

September 29, 2017

Nathan Harveston
PO Box 671
Willow Creek, CA 95573

RE: Water use on Brannan Mountain (APN# 522-211-051)

Mr. Harveston,

Your residence on Brannan Mountain in Willow Creek has an existing 5/8" water meter on the Willow Creek Community Services District water system. Your average annual water usage is approximately 23,000 cubic feet.

I understand you have inquired if this meter can continue to be used at this rate for your agricultural business. This is acceptable to the Willow Creek Community Services District. Please note that your water meter is served by the pump station on Stage Coach Lane. This is a pressure pump station and in the event of a power outage, your water service will be temporarily out of service. The WCCSD does not have a way to connect a power back-up at the Stage Coach pump station.

Please note that the WCCSD has a Drought Ordinance in its Board Policy. In the event of a drought, the water usage may be restricted per the policy (see attached).

Please let me know if you have any additional questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Susan O'Gorman", with a stylized flourish at the end.

Susan O'Gorman
General Manager



Section 7 – Shortage of Water Priorities (Ord. #44 3.14.2014) (amended 4.30.15)

If for any reason, the Willow Creek Community Services Districts water is significantly depleted, the following priorities for water usage shall be followed.

1. District residential and small business customers will be our top priority.
2. Livestock watering.
3. Agricultural usage.
4. Commercial, Industrial, Golf Courses and Park Systems.

SECTION 7A - DROUGHT CONDITIONS

1. If the Willow Creek Community Services District experiences drought conditions and the watershed is stressed from low rainfall. The District will impose the following water restrictions, if the Albert E Hodgson Water Treatment Facility is not able to pump and treat a minimum of 2.25 CFS (Cubic Feet Second) during peak usage from the confluences of the Willow Creek.
2. The Willow Creek Community Services District will follow all of the Governors executive orders of said document.
3. Governor may require a percentage of mandatory reduction of water usage (To be determined), **2015 will be 25%.**
4. No watering or washing down of driveways.
5. Washing vehicles with nozzles on hoses only.
6. No wasting water by prolonged leaks (must be repaired within 72 hours of notification).
7. Turning auto sprinklers off during rain storms and for two days after.
8. Ornamental fountains must have a recirculation water pump.
9. Water days may be restricted (If necessary).
10. No watering of public street medians with potable water that have ornamental turf.
11. Potable water sold within the WCCSD boundaries to water tenders will be limited to one load per week (up to 3,000 gallons per load) for residential use per parcel. This will be by permit only.
Exception for water tenders will be for emergency services vehicles.
12. **Public Notice of Hearing:** Said Board of Directors shall, pursuant to Section 6061 of California Government Code, publish said hearing date at least seven days prior to vote on Emergency Drought Conditions.
13. Implementation of SECTION 7A, the Board of Directors will by majority vote; **State a Declaration of Emergency Drought Conditions in the Willow Creek Watershed.**

14. Such vote shall be enacted for that current calendar year only. If conditions exist continuously said Board of Directors shall vote each calendar year thereafter.
15. The Willow Creek Community Services District **will restrict the water usage of our Park System up to 95 percent** (to be determined by the General Manager).
16. The WCCSD will ask for **volunteer** water consumption decrease of up to 20 percent of normal monthly use for all customers first.
17. If **volunteer** usage fails to reach water usage goals, the following steps will be implemented.
 - A. Residential customers may be restricted up to 50 percent (to be determined by the General Manager) of normal household water usage. In particular warm outdoor watering season (May to October). All usage will be based on monthly average.
 - B. Residents will be restricted of no watering of lawns and gardens.
 - C. Livestock watering will be restricted to watering and care of animals only.
 - D. 1" to 3" Commercial, Industrial, large business and Agricultural meters will be restricted up to 75 percent (to be determined by the General Manager) and will be restricted of no watering of lawns. All usage will be based on a monthly average.
 - E. The District will restrict fire hydrant usage to emergency household water (dwellings, non-agriculture) for out of District and will also allow for the use of all fire departments and public emergency services.
 - F. Water will not be sold from hydrants for agriculture, commercial or personal use during drought conditions for non-emergency.
 - G. Customers not in compliance (water restrictions) with ORDINANCE NUMBER 44 will be subject to termination of service. However not before a written notice of non-compliance and the WCCSD working with the customer to rectify said non-compliance. This will be determined by the General Manager.
 - H. Customer service will not be restored without written agreement of compliance of ORDINANCE NUMBER 44 and acceptance of said agreement by the General Manager.
 - I. Said customer shall pay all costs that were occurred by the Willow Creek Community Services District for enforcing ORDINANCE NUMBER 44.
8. Appeal process: Customer may appeal noncompliance of ORIDANCE NUMBER 44 by following board policy protocol.
9. WCCSD customers will be given a 96 hour public notice (News outlets, WCCSD website and US Mail) if SECTION 7A is to be implemented.

HUMBOLDT COUNTY DEPARTMENT OF PUBLIC WORKS
ROAD EVALUATION REPORT



PART A: *Part A may be completed by the applicant*

Applicant Name: NATHAN P HARVESTON APN: 522-211-051

Planning & Building Department Case/File No.: _____

Road Name: BRANNAN MTN RD. (complete a separate form for each road)

From Road (Cross street): STAGECOACH RD

To Road (Cross street): MY DRIVEWAY OR ACCESS ROAD

Length of road segment: 1000 FEET miles Date Inspected: 9/28/17

Road is maintained by: ☒ County ☐ Other _____
(State, Forest Service, National Park, State Park, BLM, Private, Tribal, etc)

Check one of the following:

Box 1 ☒ The entire road segment is developed to Category 4 road standards (20 feet wide) or better. If checked, then the road is adequate for the proposed use without further review by the applicant.

Box 2 ☐ The entire road segment is developed to the equivalent of a road category 4 standard. If checked, then the road is adequate for the proposed use without further review by the applicant.

An equivalent road category 4 standard is defined as a roadway that is generally 20 feet in width, but has pinch points which narrow the road. Pinch points include, but are not limited to, one-lane bridges, trees, large rock outcroppings, culverts, etc. Pinch points must provide visibility where a driver can see oncoming vehicles through the pinch point which allows the oncoming vehicle to stop and wait in a 20 foot wide section of the road for the other vehicle to pass.

Box 3 ☐ The entire road segment is not developed to the equivalent of road category 4 or better. The road may or may not be able to accommodate the proposed use and further evaluation is necessary. Part B is to be completed by a Civil Engineer licensed by the State of California.

The statements in PART A are true and correct and have been made by me after personally inspecting and measuring the road.

Signature

Date

Name Printed

Important: Read the instructions before using this form. If you have questions, please call the Dept. of Public Works Land Use Division at 707.445.7205.

Water Resource Protection Plan

WDID# - 1B161193CHUM

APN 522-211-051

Prepared by:

Timberland Resource Consultants

165 South Fortuna Blvd

Fortuna, CA 95540

08-03-2017



Purpose

This Water Resource Protection Plan (WRPP) has been prepared on behalf of the discharger, for the Humboldt County property identified as APN 522-211-051, by agreement and in response to the California Water Code Section 13260(a), which requires that any person discharging waste or proposing to discharge waste within any region that could affect the quality of the waters of the state, other than into a community sewer system, shall file with the appropriate regional water board a Report of Waste Discharge (ROWD) containing such information and data as may be required by the Regional Water Board. The Regional Water Board may waive the requirements of Water Code section 13260 for specific types of discharges if the waiver is consistent with the Basin Plan and in the public interest. Any waiver is conditional and may be terminated at any time. A waiver should include monitoring requirements to verify the adequacy and effectiveness of the waiver's conditions. California Regional Water Quality Control Board, North Coast Region, Order R1-2015-0023, conditionally waives the requirement for the property owner to file an ROWD for discharges and associated activities described in Finding-4.

Scope of Report

Order No. R1-2015-0023 states that "Tier 2 Dischargers and Tier 3 Dischargers who intend to cultivate cannabis before, during, or following site cleanup activities shall develop and implement a water resource protection plan that contains the elements listed and addressed below. Dischargers must keep this plan on site, and produce it upon request by Regional Water Board staff. Management practices shall be properly designed, installed, and assessed periodically for effectiveness. If a management measure is found to be ineffective, the plan must be adapted and implemented to incorporate new or additional management practices to meet standard conditions. Dischargers shall certify annually to the Regional Water Board individually or through an approved third party program that the plan is being implemented and is effectively protecting water quality, and report on progress in implementing site improvements intended to bring the site into compliance with all conditions of this Order."

Methods

The methods used to develop this WRPP include both field and office components. The office component consisted of aerial photography review and interpretation, existing USGS quad map review, GIS mapping of field data, review of on-site photography points, streamflow calculations, and general planning. The field component included identifying and accurately mapping all watercourses, wet areas, and wetlands located downstream of the cultivation areas, associated facilities, and all appurtenant roads accessing such areas. An accurate location of the Waters of the State is necessary to make an assessment of whether potential and existing erosion sites/pollution sites have the potential to discharge waste to an area that could affect Waters of the State (including groundwater). All cultivation areas, associated facilities, and all appurtenant roads accessing such areas were assessed for discharges and related controllable water quality factors from the activities listed in Order R1-2015-0023, Finding 4a-j. The field assessment also included an evaluation and determination of compliance with the Standard Conditions per Provision I.B of Order No. R1-2015-0023. The water resource protection plans required under Tier 2 are meant to describe the specific measures a discharger implements to achieve compliance with standard conditions. Therefore, all required components of the water resource protection plan per Provision I.B of Order No. R1-2015-0023 were physically inspected and evaluated. A comprehensive summary of each Standard Condition as it relates to the subject property is appended.

Property Description

The property assessed consists of one parcel located in primarily conifer timberland. One un-named Class III watercourse is located on the property and is tributary to East Fork Carr Creek. The property is located in Section 22, T7N, R5E, HB&M, Humboldt County, from the Willow Creek 7.5' USGS Quad Map and is approximately .75 miles NW of Willow Creek. Access to the property is from US Highway 96 to Brannon Mountain Road to a private road.

Project Description

There are currently four cultivation areas located on the property. Cultivation Area A is approximately 6,600 ft² and consists of a clearing with two hoop-houses containing raised beds as well as above ground pots on a graded flat. Cultivation Area B is approximately 2,500 ft² and consists of a clearing with two hoop-houses containing raised beds. Cultivation Area C is approximately 4,700 ft² and consists of a clearing with above ground pots on terraced hillslope. Cultivation Area D is approximately 600 ft² and consists of a hoop-house containing starts in individual pots. All water used for the irrigation of cannabis is derived from a permitted well located on the property.

Monitoring Plan

Tier 2 Dischargers shall include a monitoring element in the Water Resource Protection Plan that at a minimum provides for periodic inspection of the site, checklist to confirm placement and efficacy of management measures, and document progress on any plan elements subject to a time schedule. Tier 2 Dischargers shall submit an annual report (Appendix C) by March 31 of each year that documents implementation and effectiveness of management measures during the previous year. Tier 2 annual reporting is a function that may be provided through an approved third party program.

Monitoring of the site includes visual inspection and photographic documentation of each feature of interest listed on the site map, with new photographic documentation recorded with any notable changes to the feature of interest. At a minimum, all site features must be monitored annually, to provide the basis for completion of the annual re-certification process. Additionally, sites shall be monitored at the following times to ensure timely identification of changed site conditions and to determine whether implementation of additional management measures are necessary to prevent, minimize, and mitigate discharges of waste to surface water: 1) just prior to October 15 to evaluate site preparedness for storm events and storm water runoff, 2) following the accumulation of 3" total precipitation or by November 15, whichever is sooner, and 3) following any rainfall event with an intensity of 3" precipitation in 24 hours. Precipitation data can be obtained from the National Weather Service Forecast Office (e.g. by entering the zip code of the parcel location at <http://www.srh.noaa.gov/forecast>). Sites requiring monitoring are indicated as such within the WRPP Mitigation report in the follow pages.

Monitoring Plan Reporting Requirements

Order No. R1-2015-0023, Appendix C must be submitted to the Regional Water Board or approved third party program upon initial enrollment in the Order (NOI) and annually thereafter by March 31. Forms submitted to the Regional Water Board shall be submitted electronically to northcoast@waterboards.ca.gov. 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.

Assessment of the Standard Conditions

Assessment of Standard Conditions consisted of field examinations in the summer of 2017. The examination evaluated areas near, and areas with the potential to directly impact, watercourses for sensitive conditions including, but not limited to, existing and proposed roads, skid trails and landings, unstable and erodible watercourse banks, unstable upslope areas, debris, jam potential, inadequate flow capacity, changeable channels, overflow channels, flood prone areas, and riparian zones. Field examinations also evaluated all roads and trails on the property, developed areas, cultivation sites, and any structures and facilities appurtenant to cultivation on the property. Anywhere the Standard Conditions are not met on the property, descriptions of the assessments and the prescribed treatments are outlined in the Mitigation Report to follow.

Summary of Standard Conditions Compliance

1. Site Maintenance, Erosion Control, and Drainage Features Y☐/N☒
2. Stream Crossing Maintenance Y☒/N☐
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☐
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☐

1. Site Maintenance, Erosion Control, and Drainage Features

Roads are being classified as "public" (paved county road being used year-round), "permanent" (a surface or unsurfaced road being used year-round), and "seasonal" (an unsurfaced road being used primarily during summer months).

During multiple inspection of the roads, cultivation areas, and watercourses, three sites were identified where road surface runoff was not being adequately dispersed and erosion of the road surface was occurring. Two of these sites (Sites 2 & 3) are rocked rolling dips that were developed under a grading plan filed with Humboldt County by Trinity Valley Consulting Engineers. Note that these sites as addressed in the grading plan are referred to a rocked fords. However, these sits are not associated with any existing watercourse. These sites are to be installed to the specifications laid out in the grading plan. The third site identified is a low point in the road that is currently in-sloped slightly and collects road runoff. Standing water was present at the time of our assessment and erosion was occurring in the wheel tracks. An outsloped dip (type 2 rolling dip) is to be installed to facilitate drainage of the road surfaces. Construction of this drainage feature will be done to the specifications laid out in the BMP's. Further detail can be found in the Mitigation Report to follow.

No unstable areas, nor evidence of the potential of road/surface related runoff to create unstable areas, was noted during assessment of the property. All roads, clearings, fill prisms, and terraced areas

Summary of Standard Conditions Compliance (Cont.)

(cleared/developed areas with the potential for sediment erosion and transport) are currently maintained so that they are not hydrologically connected to surface waters, including wetlands, ephemeral, intermittent and perennial streams. Any/all ditch relief drains, rolling dip outlets, road surfaces, and terrace surfaces are maintained to promote infiltration and/or dispersal of outflows and have no apparent erosion or evidence of soil transport to any receiving waters. No stockpiled construction materials are stored in any location that could be transport to receiving waters.

Cultivation Area A is located in a clearing, on a graded flat with slopes of less than 5% and adjoining natural hillslopes of approximately 24%. Surrounding the cultivation area are densely vegetated forest of conifer and hardwoods with the nearest riparian area greater than 200' away. The cultivation area is well drained with no associated erosion.

Cultivation Area B is located in a clearing, on a graded flat with slopes of less than 5% and adjoining natural hillslopes of approximately 35%. Surrounding the cultivation area are densely vegetated forest of conifer and hardwoods with the nearest riparian area greater than 200' away. The cultivation area is well drained with no associated erosion.

Cultivation Area C is located in a clearing, on terraced slopes of approximately 35%. Surrounding the cultivation area are densely vegetated forest of conifer and hardwoods with the nearest riparian area greater than 200' away. The cultivation area is well drained with no associated erosion.

Cultivation Area D is located in a clearing, on a graded flat with slopes of less than 5% and adjoining natural hillslopes of approximately 14%. Surrounding the cultivation area are densely vegetated forest of conifer and hardwoods with the nearest riparian area greater than 200' away. The cultivation area is well drained with no associated erosion.

2. Stream Crossing Maintenance

Due to the location of the property within the watershed, no watercourses or associated stream crossings were identified during our assessment of the property.

3. Riparian and Wetland Protection and Management

Multiple assessments of the property concluded that cultivation areas and associated facilities are not located or occurring within 100' of any Class I or II watercourse or within 50' of any Class III watercourse or wetland, buffers maintain natural slopes with native vegetation, and buffers are of sufficient width to filter wastes from runoff discharging from production lands and associated facilities to all wetlands, streams, drainage ditches, or other conveyances.

4. Spoils Management

Currently, no spoils are stored or placed in or where they can enter any surface water. Any/all spoils are adequately contained or stabilized to prevent sediment delivery to surface waters. Any/all spoils generated through development or maintenance of roads, driveways, earthen fill pads, or other cleared or filled areas have not been sidecast in any location where they can enter or be transported to surface waters. Any/all future spoils generated as a result of any future construction projects that are to be stored on the property shall be done so in accordance with the BMP's.

Summary of Standard Conditions Compliance (Cont.)

5. Water Storage and Use

All water on the property is derived from a metered, municipal, water supply. A pump house is located near the water main at Site 1. The pump houses pumps water up to multiple storage and mixing tanks. This water supply meets and exceed the required water demands for agricultural use. There is no domestic water use, at this time, on this property.

6. Irrigation Runoff

During multiple visits to the property, no irrigation runoff, or evidence of such runoff, was observed at any of the four cultivation sites.

7. Fertilizers and Soil Amendments

Fertilizers, potting soils, compost, and other soils and soil amendments are stored in structures on the property in a manner in which they will not enter or be transported into surface waters and so that nutrients or other pollutants will not be leached into groundwater. Fertilizers and soil amendments are applied and used per the manufacturers guidelines. Cultivation areas are currently maintained so as to prevent nutrients from leaving the site during the growing season and post-harvest.

8. Pesticides and Herbicides

The use of pesticide products is consistent with product labeling and all products on the property are currently used, and stored in closed structures to ensure that they do not enter or are released into surface or ground waters. Storage structures are located on a separate property.

9. Petroleum Products and Other Chemicals

Currently, no fuel storage or petroleum products are present on the property. Should the discharger at any point in the future obtain fuel storage or petroleum products, any/all future petroleum products and other liquid chemicals, including but not limited to diesel, biodiesel, gasoline, and oils shall be stored so as to prevent their spillage, discharge, or seepage into receiving waters. Storage tanks and containers shall be of suitable material and construction to be compatible with the substance(s) stored and conditions of storage such as pressure and temperature. Above ground storage tanks and containers shall be provided with a secondary means of containment for the entire capacity of the largest single container and sufficient cover shall be provided to prevent any/all precipitation from entering said secondary containment vessel. Dischargers shall ensure that diked areas are sufficiently impervious to contain discharged chemicals. Discharger(s) shall implement spill prevention, control, and countermeasures (SPCC) and have appropriate cleanup materials available onsite if the volume of a fuel container is greater than 1,300 gallons. Underground storage tanks 110 gallons and larger shall be registered with the appropriate County Health Department and comply with State and local requirements for leak detection, spill overflow, corrosion protection, and insurance coverage.

10. Cultivation-Related Wastes

No cultivation-related wastes including, but not limited to, empty soil/soil amendment/ fertilizer/pesticide bags and containers, empty plant pots or containers, dead or harvested plant waste, and spent growth medium, are stored at locations where they can enter or be blown into surface waters, or in a manner that could result in residues and pollutants within such materials to migrate or leach into surface water or groundwaters.

Summary of Standard Conditions Compliance (Cont.)

11. Refuse and Human Waste

Garbage and refuse is removed from the property as it is produced and hauled away to a landfill transfer station.

Human waste is managed by a service, portable toilet located at Site 4. It is the discharger's responsibility to ensure compliance of such action with the Humboldt County Department of Environmental Health and Human Services.

12. Remediation/Clean-up/Restoration

Currently, one of the Standard Conditions is not being met; Site Maintenance, Erosion Control, and Drainage Features. Sites will be treated in accordance with regulations, following approval of any and/or all necessary permits, and done in accordance with the BMP's listed in Appendix B of the Order and those included in this WRPP. Additionally, several other general recommendations have been made as follows:

General Recommendations

- ☐ In-organic cultivation related wastes should be removed and disposed of properly at a landfill transfer station or stored in an appropriate location greater than 200' from a watercourse where it cannot be transported by wind or rain, see Appendix B, BMP 137 of the Order. Organic cultivation related waste can either be composted or burned in the winter.
- ☐ Water use shall be designed and metered such that water used for the irrigation of cannabis will be recorded. Water use for the irrigation of cannabis is to be recorded monthly for annual reporting.
- ☐ Fertilizer, soil amendments, and pesticide use it to be recorded in such a manner that cumulative annual totals are recorded for annual reporting.
- ☐ Frequent use of un-surfaced roads should be avoided, particularly when road surfaces are soft/saturated.
- ☐ Existing or newly installed road surface drainage structures such as water bars, rolling dips, ditch relief culvers, and intentionally in/out-sloped segments of road shall be maintained to ensure continued function of capturing and draining surface runoff.
- ☐ Road surfaces should be maintained via grading, as needed, to prevent road surface runoff from being trapped in and eroding wheel tracks.



WRPP - Mitigation Report

WDID# - 1B161193CHUM

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Standard Conditions	Treatment Priority	Date Completed
Site 1	-123.64431 40.947212	Permanent				A.5.		

Current Condition: Spatial reference to a pump house used to deliver municipal water to multiple tanks on the property.

Prescribed Action:

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Standard Conditions	Treatment Priority	Date Completed
Site 2	-123.645307 40.948407	Permanent	X	X		A.1.	Prior to 10/15/18 pending the approval of any required permits	

Current Condition: Proposed location of a rocked rolling dip included in the engineered grading plan.

Prescribed Action: A new rocked rolling dip shall be installed at this location to the specifications set forth in the grading plan.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Standard Conditions	Treatment Priority	Date Completed
Site 3	-123.644698 40.948634	Permanent	X	X		A.1.	Prior to 10/15/18 pending the approval of any required permits	

Current Condition: Proposed location of a rocked rolling dip included in the engineered grading plan.

Prescribed Action: A new rocked rolling dip shall be installed at this location to the specifications set forth in the grading plan.

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Standard Conditions	Treatment Priority	Date Completed
Site 4	-123.644653 40.948802					A.11.		

Current Condition: Spatial reference to a serviced portable toilet.

Prescribed Action: None

Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Standard Conditions	Treatment Priority	Date Completed
Site 5	-123.645361 40.949114	Permanent	X	X		A.1.	Prior to 10/15/18 pending the approval of any required permits	

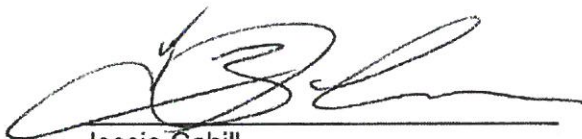
Current Condition: A low point in the road collects road surface runoff from both directions. However, the road is slightly insloped and water does not drain effectively from the road surface.

Prescribed Action: Install new out sloped dip (Type 2 rolling dip) as per the BMP's.

STATEMENT OF CONTINGENT AND LIMITING CONDITIONS CONCERNING THE PREPARATION AND USE OF WATER RESOURCE PROTECTION PLAN

Prepared by Timberland Resource Consultants

1. This Water Resource Protection Plan has been prepared for the property within APN 522-211-051, in Humboldt County, at the request of the Client.
2. Timberland Resource Consultants does not assume any liability for the use or misuse of the information in this Water Resource Protection Plan.
3. The information is based upon conditions apparent to Timberland Resource Consultants at the time the inspection was conducted. Changes due to land use activities or environmental factors occurring after this inspection, have not been considered in this Water Resource Protection Plan.
4. Maps, photos, and any other graphical information presented in this report are for illustrative purposes. Their scales are approximate, and they are not to be used for locating and establishing boundary lines.
5. The conditions presented in this Water Resource Protection Plan may differ from those made by others or from changes on the property occurring after the inspection was conducted. Timberland Resource Consultants does not guarantee this work against such differences.
6. Timberland Resource Consultants did not conduct an investigation on a legal survey of the property.
7. Persons using this Water Resource Protection Plan are advised to contact Timberland Resource Consultants prior to such use.
8. Timberland Resource Consultants will not discuss this report or reproduce it for anyone other than the Client named in this report without authorization from the Client.

A handwritten signature in black ink, appearing to read 'Jessie Cahill', is written over a horizontal line.

Jessie Cahill
Timberland Resource Consultants

Water Resource Protection Plan

General Location Map [WDID# - 1B161193CHUM]

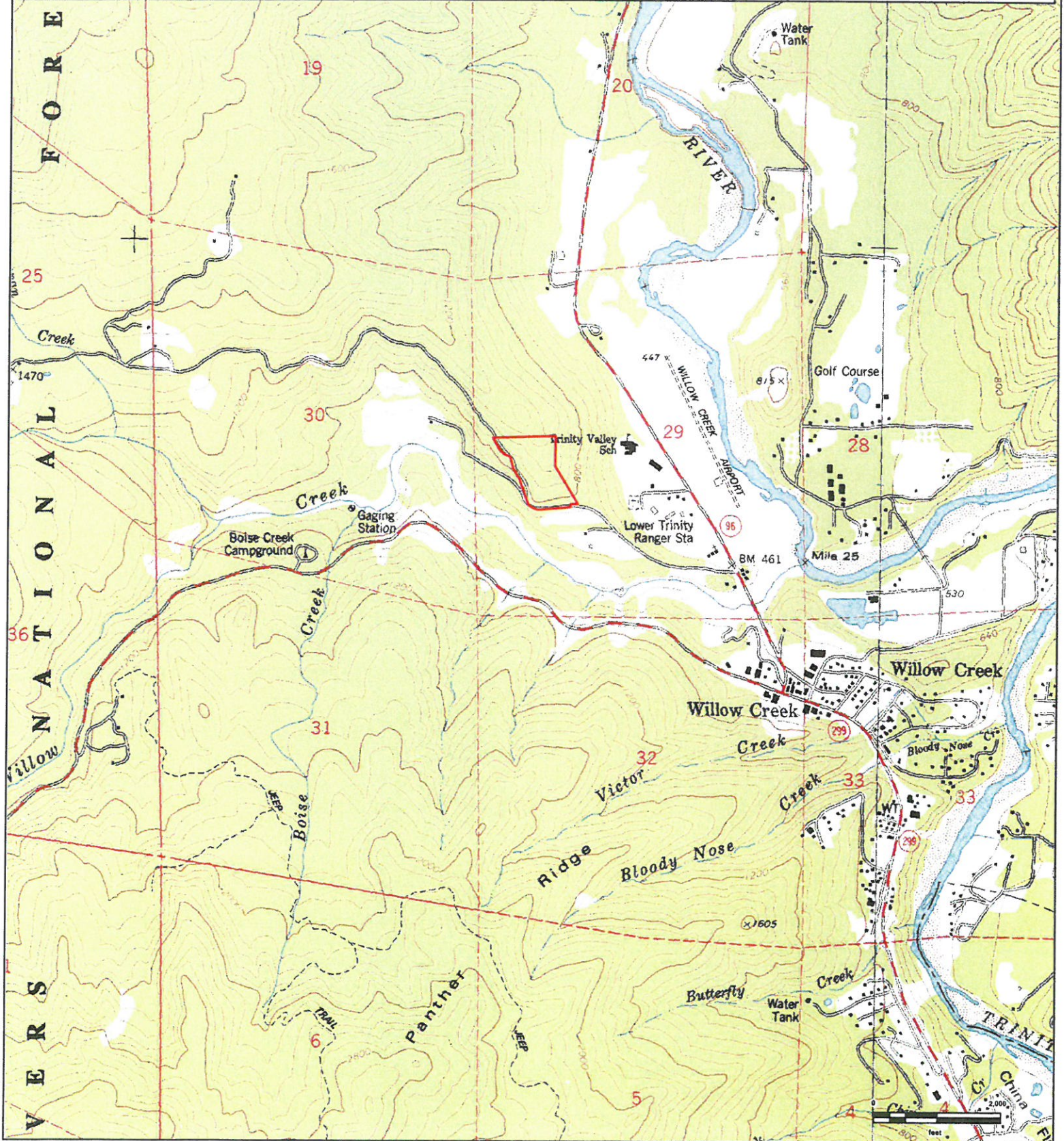


 Property Boundary



Located in Section 22, T7N, R5E, HB&M, Humboldt County, from the Willow Creek 7.5' USGS Quad Map

180102111206TRC149



Water Resource Protection Plan
Site Map [WDID# - 1B161193CHUM]



 Property Boundary

 Cultivation Area

Roads

 Permanent

 Public

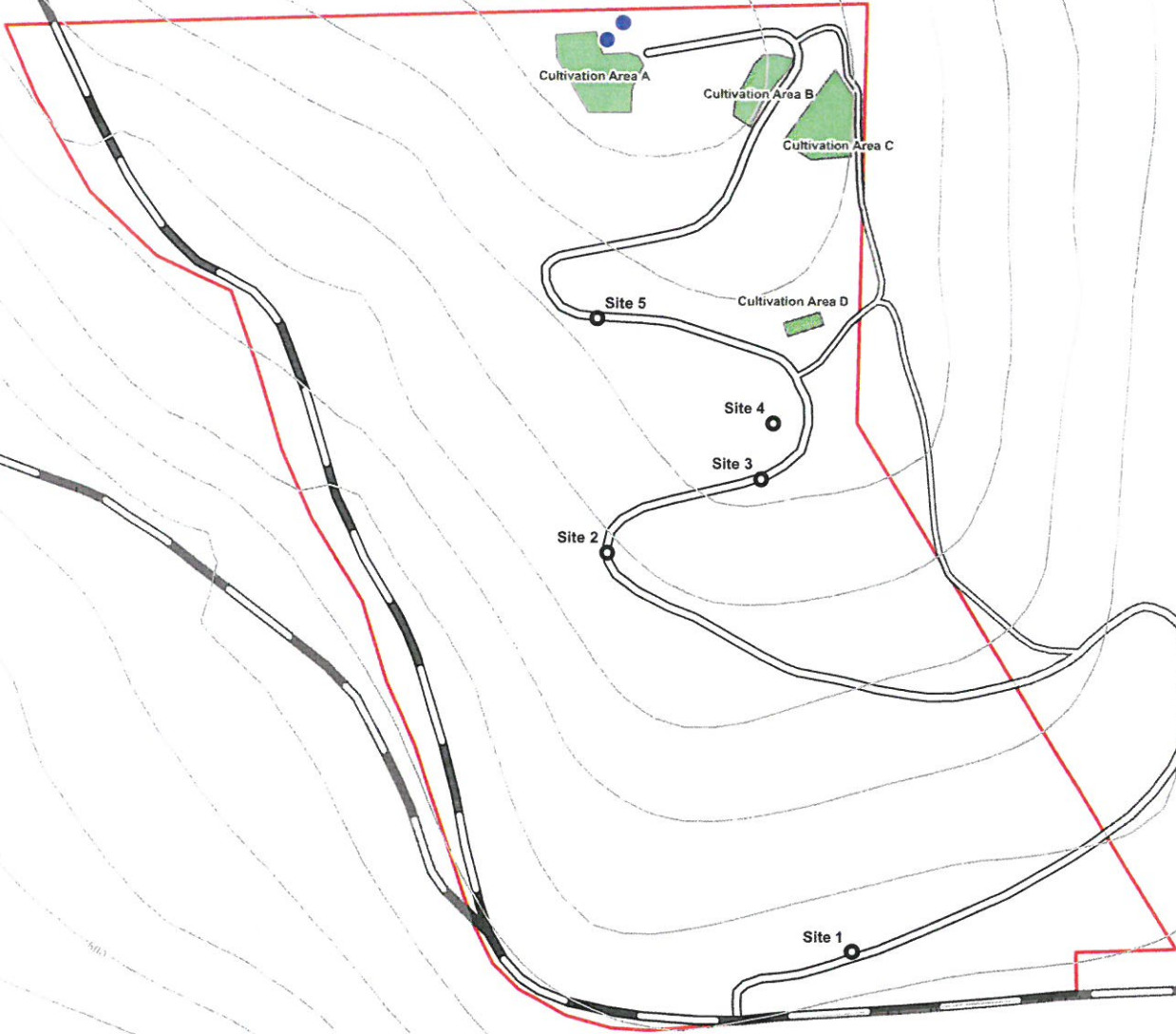
 Seasonal

 Site

 Tank

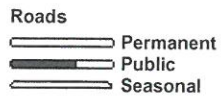


180102111206TRC149



Water Resource Protection Plan

Site Map [WDID# - 1B161193CHUM]



180102111206TRC149





Timberland
Resource
Consultants

WRPP - Mitigation Report

WDID# - 1BXXXXXCHUM

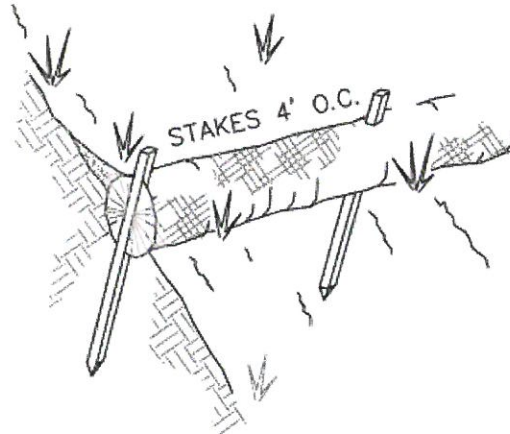
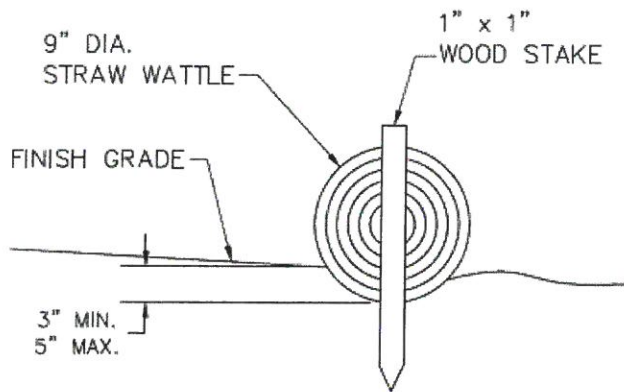
Unique Point	Lat-Long NAD 83	Road Type	Mitigation Planned	Monitor	1600	Standard Conditions	Treatment Priority	Date Completed
Site 1	-123.64431 40.947212	Permanent				A.5.		
Current Condition: Spatial reference to a pump house used to deliver municipal water to multiple tanks on the property.						Prescribed Action:		
Site 2	-123.645307 40.948407	Permanent	X	X		A.1.	Prior to 10/15/18 pending the approval of any required permits	
Current Condition: Location of a rocked rolling dip included in the engineered grading plan. <i>proposed?</i>						Prescribed Action: <u>Install new rocked rolling dip</u> as per the grading plan.		
Site 3	-123.644698 40.948634	Permanent	X	X		A.1.	Prior to 10/15/18 pending the approval of any required permits	
Current Condition: Location of a rocked rolling dip included in the engineered grading plan.						Prescribed Action: <u>Install new rocked rolling dip</u>		
Site 4	-123.644653 40.948802					A.11.		
Current Condition: Spatial reference to a serviced portable toilet.						Prescribed Action: None		
Site 5	-123.645361 40.949114	Permanent	X	X		A.1.	Prior to 10/15/18 pending the approval of any required permits	
Current Condition: A low point in the road collects road surface runoff from both directions. However, the road is slightly insloped and water does not drain effectively from the road surface.						Prescribed Action: Install new out sloped dip (Type 2 rolling dip) as per the BMP's.		

BMP: General BMP's

- If operations require moving of equipment across a flowing stream, such operations shall be conducted without causing a prolonged visible increase in stream turbidity. For repeated crossings, the operator shall install a bridge, culvert, or rock-lined crossing.
- 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 fish 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.
- Structures and associated materials not designed to withstand high seasonal flow shall be removed to areas above the high water mark before such flows occur.
- 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.

BMP: Erosion Control

- 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.
- Erosion control materials shall be, at minimum, stored on-site at all times during approved project work between May 1 and October 15.
- 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.
- 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.
- Upon work completion, all exposed soil present in and around the cleanup/restoration sites shall be stabilized within 7 days.
- Soils exposed by cleanup/restoration operations shall be seeded and mulched to prevent sediment runoff and transport.
- Straw Wattles (if used) shall be installed with 18 or 24 inch wood stakes at four feet on center. The ends of adjacent straw wattles shall be abutted to each other snugly or overlapped by six inches. Wattles shall be installed so that the wattle is in firm contact with the ground surface.



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 downcutting 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.

BMP: Rocked Rolling Dip

- Rocked rolling dips are drainage structures designed to carry surface water across roads.
- The truck road shall dip into and out of the rocked rolling dip to minimize diversion potential.
- The rocked rolling dip shall be constructed with clean native rock that is large enough to remain in place during peak flows. Rock size shall vary relative to the size of the watercourse; however an average 6" sized rock shall be used.
- The rocked rolling dips inlet and outlet shall be armored to resist downcutting and erosion.
- The entire width of the rocked rolling dip shall be rock armored to a minimum of 5-feet from the centerline of the dip.
- If a keyway is necessary, the rocked rolling dip keyway at the base of the dip shall be of sufficient size, depth and length to support materials used in the rocked rolling dip construction back up to the road crossing interface.
- 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.

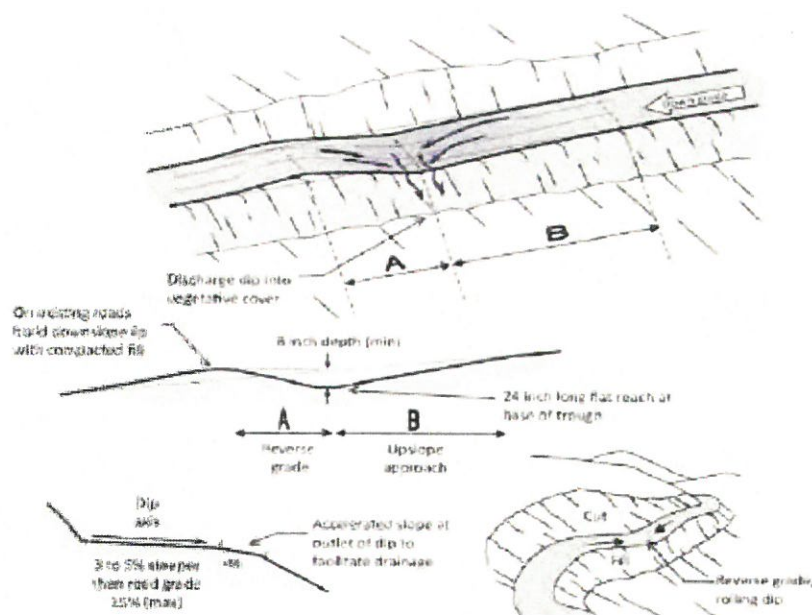
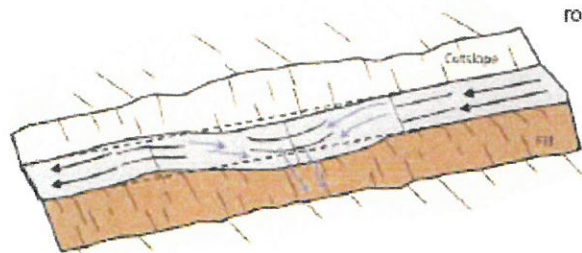


FIGURE 34. A classic Type I rolling dip, where the excavated up-road approach (B) to the rolling dip is several percent steeper than the approaching road and extends for 60 to 80 feet to the dip axis. The lower side of the structure reverses grade (A) over approximately 15 feet or more, and then falls down to rejoin the original road grade. The dip must be deep enough that it is not obliterated by normal grading, but not so deep that it is difficult to negotiate or a hazard to normal traffic. The outward cross-slope of the dip axis should be 3% to 5% greater than the up-road grade (B) so it will drain properly. The dip axis should be out-sloped sufficiently to be self-cleaning, without triggering excessive downcutting or sediment deposition in the dip axis (Modified from: Best, 2013).

HANDBOOK FOR FOREST, RANCH AND RURAL ROADS

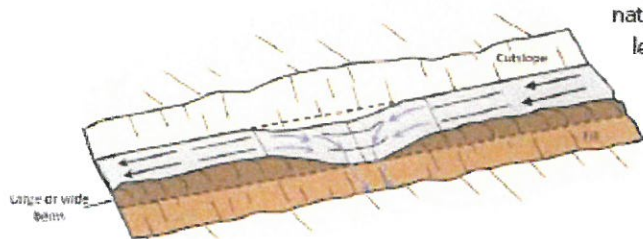
BMP: (Rocked) Rolling Dip (Cont.)

Type 1 Rolling Dip (Standard)



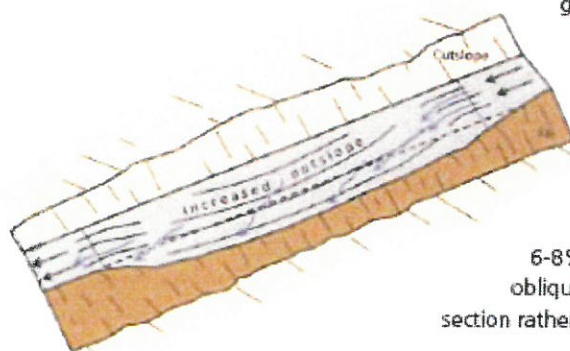
Type 1 rolling dips are used where road grades are less than about 12-14% and road runoff is not confined by a large through cut or berm. The axis of the dip should be perpendicular to the road alignment and sloped at 3-4% across the road tread. Steep roads will have longer and more abrupt dip dimensions to develop reverse grade through the dip axis. The road tread and/or the dip outlet can be rocked to protect against erosion, if needed.

Type 2 Rolling Dip (Through-cut or thick berm road reaches)



Type 2 rolling dips are constructed on roads up to 12-14% grade where there is a through cut up to 3 feet tall, or a wide or tall berm that otherwise blocks road drainage. The berm or native through cut material should be removed for the length of the dip, or at least through the axis of the dip, to the extent needed to provide for uninterrupted drainage onto the adjacent slope. The berm and slope material can be excavated and endhailed, or the material can be sidecast onto native slopes up to 45%, provided it will not enter a stream.

Type 3 Rolling Dip (Steep road grade)



Type 3 rolling dips are utilized where road grades are steeper than about 12% and it is not feasible to develop a reverse grade that will also allow passage of the design vehicle (steep road grades require more abrupt grade reversals that some vehicles may not be able to traverse without bottoming out).

Instead of relying on the dip's grade reversal to turn runoff off the roadbed, the road is built with an exaggerated outslope of 6-8% across the dip axis. Road runoff is deflected obliquely across the dip axis and is shed off the outsloped section rather than continuing down the steep road grade.

FIGURE 36. Rolling dip types



1600 Addendum

This 1600 Notification is for a Cannabis Cultivation Project located in Willow Creek, on the property known as 741 Brannan Mountain Road. The Applicant seeks a Zoning Clearance Certificate (APPS# 11050) for approximately 3,480 ft² of mixed light and 8,788ft² of outdoor pre-existing cannabis cultivation. The water on the property is sourced from the Willow Creek Community Service District. The property has an interim permit for 2,259 ft² of mixed light and 8,890 ft² of outdoor cultivation.

The project does not involve any of the following activities:

1. substantially divert or obstruct the natural flow of any river, stream or lake;
2. substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake; or
3. deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake.

However, this Notification is being submitted pursuant to Business and Professions Code 26060.1(b)(3), which requires that every license for cultivation issued by the CDFA must comply with Section 1602 of the Fish and Game Code or receive written verification from the CDFW that a Lake or Streambed Alteration (LSA) Agreement is not required. Compliance with Section 1602 of the Fish and Game Code requires all prospective licensees to submit an LSA notification to the CDFW regional office serving the area where the activity will occur. Upon receipt of a complete LSA notification, CDFW will determine if an LSA Agreement is required.

Water Source: The Willow Creek Community Services District provides water to the property for the cultivation of cannabis. Per <http://www.willowcreekcsd.com/water-services/>, the Willow Creek Community Services District (WCCSD) owns and operates a 22-mile public water system that serves water to approximately 934 service connections, with a population of 1,743 people. Per STATE WATER RESOURCES CONTROL BOARD ORDER WQ 2017-0023-DWQ, SECTION 3 – NUMERIC AND NARRATIVE INSTREAM FLOW REQUIREMENTS (INCLUDING GAGING), the Applicant is not subject to the instream flow requirements and forbearance period.

The instream flow requirements and forbearance period shall not apply to retail water suppliers, as defined in Section 13575 of the Water Code, whose primary beneficial use is municipal or domestic, unless any of the following circumstances are present:

- a. the retail water supplier has 10 or fewer customers and delivers water that is used for cannabis cultivation;
- b. the retail water supplier delivers 10 percent or more of the diverted water to one or more cannabis cultivator(s) or cannabis cultivation site(s), as established by an assessor's parcel number;
- c. 25 percent or more of the water delivered by the retail water supplier is used for cannabis cultivation; or
- d. a cannabis cultivator and the retail water supplier are affiliates, as defined in California Code of Regulations, title 23, section 2814.20.

None of the above conditions exist relative to this notification and therefore the Applicant is not subject to instream flow requirements and forbearance period.

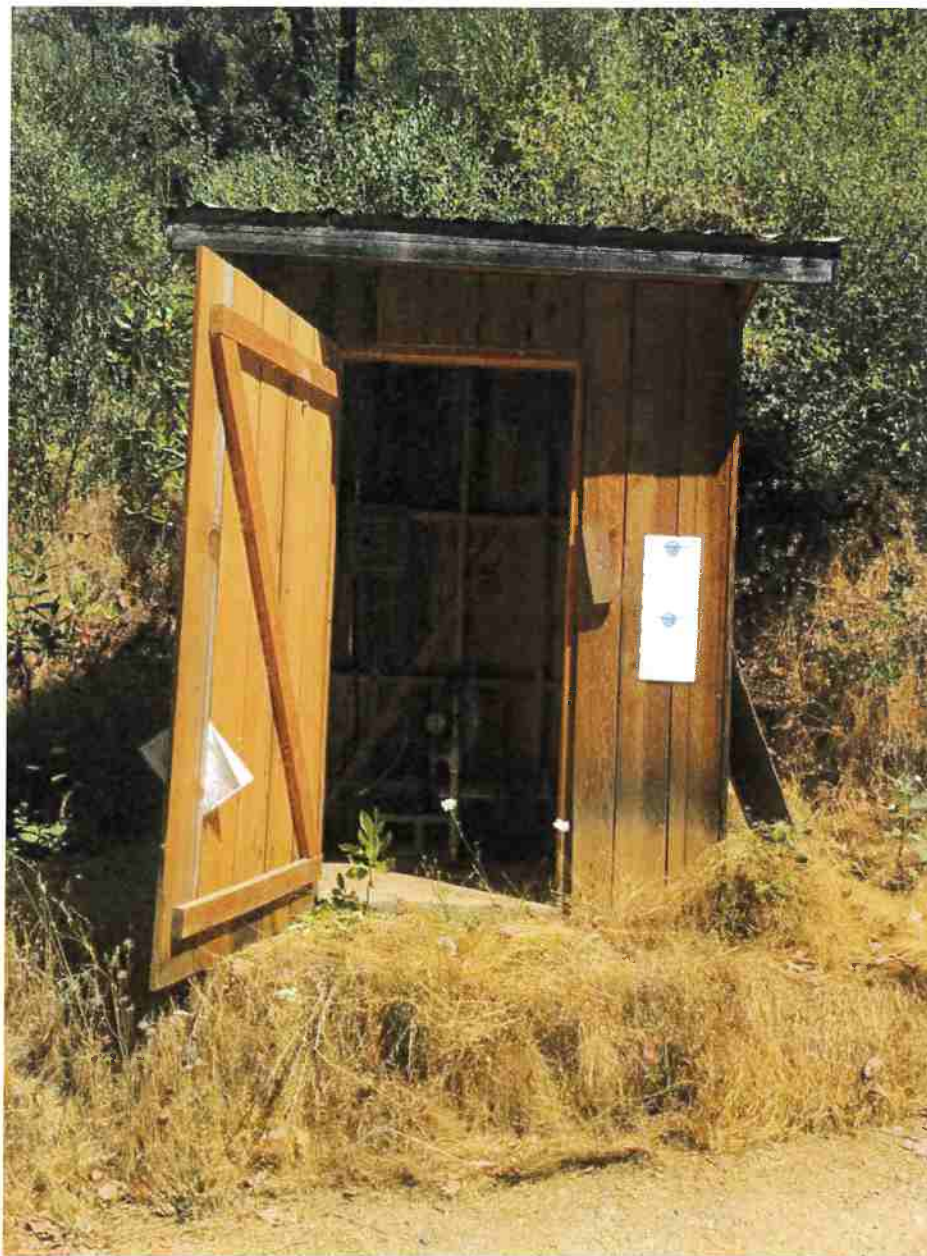
Remediation Plan

The Applicant is enrolled into *California Regional Water Quality Control Board North Coast Region Order No. 2015-0023, Waiver of Waste Discharge Requirements and 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* (WDID# - 1B161193CHUM). A Water Resource Protection Plan was prepared for the Applicant by Timberland Resource Consultants in August 2017, and a copy of the WRPP is attached. The WRPP identified no stream crossings and no surface water diversions on the property. Based upon my evaluation conducted in association with this notification, there are no sites located on the property that are jurisdictional to CDFW per the California Fish and Game Code Section 1600 and no FGC 5650 violations exist.





Photographs



Picture 1: Pumphouse near Brannan Mountain Road where Willow Creek Community Services District municipal water is pumped upslope to the two 2,500-gallon water tanks. Photo date 7-24-2018



Photographs



Picture 2: Two 2,500-gallon plastic water storage tanks located at top of property north of Cultivation Site A. Willow Creek Community Services District municipal is pumped to these tanks and gravity fed to the cultivation sites. Photo date 7-14-2018



Photographs



Picture 3: Cultivation Site A. Photo date 10-24-2017.



Photographs



Picture 4: Cultivation Site B located right of road and Cultivation Site C left of road.
Photo date 10-24-2017.



Photographs



Picture 5: Cultivation Site C. Photo date 10-24-2017.



Photographs




Picture 6: Cultivation Site D facing northeast. Photo date 10-24-2017.



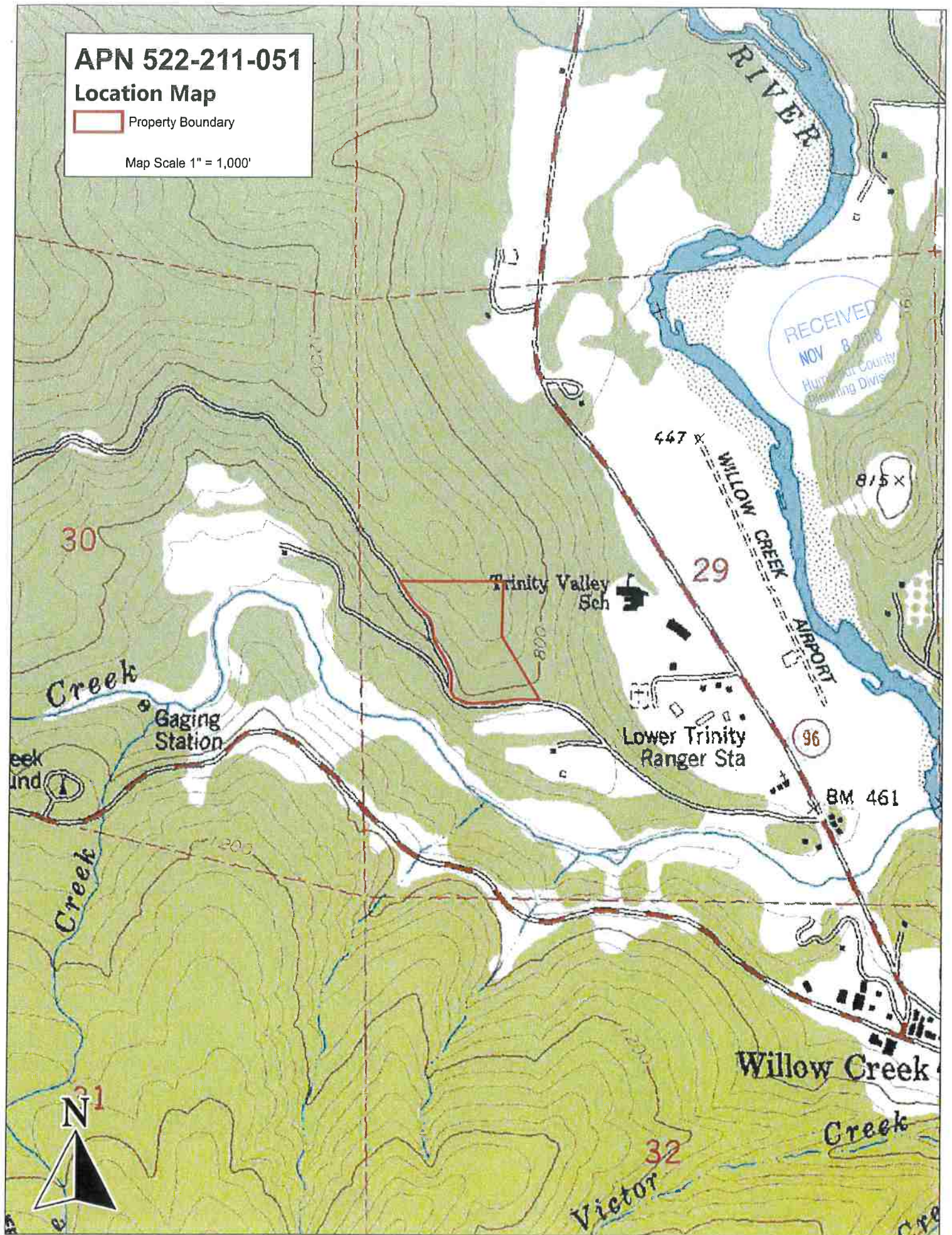
Attachments

APN 522-211-051

Location Map

 Property Boundary

Map Scale 1" = 1,000'





APN 522-211-051

1600 USGS Map

 Property Boundary

 Cultivation Site

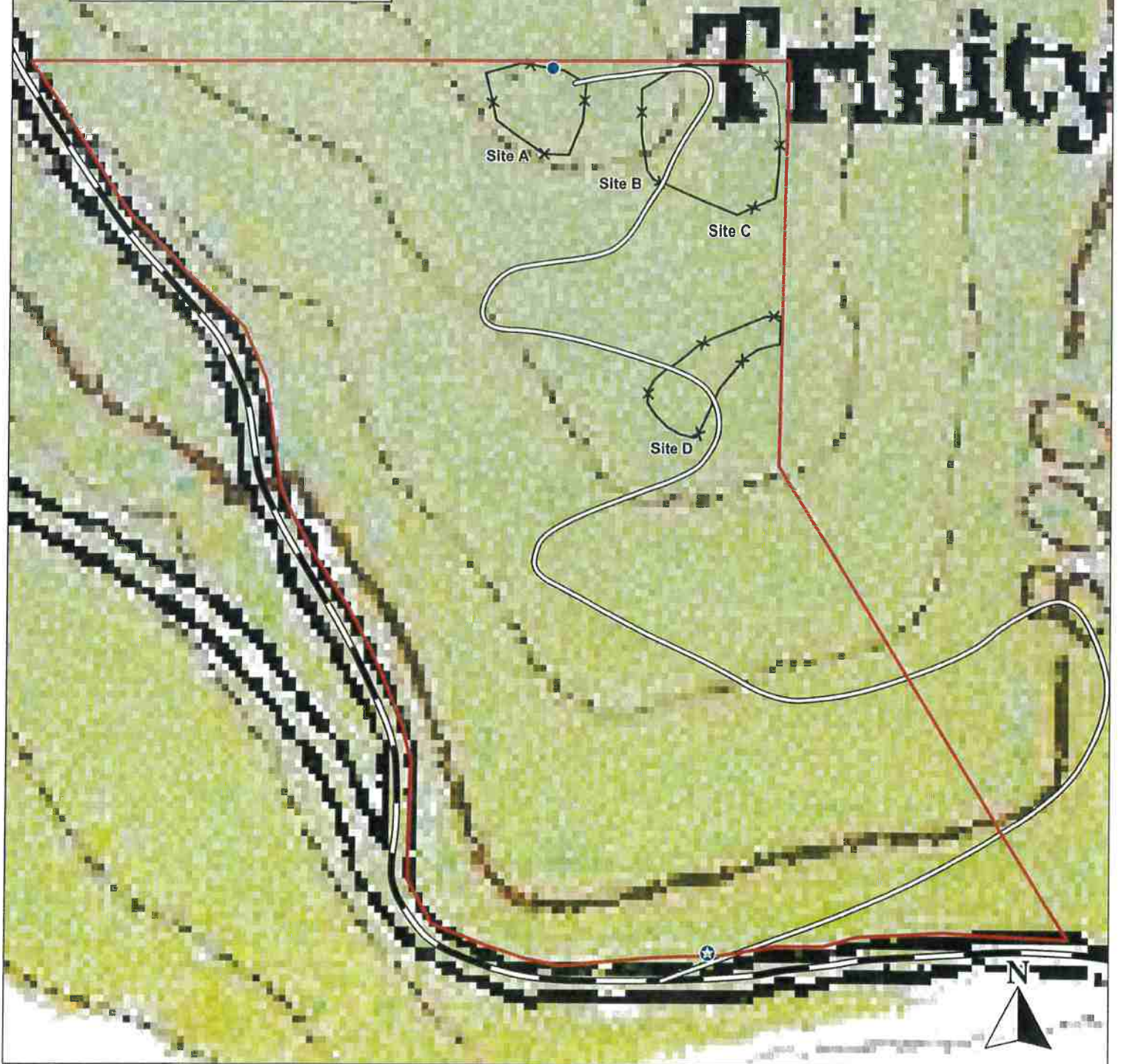
 Permanent Rocked Road

 Brannan Mtn Road

 Two 2,500-Gallon Tanks







 Water Pump Shack

Map Scale 1" = 150'

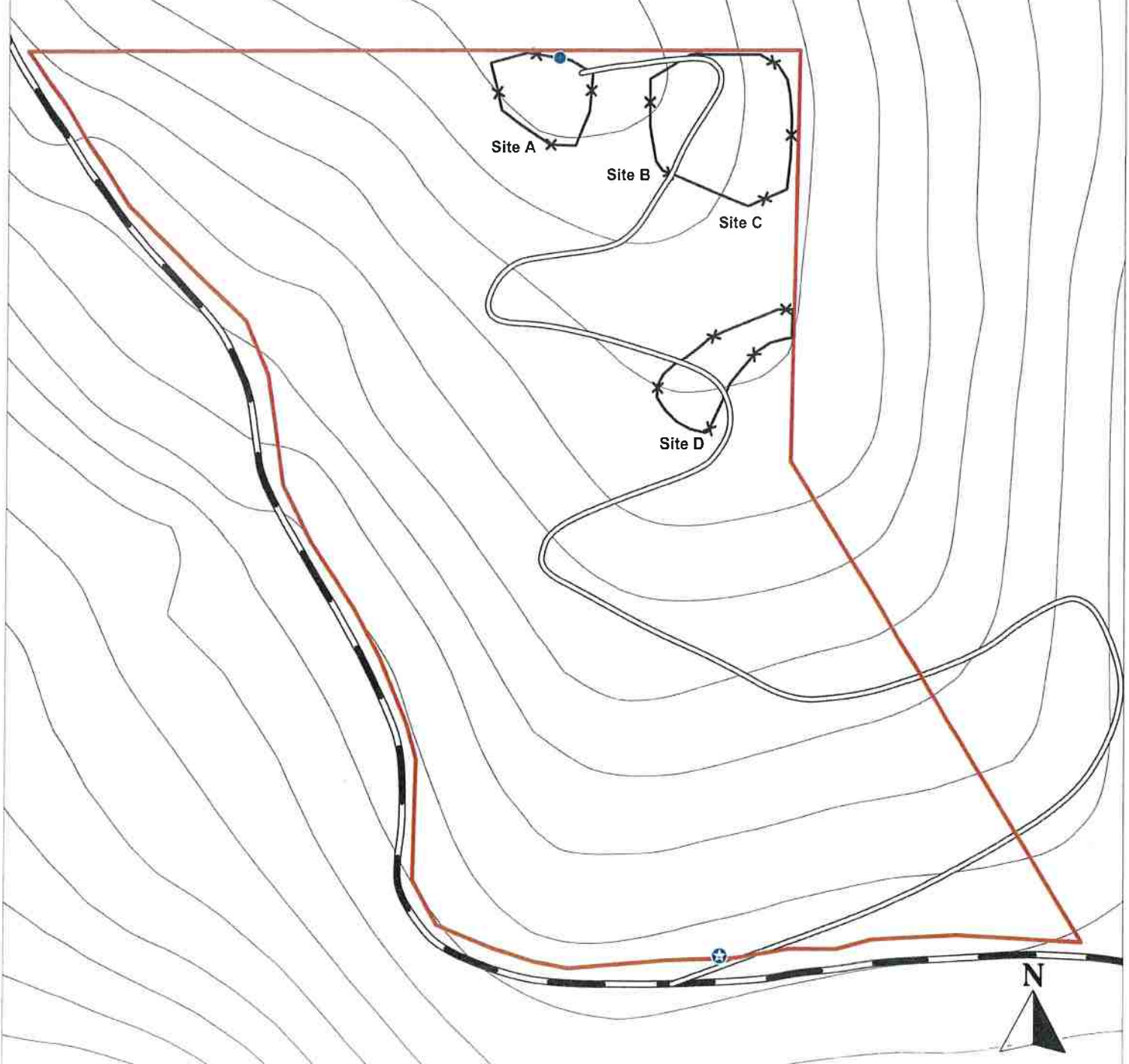


APN 522-211-051

1600 Topo Map

-  Property Boundary
-  Cultivation Site
-  Permanent Rocked Road
-  Brannan Mtn Road
-  Two 2,500-Gallon Tanks
-  Water Pump Shack

Map Scale 1" = 150'




APN 522-211-051

1600 2016 DOQ

 Property Boundary

 Cultivation Site

 Permanent Rocked Road

 Brannan Mtn Road

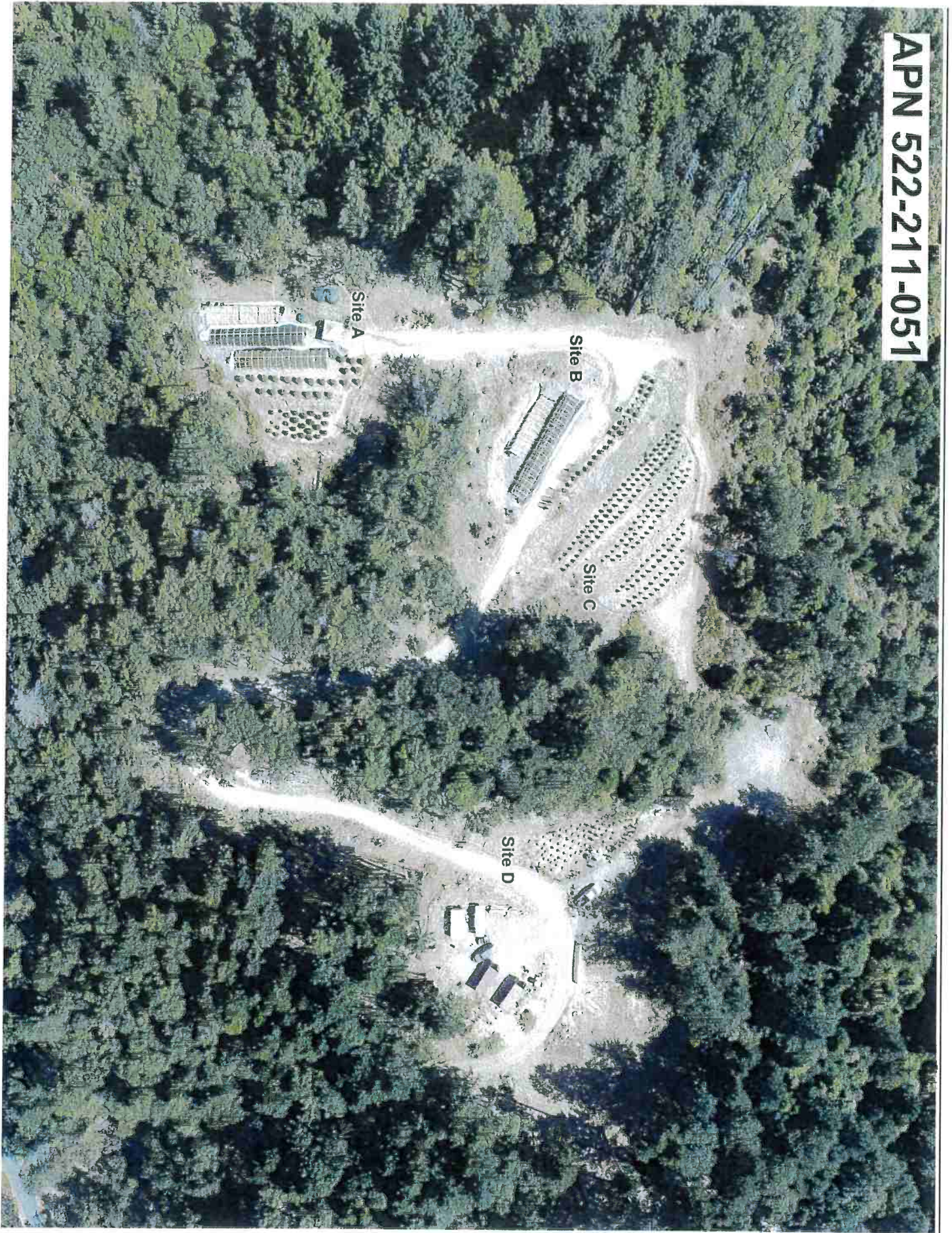
 Two 2,500-Gallon Tanks

 Water Pump Shack

Map Scale 1" = 150'

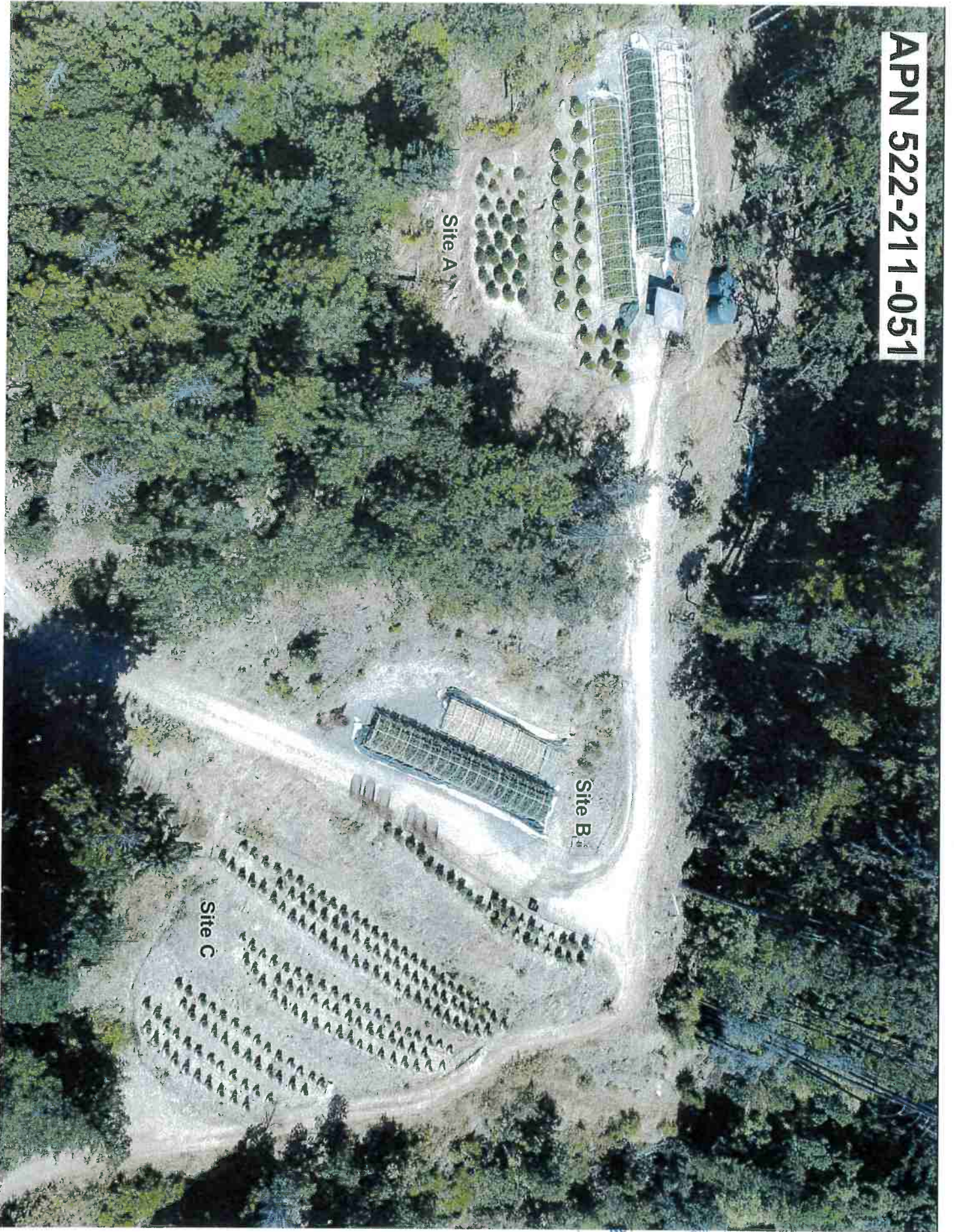


APN 522-211-051



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Site A



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Site B and Site C

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