202, under Recorder's Serial No. 9807, Humboldt County Records, the center line of which is described as follows:

BEGINNING on the South line of the Northeast Quarter of the Northeast Quarter of said Section 9, at a point located 25.0 feet Westerly from the Southeast corner thereof;

thence North 3 degrees 19 minutes West, 150.6 feet;
thence North 22 degrees 36 minutes West, 289.9 feet;
thence North 2 degrees 42 minutes West, 263.3 feet;
thence North 20 degrees 30 minutes East, 233.7 feet;
thence North 42 degrees 22 minutes West, 264.0 feet;
thence North 38 degrees 45 minutes West, 154.8 feet;
thence North 47 degrees 14 minutes West 554.3 feet;
thence North 18 degrees 05 minutes West 309.6 feet;
thence North 42 degrees 37 minutes West, 320.4 feet;

thence North 12 degrees 49 minutes East, 182.4 feet;

thence North 65 degrees 13 minutes East, 289.5;

thence North 54 degrees 14 minutes East 295.1 feet;

thence North 28 degrees 17 minutes East, 101.8 feet, more or less, to the North One of the Southeast Quarter of the Southeast Quarter of said section 4, as reserved by Jay McCarn and Dorothy McCarn in the Deed referred to above.”

4.0 Natural Waterways

The Parcel has one two (2) class II watercourses. These can be viewed on Sheet CO of the Site Plan included in the Site Plan of Entire Parcel section of this application.

The Applicant has a Water Resource Protection Plan (“WRPP”) for the Parcel and is enrolled in the Water Board’s Waiver of Waste Discharge program as a Tier II discharger. A copy of the WRPP is included in the Other Permits, Licenses and Documents section of this application.

5.0 Location and Area of Existing Cultivation

The 11,533 square feet of existing cannabis cultivation located on the Parcel was existing prior to the January 1, 2016 deadline provided by the County. A Terra Server image documents the prior cultivation and is attached to the Activity Registration Form included in the Application section of this application. Commercial cannabis cultivation currently occurs in two (2) locations on the Parcel and can be viewed on sheet CO of the Site Plan, included in the Site Plan of Entire Parcel section of this application.

Greenhouse #1

Cultivation Area #1 is located behind the residence and 1,533 square feet and meets the setback and buffer zone requirements for the County and the Water Board.

Greenhouse #2

Greenhouse #2 is located in the southwestern section of the Parcel and consists of one (1) 10,000 square foot greenhouse. It meets the setback and buffer zone requirements for the County and the Water Board.

6.0 Setbacks of Cultivation Area

Greenhouse #1

Greenhouse #1 setbacks from the nearest Parcel lines are 1,049 feet from the eastern line and 1,766 feet from the northern line.

Greenhouse #2

Greenhouse #2 setbacks from the nearest Parcel lines are 551 feet from the western line and 216 feet from the southern line.

7.0 Access Roads

The Parcel is located off of State Highway 299.

8.0 Graded Flats

The graded flats located on the Parcel will have Grading Plans submitted to the Humboldt County Building Department. A copy of the Grading Plan is included in the Other Permits, Licenses and Documents section of this application.

9.0 Existing and Proposed Buildings

Residence

The Residence on the Parcel was built in 2009 and was permitting through the Humboldt County Building Department. It is not used for any cultivation related activities. The residence also receives its water from a diversion site located in the Class II watercourse on the Parcel. The Registration for Small Domestic Use Appropriation has been submitted to the State Water Resources Control Board, Division of Water Rights, and a copy is included in the Other Permits, Licenses and Documents section of this application.

Shop

The Applicant will be drying and processing the cannabis in the Parcel's Shop. It also holds the vegetation room for the cannabis. It is located on the northeastern quadrant of the parcel. It was built in 2011 and currently holds the proper permits. It is also serviced by a septic system that was permitted in 2011.

10.0 Water Storage, Use and Watershed Protection

10.1 Water Storage

All water used for the cultivation of cannabis is sourced on-site from the Parcel's rainwater catchment system, located next to Greenhouse #2. Greenhouse #2 is guttered and supplies the 50,000 gallons of hard tank storage with rainwater, as well as a 1,500-gallon hard water tank that is used to mix nutrients prior to delivery to the plants.

There is also a 3,000-gallon hard water tank located at the diversion site for domestic purposes.

10.2 Water Use

The amount of water used for the cultivation of cannabis will vary throughout the year, with peak periods of water use occurring during the summer months. The Applicant's cultivation and water use is outlined in the Cultivation and Water Usage Chart, attached as Attachment "B."

All water used for the cultivation of cannabis is sourced on-site from the Parcel's rainwater catchment system, located next to Greenhouse #2. Greenhouse #2 is guttered

and supplies the 50,000 gallons of hard tank storage with rainwater, as well as a 1,500-gallon hard water tank that is used to mix nutrients prior to delivery to the plants.

There is also a 3,000-gallon hard water tank located at the diversion site for domestic purposes.

All irrigation of cannabis is completed by a complex AquaJet underground irrigation system, which allows for the cannabis to be watered at the most agronomical rate possible.



Above is a photo of the Applicants plumbing system for the AquaJet underground irrigation system, allowing irrigation to be as agronomical as possible.

10.3 Watershed Protection

The Parcel has two (2) class II watercourses. The cannabis is located well over the required 200 feet off of the Class II watercourse and the required 50 feet off of the Class III watercourse.

The applicant has a Water Resource Protection Plan (WRPP) for the Parcel and is enrolled in the Water Board's Waiver of Waste Discharge program as a Tier II Discharge. A copy of the WRPP is included in the Other Permits, Licenses and Documents section of this application.

11.0 Distances from Significant Landmarks

There are no schools, school bus stops, places of worship, public parks or Tribal Cultural Resources Dimensions within 600 feet of the cultivation site.

II. Cultivation and Operations Plan

1.0 Water Use

The amount of water used for the cultivation of cannabis will vary throughout the year, with peak periods of water use occurring during the summer months. The Applicant's cultivation and water use is outlined in the Cultivation and Water Usage Chart, attached as Attachment "B."

All water used for the cultivation of cannabis is sourced on-site from the Parcel's rainwater catchment system, located next to Greenhouse #2. Greenhouse #2 is guttered and supplies the 50,000 gallons of hard tank storage with rainwater, as well as a 1,500-gallon hard water tank that is used to mix nutrients prior to delivery to the plants.

There is also a 3,000-gallon hard water tank located at the diversion site for domestic purposes.

All irrigation of cannabis is completed by a complex AquaJet underground irrigation system, which allows for the cannabis to be watered and fertilized at the most agronomical rate possible.

2.0 Watershed Protection

The Parcel has two (2) class II watercourses. The cannabis is located well over the required 100 feet off of the Class II watercourses.

The applicant has a Water Resource Protection Plan (WRPP) for the Parcel and is enrolled in the Water Board's Waiver of Waste Discharge program as a Tier II Discharge. A copy of the WRPP is included in the Other Permits, Licenses and Documents section of this application.

3.0 Materials Storage

Currently, there are no pesticides or herbicides registered specifically for use directly on cannabis. Neem oil, horticulture oil and sulfur are used for pest and mildew management. These items were accepted under Legal Pest Management Practices for Marijuana Growers in California.

All fertilizers and amendments are located in the parcels shop. Fertilizers and amendments are placed on the shelves and floor where any spill will be contained. Currently, Earth Juice Grow is currently being mixed in the 1,500-gallon hard water tank that is supplied by the rainwater catchment system and is applied by the AquaJet underground irrigation system.

All labels are kept and directions are followed when nutrients are applied. The storage area is in need of posted instructions for storing fertilizers and amendments, instructions for cleaning up spills and a spill kit that contains a container, gloves, towels, absorbent socks and an absorbent material (kitty litter). This is outlined in the Applicant's included Water Resource Protection Plan.

4.0 Cultivation Activities

Cultivation activities are subject to change based on strain, climate and applicants personal schedule.

All vegetation of plants occurs in the Shop year round to supply the greenhouses.

Cycle	Flower	Harvest
Run #1	January 15	March 20
Run #2	April 1	June 5
Run #3	June 15	August 30
Run #4	September 10	November 20

The applicant will be shielding extraneous light from escaping the greenhouses during sunset hours. The Parcel is on the grid and is supplied by commercial power.

The Artificial Lighting and Generator Usage chart is attached as Attachment "C" at the end of this Cultivations and Operations Plan.

5.0 Processing Practices

After being harvested, the cannabis is taken into the shop (see Site Plan) where it will be dried, machine trimmed, cured and stored. Currently, the Applicant is looking into either converting the shop to a commercial building that meets ADA standards for the addition of employees or using a third party processor when those businesses begin to be permitted and their services are offered to cultivators.

All work surfaces and equipment are maintained in a clean, sanitary condition. Protocols to prevent the spread of mold are strictly followed. The final cannabis product is stored in a secure location.

All cultivation related waste is stored in trash containers and kept on site near the Shop. When necessary, waste is taken to Humboldt Sanitation and Recycling in McKinleyville, CA. Any green waste will be piled and kept well away from any watercourse and then composted on site.

The Applicant will be utilizing any Track and Trace program the County seeks to implement, abiding by all appropriate record keeping practices.

6.0 Security Measures

The access road is barred by a steel gate with an electronic lock. A closed loop camera system will be installed in 2017 by the applicant and will cover all gates, cultivation and processing areas.



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Attachment “A”

File

Water Resource Protection Plan for APN:

316-111-03



Ty Robin Collins, PE #66605,
QSP/QSD #25796

Green Road Consulting 1650

Central Ave, Suite C

McKinleyville CA, 95519

&

Thomas Blair, RPF

Blair Forestry Consulting

P.O. Box 2517

McKinleyville, CA 95519

Filed to:

North Coast Regional Water Quality Control Board

Reason

The attached report is a Water Resource Protection Plan, designed by Green Road Consulting (GRC) for Humboldt Partner Group; parcel number 316-111-03. The purpose of this plan is to monitor and report on conditions of said parcel, in order to enroll and comply with the Waiver of Waste Discharge Requirements and the General Water Quality Certification for Discharges of Waste Resulting from Cannabis Cultivation and Associated Activities or Operations with Similar Environmental Effects in the North Coast Region (Order No. 2015- 0023). The purpose of the order is to provide a water quality regulatory structure and thereby prevent/address poor water quality and other conditions that may have an adverse impact to water resources.

Details of Report

The water resource protection plan is designed to meet or exceed the requirements of Order No. 2015-0023. The plan includes details of the areas determined to be in need of monitoring by the Regional Water Board. Green Road Consulting (GRC) and Blair Forestry Consulting (BFC) have worked together to assess parcel 316-111-03. In addition to site visits, using a variety of county, state and private websites were used to collect data on the parcel and surrounding areas (USDA web soil survey, USGS stream stats program, Google Earth, Humboldt County Web GIS). GRC also used photogrammetry software (Pix4D®) along with CAD software (Auto Desk Civil 3D®) to create an accurate model of the parcel in its current state. In conjunction with additional site visits, this software enables GRC to distinguish and document areas of improvement.

The Property Report, details all areas of the Water Resource Protection Plan and Assessment of Standard Conditions (R1-2015-0023), along with Best Management Practices for Discharges of Waste Resulting from Cannabis Cultivation and Associated Activities (Appendix B). GRC's checklist, property report, and the attached project overview should outline that all standards and conditions were assessed for parcel 316-111-03.

Property Report for Water Resource Protection plan and Assessment of Standard Conditions
for Parcel Number: 316-111-03

Site Maintenance, Erosion Control and Drainage Features

(For locations of all areas in the section below see attachment.)

Erosion Control

The property shows no evidence of any erosion near water ways where there could be potential runoff.

Drainage Features

After reviewing the property's roads, they are maintained and kept in good condition. The main road that runs through the parcel is a paved county maintained road. The driveway to the residences is well rocked and to prevent ruts and rills in the winter and spring months.

Stream Crossing Maintenance

There are two stream crossings on site shown as map point #5 & #6 on attached maps, map point #6 is on county maintained road. Map point #5 is an existing 18-inch culvert that goes through a Class II stream. The culvert is undersized and will need to be replaced with a 50-foot culvert with a 36-inch diameter installed to BMP's. The culvert will also have a 1600 filed with Fish & Wildlife.

Riparian and Wetland Protection and Management

All cultivation sites meet the required buffers for a Tier 2 site. The attached maps show the locations of the cultivation areas along with identifying the streams that run through the parcel and the buffer zones associated with each stream (50 feet for class III, 100 feet for Class II and Class I).

Spoils Management

The existing soil is stored in a mound near the residence and is either tarped or stored in pots and is covered with straw to prevent any runoff during the rainy season. All soil is kept within a proper buffer zone away from any watercourse.

Water Storage and Use

All water stored on property is either rainwater catchment or from the property's diversion from an unnamed Class III stream. The rain water catchment system is based off of the gutters from the property's 10,000 square foot greenhouse, that fills ten 5,000-gallon water tanks (see sheet AS, map point HT1 of attachment for rainwater tanks). All tanks and are currently well maintained and placed on flat ground.

A small domestic use has been applied for a max diversion of 300-gallons per day that is only for residential usage and daily drinking water.

Irrigation Runoff

The landowner irrigates at an agronomic rate. The main greenhouse uses raised beds with a plumbed in drip system. The beds are watered where no runoff occurs and is using an estimated 3.3 gallons per 100 sq ft/day. In the case of runoff occurring the closest watercourse is a class II stream that is over 200 feet away from the cultivations site.

Fertilizers and Soil Amendments

Fertilizers and soil amendments are placed in the parcel's building (map point SB2 on sheet AS) where

any spill can be contained. Currently, amendments are added to the soil. Plants are then fed throughout the season with either a compost tea and/or liquid fertilizer. All labels are kept and directions are followed when amendments and fertilizers are applied. The storage area is in need of posted instructions for storing fertilizers and amendments, instructions for cleaning up spills and a spill kit that contains a container, gloves, towels, absorbent socks and an absorbent material (e.t. kitty litter).

Pesticides/Herbicides

Currently, there are no pesticides or herbicides registered specifically for use directly on cannabis. Organic pest control substances accepted under the Legal Pest Management Practices for Marijuana Growers in California (<http://www.humboldt.gov/DocumentCenter/Home/View/53255>).

Petroleum Products and Other Chemicals

This property contains no large storage containers for petroleum products or chemicals and only uses a generator if loss of grid power.

Cultivation-related wastes

Currently cultivation-related wastes are managed properly to ensure that residues and pollutants within those materials are not migrating or leaching into surface water.

Refuse and Human Waste

Map point #2 is the remanence of an old trespass grow that was found approximately 100 yards east of the county road that goes through the parcel. The site contains old soil, plastic bags and pvc pipes that need to be cleaned up and taken to the nearest garbage facility. The county road is prone to dumping where some additional trash needs to be removed. All residences garbage is stored in trash containers and is also kept near the property's shop and taken to nearest garbage facility. The residence has a permitted septic through Humboldt County Health and Human Services.

Remediation/Cleanup/Restoration

All Remediation/Cleanup/Restoration in this report is designed to meet the Water Resource Protection Plan.

See chart on sheet RP of attachment for summary or Required Remediation and Timelines associated

SUMMARY OF IDENTIFIED AREAS

09/26/2016



Project Information

Project Name; APN: Lauren Miller ; 316-111-03

Required Remediation and Sediment Inventory

Map point	Road Type (P,SD)	Point Type (L, SD, ISD, WC,WLPZ)	Water Course Class (I,II,III)	Structure <E> (C, H, T) <P> (T, C, RD)	Culvert (<E>, <P>, Size)	Site Description (BMP, EO, PA, PF, SGO, SDI)	Potential Discharge (yds ³)	Treatment Priority (1,2,3,4)	<P> Date of Completion	Additional Notes
1	SD	ISD	-	<E> C	24	SGO	-	1		30 feet @ 8% to work properly.
2	-	-	-	-	-	-	-	-	9/1/2017	Clean up old house.
3	P			<E> C						Culvert for County road.
4	P	ISD			18					Culvert to Green Diamond access road.
5	P	WC	II	<E> C	18	SGO, Rusted		2		<P> C 50ft 36in Armor face and outlet. Install & size to BMP
6	P	WC	II	<E> C	24					County road maintained.
Road Type:										
P- Permanent Road		Point Type:			Structure:		Site Description:		Treatment Priority:	
PR- Proposed Seasonal Road		L- Landing	C- Culvert		BMP- Maintained to BMPS		1 – Treat Prior to Hauling Operations			
SD- Seasonal Road		SD- Surface Drainage	DF- Dirt Ford		EO- Eroding Outlet		2 – Treat Prior to Winter Period			
SK- Skid Trail		ISD- Inside Ditch	RD- Rolling Dip		PA- Poorly Aligned		3 – Treat Prior to Completion of Operations			
		WC- Watercourse Crossing	RF- Rock Ford		PF- Perched Fill		4 – Treat if used for Operations			
		WLPZ- In Lieu Operation	H- Humboldt		SGO- Shotgun Outlet					
		RRD- Rock Rolling Dip	T- Temporary Crossing		SDI- Surface Drainage Improvement					

SUMMARY OF IDENTIFIED AREAS

09/26/2016

Additional Site Information

Map Point #	Description	Size	Stream Buffer Zone (Yes, No)	Additional Information
7	C#1	10,000 SQ		
8	C#2	1,533 SQ		
9	HT	5,000 Gal		10 Hard Tanks @ 5,000 Gal each. 50,000 Gal of total water storage.
10	RS			House
11		2,500 Gal		2,500 Mixing Tank
12	SB			Shop
13	SB			Shed
14				Water Diversion (SDU)
15	HT	2,500 Gal		1 Hard Tank @ 2,500 Gal.
Description: HT- Hard Tank Water Storage WB- Water Bladder PO- Pond FS- Fuel Storage S- Septic Size: SQ- Square Feet Gal- Gallons				

HUMBOLDT PARTNER GROUP APN: 316-111-003

PROJECT LOCATION



PROJECT INFORMATION

LAT/LONG
40.9326,-123.841
APN:
316-111-003
CLIENT:
LAUREN MILLER

AGENT:

PETER HILL
GREEN ROAD CONSULTING
1650 CENTRAL AVE. SUITE, C
MCKINLEYVILLE, CA 95519
707-630-5041

PROJECT DIRECTIONS

FROM: ARCATA, CA
HEAD NORTH TOWARDS US-101 N
MERGE ONTO US-101 N
EXIT 716A FOR CA-299
CONTINUE ON CA-299 E FOR APPROXIMATELY 18MI
LEFT ONTO BLAIR RD (SIGNS FOR REDWOOD VALLEY)

DESTINATION ON LEFT
APPROXIMATELY 21 MILES AND 22 MIN DRIVE TIME



SHEET INDEX

CP-COVER PAGE
AS-AERIAL SITE PLAN
AS1-AERIAL SITE PLAN
SP-SITE PLAN
TS-TOPO SITE PLAN

SHEET		DATE		PROJECT INFORMATION		 GREEN ROAD CONSULTING
CP		10/4/16		HUMBOLDT PARTNER GROUP		
SCALE	NOT TO	DRAWN BY	DATE	APN: 316-111-003		
				WATER RESOURCE PROTECTION PLAN		
PROJECT ADDRESS SHEET INFO						

SITE OVERVIEW

316-111-003



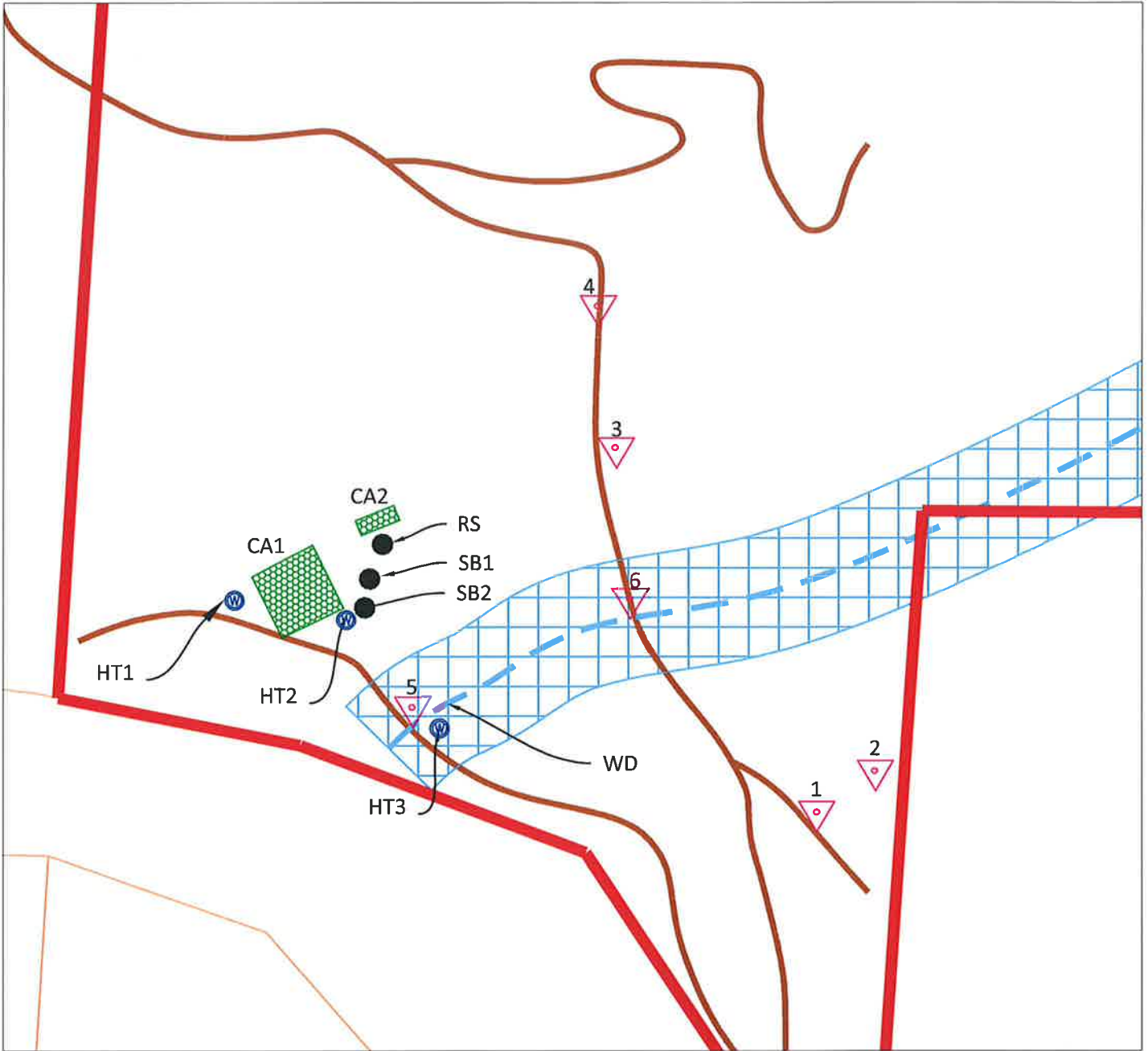
MAP POINT	CLASS II WATERCOURSE	ROCK ROLLING DIP	CULTIVATION AREAS <table border="0"> <tr> <th>CA#</th> <th>AREA(SQ. FT)</th> </tr> <tr> <td>CA1</td> <td>10,333</td> </tr> <tr> <td>CA2</td> <td>1,200</td> </tr> <tr> <td colspan="2">TOTAL:</td> </tr> <tr> <td colspan="2">CULTIVATION AREA= 11,533</td> </tr> </table>	CA#	AREA(SQ. FT)	CA1	10,333	CA2	1,200	TOTAL:		CULTIVATION AREA= 11,533	
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CULTIVATION AREA	ROAD	WATERSOURCE											
WATERCOURSE BUFFERS	PARCEL BOUNDARIES												



SHEET AS1 DATE 10/4/18 DRAFTER PE SCALE NOT TO	REVISIONS <table border="1"> <tr> <th>NO.</th> <th>NOTES</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	NOTES	DATE										PROJECT ADDRESS SHEET INFO HUMBOLDT PARTNER GROUP APN: 316-111-003 WATER RESOURCE PROTECTION PLAN		GREEN ROAD CONSULTING
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SITE OVERVIEW

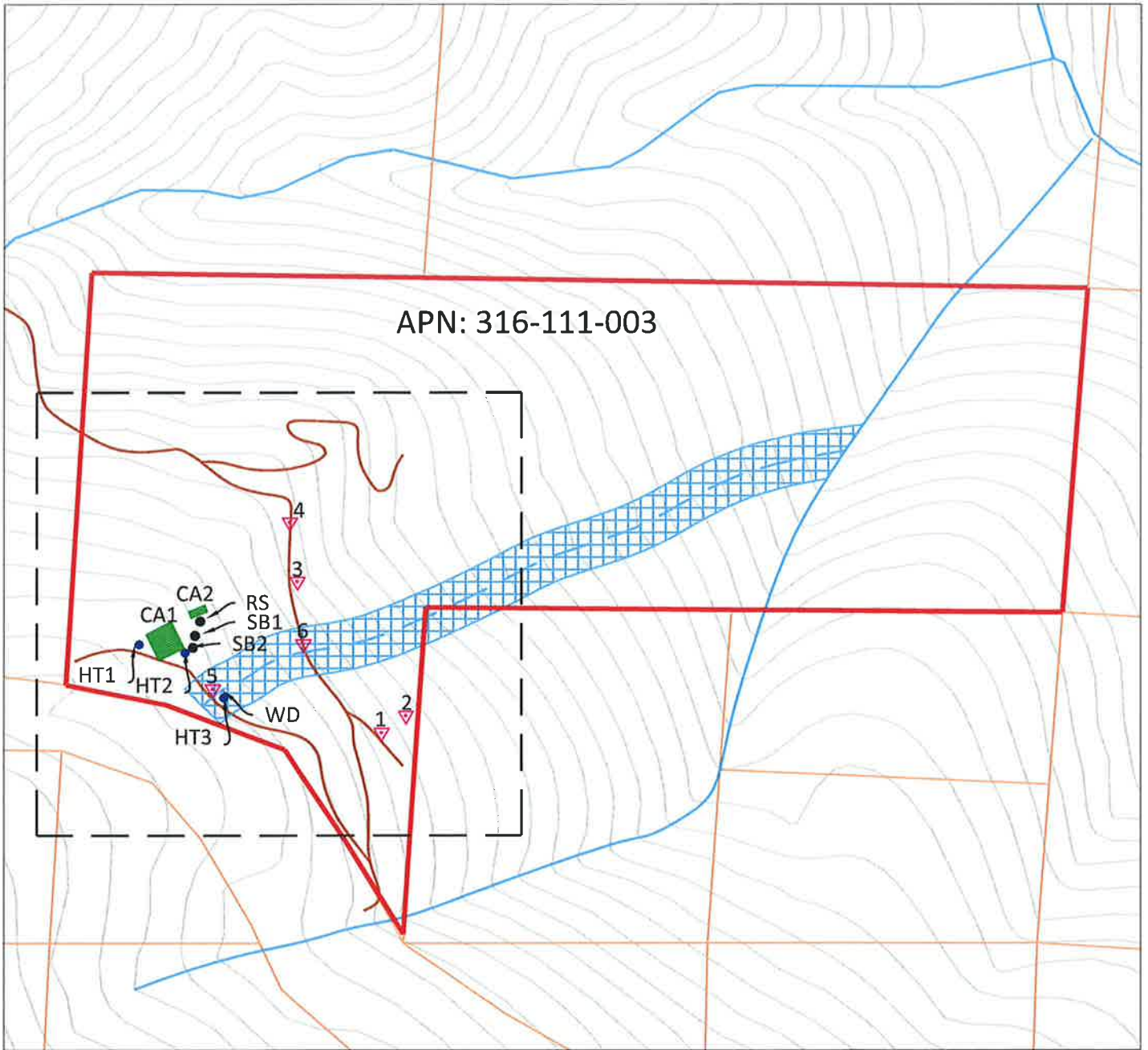
316-111-003



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CULTIVATION AREA	ROAD	WATERSOURCE									
WATERCOURSE BUFFERS	PARCEL BOUNDARIES										

SHEET SP DATE 10/9/16 DRAWN BY [blank] SCALE [blank] NOT TO [blank]	PROJECT ADDRESS SHEET INFO	PROJECT INFORMATION HUMBOLDT PARTNER GROUP APN: 316-111-003 WATER RESOURCE PROTECTION PLAN		
		PROJECT ADDRESS		
		SHEET INFO		
		WATER RESOURCE PROTECTION PLAN		

TOPO SITE OVERVIEW 316-111-003



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WATER STORAGE	CLASS III WATERCOURSE	RESIDENCE/BUILDING									
CULTIVATION AREA	ROAD	WATERSOURCE									
WATERCOURSE BUFFERS	PARCEL BOUNDARIES										



SHEET TS	DATE	10/24/16	NO. NOTES	DATE	PROJECT INFORMATION	
	DRAWN BY				HUMBOLDT PARTNER GROUP	
	SCALE				APN: 316-111-003	
	NOT TO				WATER RESOURCE PROTECTION PLAN	



**Order No. R1-2015-0023
REPORTING FORM****A. Site WDID:****B. Subwatershed (HUC-12)²:180101020102****C. Enrollment date:6/9/2016****D. Reporting date:9/21/2016****E. Please check the box corresponding to the enrolled site's current tier (Tier 3 sites with cultivation must also check Tier 2).**☐ Tier 1 ☒ Tier 2 ☐ Tier 3**Has the site's tier status changed since the last reporting period?** Y ☐ / N ☒

If YES, briefly explain: _____

F. Check all fields that apply to the enrolled site:**i. Tier 1 sites:**

(see Order at page 6 for details on Tier 1 characteristics)

- ☐ Average slope of each individual cultivation area is no more than 35% slope.
- ☐ Total cultivation area is no more than 5,000 square feet.
- ☐ No cultivation areas or associated facilities are located within 200 feet of a surface water. (Surface waters include wetlands and Class I, II, and III watercourses.)
- ☐ No surface water diversion from May 15 through October 31.
- ☐ The site is in compliance with all Standard Conditions under Order R1-2015-0023, section I.A.

ii. Tier 2 sites:

- a. A Water Resource Protection Plan has been developed and is being implemented?**
Y ☒ / N ☐

If NO, expected date when plan will be ready and implementation will begin:
12/9/2016

If YES, have there been changes to the implementation schedule since the prior year of reporting? Y ☐ / N ☒

² 12-digit HUC-12 subwatershed codes are available online at
http://iaspub.epa.gov/apex/grts/f?p=110:95:::NO::APP_SHOW_HIDE:

REPORTING FORM**Page 2/5****ii. Tier 2 sites continued:**

- b.** Check below as to whether or not the site meets Standard Conditions under Order R1-2015-0023, section I.A. If a standard condition is not yet met, please indicate the expected date of compliance as identified in the Water Resource Protection Plan. Upon initial enrollment, provide an estimated expected date of compliance.

Standard Condition MetIf NO, expected date of compliance1. Site maintenance, erosion control, and drainage features Y☒/N☐2. Stream crossing maintenance Y☐/N☒

9/1/2017

3. Riparian and wetland protection and management Y☒/N☐4. Spoils management Y☒/N☐5. Water storage and use Y☒/N☐6. Irrigation runoff Y☒/N☐7. Fertilizers and soil amendments Y☐/N☒

4/15/2017

8. Pesticides and herbicides Y☒/N☐9. Petroleum products and other chemicals Y☐/N☒10. Cultivation-related wastes Y☐/N☒11. Refuse and human waste Y☒/N☐

10/31/2016

- c.** All management measures are being implemented as part of the Water Resource Protection Plan? Y☐/N☐

If YES, do management measures appear to be effective in preventing and minimizing discharges of waste to surface water? Y☐/N☐

If management measures do not appear to be effective, are additional measures being implemented iteratively to prevent and minimize discharges of waste to surface water? Y☐/N☐

If NO, describe management measures or practices that have not been effective in preventing and minimizing discharges of waste to surface water, if applicable. Describe plans for new or additional management measures to prevent and minimize discharges of waste, if applicable. Attach additional sheets as necessary.

REPORTING FORM

Page 3/5

- d. Will work to bring site into compliance with Standard Conditions require disturbance to a stream or wetland over the coming year? Y☒/N☐

If YES, indicate status of work authorization by Regional Water Board. Specifically, check one or more of the following and provide the date if/as applicable.

- ☐ I plan to submit my project plans to the Regional Water Board by the following date: _____
- ☐ I submitted my project plans to the Regional Water Board on the following date: _____
- ☐ The Regional Water Board Executive Officer authorized my project plans on the following date: _____
- ☐ I have elected to receive authorization for instream work under a different Regional Water Board permitting mechanism as follows: _____

- ☒ Instream work anticipated to occur between the following dates: 5/15/2017-9/1/2017

iii. Tier 2* sites:

Total cultivation area is less than 10,000 square feet? Y☐/N☐

Water resource protection plan developed and fully implemented? Y☐/N☐

All Standard Conditions met? Y☐/N☐

Site was inspected and verified as Tier 2* by Regional Water Board staff

(NAME) _____ or approved third party program (NAME):
_____ on (DATE) _____.

iv. Tier 3 Sites:

- ☐ A Cleanup and Restoration Plan has been submitted to the Regional Water Board for approval.

☐ The Cleanup and Restoration Plan has been approved by the Regional Water Board.

☐ The timeline for the approved Cleanup and Restoration plan is being followed.

Will restoration work require disturbance to a stream or wetland in the coming year?
Y☐/N☐

Instream work anticipated to occur between the following dates: _____

- ☐ Cannabis cultivation is occurring or will occur on the site over the coming year. (If this box is checked, ensure that Tier 2 portions of the reporting form are completed as well).

REPORTING FORM

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v. For All Sites:

Annual Reporting Period (Calendar Year), or CHECK HERE ☒ if this is the report accompanying initial enrollment.

0 | 1 | 0 | 1 | | |
Month/Day/Year

TO

1 | 2 | 3 | 1 | | |
Month/Day/Year

(See Order at page 6 for details regarding cultivation area and slope measurements, and watercourse definitions).

Total cultivation area (square feet)	11,500											
Distance to surface waters (feet) from nearest edge of each cultivation area or associated facility. Provide distance measurement for each cultivated area separately, as appropriate.	<200 ft											
Average slope (percent slope) of each cultivated area List each cultivated area separately, as appropriate.	>10%											
Total number of road crossings of surface waters Surface waters include wetlands and Class I, II, or III watercourses.	2											
Annual soil amendment and chemical use (pounds or gallons). Total mass and/or volume of soil amendment and/or chemical usage by type, product name, and nutrient content such as N-P-K ratio, if applicable.*	TDB											
Total water storage capacity (gallons or acre feet)	52,500											
Total surface water diversion by month (gallons or acre feet)*												
Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	
Water input to storage by source and month (gallons or acre-feet) Report water volume input to storage, listing each source separately. This may include inputs from rainfall catchment, surface water diversions, groundwater pumping, or water delivery. If water is delivered, list delivery date, delivery volume, and name and address of water purveyor.*												
Source	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Water use by source and month (gallons or acre feet) Report water volume used, listing each source separately. This may include use of stored water, immediate use of pumped groundwater, diverted surface water, or delivered water. If water is delivered, list delivery date, delivery volume, and name and address of water purveyor.*												
Source	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec

* Upon initial enrollment only, a best estimate is acceptable for reporting annual soil amendment and chemical use, monthly water stored, and monthly water use. Attach additional sheets if more space is needed for your responses.

Version 2 <February 17, 2016>

REPORTING FORM

Page 5/5

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. The information contained in this document and all attachments is, to the best of my knowledge and belief, true, accurate, and complete.

Print name: Peter Hill

Signature: Peter Hill

Digitally signed by Peter Hill
Date: 2016.09.28 13:38:15 -07'00'

Date: 9/28/2016

Preparer: Complete if MRP was prepared by someone other than the discharger, including an approved third-party

Organization Name (if applicable):

G r e e n R o a d C o n s u l t i n g

Prepared by:

First Name, Middle Initial

P e t e r R

Last Name

H i l l

Preparer Address:

Street

1 6 5 0 C e n t r a l A v e S u i t e C

City

M c K i n l e y v i l l e

State

C A

ZIP

9 5 5 1 9

Phone Number:

7 0 7 6 3 0 5 0 4 1

Email:

P e t e r @ g r e e n r o a d c o n s u l t i n g . c o m

Attachment for Reporting Form

Name: Lauren Miller
APN: 316-111-003

Water Input to Storage (Gallons)

Source	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Water Diversion													
Rainwater Catchment	20000	20,000	2,500	0	0	0	0	0	0	0	0	10,000	\$2500

Water use by source (Gallons)

2016 Estimates

Rainwater				1,800	4,185	9,750	8,680	10,695	10,350	7,130			52,590
Water Diversion (SDU registration in process)	9000	8400	9300	9000	9300	9000	9300	9,300	9,000	9,300	9,000	9,300	109,200

Cultivation Space (square footage)

2016 Estimates	11,500 square feet												
Stage of Cultivation	0	0	0	4,000	9,000	11,500	11,500	11,500	11,500	11,500	0	0	
				Vegetative	Vegetative	Vegetative	Both	Both	Flowering	Flowering			

Distance from Cultivation Areas to Surface Water

	Distance to watercourse	Slope
Cultivation Area #1	<200 ft	>10%
Cultivation Area #2	<200 ft	>10%

* Maps and Stream Protection and Management w/ WRRP

**NOTICE OF INTENT FORM
FOR ENROLLMENT UNDER
WAIVER OF WASTE DISCHARGE REQUIREMENTS
ORDER NUMBER R1-2015-0023**

Submission of this Notice of Intent (NOI) to the North Coast Regional Water Quality Control Board (Regional Water Board) or an approved third party constitutes notice that a discharger, identified in Section I of this form, requests and receives authorization to discharge pursuant to the Waiver of Waste Discharge Requirements Order number R1-2015-0023 (Order). Upon submittal of the NOI, waste discharges are authorized pursuant to the conditions of the Order. Order coverage is required for existing Tier 1, 2, and 3 cultivation sites by February 15, 2016. Dischargers who begin operations after February 15, 2016, must file an NOI prior to commencement of cultivation activities.

To obtain authorization, dischargers must complete and submit this NOI form, encompassing sections I and II, complete and submit the reporting information required in Appendix C of the Order, and submit the appropriate fee. The reporting form in Appendix C must be submitted annually by March 31 thereafter and an annual fee is subject to a separate invoicing from the State Water Board. Any additional documentation required by the Order, such as a water resource protection plan, site map, and monitoring records must be completed and secured on-site, to be made available upon request by the Regional Water Board. This NOI form must be submitted upon enrollment and the discharger shall amend and resubmit the NOI within 30 days of changed site conditions that result in a change in Tier status.

Completed forms must be signed and submitted to the Regional Water Board or an approved third party.

Forms submitted to the Regional Water Board shall be submitted electronically to NorthCoast@waterboards.ca.gov or, if electronic submission is infeasible, hard copies can be submitted to: North Coast Regional Water Quality Control Board 5550 Skylane Boulevard, Suite A, Santa Rosa, CA 95403.

Fee payments shall be made payable either to an approved third party or the State Water Resource Control Board (SWRCB) according to the schedule in section 2200.7 of the Water Code. Approved third parties that collect fees from their enrollees are required to submit the fees to the Regional Water Board. Initial payments shall be submitted to: North Coast Regional Water Quality Control Board 5550 Skylane Boulevard, Suite A, Santa Rosa, CA 95403. Invoices will be issued annually, thereafter.

Submitted 06/09/16

I. Discharger Information

First Name, Middle Initial

L a u r e n

Last Name

M i l l e r

Mailing Address:

Street

1 9 0 4 9 S t a t e H i g h w a y 2 9 9

City

B l u e L a k e

State

C A

ZIP

9 5 5 2 5

Phone Number:

9 5 2 - 2 5 0 - 2 9 1 6

Email:

lauren@humboldt-pg.com

II. Site Information**Site Address:**

Street

1 9 0 4 9 S t a t e H i g h w a y 2 9 9

City

B l u e L a k e

State

C A

ZIP

9 5 5 2 5

Subwatershed (HUC-12)*12-digit HUC-12 code available at http://iaspub.epa.gov/apex/grts/f?p=110:95:::NO::APP_SHOW_HIDE:

1 8 0 1 0 1 0 2 0 1 0 2

Assessor's Parcel Number (APN)

3 1 6 - 1 1 1 - 0 3

Please check one of the following boxes to indicate which Tier you are enrolling under:

☐

Tier 1

☒

Tier 2

☐

Tier 3

Under Tier 2, water resource protection plans must be developed within 180 days of submittal of this NOI form. Under Tier 3, cleanup and restoration plans must be submitted to the Regional Water Board within 45 days of submittal of this NOI form. Tier 3 enrollees that are cultivating must also be enrolled and comply with Tier 2 conditions.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. The information contained in this document and all attachments is, to the best of my knowledge and belief, true, accurate, and complete. I agree to monitor and report on my site in compliance with the Order, including the Monitoring and Reporting Program (Appendix C) truthfully, accurately, and completely; complete Sections I and II, above; keep a copy of the Order, this NOI, the annual monitoring and reporting documents and, if applicable, the water resource protection plan and cleanup and restoration plan document(s) on site, and make them available to Water Board staff upon request. If there is a change in Tier status based on changed site conditions, the changes must be documented, appended to this document, and resubmitted to either the Regional Water Board or, if applicable, an approved third party.

Print name: Lauren Miller

Signature:



Date: 06/08/2016

Best Management Practices for Discharges of Waste Resulting from Cannabis Cultivation and Associated Activities or Operations with Similar Environmental Effects

I. Introduction

Best management practices (BMPs) provided here may be applicable to prevent, minimize, and control the discharge of waste and other controllable water quality factors associated with site restoration/cleanup/remediation and site operations and maintenance. These BMPs are all considered enforceable conditions under the Order as applicable to a given site, and are referenced by and made conditions in the mitigated negative declaration (CEQA document) for the Order, as well.

This appendix to Order No. R1-2015-0023 includes section II. Standard BMPs for Construction, section III. BMPs for Site Maintenance and Operations (per standard conditions), and section IV. References. For additional BMP suggestions, staff encourage consultation of the various manuals listed in section IV. References, many of which are available online for free.

II. Standard BMPs for Construction

Where applicable during restoration, remediation, cleanup, or site maintenance activities, the following BMPs will be used.

A. General BMPs to Avoid or Minimize Adverse Impacts

Temporal Limitations on Construction

1. To avoid impacting migrating fish and causing erosion and sedimentation of the stream channel, the project work season shall be from May 1 to October 15. If operations are to be conducted during the winter period from October 15 to May 1, a winter period operating plan must be incorporated into the project work plan. This plan shall include specific measures to be taken in the winter operating period to avoid or substantially lessen erosion and sedimentation into surface waters.
2. A 2-day (48-hour) forecast¹ of rain shall be the trigger for temporary cessation of project activities and winterization/erosion protection of the work site.

¹ Any weather pattern that is forecasted by NOAA to have a 50% or greater probability of producing precipitation in the project area. The permittee shall obtain and keep for record likely precipitation forecast information from

Limitation on Earthmoving

3. Disturbance to existing grades and vegetation shall be limited to the actual site of the cleanup/remediation and necessary access routes.
4. Placement of temporary access roads, staging areas, and other facilities shall avoid or minimize disturbance to habitat.
5. Disturbance to native shrubs, woody perennials or tree removal on the streambank or in the stream channel shall be avoided or minimized. If riparian trees over six inches dbh (diameter at breast height) are to be removed, they shall be replaced by native species appropriate to the site at a 3:1 ratio. Where physical constraints in the project area prevent replanting at a 3:1 ratio and canopy cover is sufficient for habitat needs, replanting may occur at a lesser replacement ratio.
6. If shrubs and non-woody riparian vegetation are disturbed, they shall be replaced with similar native species appropriate to the site.
7. Whenever feasible, finished grades shall not exceed 1.5:1 side slopes. In circumstances where final grades cannot achieve 1.5:1 slope, additional erosion control or stabilization methods shall be applied as appropriate for the project location.
8. Spoils and excavated material not used during project activities shall be removed and placed outside of the 100-year floodplain, and stored/disposed of in compliance with Order conditions related to spoils management.
9. Upon completion of grading, slope protection of all disturbed sites shall be provided prior to the rainy season through a combination of permanent vegetative treatment, mulching, geotextiles, and/or rock, or equivalent.
10. Vegetation planting for slope protection purposes shall be timed to require as little irrigation as possible for ensuring establishment by the commencement of the rainy season.
11. Only native plant species shall be used with the exception of non-invasive, non-persistent grass species used for short-term vegetative cover of exposed soils.
12. Rock placed for slope protection shall be the minimum necessary to avoid erosion, and shall be part of a design that provides for native plant revegetation and minimizes bank armoring.

Limitations on Construction Equipment

13. Dischargers and/or their contractors shall ensure that chemical contamination (fuel, grease, oil, hydraulic fluid, solvents, etc.) of water and soils is prohibited during routine equipment operation and maintenance.
14. Heavy equipment shall not be used in flowing water. Please refer to BMPs 57 through 64 for dewatering of live streams.

the National Weather Service Forecast Office (e.g. by entering the zip code of the project's location at <http://srh.noaa.gov/forecast>).

15. When possible, existing ingress or egress points shall be used or work shall be performed from the top of the creek banks.
16. Use of heavy equipment shall be avoided or minimized in a channel bottom with rocky or cobbled substrate.
17. If project work or access to the work site requires heavy equipment to travel on a channel bottom with rocky or cobbled substrate, wood or rubber mats shall be placed on the channel bottom prior to use by heavy equipment.
18. Heavy equipment shall not introduce chemicals or foreign sediment to the channel (e.g., remove mud from tracks or cover channel work area with plastic sheeting prior to heavy equipment entry).
19. The amount of time this equipment is stationed, working, or traveling within the channel shall be minimized.
20. When heavy equipment is used, any woody debris and stream bank or streambed vegetation disturbed shall be replaced to a pre-project density with native species appropriate to the site. If riparian trees over six inches dbh are to be removed, they shall be replaced by native species appropriate to the site at a 3:1 ratio per BMP 5.
21. The use or storage of petroleum-powered equipment shall be accomplished in a manner that prevents the potential release of petroleum materials into waters of the state (Fish and Game Code 5650). To accomplish this, the following precautionary measures shall be followed:
 - Schedule excavation and grading activities for dry weather periods.
 - Designate a contained area for equipment storage, short-term maintenance, and refueling. Ensure it is located at least 50 feet from waterbodies.
 - Inspect vehicles for leaks and repair immediately.
 - Clean up leaks, drips and other spills immediately to avoid soil or groundwater contamination.
 - Conduct major vehicle maintenance and washing offsite (except as necessary to implement BMP 18).
 - Ensure that all spent fluids including motor oil, radiator coolant, or other fluids and used vehicle batteries are collected, stored, and recycled as hazardous waste offsite.
 - Ensure that all construction debris is taken to appropriate landfills and all sediment disposed of in upland areas or offsite, beyond the 100-year floodplain.
 - Use dry cleanup methods (e.g., absorbent materials, cat litter, and/or rags) whenever possible. If necessary for dust control, use only a minimal amount of water.
 - Sweep up spilled dry materials immediately.

Revegetation and Removal of Exotic Plants

22. The work area shall be restored to pre-project work condition or better.

23. All exposed soil resulting from the cleanup/restoration activities shall be revegetated using live planting, seed casting or hydroseeding.
24. Any stream bank area left barren of vegetation as a result of cleanup/restoration activities shall be stabilized by seeding, replanting, or other means with native trees, shrubs, and/or grasses appropriate to the site prior to the rainy season in the year work was conducted.
25. Soil exposed as a result of project work, soil above rock riprap, and interstitial spaces between rocks shall be revegetated with native vegetation by live planting, seed casting, or hydroseeding prior to the rainy season of the year work is completed.
26. The spread or introduction of exotic plant species shall be avoided to the maximum extent possible by avoiding areas with established native vegetation during cleanup/restoration activities, restoring disturbed areas with appropriate native species, and post-project monitoring and control of exotic species.
27. Removal of invasive exotic species is strongly recommended. Mechanical removal (hand tools, weed whacking, hand pulling) of exotics shall be done in preparation for establishment of native perennial plantings.
28. Revegetation shall be implemented after the removal of exotic vegetation occurs. Erosion control implementation shall be timed in accordance with BMPs 1 and 2.
29. Native plants characteristic of the local habitat shall be used for revegetation when implementing and maintaining cleanup/restoration work in riparian and other sensitive areas. Non-invasive, non-persistent grass species (e.g., barley grass) may be used for their temporary erosion control benefits to stabilize disturbed slopes and prevent exposure of disturbed soils to rainfall.
30. Annual inspections for the purpose of assessing the survival and growth of revegetated areas and the presence of exposed soil shall be conducted for three years following project work.
31. Dischargers and/or their consultant(s) or third party representative(s) shall note the presence of native/non-native vegetation and extent of exposed soil, and take photographs during each inspection.
32. Dischargers and/or their consultant(s) or third party representative(s) shall provide the location of each work site, pre- and post-project work photos, diagram of all areas revegetated and the planting methods and plants used, and an assessment of the success of the revegetation program in the annual monitoring report as required under the Order.

Erosion Control

33. Erosion control and sediment detention devices and materials shall be incorporated into the cleanup/restoration work design and installed prior to the end of project work and before the beginning of the rainy season. Any continuing, approved project work conducted after October 15 shall have erosion control works completed up-to-date and daily.

34. Erosion control materials shall be, at minimum, stored on-site at all times during approved project work between May 1 and October 15.
35. Approved project work within the 5-year flood plain shall not begin until all temporary erosion controls (straw bales or silt fences that are effectively keyed-in) are installed downslope of cleanup/restoration activities.
36. Non-invasive, non-persistent grass species (e.g., barley grass) may be used for their temporary erosion control benefits to stabilize disturbed slopes and prevent exposure of disturbed soils to rainfall.
37. Upon work completion, all exposed soil present in and around the cleanup/restoration sites shall be stabilized within 7 days.
38. Soils exposed by cleanup/restoration operations shall be seeded and mulched to prevent sediment runoff and transport.

Miscellaneous

39. During temporary stream crossing siting, locations shall be identified where erosion potential is low. Areas where runoff from roadway side slopes will spill into the side slopes of the crossing shall be avoided.
40. Vehicles and equipment shall not be driven, operated, fueled, cleaned, maintained, or stored in the wet or dry portions of a waterbody where wetland vegetation, riparian vegetation, or aquatic organisms may be impacted.
41. Riparian vegetation, when removed pursuant to the provisions of the work, shall be cut off no lower than ground level to promote rapid re-growth. Access roads and work areas built over riparian vegetation shall be covered by a sufficient layer of clean river run cobble to prevent damage to the underlying soil and root structure. The cobble shall be removed upon completion of project activities.
42. Avoidance of earthwork on steep slopes and minimization of cut/fill volumes, combined with proper compaction, shall occur to ensure the area is resilient to issues associated with seismic events and mass wasting. If cracks are observed, or new construction is anticipated, consultation with a qualified professional is appropriate.
43. Operations within the 100-year floodplain shall be avoided. Refuse and spoils shall not be stored within the hundred-year floodplain. If roads are located within the 100-year floodplain, they shall be at grade; bridges shall have vented approaches and bridge deck shall be above anticipated 100-year flood water surface elevations. Consultation with a qualified professional is required for project work within the floodplain. .
44. Project work-related dust shall be controlled. Dust control activities shall be conducted in such a manner that will not produce sediment-laden runoff. Dust control measures, including pre-watering of excavation/grading sites, use of water trucks, track-out prevention, washing down vehicles/equipment before leaving site, and prohibiting grading/excavation activities during windy periods, shall be implemented as appropriate.

45. Short term impacts from project work-related emissions can be minimized via retrofitting equipment and use of low emissions vehicles when possible.
46. Position vehicles and other apparatus so as to not block emergency vehicle access.

B. BMPs for Specific Activities

Critical Area Planting, Channel Vegetation and Restoration and Management of Declining Habitats

The following measures shall be employed:

47. Plant materials used shall be native to the site and shall be locally collected if possible.
48. Straw mulch shall be applied at a rate of 2 tons per acre of exposed soils and, shall be secured to the ground.
49. When implementing or maintaining a critical area planting above the high water line, a filter fabric fence, straw wattles, fiber rolls and/or hay bales shall be utilized to keep sediment from flowing into the adjacent water body.

Structure for Water Control and Stream Crossings

These practices shall be used generally to replace or retrofit existing culverts and to install culverts where water control is needed at a stream crossing or road ditch to restore natural hydrology, and to reduce potential diversions and road-related erosion. In addition to the general limitations set forth in the previous section, the following measures shall be employed for these types of projects:

50. Culvert fill slopes shall be constructed at a 2:1 slope or shall be armored with rock.
51. All culverts in fish-bearing streams and in streams where fish have historically been found and may potentially re-occur, shall be designed and constructed consistent with NMFS Southwest Region's Guidelines for Salmonid Passage at Stream Crossings (NMFS 2000) and CDFG's Culvert Criteria for Fish Passage (CDFG 2002).

Limitations on Work in Streams and Permanently Ponded Areas

52. If it is necessary to conduct work in or near a live stream, the work space shall be isolated to avoid project activities in flowing water.
53. Water shall be directed around the work site.
54. Ingress/egress points shall be utilized and work shall be performed from the top of the bank to the maximum extent possible.
55. Use of heavy equipment in a channel shall be avoided or minimized. Please refer to BMPs 57 through 64 for dewatering of live streams. The amount of time construction equipment is stationed, working or traveling within the creek bed shall be minimized.

56. If the substrate of a seasonal pond, creek, stream or water body is altered during work activities, it shall be returned to approximate pre-construction conditions after the work is completed.

Temporary Stream Diversion and Dewatering: All Live Streams

57. For project work in a flowing or pooled stream or creek reach, or where access to the stream bank from the channel bottom is necessary, the work area shall be isolated with the use of temporary cofferdams upstream and downstream of the work site and all flowing water shall be diverted around the work site throughout the project period.
58. Other approved water diversion structures shall be utilized if installation of cofferdams is not feasible.
59. Cofferdam construction using offsite river-run gravel and/or sand bags is preferred. If gravel materials for cofferdams are generated onsite, measures shall be taken to ensure minimal disturbance to the channel, such as careful extraction from elevated terraces. The upstream end of the upstream cofferdam shall also be reinforced with thick plastic sheeting to minimize leakage.
60. Gravity diversions are preferred to pumping as dewatering techniques. If pumping is required to supplement gravity diversions, care shall be taken to minimize noise pollution and prevent the pump or generator-borne pollution to the watercourse.
61. The diversion pipe shall consist of a large plastic HDPE or ADS pipe or similar material, of a sufficient diameter to safely accommodate expected flows at the site during the full project period.
62. The pipe shall be protected from project activities to ensure that bypass flows are not interrupted.
63. Continuous flow downstream of the work site shall be maintained at all times during project work.
64. When project work is complete, the flow diversion structure shall be removed in a manner that allows flow to resume with a minimum of disturbance to the substrate.

Protection of Sensitive Species

65. Sensitive species - Consult with federal, state and local agencies regarding location of rare, threatened or endangered species.
66. Prior to commencing work, designate and mark a no-disturbance buffer to protect sensitive species and communities.
67. All work performed within waters of the state shall be completed in a manner that minimizes impacts to beneficial uses and habitat. Measures shall be employed to minimize land disturbances that shall adversely impact the water quality of waters of the state. Disturbance or removal of vegetation shall not exceed the minimum necessary to complete Project implementation.

68. All equipment, including but not limited to excavators, graders, barges, etc., that may have come in contact with extremely invasive animals (e.g. zebra mussels or new Zealand mud snails) or plant (e.g., *Arundo donax*, scotch broom, pampas grass) or the seeds of these plants, shall be carefully cleaned before arriving on site and shall also be carefully cleaned before removal from the site, to prevent spread of these plants.
69. Vegetation shall be established on disturbed areas with an appropriate mix of California native plants and/or seed mix. All initial plantings and seed shall be installed prior to completion of the project work.

III. BMPs for Site Maintenance and Operations (per standard conditions)

The following BMPs are intended to address compliance with the standard conditions. Individual or multiple BMPs may be selected to address compliance with a given standard condition depending on site-specific conditions. BMPs are considered enforceable conditions as applicable to a given site.

A. Site Maintenance, Erosion Control, Drainage Features

70. Drainage of roads, clearings, fill prisms, and terraced areas is critical to ensuring their integrity and to prevent or minimize sediment discharges to watercourses. Proper design and location of roads and other features is critical to ensuring that a road or other feature be adequately drained and is best accomplished through consultation with a qualified professional. If inspection identifies surface rills or ruts, surfacing and drainage likely needs maintenance.
71. Surfacing of exposed/disturbed/bare surfaces can greatly reduce erosion associated with runoff. BMP features such as vegetative ground cover, straw mulch, slash, wood chips, straw wattles, fiber rolls, hay bales, geotextiles, and filter fabric fences may be combined and implemented on exposed/disturbed/bare surfaces as appropriate to prevent or minimize sediment transport and delivery to surface waters. Non-invasive, non-persistent grass species (e.g. barley grass) may be used for their temporary erosion control benefits to stabilize bare slopes and prevent exposure of bare soils to rainfall. If utilized, straw mulch shall be applied at a rate of 2 tons per acre of exposed soils and, if warranted by site conditions, shall be secured to the ground. Consultation with a qualified professional is recommended for successful site-specific selection and implementation of such surface treatments. Guidance literature pertaining to such BMPs is referenced in section IV. of this document.
72. Road surfacing, especially within a segment leading to a watercourse, is critical to prevent and minimize sediment delivery to a watercourse and maintain road integrity for expected uses. Road surfacing can include pavement, chip-seal, lignin, rock, or other material appropriate for timing and nature of use. Steeper sections of road require higher quality rock (e.g. crushed angular versus river-run) to remain in place.

73. Road shaping to optimize drainage includes out-sloping and crowning; shaping can minimize reliance on inside ditches. Drainage structures can include rolling dips and water bars within the road surface and ditch-relief culverts to drain inside ditches. Adequate spacing of drainage structures is critical to reduce erosion associated with runoff. Generally speaking, steep slopes require greater frequency of drainage structures. The drainage structures shall be maintained to ensure capture of and capacity for expected flow. The outlets of the structures shall be placed in such a manner as to avoid discharge onto fill, unstable areas, or areas that can enter a watercourse. If site conditions prohibit drainage structures at an adequate interval to avoid erosion, bioengineering techniques² are the preferred solution (e.g. live fascines), but other techniques may also be appropriate including armoring (i.e. rock of adequate size and depth to remain in place under traffic and flow conditions) and velocity dissipaters (e.g. gravel-filled “pillows” in an inside ditch to trap sediment). In the case that inside ditches need maintenance, grade ditches only when and where necessary, since frequent routine mechanical grading can cause erosion of the ditch, undermine banks, and expose the toe of the cutslope to erosion. Do not remove more leaves and vegetation than necessary to keep water moving, as vegetation prevents scour and filters out sediment.
74. Road drainage shall be discharged to a stable location away from a watercourse. Use sediment control devices, such as check dams, sand/gravel bag barriers, and other acceptable techniques, when it is neither practical nor environmentally sound to disperse ditch water immediately before the ditch reaches a stream. Within areas with potential to discharge to a watercourse (i.e. within riparian areas of at least 200 feet of a stream) road surface drainage shall be filtered through vegetation, slash, or other appropriate material or settled into a depression with an outlet with adequate drainage. Caution should always be exercised with catchment basins in the event of failure.
75. Any spoils associated with site maintenance shall be placed in a stable location where it cannot enter a watercourse. Sidecasting shall be minimized and shall be avoided on unstable areas or where it has the potential to enter a watercourse.
76. Do not sidecast when the material can enter the stream directly or indirectly as sediment. Sidecast material can indirectly enter the stream when placed in a position where rain or road runoff can later deliver it to a channel that connects with the stream.
77. Disconnect road drainage from watercourses (drain to hill slopes), install drainage structures at intervals to prevent erosion of the inboard ditch or gull formation at the hill slope outfall, outslope roads.

² A Primer on Stream and River Protection for the Regulator and Program Manager: Technical Reference Circular W.D. 02-#1, San Francisco Bay Region, California Regional Water Quality Control Board (April 2003) http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/stream_wetland/streamprotectioncircular.pdf

78. Ditch-relief culverts shall also be inspected regularly, and cleared of debris and sediment. To reduce plugging, 15 to 24-inch diameter pipes shall be the minimum size considered for ditch relief culverts and shall be informed by site-specific conditions.
79. Grade ditches only when and where necessary, since frequent routine mechanical grading can cause erosion of the ditch, undermine banks, and expose the toe of the cutslope to erosion. Do not remove more grass and weeds than necessary to keep water moving, as vegetation prevents scour and filters out sediment.
80. Use sediment control devices, such as check dams, sand/gravel bag barriers, and other acceptable techniques, when it is neither practical nor environmentally sound to disperse ditch water immediately before the ditch reaches a stream.

B. Stream Crossing Maintenance

81. Proper maintenance of stream crossings is critical to ensure support of beneficial uses of water. Regular inspection and maintenance is necessary to identify, in a timely manner, if problems are occurring. Crossings include rock fords³, armored fills with culverts³, and bridges³.
82. Rock fords are appropriate when temporary and minor moisture or over-land flow is expected, not typically when a bed and bank is present; exceptions may be justified if warranted by site specific conditions. Additionally, rock fords are appropriate if aquatic life is not present. An adequate layer of crushed angular rock shall be maintained at rock fords such that soil compaction is minimized under expected traffic levels.
83. Stream crossings consisting of armored fills with culverts and bridges are appropriate for streams with defined bed and bank². They shall be sized to ensure the 100-year streamflow event can pass unimpeded. Additionally, crossings shall allow migration of aquatic life during all life stages potentially supported by that stream reach; water depth and velocity can inhibit migration of adult and juvenile fish species.
84. Stream crossing design and installation is best accomplished with the assistance of a qualified professional. Site conditions can change over time (e.g. channel filling or incision); consultation with a qualified professional is appropriate to evaluate maintenance or replacement needs and opportunities.
85. Regular inspection of the stream crossing is appropriate to identify changed conditions within the stream channel (e.g., bank erosion, headward incision, and channel filling).
 - If large wood is accumulated upstream or within the crossing that could impede or deflect flow and result in erosion or debris capture, the wood

³ Explanation of term, available within the following document (as of the date of the Order):
http://www.pacificwatershed.com/sites/default/files/handbook_chapter_download_page.pdf

should generally be removed. In some cases, it may be appropriate to re-orient debris with the streamflow.

- If sediment or debris is accumulated within a culvert and limits flow capacity, the short term solution should generally be to clean out the culvert and place the debris and sediment in a stable location with no potential to discharge into a stream. In some cases a trash rack, post, or other deflection structure at the culvert inlet can reduce plugging.
 - If sediment is accumulated in a culvert without other debris accumulation and limits flow capacity, the long term solution may generally involve changing the culvert's slope, diameter, or embedment in the streambed.
86. The roadway adjacent to and over the crossing is an area of potential discharge. All road surfaces approaching a crossing shall be drained before the crossing, adequately filtered through vegetation or other material, and not discharged to a watercourse. If turbid water is discharged at a stream crossing, additional measures to control erosion at the source(s) or to remove sediment prior to discharge shall be implemented. Road surfaces shall be of rock, pavement, or other material appropriate for type and level of use.
87. If a culvert is used, the approaches and fill slopes shall be properly compacted during installation and shall be stabilized with rock or other appropriate surface protection to minimize surface erosion and slumping to the receiving waters. If possible, the road surface over the culvert shall have a critical-dip to ensure that if the culvert becomes plugged, water can flow over the road surface without washing away the fill prism. If site-specific conditions do not allow for a critical dip, alternatives such as emergency overflow culverts, oversized culverts, flared inlets, and debris racks may be warranted.

C. Riparian and Wetland Protection and Management:

88. Buffer width will be in compliance with Tier category.
89. Trees within riparian areas shall be retained for natural recruitment to streams. Large woody debris (LWD) shall be retained in stream or within riparian areas. The size of wood that can be beneficial to the stream will vary depending on the size of the stream (i.e., larger pieces of wood are necessary to withstand flows in large streams). In the event that LWD or trees are disturbed during excavation, care shall be taken to separate the LWD from soil. The pieces shall be stockpiled separately until they can be replaced in appropriate locations to enhance instream or riparian conditions. Placement of instream wood for habitat enhancement should be done under the consultation of a qualified professional and in conformance with applicable regulatory permits.
90. Avoidance of disturbance in riparian areas (within 200 feet of a watercourse) should result in protection and restoration of the quality/health of the riparian stand so as to promote: 1) shade and microclimate controls; 2) delivery of wood to channels, 3) slope stability and erosion control, 4) ground cover, and 5) removal of excess nutrients. This recognizes the importance of the riparian zone

with respect to temperature protection, sediment delivery, its importance with respect to the potential for recruitment of large wood, and removal of nutrients transported in runoff. In the event that past disturbance has degraded riparian conditions, replanting with native species capable of establishing a multi-storied canopy will ensure these riparian areas can perform these important ecologic functions.

D. Spoils Management

To ensure spoil pile stability and to reduce the potential for spoil pile slope failure or transport to waters of the state, the following measures shall be implemented when placing or disposing of spoils onsite:

91. Rip compacted soils prior to placing spoils to prevent the potential for ponding under the spoils that could result in spoil site failure and subsequent sedimentation;
92. Compact and contour stored spoils to mimic the natural slope contours and drainage patterns to reduce the potential for fill saturation and failure;
93. Ensure that spoil materials are free of woody debris, and not placed on top of brush, logs or trees.
94. Spoils shall not be placed or stored in locations where soils are wet or unstable, or where slope stability could be adversely affected.
95. Do not locate spoil piles in or immediately adjacent to wetlands and watercourses.
96. Store spoil piles in a manner (e.g. cover pile with plastic tarps and surround base of pile with straw wattle) or location that would not result in any runoff from the spoil pile ending up in wetlands and watercourses.
97. Separate organic material (e.g., roots, stumps) from the dirt fill and store separately. Place this material in long-term, upland storage sites, as it cannot be used for fill.
98. Keep temporary disposal sites out of wetlands, adjacent riparian corridors, and ordinary high water areas as well as high risk zones, such as 100-year floodplain and unstable slopes.
99. After placement of the soil layer, track walk the slopes perpendicular to the contour to stabilize the soil until vegetation is established. Track walking creates indentations that trap seed and decrease erosion of the reclaimed surfaces.
100. Revegetate the disposal site with a mix of native plant species. Cover the seeded and planted areas with mulched straw at a rate of 2 tons per acre. Apply jute netting or similar erosion control fabric on slopes greater than 2:1 if site is erosive.

E. Water Storage and Use

WATER USE

101. Conduct operations on a size and scale that considers available water sources and other water use and users in the planning watershed.
102. Implement water conservation measures such as rainwater catchment systems, drip irrigation, mulching, or irrigation water recycling. (Also see BMPs for Irrigation, below)
103. Take measures to minimize water diversion during low flow periods.
104. Options for documentation of water diversions and/or water usage may include the use of water meter devices and date-stamped photographs of water meter readings.
105. Hauled water utilized for irrigation shall be documented via receipt or similar, and show the date, name, and license plate of the water hauler, and the quantity of water purchased.
106. Apply water at agronomic rates (do not overwater plants).

WATER STORAGE

107. If using a water storage tank, do not locate the tank in a flood plain or next to equipment that generates heat. Locate the tank so it is easy to install, access, and maintain.
108. Vertical tanks should be installed according to manufacturer's specifications and placed on firm, compacted soil that is free of rocks/sharp objects and capable of bearing the weight of the tank and its maximum contents. In addition, a sand or pea gravel base with provisions for preventing erosion is highly recommended. Installation sites for tanks 8,000 gallons or more must be on a reinforced concrete pad providing adequate support and enough space to attach a tank restraint system (anchor using the molded-in tie down lugs with moderate tension, being careful not to over-tighten), especially where seismic or large wind forces are present.
109. Horizontal tanks shall be secured with bands and/or hoops to prevent tank movement.
110. Design and construct storage ponds in properly sited locations, off-stream. Plant vegetation along the perimeter of the pond. Construct berms or excess freeboard space around the perimeter of the pond to allow for sheet flow inputs.
111. Provide adequate outlet drainage for overflow of ponds, including low impact designs, to promote dispersal and infiltration of flows.
112. Place proper lining or sealing in ponds to prevent water loss.

113. Storage bladders are not encouraged for long term water storage reliability. If they are utilized, ensure that they are designed to store water, and that they are sited to minimize potential for water to flow into a watercourse in the event of a catastrophic failure. Used bladders (e.g. military surplus bladders) shall be checked for interior residual chemicals and integrity prior to use. Inspect bladder and containment features periodically to ensure integrity.

F. Irrigation Runoff

114. Irrigate at rates to avoid or minimize runoff.
115. Regularly inspect for leaks in mains and laterals, in irrigation connections, or at the ends of drip tape and feeder lines. Repair any found leaks.
116. Design irrigation system to include redundancy (i.e., safety valves) in the event that leaks occur, so that waste of water is prevented and minimized.
117. Recapture and reuse irrigation runoff (tailwater) where possible, through passive (gravity-fed) or active (pumped) means.
118. Construct retention basins for tailwater infiltration; percolation medium may be used to reduce pollutant concentration in infiltrated water. Constructed treatment wetlands may also be effective at reducing nutrient loads in water. Ensure that drainage and/or infiltration areas are located away from unstable or potentially unstable features.
119. Regularly replace worn, outdated or inefficient irrigation system components and equipment.
120. Use mulches (e.g. wood chips or bark) in cultivation areas that do not have ground cover to prevent erosion and minimize evaporative loss.
121. Leave a vegetative barrier along the property boundary and interior watercourses to act as a pollutant filter.
122. Employ rain-triggered shutoff devices to prevent irrigation after precipitation.

G. Fertilizers, Soil Amendments, Pesticides, Petroleum Products, and Other Chemicals

123. Evaluate irrigation water, soils, growth media, and plant tissue to optimize plant growth and avoid over-fertilization.
124. Reference Department of Pesticide Regulations Guidance (see Attachments E-1 and E-2 of Order No. R1-2015-0023)
125. All chemicals shall be stored in a manner, method, and location that ensures that there is no threat of discharge to waters of the state.
126. Products shall be labeled properly and applied according to the label.
127. Use integrated pest management strategies that apply pesticides only to the area of need, only when there is an economic benefit to the grower, and at times when runoff losses are least likely, including losses of organic matter from dead plant material.

128. Periodically calibrate pesticide application equipment.
129. Use anti-backflow devices on water supply hoses, and other mixing/loading practices designed to reduce the risk of runoff and spills.
130. Petroleum products shall be stored with a secondary containment system.
131. Throughout the rainy season, any temporary containment facility shall have a permanent cover and side-wind protection, or be covered during non-working days and prior to and during rain events.
132. Materials shall be stored in their original containers and the original product labels shall be maintained in place in a legible condition. Damaged or otherwise illegible labels shall be replaced immediately.
133. Bagged and boxed materials shall be stored on pallets and shall not be allowed to accumulate on the ground. To provide protection from wind and rain throughout the rainy season, bagged and boxed materials shall be covered during non-working days and prior to rain events.
134. Have proper storage instructions posted at all times in an open and conspicuous location.
135. Prepare and keep onsite a Spill Prevention, Countermeasures, and Cleanup Plan (SPCC Plan) if applicable⁴.
136. Keep ample supply of appropriate spill clean-up material near storage areas.

H. Cultivation-Related Wastes

137. Cultivation-related waste shall be stored in a place where it will not enter a stream. Soil bags and other garbage shall be collected, contained, and disposed of at an appropriate facility, including for recycling where available. Pots shall be collected and stored where they will not enter a waterway or create a nuisance. Plant waste and other compostable materials be stored (or composted, as applicable) 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.
138. Imported soil for cultivation purposes shall be minimized. The impacts associated with importation of soil include, but are not limited to increased road maintenance and the increased need for spoils management. Use of compost increases the humic acid content and water retention capacity of soils while reducing the need for fertilizer application. In the event that containers (e.g. grow bags or grow pots) are used for cultivation, reuse of soil shall be maximized to the extent feasible.

⁴ SPCC plans are required for over 1,320 gallons of petroleum stored aboveground or 42,000 gallons below ground. Additionally, any type of storage container requires an SPCC if it is larger than 20,000 gallons, or if the cumulative storage capacity on-site exceeds 100,000 gallons (Health and Safety Code section 25270-25270.13) A sample SPCC can be found here: <http://www.calcupa.net/civica/filebank/blobdload.asp?BlobID=3186>

139. Spent growth medium (i.e. soil and other organic medium) shall be handled to minimize discharge of soil and residual nutrients and chemicals to watercourses. Proper handling of spent soil could include incorporating into garden beds, spreading on a stable surface and revegetation, storage in watertight dumpsters, covering with tarps or plastic sheeting prior to proper disposal, and use of techniques to reduce polluted runoff described under Item F. Irrigation Runoff.
140. Other means of handling cultivation-related waste may be considered on a site-specific basis.

I. Refuse and Human Waste

141. Trash containers of sufficient size and number shall be provided and properly serviced to contain the solid waste generated by the project. Provide roofs, awnings, or attached lids on all trash containers to minimize direct precipitation and prevent rainfall from entering containers. Use lined bins or dumpsters to reduce leaking of liquid waste. Design trash container areas so that drainage from adjoining roofs and pavement is diverted around the area(s) to avoid run-on. This might include berming or grading the waste handling area to prevent run-on of stormwater. Make sure trash container areas are screened or walled to prevent off-site transport of trash. Consider using refuse containers that are bear-proof and/or secure from wildlife. Refuse shall be removed from the site on a frequency that does not result in nuisance conditions, transported in a manner that they remain contained during transport, and the contents shall be disposed of properly at a proper disposal facility.
142. Ensure that human waste disposal systems do not pose a threat to surface or ground water quality or create a nuisance. Onsite treatment systems should follow applicable County ordinances for human waste disposal requirements, consistent with the applicable tier under the State Water Resources Control Board Onsite Waste Treatment System Policy⁵.

⁵ Available at: http://www.waterboards.ca.gov/water_issues/programs/owts/docs/owts_policy.pdf (as of the date of the Order).

IV. References

Handbook for Forest, Ranch, & Rural Roads: A Guide for Planning, Designing, Constructing, Reconstructing, Upgrading, Maintaining, and Closing Wildland Roads
http://www.pacificwatershed.com/sites/default/files/handbook_chapter_download_page.pdf

A Water Quality and Stream Habitat Protection Manual for County Road Maintenance in Northwestern California Watersheds
<http://www.5counties.org/roadmanual.htm>

Construction Site BMP Fact Sheets
<http://www.dot.ca.gov/hq/construc/stormwater/factsheets.htm>

EPA Riparian/Forested Buffer
<http://water.epa.gov/polwaste/npdes/swbmp/Riparian-Forested-Buffer.cfm>

Creating Effective Local Riparian Buffer Ordinances
http://www.rivercenter.uga.edu/publications/pdf/riparian_buffer_guidebook.pdf

How to Install Residential Scale Best Management Practices (BMPs) in the Lake Tahoe Basin
<http://www.tahoebmp.org/Documents/Contractors%20BMP%20Manual.pdf>

Spoil Pile BMPs
http://michigan.gov/documents/deq/deq-wb-nps-sp_250905_7.pdf

Sanctuary Forest Water Storage Guide
http://agwaterstewards.org/images/uploads/docs/1213661598_Water_Storage_Guide.pdf

Natural Resources Conservation Service-USDA, "Ponds – Planning, Design, Construction", Agriculture Handbook
http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs144p2_030362.pdf

Division of Safety of Dams size requirements
<http://www.water.ca.gov/damsafety/jurischart/>

Water Tanks: Guidelines for Installation and Use
http://dnn7.snydernet.com/_pdf/_septic/Septic%20Catalog%202010.pdf

BEST MANAGEMENT PRACTICES (BMP's) University of California Cooperative Extension
http://www.waterboards.ca.gov/sandiego/water_issues/programs/wine_country/docs/updates081910/ucce_bmps.pdf

California Stormwater Quality Association
Section 4: Source Control BMPs
<https://www.casqa.org/sites/default/files/BMPHandbooks/sd-12.pdf>

CA DOT Solid Waste Management Plan
<http://www.dot.ca.gov/hq/construc/stormwater/WM-05.pdf>

State Water Resources Control Board Onsite Wastewater Treatment System (OWTS) policy
http://www.waterboards.ca.gov/water_issues/programs/owts/docs/owts_policy.pdf

California Stormwater Quality Association

Section 4: Source Control BMPs

<https://www.casqa.org/sites/default/files/BMPHandbooks/sd-32.pdf>

California Riparian Habitat Restoration Handbook

http://www.conservation.ca.gov/dlrp/watershedportal/InformationResources/Documents/Restoration_Handbook_Final_Dec09.pdf

The Practical Streambank Bioengineering Guide

http://www.nrcs.usda.gov/Internet/FSE_PLANTMATERIALS/publications/idpmcpu116.pdf

150728_KVG_ef_AppendixB_BMP

Attachment for Additional Best Management practices

BMPs: Permanent Culvert Crossing

New culvert installations shall be sized to accommodate a 100-year storm.

New culverts shall be placed at stream gradient or have the outlets armored down to the natural channel:

Align culverts with the natural stream channel orientation to ensure proper function, prevent bank erosion and minimize debris plugging.

Place culverts at the base of the fill and at the grade of the original streambed or armor outlets down to the natural channel.

Culverts should be set slightly below the original stream elevation so that the water drops several inches as it enters the pipe.

Culvert beds should be composed of rock-free soil or gravel, evenly distributed under the length of the pipe.
o Compact the base and sidewall material before placing the pipe in its bed.

Lay the pipe on a well-compacted base. Poor basal compaction will cause settling or deflection in the pipe and can result in separation at a coupling or rupture in the pipe wall.

Backfill material should be free of rocks, limbs or other debris that could dent or puncture the pipe or allow water to seep around the pipe.

Cover one end of the culvert pipe, then the other end. Once the ends are secure, cover the center.

Tamp and compact backfill material throughout the entire process, using water as necessary for compaction. Backfill compacting will be done in 0.5 – 1.0 foot lifts until 1/3 of the diameter of the culvert has been covered.

Push layers of fill over the crossing to achieve the final design road grade, at a minimum of one-third to one-half the culvert diameter.

Critical dips shall be installed on culvert crossings to eliminate diversion potential.

Road approaches to permanent culvert crossings shall be rock surfaced with competent rock out to the first drainage structure (i.e. waterbar) or hydrologic divide to prevent transport of sediment.

Road surfaces and ditches shall be disconnected from streams and stream crossings to the greatest extent feasible. Ditches and road surfaces that cannot be feasible disconnected from streams or stream crossings shall be seeded and mulched as described in Item 18, Section II.

Culverts shall be long enough so that road fill does not extend or slough past the culvert ends.

Inlet and outlets of culverts and associated fill shall be armored with rock that extends at least as high as the top of the culvert. Rock used at culvert inlets and outlets should be a matrix of various sized rocks and rip-rap that range from a 3" dia. to a 2' dia.

Bank and channel armoring may occur when appropriate to provide channel and bank stabilization.

Stabilize the site pursuant to Item 18, Section II.

See General BMPs for additional information.

BMP: Rolling Dip

Rolling dips are drainage structures designed to carry surface water across roads.

The truck road shall dip into and out of the rolling dip to minimize diversion potential.

The rolling dip shall be constructed with clean native materials,

The rolling dips outlet may be armored to resist down cutting and erosion.

Do not discharge rolling dips into swales that show signs of instability or active landsliding.

If the rolling dip is designed to divert both road surface and ditch runoff, block the down-road ditch with compacted fill.

The rolling dip must be drivable and not significantly inhibit traffic and road use.

Stabilize the site pursuant to Item 18, Section II.

BMP: General BMPs

If operations require moving of equipment across a flowing stream, such operations shall be conducted without causing a prolonged visible increase in stream turbidity.

During construction in flowing water, which can transport sediment downstream, the flow shall be diverted around the work area by pipe, pumping, temporary diversion channel or other suitable means. When any dam or artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall at all times be allowed to pass downstream to maintain life below the dam. Equipment may be operated in the channel of flowing live streams only as necessary to construct the described construction.

Disturbance or removal of vegetation shall not exceed the minimum necessary to complete operations. The disturbed portion of any stream channel shall be restored to as near their original condition as possible. Restoration shall include the mulching of stripped or exposed dirt areas at crossing sites prior to the end of the work period.

No debris, soil, silt, sand, bark, slash, sawdust, rubbish, cement or concrete washing, oil or petroleum products, or other organic or earthen material from any logging, construction, or associated activity of whatever nature shall be allowed to enter into or be placed where it may be washed by rainfall or runoff into waters of the State. When operations are completed, any excess materials or debris shall be removed from the work area. No rubbish shall be deposited within 150 feet of the high water mark of any stream.

Please indicate County where
your project is located here:

MAIL FORM AND ATTACHMENTS TO:
State Water Resources Control Board
DIVISION OF WATER RIGHTS
P.O. Box 2000, Sacramento, CA 95812-2000
Tel: (916) 341-5300 Fax: (916) 341-5400
<http://www.waterboards.ca.gov/waterrights>

REGISTRATION FOR SMALL DOMESTIC USE APPROPRIATION

Registration No. _____

Please leave the Registration No. field blank unless you have a current registration and are filing an amended form for the purpose of changing either the point of diversion or place of use.

- ☐ ***New! In response to the Governor's Drought Emergency, the California Department of Fish and Wildlife collaborated with the State Water Resources Control Board to develop an Emergency Tank Storage Registration program to expedite processing of Small Domestic Use registrations that meet certain criteria. For more information, refer to the Process Guide at the end of this form. If your registration meets the program's criteria, please mark this box and complete the additional required items, as described in the Process Guide.***

The following information is provided to help you understand the general process necessary for you to register your water use with the Division of Water Rights.

1. The section titled *Program Limitations* contained within the *Process Guide* at the end of this form contains information about the Registration program. You should review that section to determine whether or not a registration will be accepted for your project. If you have questions about the Registration program, call the number at the top of this page.
2. To submit a registration for your project, complete this form, providing attachments, including the self-certification form for Emergency Tank Storage Registrations, if necessary. The *Process Guide* at the end of this form may be helpful. If you have questions about this form, call the number at the top of this page.
3. Review the Division of Water Rights' general conditions for this registration at http://www.waterboards.ca.gov/waterrights/publications_forms/forms/docs/sdulsu_conditions.pdf.
4. Send the following to the address at the top of this page: (1) completed form; (2) required attachments, including the self-certification form for Emergency Tank Storage Registrations; and, (3) a check or money order made payable to the Division of Water Rights for a \$250 filing fee. Please note that the \$250 filing fee is non-refundable.
5. The Division of Water Rights will review the form for completeness and eligibility for the registration program. Once complete, the Division of Water Rights will send the form and attachments to the California Department of Fish and Wildlife, who will have a 90-day period (waived for Emergency Tank Storage Registrations) to review the information to determine whether any lawful conditions are necessary for your registration. Staff from the California Department of Fish and Wildlife may contact you to arrange for a site visit or ask for any other information.
6. If the California Department of Fish and Wildlife develops lawful conditions for your registration, they will provide the conditions to the Division of Water Rights. The Division of Water Rights will issue you a certificate that establishes your water right.
7. Once your certificate is issued, you will be required to comply with all conditions, including the Division of Water Rights' general conditions and all lawful conditions required by the California Department of Fish and Wildlife. You will be required to renew your registration every five years. Your certificate will be subject to revocation if you fail to comply with all conditions, fail to divert and use the water, fail to renew your certificate, or if you are found to have made a false statement or knowingly concealed a material fact when completing this form.

1. PRIMARY OWNER INFORMATION

Each registration must designate a Primary Owner. The Primary Owner is either the sole owner or a co-owner of the registration who will act on the behalf of all of the co-owners, unless an Agent is designated.

Lauren Miller

(Name of Primary Owner)

Humboldt Partner Group

(Company)

Lauren@humboldtpg.com

(Email Address)

() -
(Phone Number between 8 am and 5 pm)

19049 Hwy 299 Blue Lake Ca 95525

(Mailing Address)

2. NON-PRIMARY OWNER INFORMATION

Additional co-owners of the registration may be designated as Non-Primary Owners. Attach additional sheets if more than three Non-Primary Owners are designated.

(Name of Non-Primary Owner)

(Company)

(Email Address)

() -
(Phone Number between 8 am and 5 pm)

(Mailing Address)

(Name of Non-Primary Owner)

(Company)

(Email Address)

() -
(Phone Number between 8 am and 5 pm)

(Mailing Address)

(Name of Non-Primary Owner)

(Company)

(Email Address)

() -
(Phone Number between 8 am and 5 pm)

(Mailing Address)

3. AGENT INFORMATION

A registration may designate an Agent to act on the behalf of owner(s) of a registration.

Peter Hill

(Name of Agent)

Green Road Consulting, Inc.

(Company)

peter@greenroadconsulting.com

(Email Address)

(707) 630 - 5041
(Phone Number between 8 am and 5 pm)

1650 Central Avenue, Suite C McKinleyville, CA 95519

(Mailing Address)

4. PROJECT DESCRIPTION

a. What is the address of the property where the project is located?

19049 Hwy 299 Blue Lake Ca 95525

(Property Address)

(City)

(State)

(Zip Code)

b. Is your project ☒ complete, ☐ partially complete, or ☐ proposed?

c. Does your project include storage of water in one or more ponds? ☐ Yes ☒ No

If you answered Yes above, does your project include storage of water in at least one onstream pond? ☐ Yes ☒ No

d. Provide a detailed description of your project, including but not limited to method of water diversion, type of construction activity, area to be graded or excavated, and a general overview of how you will operate the project. Identify the features of your project that are complete, partially complete, or proposed. If you have a pond, a pond survey prepared by a registered civil engineer or land surveyor should be submitted, if available. Attach additional pages and documents as necessary.

The project includes an existing residence in Humboldt County, APN:316-111-07

The registrant diverts water from a unnamed stream that is a tributary to Redwood Creek. In an effort to provide clean, fresh drinking water for the occupants, a traditional forbearance period is not suggested for domestic use. Water diversion is anticipated to be conducted on an as needed basis, as opposed to a continuous diversion.

5. COMPLETION SCHEDULE

a. Have you diverted and used water using any of the features of this project? ☒ Yes ☐ No If you answered Yes, provide the year that water was first diverted and used: 2014

b. If your project is partially complete or proposed, provide the following:

Year work will start _____

Year work will be completed _____

6. LOCATION OF PROJECT

Your registration may not be acceptable without accurate information showing the source of water and location of water diversion, storage and use. You must submit a topographic map or aerial photograph with this form that clearly indicates the location of (1) the point(s) of diversion and (2) the place of use, including all structures and equipment related to diversion and use of water under this registration.

a. Indicate whether you have submitted a ☒ topographic map or an ☐ aerial photograph.

b. For the point(s) of diversion, provide the following:

County Humboldt Assessor's Parcel Number(s) 316-111-003

c. For the place of use, provide the following:

County Humboldt Assessor's Parcel Number(s) 316-111-003

7. SOURCE OF WATER

a. The name of the stream or the source of the water for your project is:

unnamed stream tributary to Redwood Creek
(If unnamed, state that it is an unnamed stream, spring, etc.)

b. In a normal year, does the stream dry up at any point downstream from your project? ☐ Yes ☒ No

If Yes, during what months is it usually dry? From _____ to _____

c. Do you claim an existing right for the point of diversion or place of use identified in this registration? ☐ Yes ☒ No

If Yes, describe the existing right (include record numbers assigned by the State Water Board):

d. Do you have other sources of water available to support this registration's purpose of use (e.g. domestic) if water diverted and used under this registration is insufficient? ☐ Yes ☒ No

If Yes, describe the sources (include record numbers assigned by the State Water Board):

8. PURPOSE OF USE, AMOUNT, SEASON AND DIVERSION WORKS

In the table below, check the box next to each of the purposes of use for water diverted under this registration, and enter the information requested for rate, amount, and season. If you do not indicate Domestic as a purpose of use, any of the other purposes of use must be associated with a dwelling or other facility for human occupation. Your registration may not exceed a direct diversion rate of 4,500 gallons per day or a diversion to storage amount of 10 acre-feet per year. You may apply for both direct diversion and diversion to storage on the same registration. Provide the requested information regarding the capacities of your diversion works.

Purpose of Use		Direct Diversion ^a				Diversion to Storage ^b		
		Rate gallons per day	Amount acre-feet per year	Season		Amount acre-feet per year	Season	
				Begin Date month and day	End Date month and day		Begin Date month and day	End Date month and day
☒	Domestic	300	.336	1-1	12-31			
☐	Aesthetic							
☐	Fire Protection							
☐	Recreational							
☐	Fish and Wildlife							
Maximum Rate and Amount by Direct Diversion		300	.336	Maximum Amount by Diversion to Storage				

- a. Direct Diversion. If you entered information for Direct Diversion in the table above, provide the information requested below:

The method of diversion is:

☐ Gravity by means of _____
(dam, pipe, etc.)

☒ Pumping from channel
(channel, well, etc.)

- b. Diversion to Storage. If you entered information for Diversion to Storage in the table above, provide the information requested below:

(1) If your registration includes tanks or ponds, complete the appropriate section below:

Tank Characteristics

Existing Tanks	
Number	Total Capacity
1	2500

Proposed Tanks	
Number	Total Capacity

Pond Characteristics

Name (if any)	Depth, maximum	Surface Area, when full	Capacity*
	feet	acre	acre-feet

*If necessary, use this formula: Capacity = Depth x Surface Area x 0.7

(2) For tanks or offstream ponds only, provide the information requested below:

The maximum rate of diversion to storage is _____ gallons per day.

The method of diversion is:

☐ Gravity by means of _____ ☐ Pumping from _____
(dam, pipe, etc.) (channel, well, etc.)

9. JUSTIFICATION OF AMOUNT

a. If use is DOMESTIC, complete the following:

(1) Describe the use of water for human habitation (e.g. human consumption, cooking, sanitary use, etc):

Provide the number of establishments to be served by the water:

1 Home ___ Cabin ___ Resort ___ Motel ___ Organization Camp
___ Camp Grounds 1 Other (Describe: Shop)

Are any of the establishments separately owned? ☐ Yes ☒ No

Total number of people to be served is 4. Estimated use per person is 75 gallons/day.

(2) Will the water be used for the incidental watering of domestic stock for family sustenance or enjoyment? ☐ Yes ☒ No

If you answered Yes, provide a description, including the number and type of domestic stock to be served:

(3) Will the water be used for incidental irrigation not to exceed one-half acre in lawn, ornamental shrubbery, or gardens? ☐ Yes ☒ No

If you answered Yes, provide the following:

Total area for irrigation is _____ square feet.

Will water be used for the production of irrigated crops? ☐ Yes ☐ No

If you answered Yes, describe the production of irrigated crops:

Describe how irrigation use is incidental (secondary) to the primary use for human habitation (e.g. human consumption, cooking, sanitary use, etc):

- b. If use is not DOMESTIC, the diversion of water is required to be associated with a dwelling or other facility for human occupation. Describe how your project meets this requirement:

10. RIGHT OF ACCESS

- a. Do you own all of the land where the water will be diverted, stored, and used? Yes ☐ No ☒

If you answered No to item (a), complete item (b) below.

- b. Do you have a recorded easement or written authorization allowing access? Yes ☐ No ☐

If you answered Yes to item (b), provide the name and mailing addresses of the person(s) allowing access in below. If you answered No to item (b), provide the names and mailing addresses of all affected landowners and describe your process for obtaining access:

The property is leased to Lauren Miller from owner Richard Smith of
21 Crest Rd, Fairfax Ca 94930. All of the water that is diverted is from inside the parcel
and the owner has given Lauren permission to apply for the proper water right for the Residence.

11. LAKE OR STREAMBED ALTERATION AGREEMENT

For informational purposes only, if you have submitted to the California Department of Fish and Wildlife a notification to obtain a lake or streambed alteration agreement for the project covered by this registration, please provide the notification number below, if assigned.

Notification No. _____

Please note that a California Department of Fish and Wildlife notification is **not** necessary for the Division of Water Rights to accept your registration form.

12. PHOTOGRAPHS

Your registration may not be acceptable unless you provide one complete set of color photographs, clearly dated and labeled, showing the following:

☒ Point(s) of Diversion ☒ Diversion Works ☒ Tank(s) or Pond(s) ☒ Place of Use

The source (stream), both ☒ Upstream and ☒ Downstream of the Point(s) of Diversion

13. CERTIFICATION AND SIGNATURE

By initialing below and signing and submitting this form to the State Water Resources Control Board, I certify that:

ph
(initials) I understand that the Division of Water Rights will, on my behalf, contact the California Department of Fish and Wildlife for the region in which my project is located;

ph
(initials) I understand that the Division of Water Rights will, on my behalf, provide the information set forth in this registration form to the California Department of Fish and Wildlife for the region in which my project is located; and,

ph
(initials) I will comply with all lawful terms and conditions, including terms and conditions identified in the Division of Water Rights' general conditions and any conditions required by the California Department of Fish and Wildlife.

I declare under penalty of perjury that the information provided in this form and attachments is true and correct to the best of my knowledge and belief.

Signature of (select one): ☐ Primary Owner or ☐ Agent

Date of Signature

CHECKLIST FOR SUBMISSION OF A REGISTRATION FOR SMALL DOMESTIC USE APPROPRIATION

Before you submit your registration, be sure to:

- ☐ Answer each question completely, including any supplemental information (if applicable) required for the Emergency Tank Storage Registrations.
- ☐ Number, label, and include all necessary attachments.
- ☐ Include the required topographic map(s) or aerial photograph(s) – see section 6.
- ☐ Include one complete set of color photographs – see section 12.
- ☐ Include payment of the required fee of \$250, payable to the Division of Water Rights.
- ☐ Complete the certification (section 13 above), including signature and date of signature.

Submit the registration packet to the following address:

**Division of Water Rights
State Water Resources Control Board
PO Box 2000
Sacramento CA 95812-2000**

Process Guide for Registration for Small Domestic Use Appropriation

PROGRAM LIMITATIONS

If you have questions regarding the Registration program, contact the Division of Water Rights at (916) 341-5300.

California law allows for the registration of appropriations of water for small domestic use. Small Domestic Use is defined as: "that use is defined by board rule, or use for aesthetic, fire protection, recreational, or fish and wildlife purposes that is associated with a dwelling or other facility for human occupation that does not exceed direct diversion of 4,500 gallons per day or diversion to storage of 10 acre-feet per annum." (Wat. Code, § 1228.1, subd. (b)(1).)

Registrations cannot be approved under any of the following conditions:

(1) the diversion of water will be from a stream segment for which the Director of the California Department of Fish and Wildlife has established minimum streamflow requirements;

(2) the diversion of water will be from a stream declared by the State Water Resources Control Board to be fully appropriated during the season of proposed use. A list of fully appropriated streams is available here:
http://www.waterboards.ca.gov/waterrights/water_issues/programs/fully_appropriated_streams/;

(3) the facility included in the registration is already served by or used pursuant to a small domestic use registration or a water right permit or license for domestic or municipal purposes;

(4) the facility included in the registration is already used pursuant to a small irrigation use registration, unless the total combined water use does not exceed 20 acre-feet per year;

(5) the registration includes more than 5 reservoirs; or,

(6) the place of use exceeds a total irrigated lawn and garden area of ½ acre per parcel.

Once a water right registration is issued for your project, you will not be able to (1) change the purpose of use; (2) increase the amount of water diverted; or, (3) increase the season of diversion of the water. If you need to change the purpose of use, divert more water or increase your season of diversion, you will need to obtain a valid basis of right.

You may change the point of diversion or place of use at any time by completing this form and submitting it to the Division of Water Rights with a \$250 fee.

CONDITIONS

Diversion and use of water subject to water right registrations is conditioned upon compliance with both (1) the Division of Water Rights' general conditions and (2) the California Department of Fish and Wildlife conditions.

The Division of Water Rights maintains a list of current general conditions, which apply to all new and renewed Small Domestic Use registrations. When your registration is approved and a certificate is issued for the water right, diversion and use of water under that right will be subject to the general conditions. When your water right is renewed every five years, the general conditions that are in effect at the time of renewal will be incorporated into your water right. The general conditions are available here:

http://www.waterboards.ca.gov/waterrights/publications_forms/forms/docs/sdu_conditions.pdf

The California Department of Fish and Wildlife may impose lawful conditions upon the diversion subject to your water right registration. They may impose an initial set of conditions at any time, and may revise those conditions when your water right is renewed every five years.

The California Department of Fish and Wildlife has developed general conditions, to be applied in lieu of site specific special conditions, for registrations meeting certain criteria, as described below.

EMERGENCY TANK STORAGE REGISTRATIONS

In response to the Governor's Drought Emergency declared on January 17, 2014, the California Department of Fish and Wildlife has developed a set of general conditions for registrations that meet the following criteria:

(1) the registration is submitted during a Drought Emergency declared by the Governor;

(2) the registration is submitted for a project that includes an existing water right that is currently being exercised for domestic use;

(3) the registration proposes storage in closed tank systems constructed of rigid materials (not open ponds or bags/bladders);

(4) the storage will provide sufficient water for at least 60 days of use based on the daily amounts described in the registration and include a period of forbearance whereby the registrant agrees to not divert water under any basis of right for domestic purposes related to the project described in the registration unless allowed under the

California Department of Fish and Wildlife general conditions (see condition 16);

(5) the project is located in coastal streams within the boundaries of the California Department of Fish and Wildlife's Region 1 or Region 3 (see attached map); and,

(6) the registrant completes and submits the required self-certification form (attached).

The California Department of Fish and Wildlife's general conditions for Emergency Tank Storage Registrations are available here:

http://www.waterboards.ca.gov/waterrights/publications_forms/forms/docs/cdfw_conditions.pdf

The general conditions allow you to develop your project on an expedited basis, without waiting for an initial site inspection from California Department of Fish and Wildlife staff and the development of individually tailored special conditions.

CAUSE FOR REJECTION

Your registration may not be accepted if: (1) this form is not completed in a bona fide attempt to conform to the rules and regulations of the Division of Water Rights; (2) the \$250 filing fee is not included; or, (3) the registration otherwise does not meet the entrance requirements for the Registration program as described in the *Program Limitations* section above.

If your project is located within the watershed of any river designated as part of the California Wild and Scenic Rivers System, the Division of Water Rights will need to review the project in accordance with California Code of Regulations, title 23, section 734. A registration which proposes to construct a dam, reservoir or other water impoundment facility on a designated river will not be accepted. The following registration types will be accepted, but will be subject to review by the California Natural Resources Agency: (1) the registration proposes to construct a water diversion facility other than a dam, reservoir or other water impoundment facility on a designated river or (2) the registration could affect a designated river will be accepted, but will be subject to a special notice to the California Natural Resources Agency for review of the project.

CAUSE FOR REVOCATION

Once you have received a water right for your registration, your water right will be subject to revocation if any of the following occur:

(1) You abandon or forfeit the right for nonuse pursuant to Water Code section 1241;

(2) The Division of Water Rights finds that you knowingly made a false statement, or knowingly concealed any material fact, in the registration;

(3) You fail to renew the registration, including failure to complete the report form and pay the renewal fee; or,

(4) You fail to comply with the conditions of the water right, including the Division of Water Rights general conditions and any lawful conditions required by the California Department of Fish and Wildlife.

INSTRUCTIONS

1. PRIMARY OWNER INFORMATION

Each registration must designate a Primary Owner. The Primary Owner is either the sole owner or a co-owner of the registration who will act on the behalf of all of the co-owners. The Primary Owner is the de facto Agent for the registration, unless an Agent is designated.

2. NON-PRIMARY OWNER INFORMATION

Additional co-owners of the registration may be designated as Non-Primary Owners. Attach additional sheets if more than three Non-Primary Owners are designated.

3. AGENT INFORMATION

A registration may designate an Agent to act on the behalf of the owner(s) of a registration.

4. PROJECT DESCRIPTION

Enter the address for the property where the project is located. Identify whether your project is complete, partially complete, or proposed. Indicate whether your project includes storage of water in a pond, and if so, whether one of the ponds is onstream. A reservoir is considered either onstream if the dam is located on a natural channel. Provide a detailed description of your project, including identification of features of the project that are complete, partially complete, or proposed. Attach project plans or surveys that were prepared and submitted for other agency approvals, and additional pages as necessary.

5. COMPLETION SCHEDULE

Provide the requested information. If you have diverted and used water using any of the features of the project, regardless of whether the project is complete, provide the year that water was first diverted and used. You may provide an estimate, if necessary. If your project is partially complete or proposed, provide the dates that work will start and be completed.

6. LOCATION OF PROJECT

Your registration may not be acceptable without accurate information showing the source of water and location of water diversion and use. You must submit a topographic map or aerial photograph with this form that clearly indicates the location of

(1) the point(s) of diversion and (2) the place of use, including all structures and equipment related to diversion and use of water under this registration.

A topographic map can be obtained from sporting goods stores or through the internet at <http://store.usgs.gov>. If you are unable to obtain a topographic map, you may obtain an aerial photograph from an online source or a local resource (such as a farm advisor).

The point of diversion is the point (or points) where water diverted under this registration is first captured. If you are diverting through a pump or other means from a stream, the location where the pump withdraws water is the point of diversion. If you have an onstream reservoir, the midpoint of the dam is the point of diversion.

The place of use is the area where water diverted under this registration will be used. Depending on the purpose of use, the place of use may include, but is not limited to, the following: structures, campgrounds, gardens, area served by stockwatering troughs, or a reservoir.

Provide the County and Assessor's Parcel Number(s) for the parcels where the point(s) of diversion and place of use are located.

7. SOURCE OF WATER

Indicate the name of the body of water from which you are diverting water and the body of water it flows into (tributary to). Answer the questions regarding the availability of water, whether you have or claim any water rights related to the features of the project, and any alternate sources of water.

8. PURPOSE OF USE, AMOUNT, SEASON AND METHOD OF DIVERSION

PURPOSE OF USE

Provide the purpose of use, amount of water requested and the season of diversion (dates that water may be diverted) under this registration. For a Small Domestic Use registration, the purpose of use may be DOMESTIC or the following purposes provided they are associated with a dwelling or other facility for human occupation: AESTHETIC, FIRE PROTECTION, RECREATIONAL, or FISH AND WILDLIFE PRESERVATION AND ENHANCEMENT.

DOMESTIC use means the use of water in homes, resorts, motels, organization camps, camp grounds, etc., including the incidental watering of domestic stock for family sustenance or enjoyment and the irrigation of not to exceed one-half acre in lawn, ornamental shrubbery, or gardens at any single establishments. The use of water at a camp ground or resort for human consumption, cooking or sanitary purposes is a domestic use. Use of water for either commercial livestock or the production of irrigated crops that is not incidental (secondary) to the primary use for human habitation (e.g. human consumption,

cooking, sanitary use, etc) is not a domestic use.

AESTHETIC use means the use of water for aesthetic purposes, such as maintenance of a pond for decoration.

FIRE PROTECTION use means the use of water to fight fires or prevent fires from spreading.

RECREATIONAL use means the use of water for resorts or other recreational establishments, boating, swimming, and fishing, and may include water which is appropriated by storage and either retained in the reservoir or released downstream to support these purposes. Use of water at a camp ground or resort for human consumption, cooking or sanitary purposes is a domestic use and irrigation of golf courses is an irrigation use.

FISH AND WILDLIFE PRESERVATION AND ENHANCEMENT use means using water to maintain or provide habitat or other benefit for fish and wildlife by taking water under control as in the following examples:

(a) The collection or diversion of water to storage for either retention in the reservoir or release downstream for the purpose of preservation or enhancement of fish or wildlife; or

(b) Direct diversion of water for the purpose of preservation or enhancement of fish or wildlife.

This category of water use includes the use of water for the raising of fish or other organisms for scientific purposes or release in the waters of the state.

AMOUNT, SEASON AND METHOD OF DIVERSION

Indicate whether you will be diverting water by Direct Diversion or Diversion to Storage. For a Small Domestic Use registration, the amount may not exceed direct diversion of 4,500 gallons per day or diversion to storage of 10 acre-feet per year.

Your registration should not request more water than will be required for the identified purposes. Typical rates of use for domestic purposes can be estimated by using the Suggested Water Duty available below.

Direct Diversion means you (1) divert water for immediate use or (2) divert water for short term collection into a sump, pond, or tank from which it will be used at a more convenient rate.

For direct diversion, provide the rate of diversion, total annual amount, and the beginning and ending dates of your diversion season for each purpose of use.

Annual amounts for direct diversion may be estimated by converting the daily diversion rate to acre-feet and then multiplying by the number of days available during the

specified season of diversion. For more information regarding conversion factors, please refer to the Table of Equivalents available below.

Indicate the method of diversion and provide the requested information.

Diversion to Storage means you plan to collect water in your pond or tank and keep it for use during a time of deficient streamflow.

For diversion to storage, provide the total annual amount, and the beginning and ending dates of your diversion season for each purpose of use.

Provide the requested information regarding the tank and/or pond characteristics and the known or estimated capacity. If you have a pond survey, provide a copy with the registration.

If your project involves diversion to offstream storage, indicate the method of diversion and provide the requested information.

SUGGESTED WATER DUTY

The suggested daily water duties provided below are maximum rates that the Division considers reasonable. If you apply for a greater rate, you must justify your request.

Generally, the annual amount of water should be calculated as: (1) for personal use or domestic stock, multiply the duty by 365, and (2) for irrigation, multiply the duty by 150.

Personal Use
(Gallons per Day per Person)

Homes, motels, resorts and camping areas equipped with:

Full plumbing	55-75
Sink and flush toilet only	40
Sink and shower only	35
Sink only	25
Outside supply only	15
Cafeteria, dining facility, etc	2.5

Campgrounds equipped with:

Faucets only	5
Washbowls, showers, flush toilets and laundry trays	30

Domestic Stock
(Gallons per Day per Head)

Dairy cows	30
Horses	15
Goats and hogs	2.5
Rabbits, poultry and other small animals	0.25

Lawn, Shrubby, or Gardens
(Gallons per Day per 100 sq ft)

Irrigation of lawn, shrubby and gardens	18.5
Sprinkling to allay dust	7.5-10

TABLE OF EQUIVALENTS

ONE CUBIC FOOT PER SECOND (cfs) is a rate of flow passing any point equal to a volume of one cubic foot of water every second (sometimes referred to as second-foot) and is equivalent to:

= 7.48 U.S. gallons per second (gps)
= 448.8 U.S. gallons per minute (gpm)
= 646,317 U.S. gallons per day (gpd)
= 1.9835 acre-feet per day
= 40 standard (statute) miners' inches
= 28.32 liters per second

ONE ACRE-FOOT (af) is the amount (volume) of water which will cover one acre to a depth of one foot, and is equivalent to:

= 43,560 cubic feet
= 325,851 U.S. gallons
= 1,233.45 cubic meters

1,000,000 U.S. GALLONS PER DAY is equivalent to:

= 1.55 cubic feet per second
= 43.81 liters per second
= 3.07 acre-feet per day
= 3,786 cubic meters per day

9. JUSTIFICATION OF AMOUNT

If you indicated that DOMESTIC is a purpose of use for water diverted under this registration, complete portion a. of this section. Domestic use requires that the primary use of water be for human habitation (e.g. human consumption, cooking, sanitary use, etc). Provide a description of how the project meets that requirement, including the requested information. If water will be used for the incidental use of livestock watering or irrigation, provide a description, including the requested information. For incidental irrigation, provide a description of how the use of water for irrigation is incidental to the primary use of domestic (e.g irrigation of lawn for aesthetic purposes related to a house).

If you indicated that DOMESTIC is not a purpose of use for water diverted under this registration, complete portion b. of this section. In order to register the diversion and use of water with the Small Domestic Use Registration Program for purposes other than DOMESTIC, the diversion and use of water is required to be associated with a dwelling or other facility for human occupation. Provide a description of how your project meets this requirement.

10. RIGHT OF ACCESS

Provide information regarding ownership. If you do not own all of the land where the water will be diverted, stored, and used, complete item (b). Property owners who may be affected by this registration will be provided notice of the registration.

11. LAKE OR STREAMBED ALTERATION AGREEMENT

If you have submitted a notification to obtain a lake or streambed alteration, provide the notification number, if assigned. This is requested for informational purposes only, and is not necessary for the Division of Water Rights to accept your form.

12. PHOTOGRAPHS

Your registration may not be acceptable unless you provide one complete set of photographs, clearly dated and labeled, that show the requested features of your project and the source (stream) upstream and downstream.

13. CERTIFICATION AND SIGNATURE

Either the Primary Owner or Agent must initial where indicated and provide a signature and date of signature. Indicate whether the signature is of the Primary Owner or Agent.

SUBMITTING YOUR REGISTRATION

Review the checklist for submission of a Registration for Small Domestic Use Appropriation. Once you have confirmed that you have completed the requested information and gathered the required attachments, send the following to the address in the box below: (1) completed form; (2) required attachments; and, (3) a check or money order made payable to the Division of Water Rights for a \$250 filing fee.

Division of Water Rights
State Water Resources Control Board
PO Box 2000
Sacramento, CA 95812-2000

Once your registration is submitted, you may use the Division of Water Rights electronic Water Rights Information Management System (eWRIMS) to check on the status of the registration by following the steps below:

1. Go to <http://www.waterboards.ca.gov/ewrims>
2. Select "eWRIMS Database System" under the heading "eWRIMS Database (View Water Rights)"
3. Accept the Public Records Act disclaimer
4. Select "Water Rights Records Search" and enter the name of the primary owner in the "Primary Owner" field
5. Either (1) Click on the Appl ID link on the left to view record information or (2) Click on "Map It" to view the location of the water right in the eWRIMS GIS system

Alternatively, you may contact the Division of Water Rights at (916) 341-5300 to check on the status of the registration.

End of guide.

SUPPLEMENTAL INFORMATION

1. Basis of Water Right _____
2. Estimated daily water use: _____ gallons per day
3. Total volume of installed storage: _____ gallons
4. Calculated forbearance period: _____ days
5. Method of diversion (check one) _____ pumping _____ gravity
6. Dates of Forbearance (inclusive) _____

INSTRUCTIONS

1. **Basis of Water Right** - Enter the Statement of Diversion and Use Number or SDU Appropriation Number.
2. **Estimated Daily Water Use** – The registrant enters the property's daily water use from section 7 of the SDU form, using the standard water duty numbers for guidance.
3. **Total Volume of Installed Storage** – The registrant enters the volume of storage they intend to install from section 6(b) in the SDU form.
4. **Calculated Forbearance Period** – The registrant divides the total amount of their declared storage (Item 3) by their daily water use estimate (Item 2) to determine the number of days they are required to forbear diversion. That number is rounded to the nearest multiple of 10 and inserted on the line.
5. **Method of Diversion** – The registrant selects the method of diversion for the project (pumping or gravity).
6. **Dates of Forbearance** – The registrant uses the days identified in the calculated forbearance period (Item 4) to identify the dates of forbearance based on the following table:

Days of Forbearance	Dates of Forbearance (inclusive)
60	August 10 – Oct. 8
70	August 5 – Oct. 13
80	July 31 – Oct. 18
90	July 26 – Oct. 23
100	July 20 – Oct. 28
110	July 15 – Nov. 2
120	July 10 – Nov. 7
130	July 5 – Nov. 12
140	June 25 – Nov. 12
150	June 15 – Nov. 12

California Department of Fish and Wildlife Regions

★ Regional Headquarters

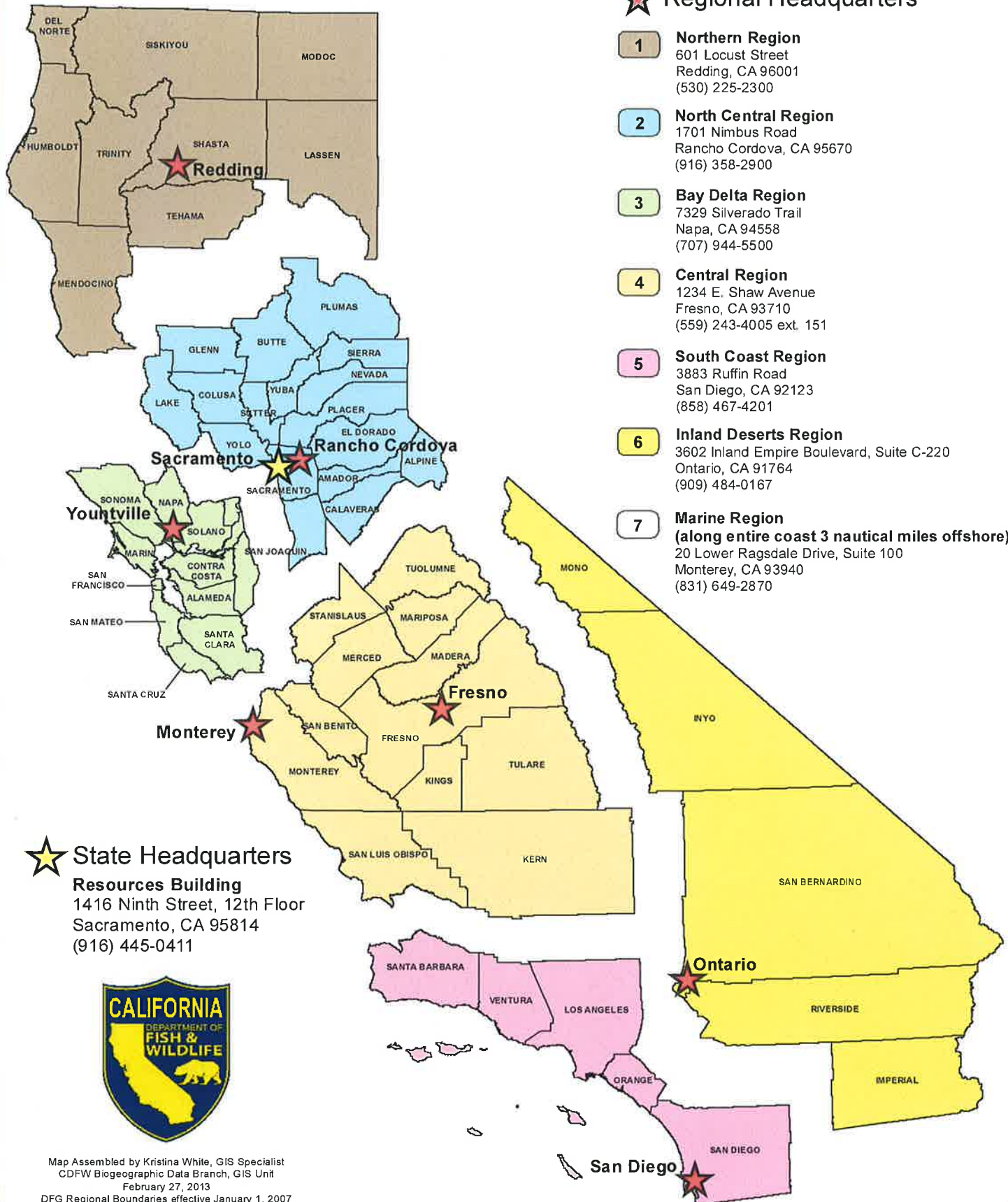
- 1 Northern Region**
601 Locust Street
Redding, CA 96001
(530) 225-2300
- 2 North Central Region**
1701 Nimbus Road
Rancho Cordova, CA 95670
(916) 358-2900
- 3 Bay Delta Region**
7329 Silverado Trail
Napa, CA 94558
(707) 944-5500
- 4 Central Region**
1234 E. Shaw Avenue
Fresno, CA 93710
(559) 243-4005 ext. 151
- 5 South Coast Region**
3883 Ruffin Road
San Diego, CA 92123
(858) 467-4201
- 6 Inland Deserts Region**
3602 Inland Empire Boulevard, Suite C-220
Ontario, CA 91764
(909) 484-0167
- 7 Marine Region**
(along entire coast 3 nautical miles offshore)
20 Lower Ragsdale Drive, Suite 100
Monterey, CA 93940
(831) 649-2870

★ State Headquarters

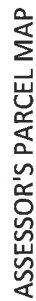
Resources Building
1416 Ninth Street, 12th Floor
Sacramento, CA 95814
(916) 445-0411



Map Assembled by Kristina White, GIS Specialist
CDFW Biogeographic Data Branch, GIS Unit
February 27, 2013
DFG Regional Boundaries effective January 1, 2007



PROJECT LOCATION



WD0	WATER DIVERSION MAP LOCATION AND NOTES
WD1	DETAILS AND SITE PHOTOS

MILLER WATER DIVERSION DETAILS

316-111-003

PROJECT LOCATION



UPSTREAM FROM POD



DOWNSTREAM FROM POD



POINTS OF USE HOUSE



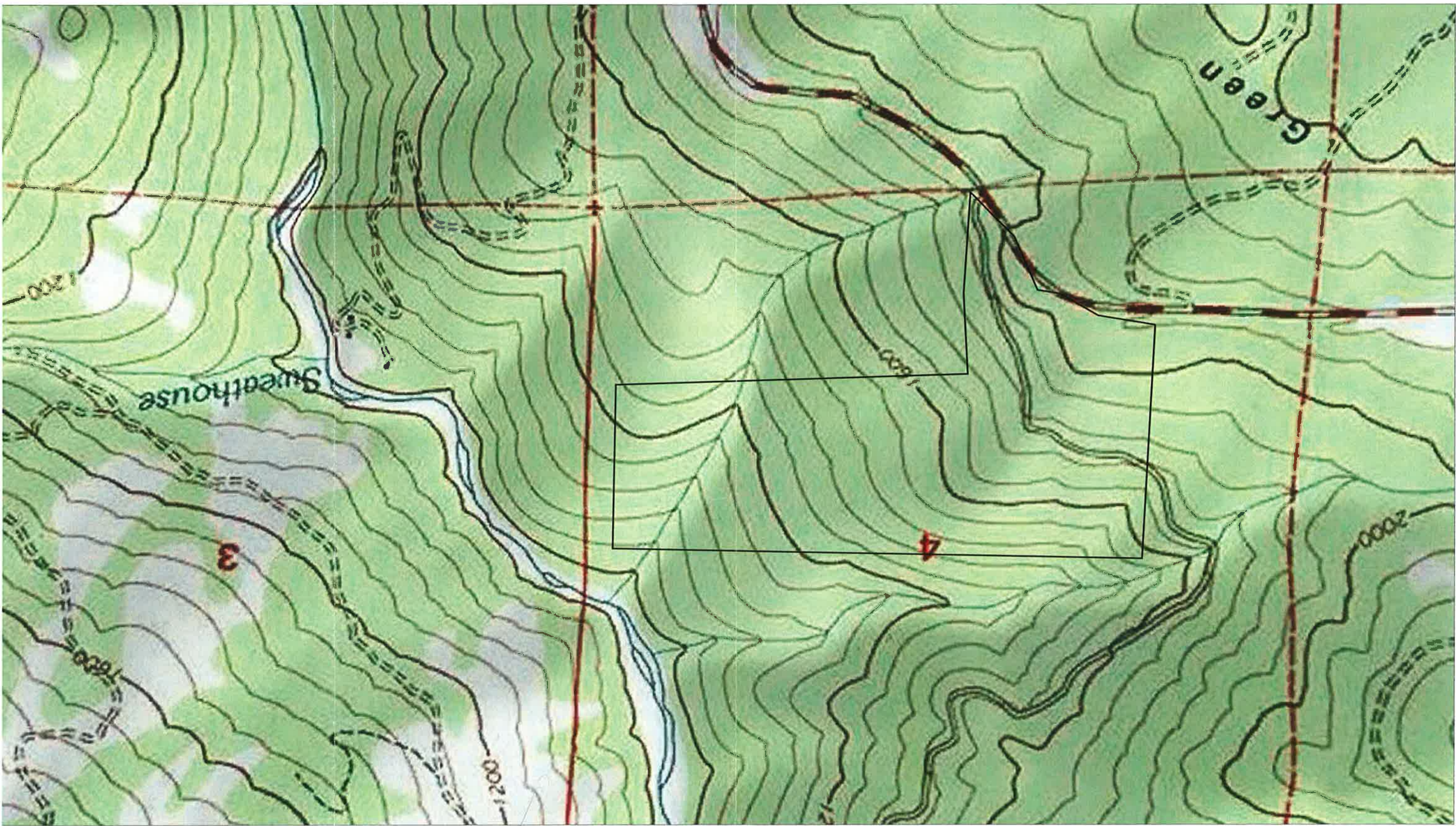
POINTS OF USE SHOP



POD STORAGE AND PUMP SHED



NOTE: ALL OF THE ABOVE PHOTOGRAPHS WERE TAKEN ON 6/28/2016





GREEN
ROAD
CONSULTING

Attachment “B”

Cultivation and Water Usage
(Humboldt Partner Group - 316-111-03)

Month	Stage of Cultivation			Cultivation Space per Stage (Square Footage)	Water Usage (gallons/month)*
	Vegging	Flowering	Harvesting		
EXAMPLE	X	X		1,200 sq. ft. – Vegging 1,500 sq. ft. – Flowering	5,000 gal/month
January					
February					
March					
April	X			4,000 sq. ft. – Vegging	1,800 gal/month
May	X			9,000 sq. ft. – Vegging	4,185 gal/month
June	X	X		10,000 sq. ft. – Vegging 5,000 sq. ft. – Flowering	9,750 gal/month
July		X	X	6,500 sq. ft. – Vegging 5,000 sq. ft. – Flowering	8,680 gal/month
August		X		11,500 sq. ft. – Flowering	10,695 gal/month
September		X		11,500 sq. ft. – Flowering	10,350 gal/month
October		X	X	11,500 sq. ft. – Flowering	7,130 gal/month
November					
December					

*With a Plant Density of 0.9



GREEN
ROAD
CONSULTING

Attachment “C”

Artificial Light and Generator Use
(Humboldt Partner Group – 316-111-03)

Month	Estimated Hours of Generator use (By Time of Day, ex. 12:00 pm – 3:00 pm)	Estimated Hours of Artificial Light Use (By Time of Day, ex. 12:00 pm – 3:00 pm)
January	n/a	Cultivation Area #2: 8 am – 2 am Cultivation Area #1: Sunset – 2 am
February	n/a	Cultivation Area #2: 8 am – 2 am Cultivation Area #1: Sunset – 2 am
March	n/a	Cultivation Area #2: 8 am – 2 am Cultivation Area #1: Sunset – 2 am
April	n/a	Cultivation Area #2: 8 am – 2 am Cultivation Area #1: Sunset – 2 am
May	n/a	Cultivation Area #1: Sunset – 11 pm
June	n/a	Cultivation Area #1: Sunset – 11 pm
July	n/a	Cultivation Area #1: Sunset – 11 pm
August	n/a	No Lights Used
September	n/a	No Lights Used
October	n/a	No Lights Used
November	n/a	Cultivation Area #2: 8 am – 2 am Cultivation Area #1: Sunset – 2 am
December	n/a	Cultivation Area #2: 8 am – 2 am Cultivation Area #1: Sunset – 2 am



**GREEN
ROAD**
CONSULTING

Applicant: Humboldt Partner Group

Parcel: 316-111-03

Site Plan of Entire Parcel

One (1) 11x17 copy of the Site Plan (Plot Plan)

Eleven (11) 8 ½ x 11 copies of the Site Plan (Plot Plan)



Humboldt
Partner

FOR DEPARTMENT USE ONLY				
Date Received	Amount Received	Amount Due	Date Complete	Notification No.
	\$	\$		
Assigned to:				

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

Complete EACH field, unless otherwise indicated, following the enclosed instructions and submit ALL required enclosures. Attach additional pages, if necessary.

1. APPLICANT PROPOSING PROJECT

Name	Lauren Miller			
Business/Agency				
Mailing Address	19049 St Hwy 299			
City, State, Zip	Blue Lake, CA ,95525			
Telephone	925-250-2916	Fax		
Email				

2. CONTACT PERSON (Complete only if different from applicant)

Name	Green Road Consulting, Inc.			
Street Address	1650 Central Avenue, Suite C			
City, State, Zip	McKinleyville CA, 95519			
Telephone	707-630-5041	Fax		
Email	matti@greenroadconsulting.com			

3. PROPERTY OWNER (Complete only if different from applicant)

Name	Richard Smith			
Street Address	21 Crest Rd			
City, State, Zip	Fairfax, CA, 94930			
Telephone		Fax		
Email				

4. PROJECT NAME AND AGREEMENT TERM

A. Project Name		Miller Project		
B. Agreement Term Requested		☒ Regular (5 years or less) ☐ Long-term (greater than 5 years)		
C. Project Term		D. Seasonal Work Period		E. Number of Work Days
Beginning (year)	Ending (year)	Start Date (month/day)	End Date (month/day)	
2018	2019	May/15	October/15	3



State of California – Department of Fish and Wildlife
NOTIFICATION OF LAKE OR STREAMBED ALTERATION
FISH AND GAME CODE SECTION 1602
DFW 2023 (REV. 10/01/16) Page 2

5. AGREEMENT TYPE

Check the applicable box. If box B, C, D, E, or F is checked, complete the specified attachment.	
A.	☒ Standard (Most construction projects, excluding the categories listed below)
B.	☐ Gravel/Sand/Rock Extraction (Attachment A) Mine I.D. Number: _____
C.	☐ Timber Harvesting (Attachment B) THP Number: _____
D.	☒ Water Diversion/Extraction/Impoundment (Attachment C) SWRCB Number: Pending
E.	☐ Routine Maintenance (Attachment D)
F.	☐ Remediation of Marijuana Cultivation Sites (Attachment E)
G.	☐ Department Grant Programs Agreement Number: _____
H.	☐ Master
I.	☐ Master Timber Operations

6. FEES

See the current fee schedule to determine the appropriate notification fee. Itemize each project's estimated cost and corresponding fee. Note: The Department may not process this notification until the correct fee has been received.			
	A. Project	B. Project Cost	C. Project Fee
1	Culvert 1 (STX1)	<\$5,000	\$561.00
2	Permit Point of Diversion 1 (POD1)	<\$5,000	\$561.00
3			
4			
5			
6			
7			
8			
9			
10			
		D. Base Fee (if applicable)	
		E. TOTAL FEE*	\$1,122

* Check, money order, and Visa or MasterCard payments are accepted. When payment is made by credit card, CDFW shall assess a separate credit card processing fee of 1.6% to the Total Fee. Credit card payment must be submitted with a completed Credit Card Payment Authorization Form (DFW 1443b (Rev. 8/15)) available online at: <https://www.wildlife.ca.gov/Conservation/LSA/Forms> or at a Department regional office.



7. PRIOR NOTIFICATION AND ORDERS

A. Has a notification previously been submitted to, or a Lake or Streambed Alteration Agreement previously been issued by, the Department for the project described in this notification?		
☐ Yes (<i>Provide the information below</i>) ☒ No		
Applicant	Notification Number	Date
B. Is this notification being submitted in response to a court or administrative order or notice, or a notice of violation (NOV) issued by the Department?		
☒ No ☐ Yes (<i>Enclose a copy of the order, notice, or NOV. If the applicant was directed to notify the Department verbally rather than in writing, identify the person who directed the applicant to submit this notification and the agency he or she represents, and describe the circumstances relating to the order.</i>)		
☐ Continued on additional page(s)		

8. PROJECT LOCATION

A. Address or description of project location. (<i>Include a map that marks the location of the project with a reference to the nearest city or town, and provide driving directions from a major road or highway</i>)				
From Eureka: Take US-101 North for 8.8 miles Take exit 716A onto CA-299 East and follow for 18 miles Turn left onto Bair Rd The gated driveway will be on the first driveway on the left hand side 19049 CA-299 Blue Lake, CA, 95525				
☒ Continued on additional page(s)				
B. River, stream, or lake affected by the project.		Unnamed tributary		
C. What water body is the river, stream, or lake tributary to?		Redwood Creek		
D. Is the river or stream segment affected by the project listed in the state or federal Wild and Scenic Rivers Acts?		☐ Yes ☐ No ☐ Unknown		
E. County	Humboldt			
F. USGS 7.5 Minute Quad Map Name	G. Township	H. Range	I. Section	J. ¼ Section
Lord-Ellis Summit	6N	3E	4	SW
☐ Continued on additional page(s)				
K. Meridian (<i>check one</i>)	☒ Humboldt ☐ Mt. Diablo ☐ San Bernardino			
L. Assessor's Parcel Number(s)				
316-111-003				
☐ Continued on additional page(s)				



M. Coordinates (If available, provide at least latitude/longitude or UTM coordinates and check appropriate boxes)			
Latitude/Longitude	Latitude: 40.9326		Longitude: -123.841
	☐ Degrees/Minutes/Seconds	☒ Decimal Degrees	☐ Decimal Minutes
UTM	Easting:	Northing:	☐ Zone 10 ☐ Zone 11
Datum used for Latitude/Longitude or UTM		☐ NAD 27	☐ NAD 83 or WGS 84

9. PROJECT CATEGORY

WORK TYPE	NEW CONSTRUCTION	REPLACE EXISTING STRUCTURE	REPAIR-MAINTAIN-OPERATE EXISTING STRUCTURE
Bank stabilization – bioengineering/recontouring	☐	☐	☐
Bank stabilization – rip-rap/retaining wall/gabion	☐	☐	☐
Boat dock/pier	☐	☐	☐
Boat ramp	☐	☐	☐
Bridge	☐	☐	☐
Channel clearing/vegetation management	☐	☐	☐
Culvert	☐	☒	☐
Debris basin	☐	☐	☐
Dam	☐	☐	☐
Filling of wetland, river, stream, or lake	☐	☐	☐
Geotechnical survey	☐	☐	☐
Habitat enhancement – revegetation/mitigation	☐	☐	☐
Levee	☐	☐	☐
Low water crossing	☐	☐	☐
Road/trail	☐	☐	☐
Sediment removal: pond, stream, or marina	☐	☐	☐
flood control	☐	☐	☐
Storm drain outfall structure	☐	☐	☐
Temporary stream crossing	☐	☐	☐
Utility crossing: horizontal directional drilling	☐	☐	☐
jack/bore	☐	☐	☐
open trench	☐	☐	☐
Water diversion without facility	☐	☐	☒
Water diversion with facility	☐	☐	☐
Other (specify):	☐	☐	☐



10. PROJECT DESCRIPTION

A. Describe the project in detail. Include photographs of the project location and immediate surrounding area.

- Written description of all project activities with detailed step-by-step description of project implementation.
- Include any structures (e.g., rip-rap, culverts) that will be placed or modified in or near the stream, river, or lake, and any channel clearing.
- Specify volume, and dimensions of all materials and features (e.g., rip rap fields) that will be used or installed.
- If water will be diverted or drafted, specify the purpose or use.
- Enclose diagrams, drawings, plans, and maps that provide all of the following: site specific construction details; dimensions of each structure and/or extent of each activity in the bed, channel, bank or floodplain; overview of the entire project area (i.e., "bird's-eye view") showing the location of each structure and/or activity, significant area features, stockpile areas, areas of temporary disturbance, and where the equipment/machinery will access the project area.

The project involves sizing, permitting, and replacing an existing culvert to handle a 100-year rainfall event. See the attached hydrological report.

Permit an existing water diversion on an unnamed Class II stream (POD1, 40.9298, -123.8458). The diversion supplies water for a single family residence. The diversion will need to meet the California Department of Fish and Wildlife's avoidance and Minimization Measures. Measures expected to include a forbearance period, measurement of diverted flow, intake structure, intake screening, water conservation and water storage measures. Cultivation on the site utilizes rain catchment from the greenhouse to fill 60,000 gallons.

Photos are attached on additional pages.

☒ Continued on additional page(s)

B. Specify the equipment and machinery that will be used to complete the project.

Mini excavator and hand tools.

☐ Continued on additional page(s)

C. Will water be present during the proposed work period (specified in box 4.D) in the stream, river, or lake (specified in box 8.B).

☐ Yes ☒ No (Skip to box 11)

D. Will the proposed project require work in the wetted portion of the channel?

☐ Yes (Enclose a plan to divert water around work site)

☒ No



11. PROJECT IMPACTS

A. Describe impacts to the bed, channel, and bank of the river, stream, or lake, and the associated riparian habitat. Specify the dimensions of the modifications in length (linear feet) and area (square feet or acres) and the type and volume of material (cubic yards) that will be moved, displaced, or otherwise disturbed, if applicable.

The culvert replacement will require excavating to natural channel for ~30-ft.

☐ Continued on additional page(s)

B. Will the project affect any vegetation?

☐ Yes (Complete the tables below) ☒ No (Include aerial photo with date supporting this determination)

Vegetation Type	Temporary Impact	Permanent Impact
	Linear feet: _____ Total area: _____	Linear feet: _____ Total area: _____
	Linear feet: _____ Total area: _____	Linear feet: _____ Total area: _____

Tree Species	Number of Trees to be Removed	Trunk Diameter (range)

☐ Continued on additional page(s)

C. Are any special status animal or plant species, or habitat that could support such species, known to be present on or near the project site?

☒ Yes (List each species and/or describe the habitat below) ☐ No ☐ Unknown

☒ Continued on additional page(s)

D. Identify the source(s) of information that supports a "yes" or "no" answer above in Box 11.C.

California Department of Fish and Wildlife BIOS' quick viewer

☐ Continued on additional page(s)

E. Has a biological study been completed for the project site?

☐ Yes (Enclose the biological study) ☒ No

Note: A biological assessment or study may be required to evaluate potential project impacts on biological resources.



F. Has a hydrological study been completed for the project or project site?

☒ Yes (Enclose the hydrological study) ☐ No

Note: A hydrological study or other information on site hydraulics (e.g., flows, channel characteristics, and/or flood recurrence intervals) may be required to evaluate potential project impacts on hydrology.

G. Have fish or wildlife resources or waters of the state been mapped or delineated on the project site?

☐ Yes (Enclose the mapped results) ☒ No

Note: Check "yes" if fish and wildlife resources or waters of the state on the project site have been mapped or delineated. "Wildlife" means and includes all wild animals, birds, plants, fish, amphibians, reptiles and related ecological communities, including the habitat upon which the wildlife depends." (Fish & G. Code, § 89.5.) If "yes" is checked, submit the mapping or delineation. If the mapping or delineation is in digital format (e.g., GIS shape files or KMZ), you must submit the information in this format for the Department to deem your notification complete. If "no" is checked, or the resolution of the mapping or delineation is insufficient, the Department may request mapping or delineation (in digital or non-digital format), or higher resolution mapping or delineation for the Department to deem the notification complete.

12. MEASURES TO PROTECT FISH, WILDLIFE, AND PLANT RESOURCES

A. Describe the techniques that will be used to prevent sediment from entering watercourses during and after construction.

All in-stream work will take place when the Class II stream is dry in summer months. All grading stock piles will be stored in a manner such that it does not enter the stream. After completion of work all bare soil will be stabilized with straw and seed.

☐ Continued on additional page(s)

B. Describe project avoidance and/or minimization measures to protect fish, wildlife, and plant resources.

All in-stream work will take place when the Class II stream is dry in summer months. No vegetation will be removed or disturbed in the stream channel.

☐ Continued on additional page(s)

C. Describe any project mitigation and/or compensation measures to protect fish, wildlife, and plant resources.

None.

☐ Continued on additional page(s)



13. PERMITS

List any local, State, and federal permits required for the project and check the corresponding box(es). Enclose a copy of each permit that has been issued.

- A. _____ ☐ Applied ☐ Issued
- B. _____ ☐ Applied ☐ Issued
- C. _____ ☐ Applied ☐ Issued
- D. Unknown whether ☒ local, ☒ State, or ☒ federal permit is needed for the project. (Check each box that applies)

☐ Continued on additional page(s)

14. ENVIRONMENTAL REVIEW

A. Has a draft or final document been prepared for the project pursuant to the California Environmental Quality Act (CEQA) and/or National Environmental Protection Act (NEPA)?

- ☐ Yes (Check the box for each CEQA or NEPA document that has been prepared and enclose a copy of each.)
- ☒ No (Check the box for each CEQA or NEPA document listed below that will be or is being prepared.)

- ☐ Notice of Exemption
- ☐ Initial Study
- ☐ Negative Declaration
- ☐ THP/ NTMP

- ☐ Mitigated Negative Declaration
- ☐ Environmental Impact Report
- ☐ Notice of Determination (Enclose)
- ☐ Mitigation, Monitoring, Reporting Plan

☐ NEPA document (type):

B. State Clearinghouse Number (if applicable)

C. Has a CEQA lead agency been determined? ☐ Yes (Complete boxes D, E, and F) ☐ No (Skip to box 14.G)

D. CEQA Lead Agency

E. Contact Person

F. Telephone Number

G. If the project described in this notification is not the "whole project" or action pursuant to CEQA, briefly describe the entire project (Cal. Code Regs., tit. 14, § 15378).

☐ Continued on additional page(s)

H. Has a CEQA filing fee been paid pursuant to Fish and Game Code section 711.4?

- ☐ Yes (Enclose proof of payment) ☐ No (Briefly explain below the reason a CEQA filing fee has not been paid)

Note: If a CEQA filing fee is required, the Lake or Streambed Alteration Agreement may not be finalized until paid.



15. SITE INSPECTION

Check one box only.

- ☐ In the event the Department determines that a site inspection is necessary, I hereby authorize a Department representative to enter the property where the project described in this notification will take place at any reasonable time, and hereby certify that I am authorized to grant the Department such entry.
- ☒ I request the Department to first contact (insert name) Green Road Consulting
at (insert telephone number) 707-630-5041 to schedule a date and time
to enter the property where the project described in this notification will take place. I understand that this may
delay the Department's determination as to whether a Lake or Streambed Alteration Agreement is required
and/or the Department's issuance of a draft agreement pursuant to this notification.

16. DIGITAL FORMAT

Is any of the information included as part of the notification available in digital format (i.e., CD, DVD, etc.)?

- ☒ Yes (Please enclose the information via digital media with the completed notification form)
- ☐ No

17. SIGNATURE

I hereby certify that to the best of my knowledge the information in this notification is true and correct and that I am authorized to sign this notification as, or on behalf of, the applicant. I understand that if any information in this notification is found to be untrue or incorrect, the Department may suspend processing this notification or suspend or revoke any draft or final Lake or Streambed Alteration Agreement issued pursuant to this notification. I understand also that if any information in this notification is found to be untrue or incorrect and the project described in this notification has already begun, I and/or the applicant may be subject to civil or criminal prosecution. I understand that this notification applies only to the project(s) described herein and that I and/or the applicant may be subject to civil or criminal prosecution for undertaking any project not described herein unless the Department has been separately notified of that project in accordance with Fish and Game Code section 1602 or 1611.

 @ Green Road Consulting
Signature of Applicant or Applicant's Authorized Representative

 5/16/2017
Date

Matti Nylander
Print Name

**NOTIFICATION OF LAKE OR STREAMBED ALTERATION****WATER DIVERSION/EXTRACTION/IMPOUNDMENT – ATTACHMENT C**

DFW 2023C (REV. 10/01/16) Page 1

Applicant Name: Lauren MillerProject Name: Miller Project**ATTACHMENT C****Water Diversion/Extraction/Impoundment**

Complete this attachment **if** the project is directly related to any diversion, obstruction, extraction, or impoundment of the natural flow of a river, stream, or lake. Provide the number assigned to the State Water Resources Control Board (SWRCB) application, permit, license, registration, statement of diversion, and use, or other authorization to divert, extract, or impound water, if applicable. If you have a current or expired Lake or Streambed Alteration Agreement (Agreement) for some activity related to your project, provide the Agreement number in your project description below and attach this form, with the information requested on one or more separate pages, to the notification form (DFW 2023).

I. Diversion or Obstruction

- A. Attach plans of any diversion or water storage structure or facility that will be constructed or if no structures or facilities will be constructed, photographs of the project site, including any existing facilities or structures.
- B. Please complete the water use table below. For diversion rate, use gallons per day (gpd) if rate is less than 0.025 cubic foot per second (cfs) (approximately 16,000 gpd).

SEASON OF DIVERSION		PURPOSE OF USE	DIVERSION RATE (cfs or gpm)	AMOUNT USED (acre feet)	
BEGINNING DATE (Mo. & Day)	ENDING DATE (Mo. & Day)			FROM STORAGE	BY DIVERSION
January 1	December 31	Domestic	300 GPD		0.336

- C. Attach a topographic map that is labeled to show the following:
1. Source of the water
 2. Points of diversion
 3. Areas of use
 4. Storage areas
- D. Specify the maximum instantaneous rate of withdrawal (using proposed equipment) in cubic feet per second (cfs) or gallons per minute (gpm).

Class II Stream - POD1 = 300 GPD or 0.2GPM (Pumped)



NOTIFICATION OF LAKE OR STREAMBED ALTERATION

WATER DIVERSION/EXTRACTION/IMPOUNDMENT – ATTACHMENT C

DFW 2023C (REV. 10/01/16) Page 2

E. Check each box below that applies to the project water rights and attach supporting documents.

☒ Riparian. *Attach the most recent Statement of Water Diversion and Use filed with the SWRCB.*

☒ Diversion for immediate use.

☒ Diversion to storage (for less than 30 days).

☐ Appropriative.

☐ Pre-1914. *Attach the most recent Statement of Water Diversion and Use filed with SWRCB.*

☐ Post-1914. *Attach a copy of the applicant's water right application, permit, or license filed with or issued by SWRCB.*

☐ Small domestic, livestock stockpond, or small irrigation use registration. *Attach a copy of the applicant's registration of water use form filed with, or registration certificate issued by, SWRCB (See Water Code section 1228 et seq.).*

☒ Diversion for immediate use.

☐ Diversion to storage.

☐ Purchased or contracted water. *Attach a copy of the applicant's contract or letter from the applicant's water provider.*

☐ Other. *Describe below or attach separate page.*

F. Approximate lowest level of flow in the river, stream, or lake at the point of diversion during the proposed season of diversion in gpm or cfs:

The Registrant diverts from the Class II stream until it dries up at the end June.

G. *Other information.* After the Department reviews the project description, and based on the project's location and potential impacts to fish and wildlife resources, the Department will determine if additional information is needed before accepting the notification as complete. Such information could include more site-specific information to ensure that the terms and conditions in the Agreement issued to the applicant will be adequate to protect the fish and wildlife resources the diversion or obstruction could adversely affect. Site-specific information could include biological or hydrological studies or surveys based on the season of diversion, the location of the diversion relative to other diversions in the watershed, the method of diversion, and the quantity of water to be diverted, such as the following:



NOTIFICATION OF LAKE OR STREAMBED ALTERATION

WATER DIVERSION/EXTRACTION/IMPOUNDMENT – ATTACHMENT C

DFW 2023C (REV. 10/01/16) Page 3

1. *Water Availability Analysis* to determine if the water can be diverted without causing substantial adverse effects on downstream fish and wildlife resources. Water availability analyses are based on a comparison of flows without any diversions (unimpaired flows) and flows available when all known diversions are "subtracted" (impaired flows).
2. *Instream Flow Study* to determine the minimum bypass flows needed and maximum rates of withdrawal possible to provide adequate depths and velocities to protect habitat for all life stages of aquatic resources. The study plan must be prepared by a qualified fisheries biologist and approved by the Department, will determine the effects of the proposed diversion on flow depth and velocity.
3. *Water Quality Study* to assess the effects of the proposed water diversion or impoundment on water temperature and water quality at and downstream from the point(s) of diversion.

II. Permanent or Temporary Reservoir

Please provide the information below *if* the project includes the construction of a reservoir, whether permanent or temporary, and/or the filling of an existing reservoir by diverting or obstructing the flow of a river, stream, or lake.

A. Proposed use of the stored water:

B. Construction plans for the reservoir and dam. (*Attach plans*)

- C. A complete description of the reservoir and dam, including the methods and materials that will be used to construct the reservoir and dam and the following dimensions certified by a licensed professional: the width, length, depth, and total surface area of the reservoir pool; the volume of water in acre-feet that will be stored in the reservoir; and the height and length of the dam.

D. The amount of riparian land that will be inundated (i.e., upstream from the dam): _____

E. Where vehicles will enter and exit the project site during construction and for maintenance purposes after construction. (*Attach map*)

F. The maximum distance of the disturbance that will occur upstream and downstream during construction:

G. The methods employed to ensure that the flow is maintained below the dam at all times when water is being diverted into the reservoir:



- H. Specify the time period when the area below the dam becomes dry, if at all.

- I. The methods employed to ensure that adult and juvenile fish will be able to pass over or around the dam:

- J. If a fish ladder is necessary to enable adult and juvenile fish to pass over or around the dam, provide construction plans and an operation plan for the fish ladder. *(Enclose, if applicable)*

- K. The methods employed to monitor and maintain water quality (including temperature) within the reservoir:

III. Temporary Reservoir

Please provide the information below **if** the project includes the construction of a temporary reservoir only within the stream zone.

- A. Date of dam installation: _____
- B. Date of dam removal: _____
- C. Amount of time it will take to construct the dam: _____
- D. Amount of time it will take to remove the dam: _____
- E. Methods to ensure that the reservoir pool will be drained in a manner that does not strand or otherwise harm fish:

CNDDDB Quad Species List 38 records.

Element Type	Scientific Name	Common Name	Element Code	Federal Status	State Status	CDFW Status	CA Rare Plant Rank	Quad Code	Quad Name	Data Status	Taxonomic Sort
Animals - Amphibians	Ascaphus truei	Pacific tailed frog	AAABA01010	None	None	SSC	-	4012387	Lord-Ellis Summit	Mapped	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Plethodon elongatus	Del Norte salamander	AAAAD12050	None	None	WL	-	4012387	Lord-Ellis Summit	Unprocessed	Animals - Amphibians - Plethodontidae - Plethodon elongatus
Animals - Amphibians	Rana aurora	northern red-legged frog	AAABH01021	None	None	SSC	-	4012387	Lord-Ellis Summit	Mapped	Animals - Amphibians - Ranidae - Rana aurora
Animals - Amphibians	Rana boylei	foothill yellow-legged frog	AAABH01050	None	None	SSC	-	4012387	Lord-Ellis Summit	Unprocessed	Animals - Amphibians - Ranidae - Rana boylei
Animals - Amphibians	Rhyacotriton variegatus	southern torrent salamander	AAAAJ01020	None	None	SSC	-	4012387	Lord-Ellis Summit	Mapped	Animals - Amphibians - Rhyacotritonidae - Rhyacotriton variegatus
Animals - Fish	Oncorhynchus clarkii clarkii	coast cutthroat trout	AFCHA0208A	None	None	SSC	-	4012387	Lord-Ellis Summit	Mapped	Animals - Fish - Salmonidae - Oncorhynchus clarkii clarkii
Animals - Fish	Oncorhynchus kisutch	coho salmon - southern Oregon / northern California ESU	AFCHA02032	Threatened	Threatened	-	-	4012387	Lord-Ellis Summit	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus kisutch
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - northern California DPS	AFCHA0209Q	Threatened	None	-	-	4012387	Lord-Ellis Summit	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	summer-run steelhead trout	AFCHA0213B	None	None	SSC	-	4012387	Lord-Ellis Summit	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Mammals	Erethizon dorsatum	North American porcupine	AMAFJ01010	None	None	-	-	4012387	Lord-Ellis Summit	Unprocessed	Animals - Mammals - Erethizontidae - Erethizon dorsatum
Animals - Mammals	Arborimus pomo	Sonoma tree vole	AMAFF23030	None	None	SSC	-	4012387	Lord-Ellis Summit	Mapped and Unprocessed	Animals - Mammals - Muridae - Arborimus pomo
Animals - Mammals	Pekania pennanti	fisher - West Coast DPS	AMAJF01021	Proposed Threatened	Candidate Threatened	SSC	-	4012387	Lord-Ellis Summit	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Pekania pennanti
Plants - Lichens	Usnea longissima	Methuselah's beard lichen	NLLEC5P420	None	None	-	4.2	4012387	Lord-Ellis Summit	Unprocessed	Plants - Lichens - Parmeliaceae - Usnea longissima
Plants - Vascular	Sanicula tracyi	Tracy's sanicle	PDAPI1Z0K0	None	None	-	4.2	4012387	Lord-Ellis Summit	Mapped	Plants - Vascular - Apiaceae - Sanicula tracyi
Plants - Vascular	Antennaria suffrutescens	evergreen everlasting	PDAST0H0S0	None	None	-	4.3	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Asteraceae - Antennaria suffrutescens
Plants - Vascular	Hemizonia congesta ssp. tracyi	Tracy's tarplant	PDAST4R067	None	None	-	4.3	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Asteraceae - Hemizonia congesta ssp. tracyi

Plants - Vascular	Carex arcta	northern clustered sedge	PMCYP030X0	None	None	-	2B.2	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Cyperaceae - Carex arcta
Plants - Vascular	Carex leptalea	bristle-stalked sedge	PMCYP037E0	None	None	-	2B.2	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Cyperaceae - Carex leptalea
Plants - Vascular	Astragalus umbraticus	Bald Mountain milk-vetch	PDFAB0F990	None	None	-	2B.3	4012387	Lord-Ellis Summit	Mapped	Plants - Vascular - Fabaceae - Astragalus umbraticus
Plants - Vascular	Lathyrus glandulosus	sticky pea	PDFAB251A0	None	None	-	4.3	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Fabaceae - Lathyrus glandulosus
Plants - Vascular	Thermopsis robusta	robust false lupine	PDFAB3Z0D0	None	None	-	1B.2	4012387	Lord-Ellis Summit	Mapped and Unprocessed	Plants - Vascular - Fabaceae - Thermopsis robusta
Plants - Vascular	Ribes laxiflorum	trailing black currant	PDGRO020V0	None	None	-	4.3	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Grossulariaceae - Ribes laxiflorum
Plants - Vascular	Erythronium oregonum	giant fawn lily	PMLIL0U0C0	None	None	-	2B.2	4012387	Lord-Ellis Summit	Mapped	Plants - Vascular - Liliaceae - Erythronium oregonum
Plants - Vascular	Erythronium revolutum	coast fawn lily	PMLIL0U0F0	None	None	-	2B.2	4012387	Lord-Ellis Summit	Mapped	Plants - Vascular - Liliaceae - Erythronium revolutum
Plants - Vascular	Lilium kelloggii	Kellogg's lily	PMLIL1A0A0	None	None	-	4.3	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Liliaceae - Lilium kelloggii
Plants - Vascular	Lilium rubescens	redwood lily	PMLIL1A0N0	None	None	-	4.2	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Liliaceae - Lilium rubescens
Plants - Vascular	Lilium washingtonianum ssp. purpurascens	purple-flowered Washington lily	PMLIL1A0R2	None	None	-	4.3	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Liliaceae - Lilium washingtonianum ssp. purpurascens
Plants - Vascular	Iliamna latibracteata	California globe mallow	PDMAL0K040	None	None	-	1B.2	4012387	Lord-Ellis Summit	Mapped	Plants - Vascular - Malvaceae - Iliamna latibracteata
Plants - Vascular	Pityopus californicus	California pinefoot	PDMON05010	None	None	-	4.2	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Monotropaceae - Pityopus californicus
Plants - Vascular	Montia howellii	Howell's montia	PDPOR05070	None	None	-	2B.2	4012387	Lord-Ellis Summit	Mapped and Unprocessed	Plants - Vascular - Montiaceae - Montia howellii
Plants - Vascular	Listera cordata	heart-leaved twayblade	PMORC1N060	None	None	-	4.2	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Orchidaceae - Listera cordata
Plants - Vascular	Piperia candida	white-flowered rein orchid	PMORC1X050	None	None	-	1B.2	4012387	Lord-Ellis Summit	Mapped	Plants - Vascular - Orchidaceae - Piperia candida
Plants - Vascular	Pleuropogon refractus	nodding semaphore grass	PMPOA4Y080	None	None	-	4.2	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Poaceae - Pleuropogon refractus
Plants - Vascular	Collomia tracyi	Tracy's collomia	PDPLM020B0	None	None	-	4.3	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Polemoniaceae - Collomia tracyi
Plants - Vascular	Gilia capitata ssp. pacifica	Pacific gilia	PDPLM040B6	None	None	-	1B.2	4012387	Lord-Ellis Summit	Mapped	Plants - Vascular - Polemoniaceae - Gilia capitata ssp. pacifica

Plants - Vascular	Coptis laciniata	Oregon goldthread	PDRAN0A020	None	None	-	4.2	4012387	Lord-Ellis Summit	Mapped and Unprocessed	Plants - Vascular - Ranunculaceae - Coptis laciniata
Plants - Vascular	Mitellastra caulescens	leafy-stemmed mitrewort	PDSAX0N020	None	None	-	4.2	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Saxifragaceae - Mitellastra caulescens
Plants - Vascular	Tiarella trifoliata var. trifoliata	trifoliate laceflower	PDSAX10031	None	None	-	3.2	4012387	Lord-Ellis Summit	Unprocessed	Plants - Vascular - Saxifragaceae - Tiarella trifoliata var. trifoliata



Figure 1 Upstream from point of diversion.



Figure 2 Downstream from point of diversion.

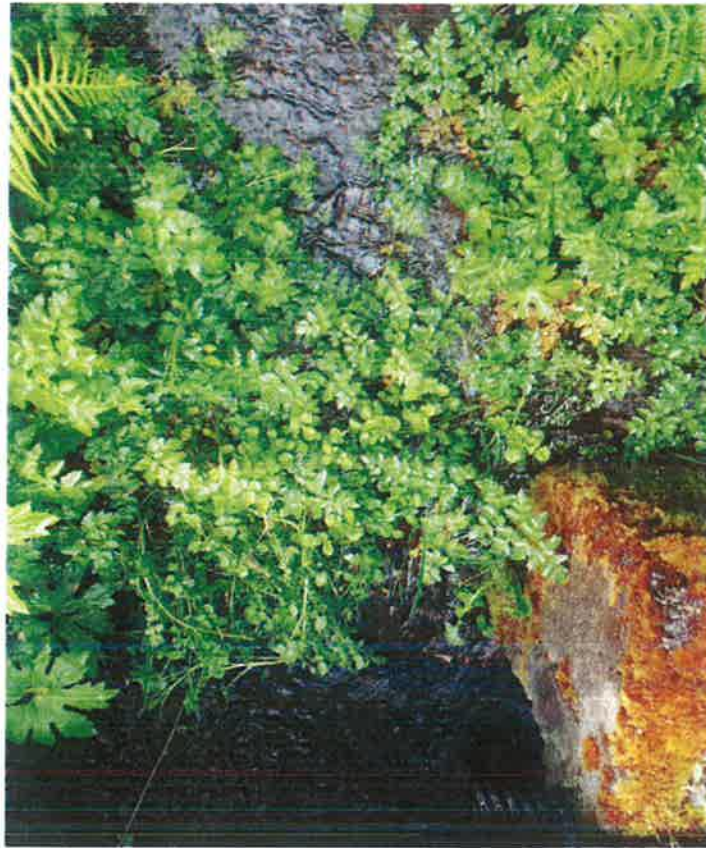


Figure 3 Point of Diversion



Figure 4 Water storage and pump house.



Figure 5 Upstream, inlet, downstream, and outlet of 18" CMP on Class II stream (clockwise, starting at the top left).



To: Dave Manthorne
Fish and Wildlife

From: Robin Collins P.E.
Green Road Consulting
1650 Central Ave
Mckinleyville, CA 95519

Subject: Miller Hydrologic Analysis, 316-111-003

Project Description

The subject parcel is a rural property located in-between Blue Lake and Willow Creek, Humboldt County off highway 299. The 140-acre parcel has unnamed drainages running through the property, which are tributaries to Redwood Creek. The stream crossing has a shotgun outlet and is perforated. The culvert was still functioning but needs to be replaced. The stream crossings will require Lake and Streambed Alteration Agreements (LSAA) through the California Department of Fish and Wildlife (CDFW) for any in-stream work.

Calculating the runoff coefficient, C:

The hydrologic soil groups were determined using the USDA site Web Soil Survey. The Web Soil Survey showed the project area's hydrologic soil group to contain C rating only. The watershed area was determined to be mostly forested with some meadows. Using McCuen's table for runoff coefficients and assuming a slope greater than 6%, the runoff coefficients for soil C with forest land use was determined to be 0.38.

Calculating the time of concentration, t_c :

The time of concentration was calculated using the kerby-kirpich method. This method estimates and sums the overland flow time of concentration and the channelized flow time of concentration. It is assumed that overland flow occurs for 300 feet at an average slope of 20% before transitioning to channelized flow. Terrain is assumed to be deciduous forest. The time of concentration was found to be 13 minutes for the stream crossing. As a safety factor, the time of concentration was rounded down to 10 minutes which yielded a larger rainfall intensity.

Calculating the runoff intensity, i :

The runoff intensity was determined by using the NOAA's National Weather Service Precipitation Frequency Data Server (See Table 2). Using a 100-year recurrence interval and a 10-minute duration an intensity of 3.88 inches/hr was determined.

Calculating the watershed area, A:

The watershed area was determined to be 1.9 acres for the stream crossing by using the USGS supported site StreamStats (See Figure 1).

Calculating Peak Flow

An analysis was conducted to determine if the stream crossing was adequately sized or a 100-year storm event accounting for any associated debris from this event. The Rational method was used to calculate the peak flow.

$$Q = CiA$$

Where Q is the peak flow in cubic feet per second (CFS), C is the runoff coefficient, *i* is intensity in inches/hour, and A is the watershed area in acres. Peak flow was found to be 2.9 CFS for the stream crossing.

Using the Rational method to solve for Q:

$$Q_{100} = 0.38 \left(3.88 \frac{\text{in}}{\text{hr}} \right) (1.98 \text{ acres}) = 2.9 \text{ CFS}$$

Calculating Culvert Diameter:

The Orifice Equation and Manning Equation was used to calculate the minimum culvert diameter.

$$\text{Manning Equation} \dots \dots \dots Q = VA = \left(\frac{1.49}{n} \right) AR_h^{\frac{2}{3}} S^{0.5}$$

Where, Q is the peak flow in cubic feet per second, A is the cross-sectional area of the channel in feet squared, V is the average velocity in feet per second, n is the manning roughness coefficient, *R_h* is the hydraulic radius of the channel in feet, and S is the channel slope.

$$\text{Orifice Equation} \dots \dots \dots Q = C_d A \sqrt{2gh}$$

Where, Q is the peak flow in cubic feet per second, *C_d* is the coefficient of discharge, A is the cross-sectional area of the channel in feet squared, g is the acceleration due to gravity in feet per seconds squared, and h is the hydrostatic head above the center of the pipe.

The stream crossing was modeled as a corrugated metal pipe 30-ft long with a 7 percent slope. The analysis resulted in following findings:

Table 1: Results of Culvert Sizing.

Crossing	Culvert Type	Length (ft)	Slope (%)	Orifice EQ Minimum Diameter (in)	Manning EQ Minimum Diameter (in)	Recommended Culvert Diameter (in)
STX1	Corrugated Metal Pipe	30	7	12	12	18

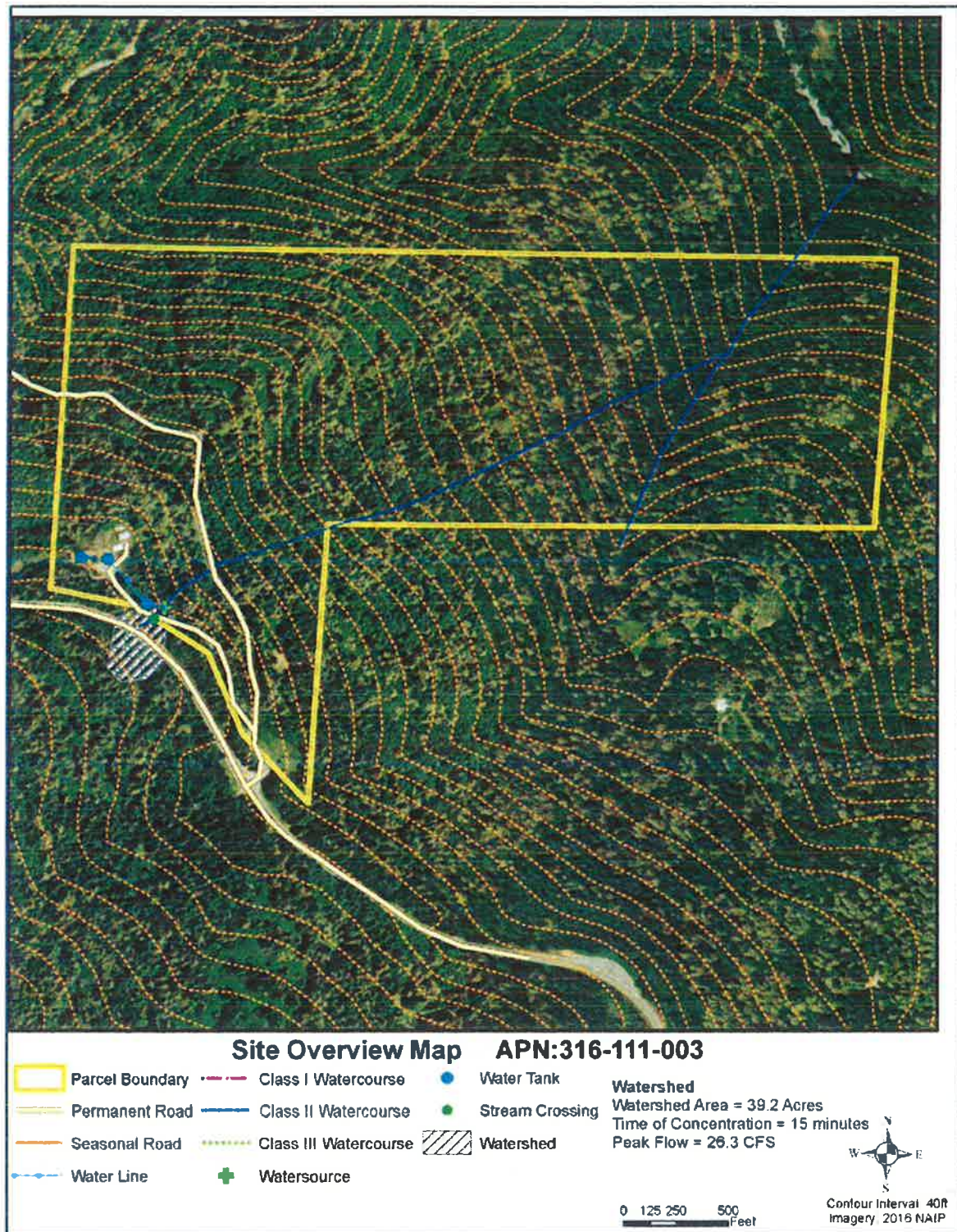


Figure 1: Site Overview Map.

PDS-based precipitation frequency estimates with 90% confidence intervals (in inches/hour) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	1.88 (1.84-2.19)	2.28 (2.00-2.83)	2.86 (2.48-3.30)	3.36 (2.90-3.92)	4.09 (3.41-4.97)	4.73 (3.84-5.87)	5.41 (4.27-6.91)	6.18 (4.74-8.15)	7.33 (5.38-10.1)	8.33 (5.88-12.0)
10-min	1.34 (1.18-1.55)	1.64 (1.43-1.89)	2.05 (1.79-2.36)	2.41 (2.08-2.81)	2.93 (2.44-3.56)	3.38 (2.75-4.21)	3.88 (3.07-4.95)	4.43 (3.40-5.84)	5.26 (3.85-7.29)	5.97 (4.20-8.37)
15-min	1.08 (0.952-1.25)	1.32 (1.18-1.52)	1.65 (1.44-1.91)	1.94 (1.68-2.26)	2.37 (1.97-2.87)	2.73 (2.22-3.36)	3.12 (2.47-3.95)	3.57 (2.74-4.71)	4.24 (3.10-5.86)	4.81 (3.38-6.91)
30-min	0.714 (0.628-0.822)	0.866 (0.758-1.00)	1.08 (0.948-1.25)	1.27 (1.10-1.49)	1.56 (1.30-1.89)	1.79 (1.48-2.23)	2.05 (1.62-2.62)	2.35 (1.80-3.09)	2.79 (2.04-3.85)	3.16 (2.23-4.54)
60-min	0.501 (0.439-0.577)	0.608 (0.532-0.702)	0.760 (0.663-0.879)	0.894 (0.773-1.04)	1.09 (0.909-1.32)	1.26 (1.02-1.58)	1.44 (1.14-1.84)	1.65 (1.28-2.17)	1.96 (1.43-2.70)	2.22 (1.58-3.19)
2-hr	0.390 (0.342-0.450)	0.472 (0.414-0.548)	0.586 (0.512-0.678)	0.683 (0.590-0.798)	0.822 (0.684-0.998)	0.936 (0.781-1.16)	1.06 (0.836-1.35)	1.19 (0.912-1.57)	1.38 (1.01-1.91)	1.54 (1.09-2.21)
3-hr	0.345 (0.302-0.397)	0.416 (0.365-0.480)	0.514 (0.449-0.594)	0.596 (0.515-0.698)	0.712 (0.593-0.864)	0.806 (0.655-1.00)	0.905 (0.718-1.19)	1.01 (0.775-1.33)	1.16 (0.851-1.61)	1.29 (0.907-1.85)
6-hr	0.279 (0.245-0.322)	0.337 (0.295-0.388)	0.413 (0.361-0.478)	0.476 (0.412-0.556)	0.564 (0.489-0.684)	0.633 (0.514-0.788)	0.704 (0.557-0.900)	0.780 (0.598-1.03)	0.885 (0.647-1.22)	0.971 (0.683-1.38)
12-hr	0.212 (0.188-0.244)	0.257 (0.225-0.297)	0.317 (0.277-0.367)	0.366 (0.318-0.427)	0.433 (0.380-0.525)	0.485 (0.384-0.602)	0.538 (0.428-0.687)	0.594 (0.455-0.783)	0.671 (0.490-0.926)	0.732 (0.515-1.05)
24-hr	0.157 (0.140-0.178)	0.193 (0.172-0.220)	0.239 (0.214-0.274)	0.278 (0.248-0.320)	0.329 (0.283-0.391)	0.369 (0.312-0.448)	0.409 (0.339-0.505)	0.451 (0.364-0.571)	0.508 (0.395-0.667)	0.553 (0.417-0.748)
2-day	0.108 (0.097-0.123)	0.133 (0.119-0.152)	0.166 (0.148-0.190)	0.192 (0.170-0.221)	0.226 (0.194-0.268)	0.252 (0.213-0.304)	0.278 (0.230-0.343)	0.304 (0.248-0.385)	0.340 (0.284-0.445)	0.367 (0.277-0.496)
3-day	0.086 (0.077-0.098)	0.106 (0.095-0.121)	0.132 (0.117-0.151)	0.152 (0.135-0.175)	0.179 (0.154-0.212)	0.199 (0.168-0.240)	0.219 (0.181-0.270)	0.239 (0.193-0.302)	0.266 (0.207-0.346)	0.286 (0.213-0.387)
4-day	0.073 (0.065-0.083)	0.090 (0.081-0.103)	0.112 (0.100-0.128)	0.129 (0.115-0.149)	0.152 (0.131-0.180)	0.169 (0.143-0.204)	0.185 (0.153-0.229)	0.202 (0.163-0.258)	0.224 (0.174-0.294)	0.241 (0.182-0.326)
7-day	0.053 (0.047-0.060)	0.066 (0.059-0.075)	0.081 (0.073-0.093)	0.094 (0.083-0.108)	0.109 (0.094-0.130)	0.121 (0.102-0.148)	0.133 (0.110-0.164)	0.144 (0.118-0.182)	0.159 (0.124-0.209)	0.171 (0.129-0.231)
10-day	0.043 (0.039-0.049)	0.053 (0.048-0.061)	0.066 (0.059-0.075)	0.076 (0.067-0.087)	0.088 (0.079-0.105)	0.098 (0.082-0.118)	0.107 (0.088-0.132)	0.116 (0.093-0.148)	0.127 (0.099-0.167)	0.136 (0.103-0.184)
20-day	0.029 (0.026-0.033)	0.036 (0.032-0.041)	0.045 (0.040-0.051)	0.051 (0.045-0.059)	0.059 (0.051-0.070)	0.065 (0.055-0.078)	0.070 (0.058-0.087)	0.076 (0.061-0.098)	0.083 (0.064-0.108)	0.088 (0.068-0.119)
30-day	0.024 (0.022-0.028)	0.030 (0.027-0.034)	0.037 (0.033-0.042)	0.042 (0.037-0.049)	0.049 (0.042-0.058)	0.053 (0.045-0.064)	0.057 (0.047-0.071)	0.061 (0.050-0.078)	0.067 (0.052-0.087)	0.070 (0.053-0.095)
45-day	0.021 (0.019-0.024)	0.026 (0.023-0.029)	0.032 (0.028-0.036)	0.036 (0.032-0.041)	0.041 (0.035-0.049)	0.044 (0.038-0.054)	0.048 (0.040-0.059)	0.051 (0.041-0.064)	0.055 (0.043-0.072)	0.058 (0.044-0.078)
90-day	0.019 (0.017-0.021)	0.023 (0.021-0.025)	0.028 (0.025-0.032)	0.032 (0.028-0.036)	0.036 (0.031-0.043)	0.039 (0.033-0.047)	0.042 (0.034-0.051)	0.044 (0.038-0.058)	0.047 (0.037-0.062)	0.050 (0.037-0.067)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates for a given duration and average recurrence interval will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

Table 2: NOAA PFDS estimates for 40.44033, -123.4942.



Site Overview Map APN:316-111-003

- | | | |
|-----------------|-----------------------|-----------------|
| Parcel Boundary | Class I Watercourse | Water Tank |
| Permanent Road | Class II Watercourse | Stream Crossing |
| Seasonal Road | Class III Watercourse | Watershed |
| Water Line | Watersource | |

Watershed

Watershed Area = 39.2 Acres
Time of Concentration = 15 minutes
Peak Flow = 26.3 CFS

0 125 250 500
Feet



Contour Interval: 40ft
Imagery: 2016 NAIP

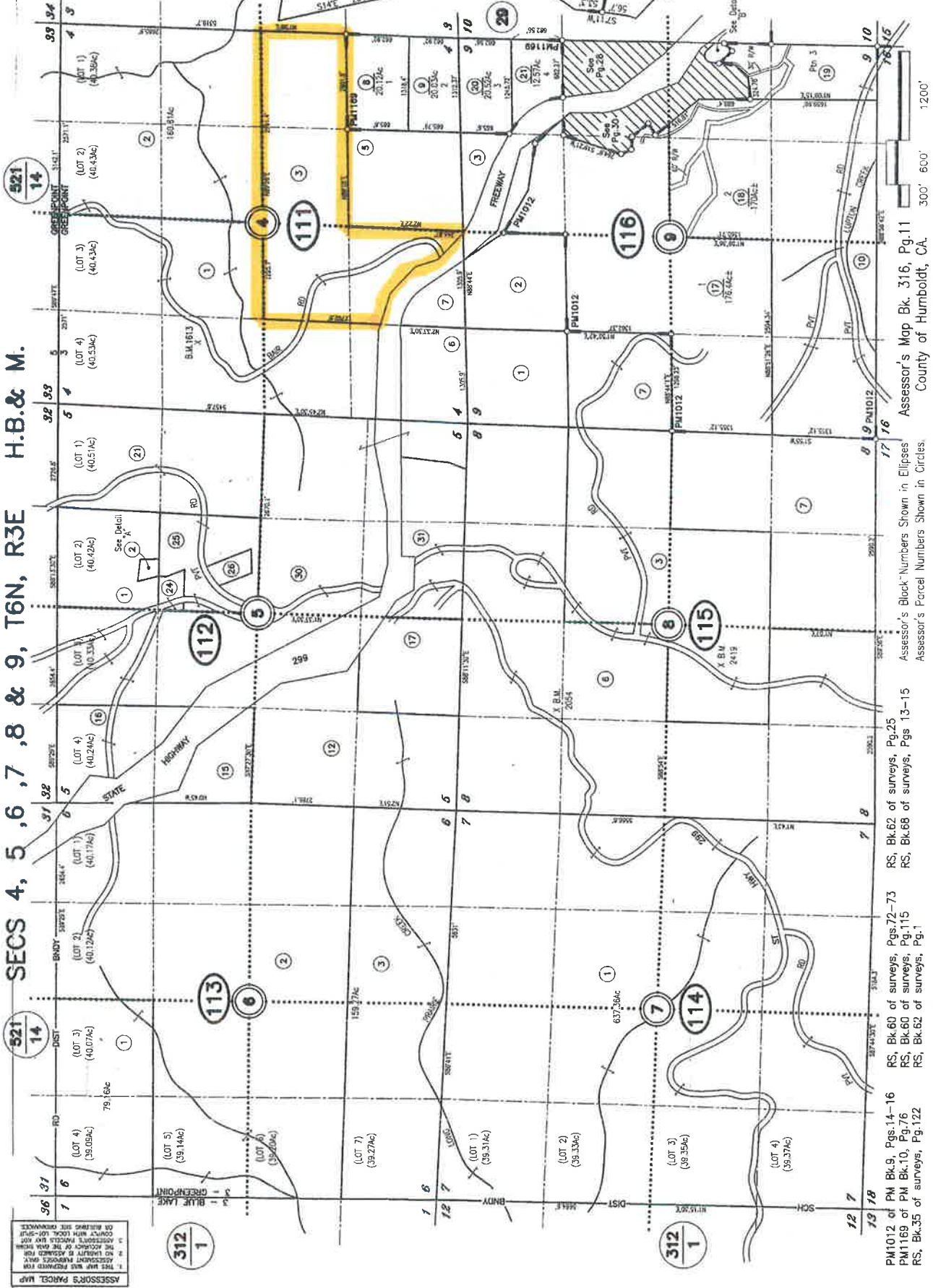


From Eureka:

- Take US-101 North for 8.8 miles
- Take exit 716A onto CA-299 East and follow for 18 miles
- Turn left onto Bair Rd
- The gated driveway will be on the first driveway on the left-hand side

19049 CA-299 Blue Lake, CA, 95525

ASSASSOR'S PARCEL MAP
THIS MAP WAS PREPARED FOR
THE ASSASSOR OF HUMBOLDT COUNTY
AND IS SUBJECT TO THE RECORDS OF
THE ASSASSOR OF HUMBOLDT COUNTY
AND THE RECORDS OF THE HUMBOLDT
COUNTY CLERK'S OFFICE.



ATTACHMENT 4

Referral Agency Comments and Recommendations

Referral Agency	Response	Recommendation	On File
County Building Inspection Division	✓	Conditional Approval	✓
County Public Works, Land Use Division	✓	Approval	✓
County Division of Environmental Health	✓	Conditional approval	✓
NWIC		None received	
Department of Fish and Wildlife	✓	Provided Comments	✓
Regional Water Quality Control Board		None received	
Division of Water Resources		None received	
CALFIRE	✓	Standard input letter	✓
Bear River Band of the Rohnerville Rancheria	✓	Archeology study, condition with inadvertent discovery protocols	✓
Green Point School District		None received	
US Air Force		None received	
US Navy		None received	
US Army		None received	
US Marine Corps	✓	Approval	✓
Agriculture Commissioner		None received	
Sheriff		None received	
Humboldt County District Attorney		None received	