

FOR DEPARTMENT USE ONLY

Date Received	Amount Received	Amount Due	Date Complete	Notification No.
	\$	\$		



STATE OF CALIFORNIA
DEPARTMENT OF FISH AND WILDLIFE
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	Dean Crisp		
Business/Agency			
Street Address	4270 Lentell Road		
City, State, Zip	Eureka CA 95503		
Telephone	707-499-4918	Fax	
Email	deancrisp1@gmail.com		

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

Name	Joshua T. McKnight @ Trinity Valley Consulting Engineers		
Street Address	67 Walnut Way		
City, State, Zip	Willow Creek CA 95573		
Telephone	530-629-3000	Fax	530-629-3011
Email			

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

Name			
Street Address			
City, State, Zip			
Telephone		Fax	
Email			

4. PROJECT NAME AND AGREEMENT TERM

A. Project Name		APN 315-093-006		
B. Agreement Term Requested		<input checked="" type="checkbox"/> Regular (5 years or less) <input type="checkbox"/> 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)	
2016	2016	June 28	August 28	60

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

5. AGREEMENT TYPE

Check the applicable box. If box B, C, D, or E is checked, complete the specified attachment.

A.	<input checked="" type="checkbox"/> Standard (Most construction projects, excluding the categories listed below)	
B.	<input type="checkbox"/> Gravel/Sand/Rock Extraction (Attachment A)	Mine I.D. Number: _____
C.	<input type="checkbox"/> Timber Harvesting (Attachment B)	THP Number: _____
D.	<input checked="" type="checkbox"/> Water Diversion/Extraction/Impoundment (Attachment C)	SWRCB Number: <u>Pending</u>
E.	<input type="checkbox"/> Routine Maintenance (Attachment D)	
F.	<input type="checkbox"/> CDFW Fisheries Restoration Grant Program (FRGP)	FRGP Contract Number _____
G.	<input type="checkbox"/> Master	
H.	<input type="checkbox"/> Master Timber Harvesting	

6. FEES

Please 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	repair and maintain existing rock ford	>\$5k	\$245.50
2	repair and maintain existing rock ford	>\$5k	\$245.50
3	repair and maintain existing rock ford	>\$5k	\$245.50
4	repair and maintain existing rock ford	>\$5k	\$245.50
5			
		D. Base Fee (if applicable)	
		E. TOTAL FEE ENCLOSED	\$982.00

7. PRIOR NOTIFICATION OR ORDER

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 (Provide the information below) No

Applicant: _____ Notification Number: _____ Date: _____

B. Is this notification being submitted in response to an order, notice, or other directive ("order") by a court or administrative agency (including the Department)?

No Yes (Enclose a copy of the order, notice, or other directive. If the directive is not 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.)

Continued on additional page(s)

8. PROJECT LOCATION

<p>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></p> <p>From Willow Creek drive on CA-299 W to Co Rte 7K100/Titlow Hill Rd (9.6 mi). Continue on Titlow Hill Rd for 17.2 miles and turn down a dirt road on the left. Drive 150 yards, take a right downhill, and go approximately another mile and a half to reach the parcel.</p> <p style="text-align: right;"><input type="checkbox"/> Continued on additional page(s)</p>				
B. River, stream, or lake affected by the project.		Un-named tributary to White Oak Creek		
C. What water body is the river, stream, or lake tributary to?		White Oak Creek		
D. Is the river or stream segment affected by the project listed in the state or federal Wild and Scenic Rivers Acts?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		
E. County	Humboldt			
F. USGS 7.5 Minute Quad Map Name	G. Township	H. Range	I. Section	J. ¼ Section
Board Camp Mountain	4N	4E	13	SW
<input type="checkbox"/> Continued on additional page(s)				
K. Meridian (check one)	<input checked="" type="checkbox"/> Humboldt <input type="checkbox"/> Mt. Diablo <input type="checkbox"/> San Bernardino			
L. Assessor's Parcel Number(s)				
315-092-007				
<input type="checkbox"/> Continued on additional page(s)				
M. Coordinates (If available, provide at least latitude/longitude or UTM coordinates and check appropriate boxes)				
Latitude/Longitude	Latitude: 40.72436		Longitude: -123.68012	
	<input type="checkbox"/> Degrees/Minutes/Seconds		<input checked="" type="checkbox"/> Decimal Degrees <input type="checkbox"/> Decimal Minutes	
UTM	Easting:	Northing:	<input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11	
Datum used for Latitude/Longitude or UTM		<input type="checkbox"/> NAD 27 <input checked="" type="checkbox"/> NAD 83 or WGS 84		

9. PROJECT CATEGORY AND WORK TYPE (Check each box that applies)

PROJECT CATEGORY	NEW CONSTRUCTION	REPLACE EXISTING STRUCTURE	REPAIR/MAINTAIN EXISTING STRUCTURE
Bank stabilization – bioengineering/recontouring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bank stabilization – rip-rap/retaining wall/gabion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boat dock/pier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boat ramp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bridge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channel clearing/vegetation management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Culvert	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Debris basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diversion structure – weir or pump intake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Filling of wetland, river, stream, or lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geotechnical survey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Habitat enhancement – revegetation/mitigation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Levee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Low water crossing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Road/trail	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sediment removal – pond, stream, or marina	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Storm drain outfall structure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporary stream crossing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utility crossing : Horizontal Directional Drilling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jack/bore	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Open trench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. PROJECT DESCRIPTION

A. Describe the project in detail. Photographs of the project location and immediate surrounding area should be included.

- Include any structures (e.g., rip-rap, culverts, or channel clearing) that will be placed, built, or completed in or near the stream, river, or lake.
- Specify the type and volume of materials that will be used.
- If water will be diverted or drafted, specify the purpose or use.

Enclose diagrams, drawings, plans, and/or maps that provide all of the following: site specific construction details; the dimensions of each structure and/or extent of each activity in the bed, channel, bank or floodplain; an overview of the entire project area (i.e., "bird's-eye view") showing the location of each structure and/or activity, significant area features, and where the equipment/machinery will enter and exit the project area.

Please see Addendum 10 for detailed information about the project.

Continued on additional page(s)

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

Excavator, grader and dump truck may all be utilized.

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.

See Addendum 11A

Continued on additional page(s)

B. Will the project affect any vegetation? Yes (Complete the tables below) No

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

Sidalcea malviflora ssp. patula; Carex arcata; Epilobium oregonum; Pekania pennanti (Refer to CNDDDB query)

Continued on additional page(s)

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

CNDDDB Database

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.

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.

See Addendum 12A

Continued on additional page(s)

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

Addendum 12B

Continued on additional page(s)

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

See General Best Management Practices

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. County of Humboldt Grading Permit Applied Issued
- B. SWRCB SDU Permit 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)

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14. ENVIRONMENTAL REVIEW

A. Has a draft or final document been prepared for the project pursuant to the California Environmental Quality Act (CEQA), National Environmental Protection Act (NEPA), California Endangered Species Act (CESA) and/or federal Endangered Species Act (ESA)?			
<input type="checkbox"/> Yes (Check the box for each CEQA, NEPA, CESA, and ESA document that has been prepared and enclose a copy of each) <input checked="" type="checkbox"/> No (Check the box for each CEQA, NEPA, CESA, and ESA document listed below that will be or is being prepared)			
<input type="checkbox"/> Notice of Exemption	<input type="checkbox"/> Mitigated Negative Declaration	<input type="checkbox"/> NEPA document (type): _____	
<input type="checkbox"/> Initial Study	<input type="checkbox"/> Environmental Impact Report	<input type="checkbox"/> CESA document (type): _____	
<input type="checkbox"/> Negative Declaration	<input type="checkbox"/> Notice of Determination (Enclose)	<input type="checkbox"/> ESA document (type): _____	
<input type="checkbox"/> THP/ NTMP	<input type="checkbox"/> Mitigation, Monitoring, Reporting Plan		
B. State Clearinghouse Number (if applicable)			
C. Has a CEQA lead agency been determined?		<input type="checkbox"/> Yes (Complete boxes D, E, and F) <input checked="" type="checkbox"/> 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 part of a larger project or plan, briefly describe that larger project or plan.			
<input type="checkbox"/> Continued on additional page(s)			
H. Has an environmental filing fee (Fish and Game Code section 711.4) been paid?			
<input type="checkbox"/> Yes (Enclose proof of payment) <input checked="" type="checkbox"/> No (Briefly explain below the reason a filing fee has not been paid)			
Note: If a filing fee is required, the Department may not finalize a Lake or Streambed Alteration Agreement until the filing fee is paid.			

15. SITE INSPECTION

Check one box only.
<input type="checkbox"/> 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.
<input checked="" type="checkbox"/> I request the Department to first contact (insert name) <u>Joshua McKnight</u> at (insert telephone number) <u>530-629-3000</u> 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.

Signature of Applicant or Applicant's Authorized Representative

Date

Print Name

Addendum 10 - Project Description

Location 1: Latitude: 40.72621, Longitude: -123.68279

Description: Rock Ford Crossing (Existing)

At this location an existing rock ford crossing is utilized to cross an ephemeral drainage (class III waterbody). The road has an approximate grade of 2% with a stream slope of 15-30%. The cut-slope is approximately 10-12 feet on the inboard edge, where the class III drainage is at grade with inboard edge. On the outboard edge, large boulders (1/4 ton rip-rap) have been emplaced, armoring the outboard edge from erosion and allowing for velocity dissipation of overland flow. Proposed actions for this location includes the repair and maintenance of a rock ford crossing by adding more armoring to the road itself, to minimize erosion. There should be no removal of trees or vegetation for the repair of the rock ford crossing.

Location 2: Latitude: 40.725588, Longitude: -123.680875

Description: Rock Ford Crossing (Existing)

At this location an existing rock ford crossing is utilized to cross an ephemeral drainage (class III waterbody). The road has an approximate slope of 5% and the bankfull width is a 3 foot wide with a slope of 15-20%. The drainage is also entrenched approximately 5-8 feet, however is at grade with the inboard edge of the travel way. On the outboard edge, large boulders (1/4 ton rip-rap) have been emplaced, armoring the outboard edge from erosion and allowing for velocity dissipation of overland flow. Proposed actions for this location includes the repair and maintenance of a rock ford crossing by adding more armoring to the road itself, to minimize erosion. There should be no removal of trees or vegetation for the repair of the rock ford crossing.

Location 3: Latitude: 40.723393, Longitude: -123.675681

Description: Rock Ford Crossing (Existing)

At this location an existing rock ford crossing is utilized to cross an ephemeral drainage (class III waterbody). The road has an approximate slope of 5% and the bankfull width is a 2 foot wide with a slope of 15-20%. The drainage is slightly entrenched and the grade of the stream is level with the inboard edge of the travel way. The outboard edge of the rock ford is lightly armored. Proposed action for this location includes the repair and maintenance of a rock ford crossing by adding more armoring to the road itself, to minimize erosion. There should be no removal of trees or vegetation for the repair of the rock ford crossing.

Location 4: Latitude: 40.722694, Longitude: -123.675837

Description: Rock Ford Crossing (Existing)

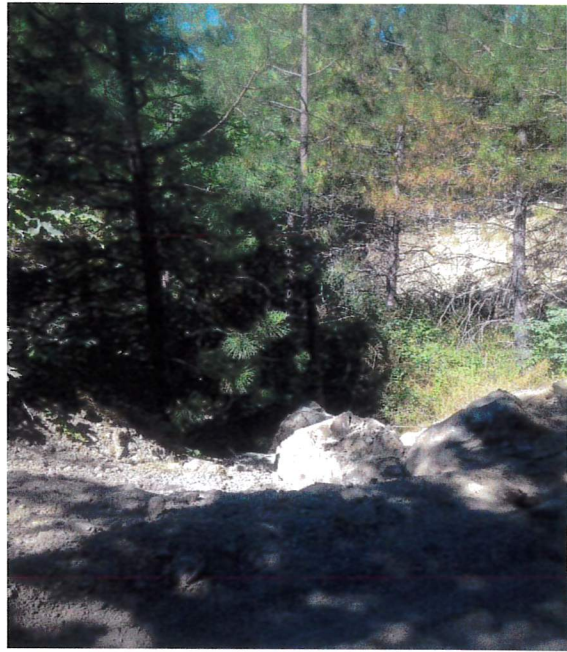
At this location an existing rock ford crossing is utilized to cross an ephemeral drainage (class III waterbody). The road has an approximate slope of ~10% and the bankfull width is a 2 foot wide with a slope of 20-30%. The drainage is slightly entrenched and the grade of the stream is level with the inboard edge of the travel way. The outboard edge of the rock ford is lightly armored. Proposed action for this location includes the repair and maintenance of a rock ford crossing by adding more armoring to

the road itself, to minimize erosion. There should be no removal of trees or vegetation for the repair of the rock ford crossing.

Addendum 11A – Project Impacts

All work will take place during the dry summer months, when impacts on salmonids will be minimal. Rock ford maintenance and repair may result in temporary impacts to the stream bed, channel and bank during crossing structure removal and re-installation. The stream channel and bank will be re-contoured prior to rock ford installation and may result in minor sediment introduced at work site. Similarly, the backfilling of the permanent crossing may result in the minor introduction of sediment to the stream. No net loss of riparian vegetation will occur because all crossings are existing.

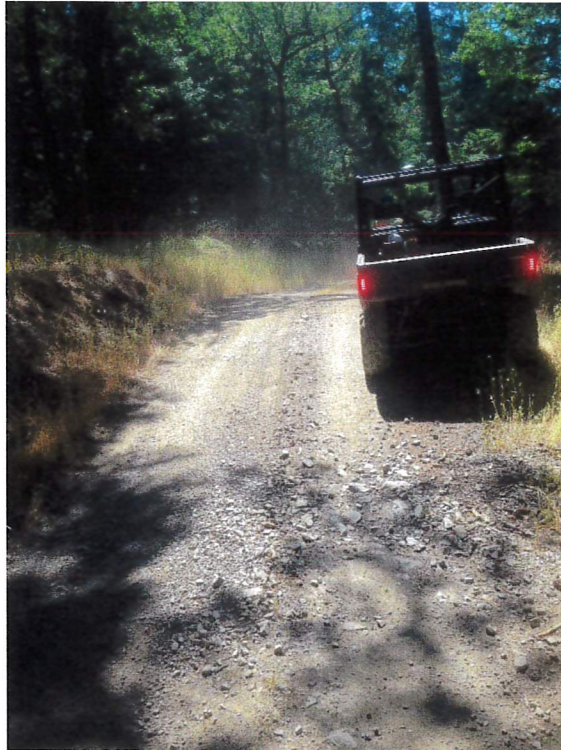
On average, each location discussed in Addendum 10 will have impact on approximately 20 linear feet of stream, with approximate 400 square feet of disturbance, where approximately 17 cubic yards of materials (3" rock for surfacing, subjacent to surfacing 12"-18" rock will be needed, armoring of inlet/outlet with 12"-18" rock).



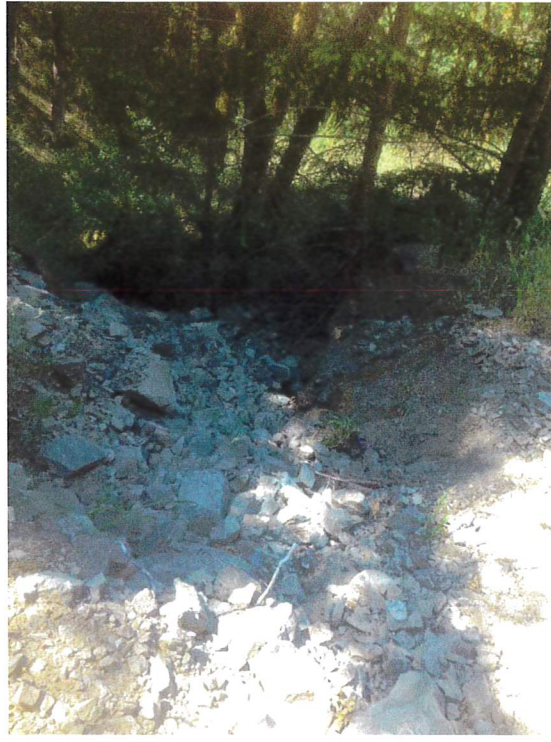
Location 1: Rock ford crossing located on a Class III drainage. Photo date 6/18/15. Photo on the left is the upstream view, while the photo on the right is the downstream view. This project proposes the maintenance and repair of this rock ford within the travel way to reduce sedimentation and erosion.



Location 2: Rock ford on ephemeral drainage area. Photo date 6/18/15. This project proposes the maintenance and repair of this rock ford to reduce sedimentation and erosion.



Location 3: Rock ford crossing located on a Class III drainage. Photo date 6/18/15. Photo on the left is the upstream view, while the photo on the right is the crossing view. This project proposes the maintenance and repair of this rock ford within the travel way to reduce sedimentation and erosion.



Location 4: Rock ford crossing located on a Class III drainage. Photo date 6/18/15. Photo on the left is the upstream view, while the photo on the right is the downstream view. This project proposes the maintenance and repair of this rock ford within the travel way and further armor the downslope section to reduce sedimentation and erosion.

Addendum 12A – Erosion Control Measures for Construction Activities

The following soil stabilization measures shall be implemented as best management practices at all rock ford installations.

1. Timing for soil stabilization measures within the 100 feet of a watercourse or lake: For areas disturbed from May 1 through October 15, treatment shall be completed prior to the start of any rain that cause overland flow across or along the disturbed surface. For areas disturbed from October 16 through April 20, treatment shall be completed prior to any day which a chance of rain of 30 percent or greater is forecast by the National Weather Service or within 10 days, whichever is earlier.
2. Within 100 feet of a watercourse or lake, the traveled surface of access roads shall be treated to prevent waterborne transport of sediment and concentration of runoff that results from operations. Treatment may consist of, but not limited to, rocking, outsloping, rolling dips, cross drains, waterbars, slope stabilization measures, or other practices appropriate to site-specific conditions.
3. The treatment for other disturbed areas with 100 feet of a watercourse or lake, including: (A) areas exceeding 100 contiguous square feet where operations have exposed bare soil, (B) approaches to road watercourse crossings out to 100 feet or the nearest drainage facility, whichever is farthest, (C) road cut banks and fills, and (D) any other area of disturbed soil that threatens to discharge sediment into waters in amounts deleterious to the quality and beneficial use of water, shall be grass seeded and mulched with straw or fine slash. Grass seed shall be applied at a rate exceed 100 pounds per acre. Straw mulch shall be applied in amounts sufficient to provide at least 2 to 4 inch depth with a minimum of 90% coverage. Any treated area that has been subject to reuse or has less than 90% surface cover shall be treated again prior to the end of operations.
4. With 100 feet of a watercourse or lake, where the undisturbed natural ground cover cannot effectively protect beneficial use of water from operations, the ground shall be treated with slope stabilization described in #3 above per timing described in #1 above.
5. Sidecast or fill material extended more than 20 feet in slope distance for the outside edge of a roadbed, which has access to a watercourse or lake, shall be treated with slope stabilization measures described in #3 above. Timing shall occur per #1 above unless outside 100 feet of a watercourse or lake in which completion date is October 15.
6. Sidecast or fill material extended more than 20 feet in slope distance for the outside edge of a landing, which has access to a watercourse or lake, shall be treated with slope stabilization measures described in #3 above. Timing shall occur per #1 above unless outside 100 feet of a watercourse or lake in which completion date is October 15.
7. All roads shall have drainage and/or drainage collection and storage facilities installed as soon as practical following operations and prior to either (1) the start of any rain which cause overland flow across or along the disturbed surface within 100 feet of a watercourse or lake protection, or (2) any day with a National Weather Service forecast of a chance of rain of 30 percent or more, a flash flood warning, or flash flood watch.

Attachments

Vicinity Map

Site Map

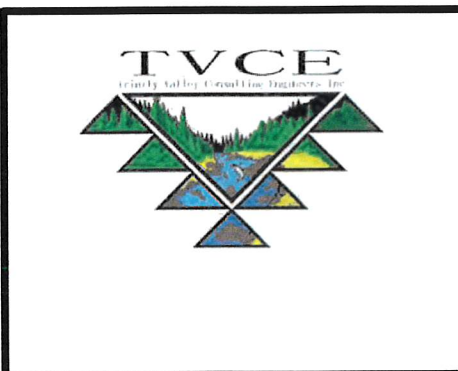
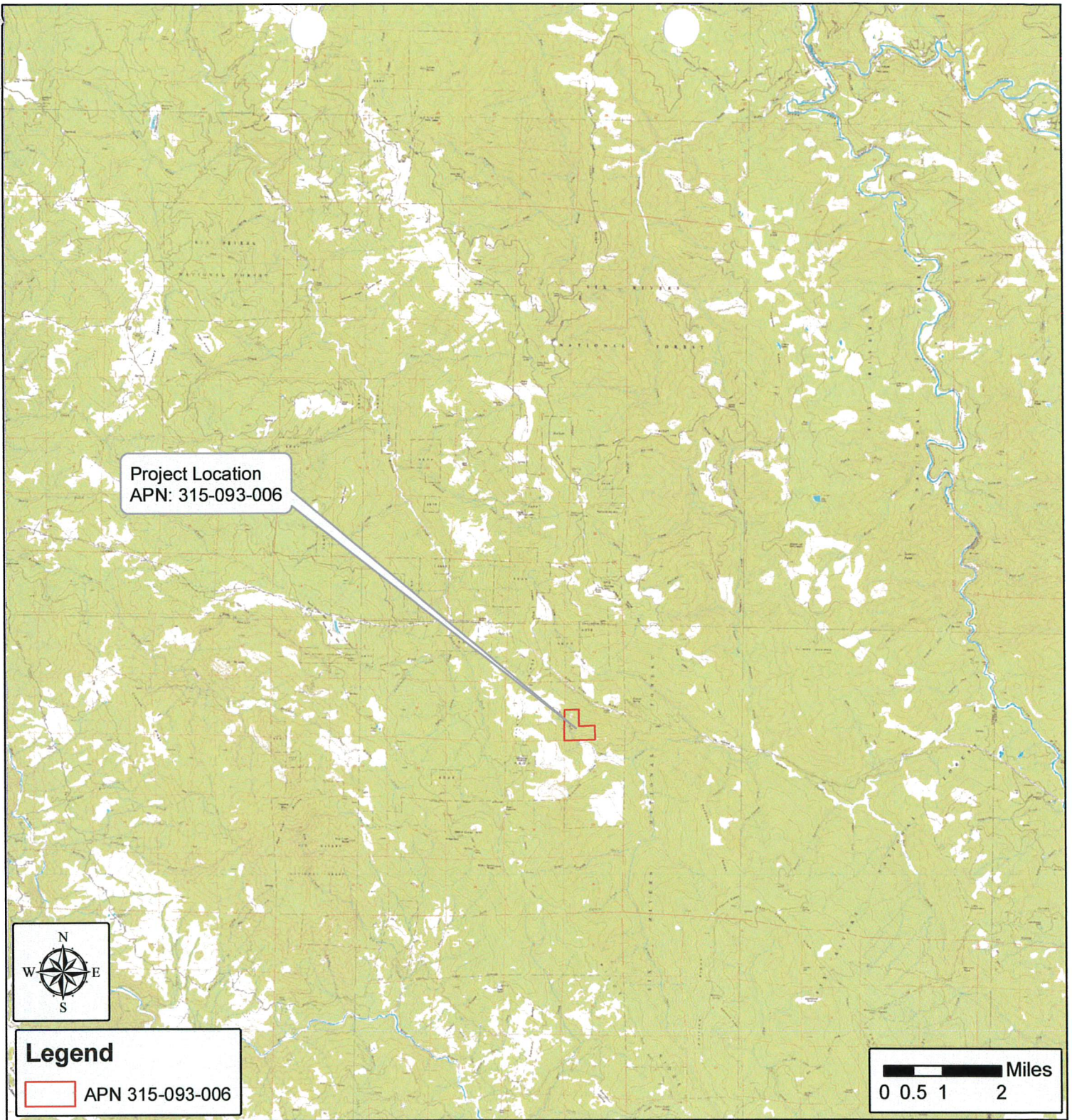
Grading and Erosion Control Plan

CNDDDB Query Map and List

CDFW Attachment C - Water Diversion Questionnaire

Attachment 1

Vicinity Map



**USGS SEAMLESS TOPOGRAPHIC
MAP FOR THE
COUNTY OF HUMBOLDT**

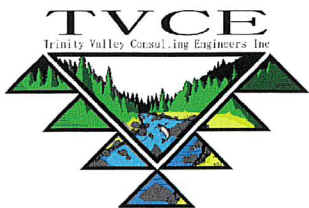
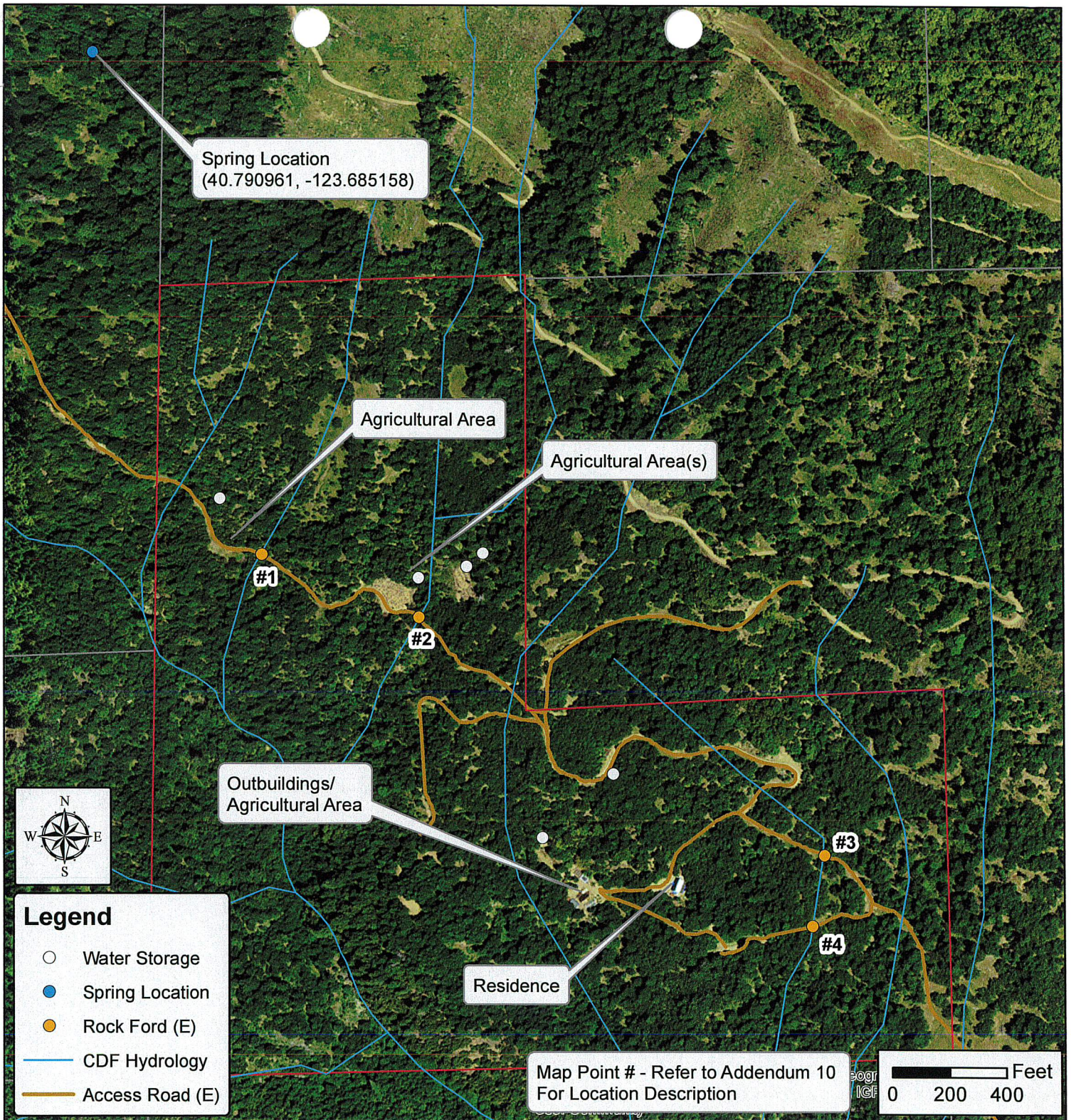
Parcel Information from Humboldt County GIS
Does not reflect exact location of property lines

**Project: CDFW 1600 LSA
Dean Crisp
USFS 4N06 RD
APN: 315-093-006
White Oak Creek, CA**

Vicinity Map

Attachment 2

Site Map



USDA 2014 NAIP IMAGERY
COUNTY OF HUMBOLDT

Project: CDFW 1600 LSA
Dean Crisp
USFS 4N06 RD
APN: 315-093-006
White Oak Creek, CA

Parcel Information from Humboldt County GIS
Does not reflect exact location of property lines

Site Map

Attachment 3

Grading and Erosion Control Plan

ROAD STANDARDS

- ROADWAY SURFACE PROVIDES UNOBSTRUCTED ACCESS TO CONVENTIONAL CATEGORY 2 STANDARD FOR SURFACING TYPE ENGINES USING COUNTY ROAD CATEGORY 2 STANDARD (WHEN REQUIRED) ARE 10' WIDE AND 80' LONG AND TAPERED 25 FEET FROM BOTH ENDS.
- ROADWAY STRUCTURES (BRIDGES AND CULVERTS) BUILT TO CARRY MINIMUM LOAD AS REQUIRED IN CALIFORNIA VEHICLE CODE SEC. 38550 (40,000 LBS) AND COMPLY WITH THE MINIMUM VERTICAL CLEARANCES AND DESIGNED IN CONFORMANCE WITH THE COUNTY ROADWAY DESIGN MANUAL.
- SIGNING REFLECTS CAPABILITY OF EACH BRIDGE FOR WEIGHT CLEARANCE, SINGLE LANE ACCESS, OR OTHER LIMITATIONS, UNLESS SIGNING WANTED BY THE DIRECTOR OF PUBLIC WORKS PER SECTION 112.9 OF H.C.C.
- ONE LANE BRIDGE HAS UNOBSTRUCTED VISIBILITY FROM BOTH ENDS AND INTREVERSIBLE TURNOUTS AT EACH END.
- "Z-LATCH" BRIDGE HAS ROADWAY SURFACE OF NOT LESS THAN 8" AND MEETS VISIBILITY REQUIREMENTS OF ONE LANE BRIDGE.

DOMESTIC EMERGENCY WATER SUPPLY SYSTEM

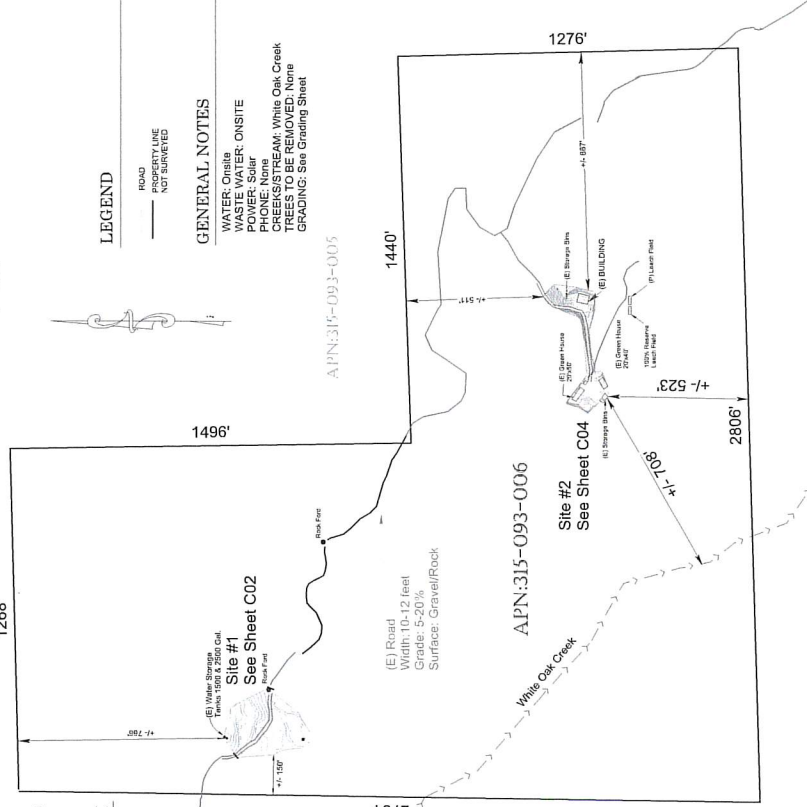
- THE MINIMUM EMERGENCY WATER STORAGE VOLUME OF 2,500 GALLONS PER ENGINE IS REQUIRED.
- EMERGENCY SUPPLY TANKS SHALL BE SEPARATE FROM THE MAIN WATER TREATMENT PLANT AND THE REFILLING SUPPLY SOURCE (WELL, ETC.) SHOULD BE INCREASED SO THAT 2,500 GALLONS ARE AVAILABLE FOR THE USE AT ANY TIME.
- EMERGENCY SUPPLY TANKS SHALL BE PROVIDED WITH WATER TREATMENT OR PUMP AND WATER TREATMENT OR PUMP TO THE DWELLING USING ROAD MEASUREMENTS, PARALLEL TO THE WATER MAIN AND TO THE TANK WITH 100 FEET AND IF THIS IS PHYSICALLY IMPOSSIBLE, WITHIN 1,000 FEET.
- ALL HYDRANT AND WATER SUCTON LOCATIONS MUST PROVIDE A ROAD STANDARD TURNOUT OR TURN AROUND.
- ALL WATER SUPPLY, HYDRANT AND SUCTON LOCATIONS IF LOCATED OFF A DRIVE WAY, ANOTHER BLADE DOT MUST BE LOCATED ON THE DRIVE WAY.
- ALL EXPOSED PLUMBING SHOULD HAVE FREEZE PROTECTION AND CRASH BARRIERS AS NEEDED TO PREVENT DAMAGE.
- ALL PIPES SUPPLYING WATER TO HYDRANTS MUST BE AT LEAST 2 INCHES ABOVE GRAOUND, AT LEAST 8 FEET FROM FLAMMABLE VEGETATION, AT LEAST FEET FROM THE HYDRANT, AND MUST HAVE A 2 1/2 INCH, MAKE INFORMATIONAL, NON-CONDUCTIVE COPING.
- ALL HYDRANTS MUST HAVE A 2 1/2 INCH, MAKE INFORMATIONAL, NON-CONDUCTIVE COPING.
- ALL HYDRANT CONNECTIONS MUST BE MADE OF BRASS OR OTHER CORROSION RESISTANT MATERIAL.
- A WET HYDRANT USED WITH A GRAVITY SUPPLY OR PRESSURE SYSTEM MUST HAVE A 1.2 INCH VALVE.
- A DRY HYDRANT USED FOR WATER SUCTON DOES NOT NEED A VALVE AT THE END OF THE SUCTON PIPE, THE STRAINER MUST BE AT LEAST 1 FEET LONG.
- WHERE A PUMP IS RELEIED UPON TO DELIVER WATER TO THE HYDRANT (NOT GRAVITY AND NOT SUCTON), IT MUST DELIVER 200 GALLONS PER MINUTE TO THE HYDRANT. IF THE SOURCE OF WATER IS A STRAINER IT MUST HAVE A PUMP ENGINE BACKUP OR GENERATOR, ALSO, A STRAINER IS REQUIRED.
- THE SOURCE OF WATER TO GET THE WATER TO THE HYDRANT, THE SOURCE TANK MUST AT LEAST BE HIGHER THAN THE HYDRANT, SO THAT ALL 2,500 GALLONS CAN GET TO THE HYDRANT. THE TANK SHOULD BE PROTECTED FROM COLLISION AND VANDALISM.
- WHERE SUCTON IS NEEDED TO GET THE WATER UP OUT OF A SOURCE BY TANK SWIMMING POOL, ETC. THE END OF THE HOSE OR DRY HYDRANT PIPE MUST HAVE AT LEAST 2 FEET OF WATER ABOVE BY ALL TIMES TO PREVENT SCAVING.
- A SUCTON LINE THAT ALLOWS AIR TO BE SUCTON IN, SO THAT AIR IS KEPT OFF THE BOTTOM OF STORAGE TANKS, SHOULD BE USED. THIS MEANS BE CAN INQUIRES NO MORE THAN 15 FEET OF SUCTON HOSE AND HO SHOPS BELOW THE PARKING AREA, OR HAVE A LOW SIDE WALL, BECAUSE IT COULD THEN BACK TO THE BOTTOM, AND COULD REQUIRE A VERY SHARP BEND.

PLOT PLAN
 PORION OF SECTION 14 TOWNSHIP 4 NORTH, RANGE 4 EAST, H.M.
 APN: 315-093-006-000
 FOR
 DEAN CRISP
 4270 LENTELL ROAD
 EUREKA, CA 95503
 EMAIL: deancrisp1@gmail.com

GENERAL NOTES

- WATER: Onsite
- WASTE WATER: Onsite
- POWER: Solar
- PROCESSED WATER: Solar
- CREEKS/STREAM: White Oak Creek
- TREES TO BE REMOVED: None
- GRAVING: See Grading Sheet

LEGEND
 ROAD
 PROPERTY LINE
 NOT SURVEYED



TVCE
 4270 LENTELL ROAD
 EUREKA, CA 95503
 PHONE: 439-2429
 FAX: 439-2429



NO.	DATE	DESCRIPTION	BY	CHK

4270 LENTELL ROAD
PLOT PLAN
 DEAN CRISP
 APN: 315-093-006
 J.M.
 10/20/15
 October 15, 2015
 AS SHOWN
 SHEET NO. 867
 C 01

DRIVEWAY AND GATES

- DRIVEWAYS MEET MINIMUM ROAD STANDARDS DESCRIBED ABOVE.
- DRIVEWAYS LESS THAN 1300' LONG ARE 10' WIDE AND HAVE 15' MINIMUM CLEARANCE AND ARE BUILT TO COUNTY ROAD CATEGORY 2 STANDARD.
- DRIVEWAYS LONGER THAN 1300' ARE 10'-12" WIDE AND HAVE 15' MINIMUM CLEARANCE AND ARE BUILT TO COUNTY ROAD CATEGORY 2 STANDARD.
- DRIVEWAYS EXCEEDING 150' IN LENGTH BUT LESS THAN 800' HAVE A TURNOUT NEAR THE IMPDOT.
- DRIVEWAYS LONGER THAN 800' HAVE TURNOUTS AT INVISIBLE LOCATIONS AT APPROXIMATELY 400' INTERVALS.
- DRIVEWAYS HAVE MAXIMUM GRADE MEETING STANDARD FOR COUNTY ROAD CATEGORY 1-7% (7% MAXIMUM), 1% MIN. (TOLERABLE), GRADE IN EXCESS OF MAXIMUM DESIGN GRADE SHALL BE CORRECTED TO MEET COUNTY ROADWAY DESIGN MANUAL REQUIREMENTS.
- DRIVEWAYS HAVE MINIMUM DRIVE RADIUS MEETING STANDARD FOR COUNTY ROAD CATEGORY 1 (200' NORMAL, 50' TOLERABLE), CURVE RADII LESS THAN 100' MUST DEMONSTRATE CONFORMANCE WITH COUNTY ROADWAY DESIGN MANUAL REQUIREMENTS.
- ALLOW A VEHICLE TO STOP WITHOUT BLOCKING THE GATE AND DRIVEWAY.
- GATE DRIVEWAYS ACCESS ONLY TO ROADWAY ARE LOCATED AT LEAST 50' FROM THE ROADWAY EXCEPT AS PROVIDED BELOW.
- GATES LESS THAN 10' FROM THE ROADWAY ARE PERMITTED WHEN TURNOUTS ARE CONSTRUCTED NEXT TO THE TRAVEL LANES WITH BATE MARKING AND VISIBILITY THEIR APPROACHING FROM EITHER DIRECTION OF TRAVEL.
- ONE-WAY ROADS ACCESSING GATES HAVE TURNAROUND WITH 40' FACIUS MINIMUM.

TVCE PROJECT LOCATION

APN: 315-093-006-000

APN: 315-093-006-000

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APN: 315-093-006-000

APN: 315-093-006-000



REV	DATE	DESCRIPTION	BY	CHK
1	10/21/15	PRELIMINARY DESIGN		

DEAN CRISP
 APN: 315-093-006
 WHITE OAK CREEK
 HUMBOLDT COUNTY, CALIFORNIA
SITE #1 - GRADING PLAN

DATE OF ISSUE	OCTOBER 2015
SCALE AS SHOWN	AS SHOWN
PROJECT NO.	667
DRAWING NO.	002



- GRADING NOTES:**
1. BUT NOT LIMITED TO, SITE CLEARING, GRUBBING, STRIPPIES, AND GRADING WILL BE CONDUCTED DURING DRY WEATHER CONDITIONS. (TYPICALLY APRIL 15 TO OCTOBER 15)
 2. STRIP AND REMOVE ALL TOPSOIL AND VEGETATION FROM THE PROJECT AREA, AND FOR A MINIMUM OF THREE FEET TO THE OUTSIDE OF THE WORKING AREA.
 3. ANY UNDISBURBED FILL SOILS, FINE-FORMED RESIDUAL SOILS, AND ANY OTHER DEBRIS LOCATIONS RECEIVING ANY POTENTIAL FILLS. GROUND SURFACE SHALL BE REMOVED AT THE LOCATIONS RECEIVING ANY POTENTIAL FILLS.
 4. THE SITE SHOULD BE GRADED TO PROVIDE ADEQUATE DRAINAGE SUCH THAT NO WATER IS ALLOWED TO POND ANYWHERE ON THE SITE OR MIGRATE BENEATH FUTURE DEVELOPMENTS.
 5. ALL FILL MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED EIGHT INCHES (8") IN DEPTH AND SHALL BE COMPACTED MECHANICALLY.
 6. ALL FILL MATERIAL SHALL BE FREE OF ORGANICS, ROCKS LARGER THAN 3", WOODY DEBRIS, ROOTS, AND INORGANIC MATERIAL.
 7. ALL FILL MATERIAL SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE CONTENT AS DETERMINED BY TESTING AND APPROVED BY THE ENGINEER.
 8. NON-STRUCTURAL FILL SHALL BE COMPACTED MECHANICALLY TO A FIRM UNWEIGHING SURFACE AS APPROVED BY THE ENGINEER.
 9. COMPACTION TESTING WILL BE DETERMINED AT THE ENGINEER'S DISCRETION.
 10. IT IS RECOMMENDED THAT ANY MATERIAL PROPOSED FOR STRUCTURAL FILL MATERIAL TO SUPPORT ANY FOUNDATIONS OR STRUCTURAL BUILDING ELEMENT AND ASSOCIATED UTILITIES BE COMPACTED AS OUTLINED IN THE SOILS REPORT.
 11. ALL FILL SLOPES SHALL BE TO A SMOOTH AND EVEN GRADE. SHALL BE SURFACE TRACKWALKED, AND FINAL GRADES NOT TO EXCEED 1:3:1 (7%).
 12. THE ENGINEER SHALL BE RESPONSIBLE TO MONITOR THE QUANTITY OF FILL MATERIALS AND ASSURE COMPLIANCE WITH THE RECOMMENDED COMPACTION STANDARDS.
 13. ENGINEER TO PROVIDE CERTIFICATION OF EVENING FILL BOTH STRUCTURAL AND NON-STRUCTURAL FILL THAT IT MEETS THE REQUIRED COMPACTION STANDARDS.

- CLEARING, GRUBBING, & DEMOLITION NOTES:**
1. TREES SCHEDULED TO BE REMOVED COMPLETELY INCLUDING STUMPS, ROOTS, AND BRANCHES SHALL BE REMOVED FROM THE SITE AND DEPOSITED IN LOCATIONS DESIGNATED BY THE OWNER.
 2. VEGETATION AND WOODY DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
 3. ALL GENERATED AND ACCUMULATED CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
 4. ALL AREAS WITH GENERATED VOIDS FROM DEMOLITION ACTIVITIES SHALL BE BACKFILLED WITH NATIVE SUBSTRANCE TO A MINIMUM VERTICAL GRADE IN 1" MAXIMUM VERTICAL LIFTS SUFFICIENTLY COMPACTED TO ELIMINATE SUBSIDENCE.
 5. DUST CONTROL SHALL BE MAINTAINED DURING DEMOLITION PRACTICES.
 6. TEMPORARY ROADWAYS AND PRACTICES SHOULD BE IMPLEMENTED TO REMOVE CONSTRUCTION MATTER FROM THE PROJECT AREA AS SOON AS PRACTICAL AND AS SOON AS POSSIBLE.
 7. PROTECTIVE MEASURES SHALL BE IMPLEMENTED FOR THE SITE AS SOON AS PRACTICAL AND AS SOON AS POSSIBLE PRIOR TO EXECUTION OF MAJOR DEMOLITION OPERATIONS.

EARTHWORK QUANTITIES:

CUT (CY):	700
FILL (CY):	700

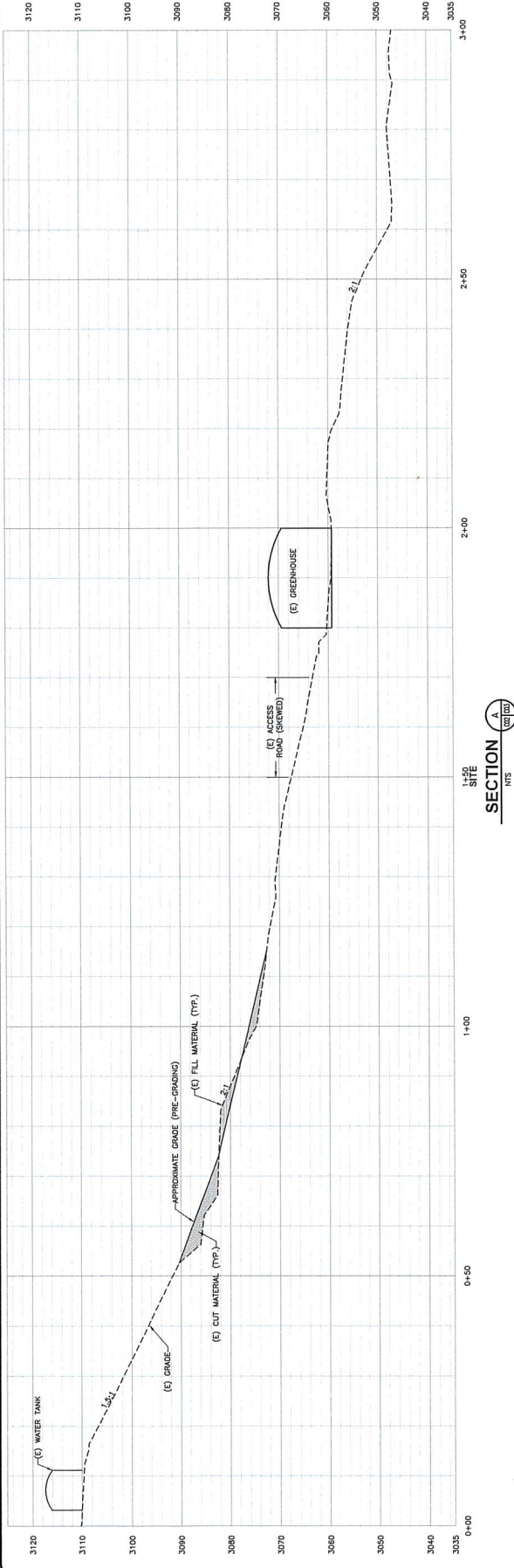
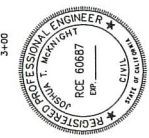
NOTE: CUT AND FILL QUANTITIES ON SITE TO BE PERMANENT



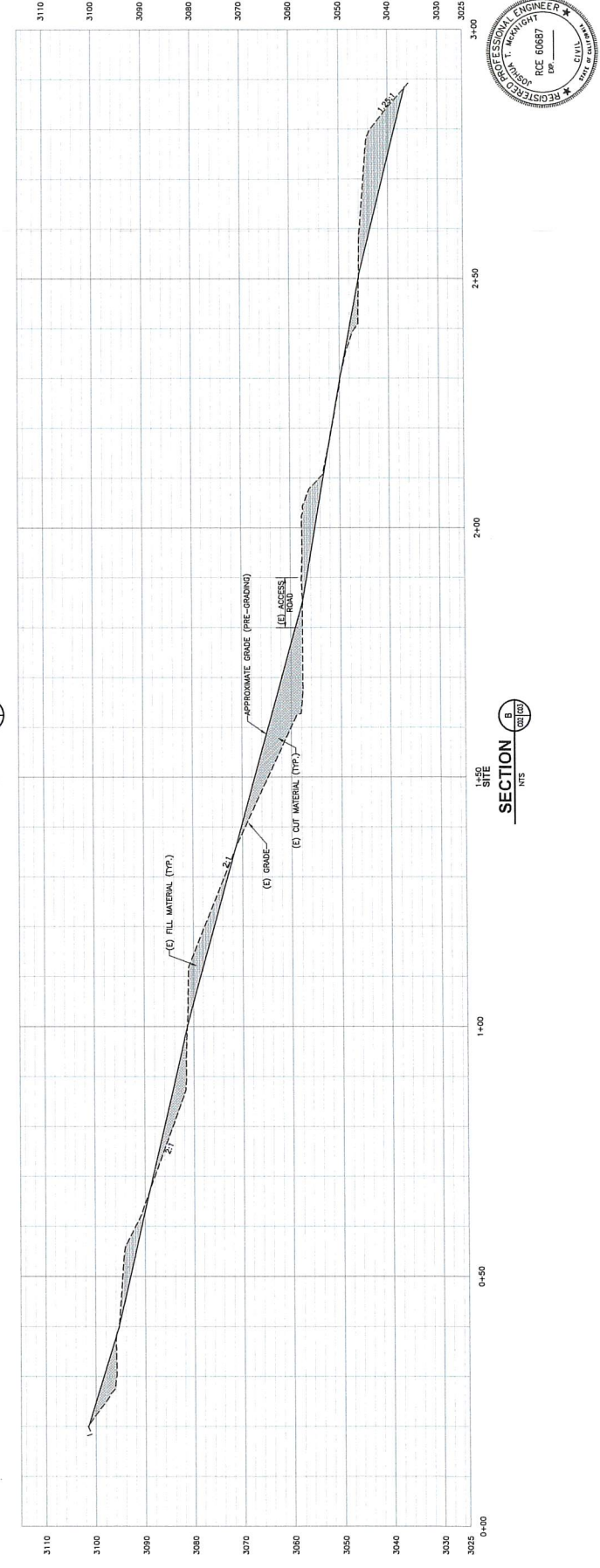
REV	DATE	DESCRIPTION	BY	CHK
1	10/21/15	PRELIMINARY DESIGN		
2				
3				
4				
5				

DEAN CRISP
 APR 315-093-006
 WHITE OAK CREEK
 SITE #1 SECTION AND DETAILS
 HUMBOLDT COU
 CALIFORNIA

DATE OF ISSUE	OCTOBER 2015
SCALE	AS SHOWN
PROJECT NO.	867
DRAWING NO.	003



SECTION A
 NTS



SECTION B
 NTS

EARTHWORK QUANTITIES:
 CUT (CY): 250
 FILL (CY): 250
 NOTE: NET AND FILL QUANTITIES ONSITE TO BE PERMANENT



REV	DATE	DESCRIPTION	BY	CHK
1	10/17/15	PRELIMINARY DESIGN		

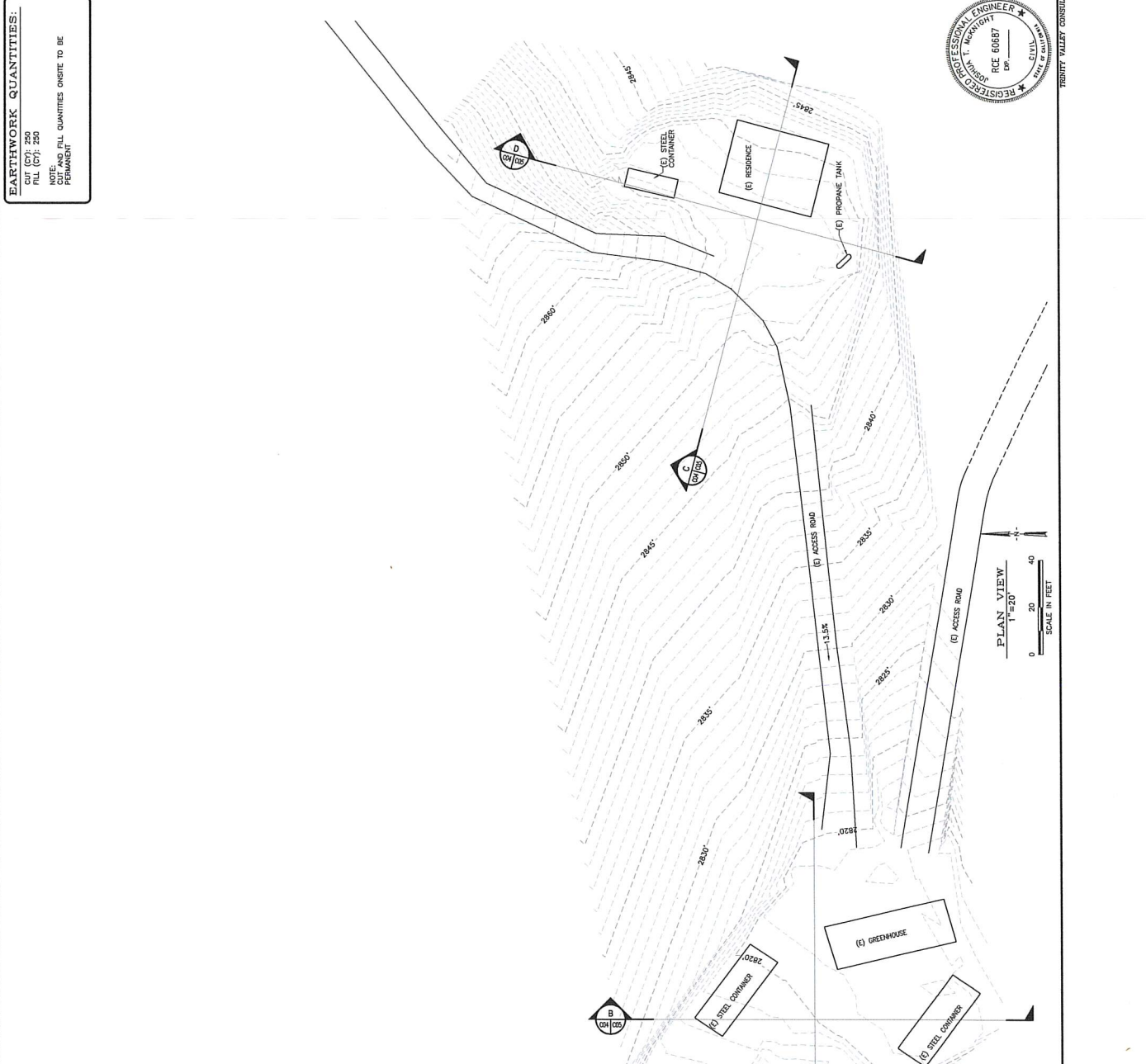
SITE #2 - GRADING PLAN
 DEAN CRISP
 APR. 21-09-1-006
 WHITE OAK CREEK
 HUMBOLDT CO. CALIFORNIA

DATE OF ISSUE:	OCTOBER 2015
SCALE:	AS SHOWN
PROJECT NO.:	887
DRAWN BY:	
CHECKED BY:	
DESIGNED BY:	
IN CHARGE:	
APPROVED BY:	

C04
 REGISTERED PROFESSIONAL ENGINEER
 ASSOCIATION OF CALIFORNIA
 RICE 60687
 EXP. 12/31/16
 TRINITY VALLEY CONSULTING ENGINEERS, INC.

- GRADING NOTES:**
1. ALL WORK SHALL BE LIMITED TO SITE CLEARING, GRUBBING, STRIPPING, AND GRADING TO BE CONDUCTED DURING DRY WEATHER CONDITIONS. (TYPICALLY APRIL 15 TO OCTOBER 15)
 2. STRIP AND REMOVE ALL TOPSOIL AND VEGETATION FROM THE PROJECT AREA, AND FOR A MINIMUM OF THREE FEET TO THE OUTSIDE OF THE WORKING AREA.
 3. ANY UNDOCUMENTED FILL SOILS, FINE-GRAINED RESIDUAL SOILS, AND ANY OTHER DEBRIS LOCATIONS REQUIRING ANY POTENTIAL FILLS.
 4. THE SITE SHOULD BE GRADDED TO PROVIDE ADEQUATE DRAINAGE SUCH THAT NO WATER IS ALLOWED TO POND ANYWHERE ON THE SITE OR MIGRATE BENEATH FUTURE DEVELOPMENTS.
 5. ALL FILL MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED EIGHT INCHES (8") IN DEPTH AND SHALL BE COMPACTED MECHANICALLY.
 6. ALL FILL MATERIAL SHALL BE FREE OF ORGANICS, ROCKS LARGER THAN 3", WOODY DEBRIS, ROOTS, AND INORGANIC MATERIAL.
 7. ALL FILL MATERIAL SHALL BE PLACED IN LIFTS OF 8" OR NEAR OPTIMUM MOISTURE CONTENT AS DETERMINED BY TESTING AND APPROVED BY THE ENGINEER.
 8. NON-STRUCTURAL FILL SHALL BE COMPACTED MECHANICALLY TO A FIRM UNWEIGHING SURFACE AS APPROVED BY THE ENGINEER.
 9. COMPACTION TESTING WILL BE DETERMINED AT THE ENGINEER'S DISCRETION.
 10. IT IS RECOMMENDED THAT ANY MATERIAL PROPOSED FOR STRUCTURAL FILL MATERIAL TO SUPPORT ANY FOUNDATIONS OR STRUCTURAL BUILDING ELEMENT AND ASSOCIATED UTILITIES BE COMPACTED AS OUTLINED IN THE SOILS REPORT.
 11. ALL FILL SLOPES SHALL BE TO A SMOOTH AND EVEN GRADE. SHALL BE SURFACE TRACKWALKED, AND FINAL GRADIES NOT TO EXCEED 1:5.1 (5%).
 12. ALL FILL MATERIALS AND ASSOCIATED CONSTRUCTION SHALL BE PERFORMED TO MONITOR THE SUBSIDIARY OF FILL MATERIALS AND ASSURE COMPLIANCE WITH THE RECOMMENDED COMPACTION STANDARDS.
 13. ENGINEER TO PROVIDE CERTIFICATION OF EXISTING FILL BOTH STRUCTURAL AND NON-STRUCTURAL FILL THAT IT MEETS THE REQUIRED COMPACTION STANDARDS.

- CLEARING, GRUBBING, & DEMOLITION NOTES:**
1. TREES SCHEDULED TO BE REMOVED COMPLETELY INCLUDING STUMPS, ROOTS, AND BRANCHES SHALL BE REMOVED FROM THE SITE AND DEPOSITED IN LOCATIONS DESIGNATED BY THE OWNER.
 2. VEGETATION AND WOODY DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
 3. ALL GENERATED AND ACCUMULATED CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
 4. ALL AREAS WITH GENERATED VOIDS FROM DEMOLITION ACTIVITIES SHALL BE BACKFILLED WITH NATIVE SUBSTRANCE TO A MINIMUM VERTICAL LIFTS SUFFICIENTLY COMPACTED TO ELIMINATE SUBSIDIARY.
 5. DUST CONTROL SHALL BE MAINTAINED DURING DEMOLITION PRACTICES.
 6. TRACING OF MATERIAL FROM THE SITE INTO CREEKS OR STREAMS WILL NOT BE TOLERATED. TEMPORARY CONSTRUCTION SITE ENTRANCES SHOULD BE BUILT AT POINTS OF INTERSECTION TO EXISTING ROADWAYS AND PRACTICES SHOULD BE IMPLEMENTED TO REMOVE CONSTRUCTION MATERIAL FROM THE SITE. ALL MATERIALS SHALL BE MAINTAINED FOR THE SITE AS SOON AS PRACTICAL AND PERSONAL PROTECTIVE MEASURES SHALL BE IMPLEMENTED FOR THE SITE AS SOON AS PRACTICAL AND SHALL BE IN PLACE PRIOR TO EXECUTION OF MAJOR DEMOLITION OPERATIONS.



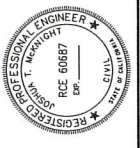


67 WALNUT WAY
 25 ROCK CREEK
 25 ROCK CREEK, CA 95373
 PHONE (530) 624-0000
 FAX (530) 629-2011

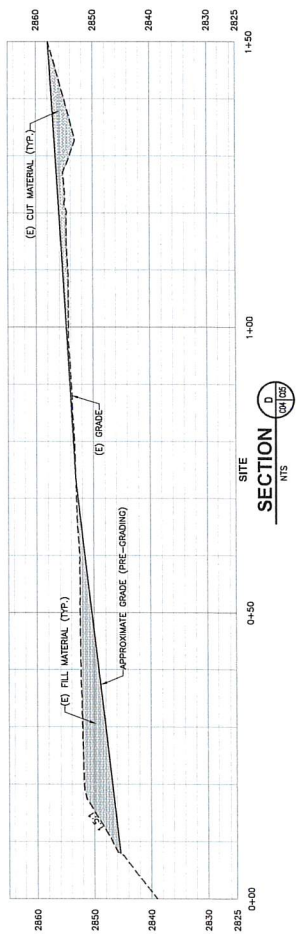
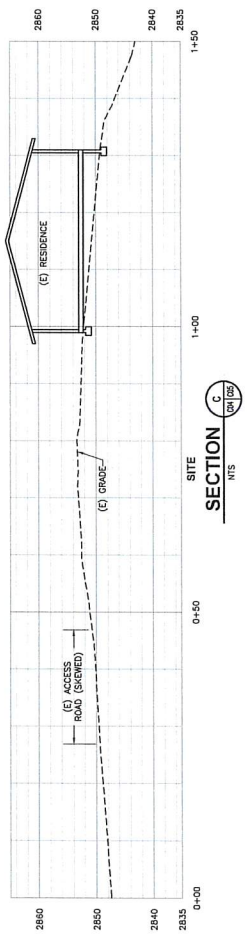
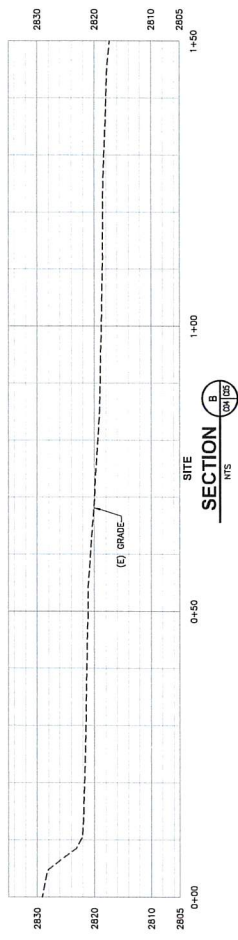
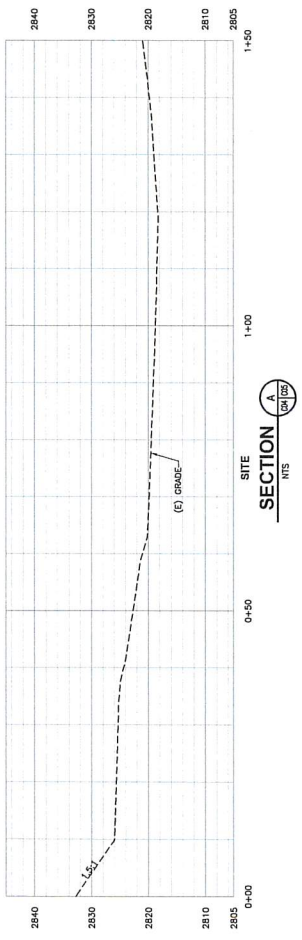
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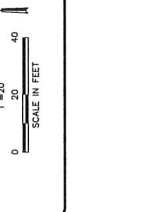
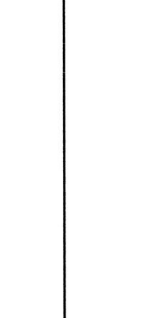
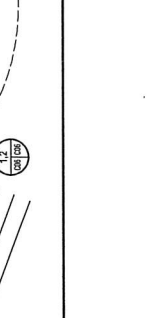
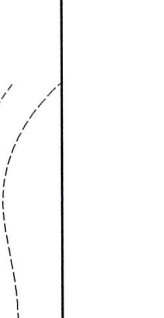
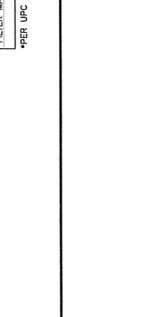
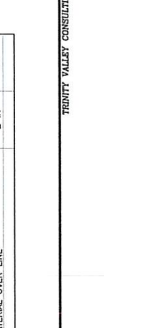
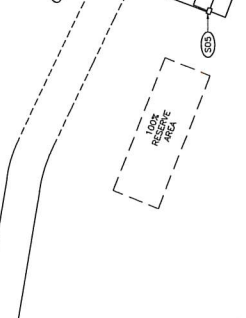
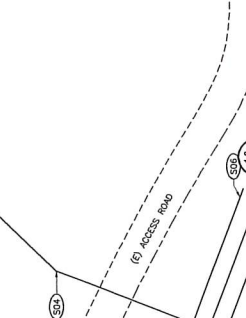
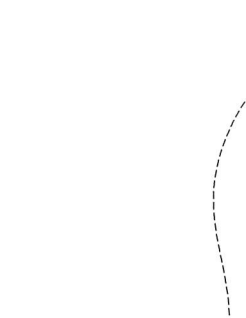
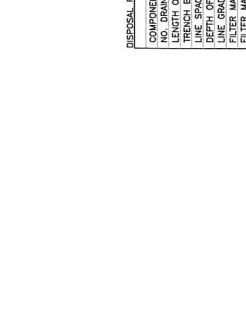
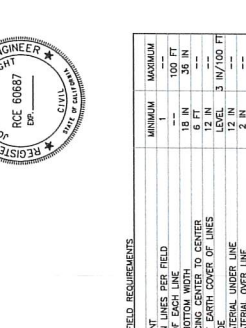
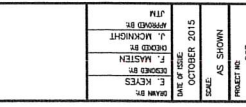
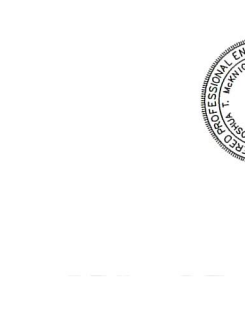
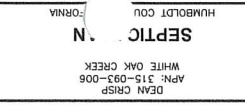
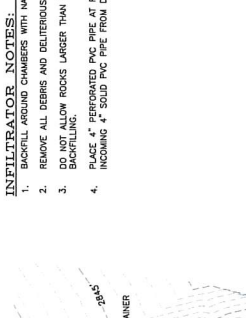
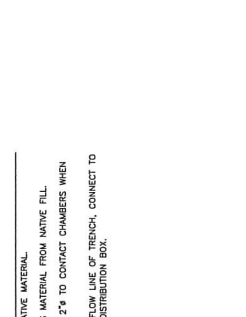
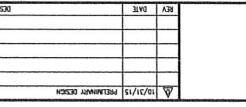
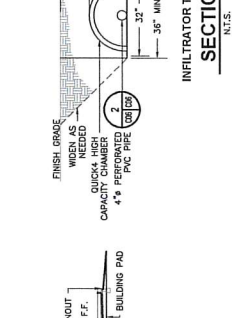
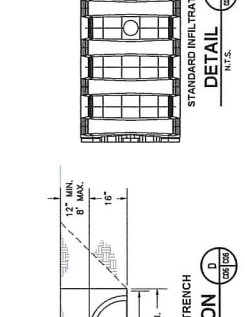
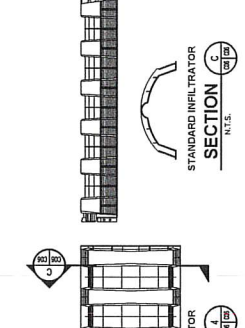
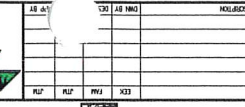
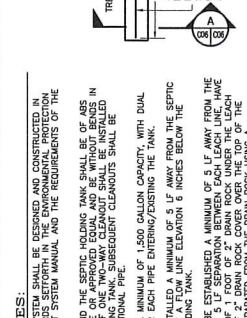
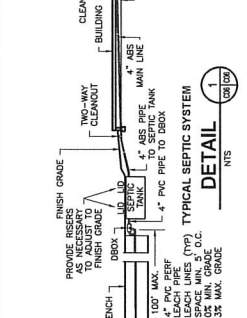
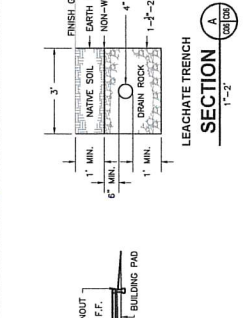
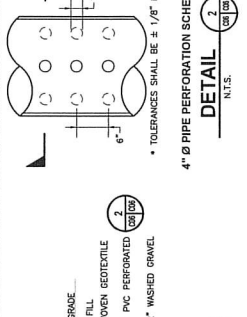
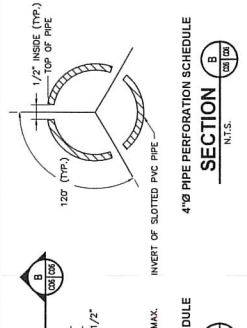
DEAN CRISP
 APN: 315-083-006
 WHITE OAK CREEK
 HUMBOLDT COU
 SITE #2 SECTION AND DETAILS

DATE OF ISSUE	OCTOBER 2015
ISSUED BY	J.S. SWORN
PROJECT NO.	807
DRAWING NO.	C05



TRINITY VALLEY CONSULTING ENGINEERS, INC.





SANITARY SEWER NOTES:

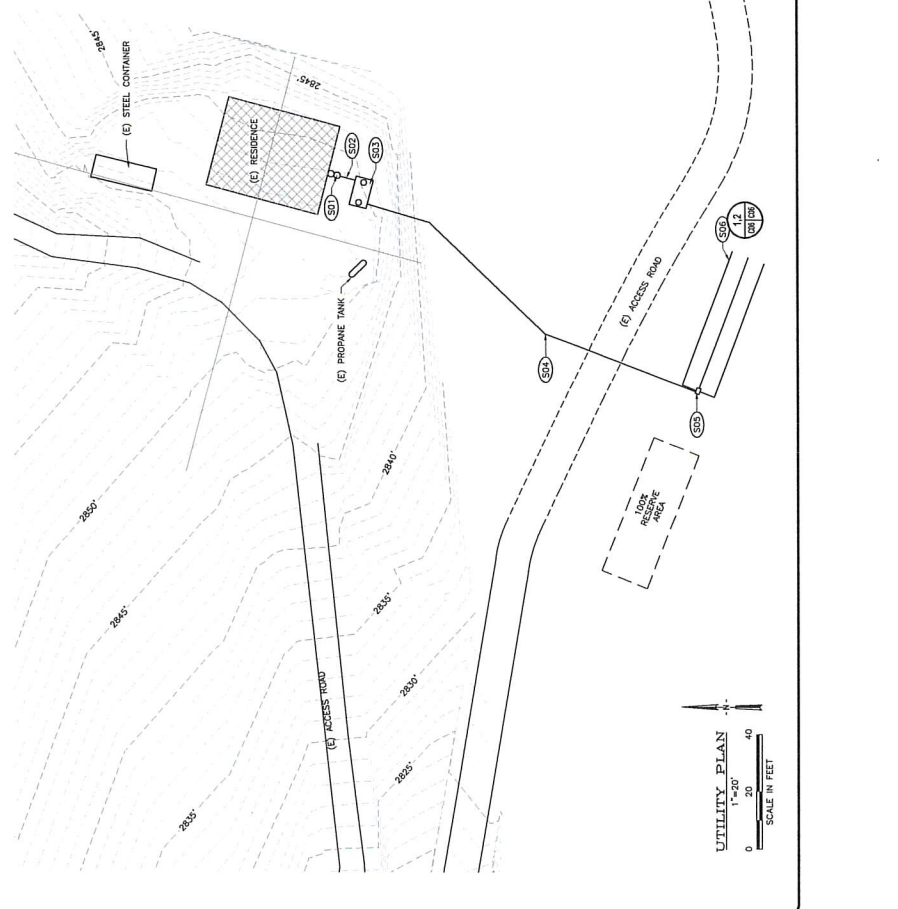
- THE ONSITE WASTEWATER TREATMENT SYSTEM SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES (CDWR) AGENCY ONSITE WASTEWATER TREATMENT SYSTEM MANUAL AND THE REQUIREMENTS OF THE HUBB.
- CONNECTION BETWEEN THE BUILDING AND THE SEPTIC HOLDING TANK SHALL BE OF ABS IN EXCESS OF 25 DEGREES. A MINIMUM OF ONE TWO-WAY CLEANOUT SHALL BE INSTALLED IN THE LEACH LINE. CLEANOUTS SHALL BE INSTALLED FOR EVERY 100' OF ADDITIONAL PIPE.
- THE SEPTIC HOLDING TANK SHALL BE A MINIMUM OF 1,500 GALLON CAPACITY, WITH DUAL CHAMBERS, AND SANITARY BATTLES FOR EACH PIPE ENTERING/EXISTING THE TANK.
- ALL DISTRIBUTION BOXES SHALL BE INSTALLED AT A MINIMUM OF 5 LF AWAY FROM THE SEPTIC HOLDING TANK AND BE ESTABLISHED AT A LOW LINE ELEVATION 6 INCHES BELOW THE FINISH GRADE. DISTRIBUTION BOXES SHALL BE CONSTRUCTED A MINIMUM OF 6 LF AWAY FROM THE SEPTIC HOLDING TANK. LEACH LINES (TYP) SHALL BE INSTALLED AT A MINIMUM OF 5 LF SEPARATION BETWEEN EACH LEACH LINE. LEACH LINES SHALL BE INSTALLED AT A MINIMUM OF 1 FOOT OF 2\"/>

SANITARY SEWER CONSTRUCTION NOTE:

- INSTALL 4\"/>
- INSTALL 4\"/>
- INSTALL 1,500 GALLON DUAL CHAMBER SEPTIC TANK WITH RISERS TO FINISH GRADE. SH-001 F/7 FT MIN.
- INSTALL 4\"/>
- INSTALL D5 DISTRIBUTION BOX.
- INSTALL LEACHFIELD CONSISTING OF 4\"/>

INFILTRATOR NOTES:

- BACKFILL AROUND CHAMBERS WITH NATIVE MATERIAL.
- REMOVE ALL DEBRIS AND DELICIOUS MATERIAL FROM NATIVE FILL.
- DO NOT ALLOW ROCKS LARGER THAN 2\"/>



TYCE
 83 WALNUT WAY
 SUITE 100
 FOLSOM, CA 95630
 PHONE (916) 938-0000
 FAX (916) 938-0011

DEAN CRISP
 APN: 315-093-006
 WHITE OAK CREEK
 HUMBOLDT CO. CA
 SECTION N



DISPOSAL FIELD REQUIREMENTS

COMPONENT	MINIMUM	MAXIMUM
NO. DRAIN LINES PER FIELD	1	---
LENGTH OF EACH LINE	100 FT	300 FT
LINE SPACING CENTER TO CENTER	6 FT	18 FT
DEPTH OF EARTH COVER OF LINES	12 IN	3 IN TO 00 FT
MINIMUM COVER OVER LINES	12 IN	---
FILTER MATERIAL OVER LINE	2 IN	---

PER UPC

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STRAW MULCH NOTES:

- STRAW SHALL BE DERIVED FROM WHEAT, RICE, OR BARLEY, WHERE REQUIRED BY THE PLANS, SPECIFICATIONS, PERMITS, OR ENVIRONMENTAL DOCUMENTS. NATIVE GRASS STRAW SHALL BE USED.
- A TACKLER IS THE PREFERRED METHOD FOR ANCHORING STRAW MULCH TO THE SOIL ON SLOPES.
- CRIMPING, PUNCH ROLLER-TYPE ROLLERS, OR TRACK WALKING MAY ALSO BE USED TO INCORPORATE STRAW MULCH INTO THE SOIL ON SLOPES. TRACK WALKING SHALL ONLY BE USED WHERE OTHER METHODS ARE IMPRACTICAL.
- AVOID PLACING STRAW ONTO ROADS, SIDEWALKS, DRAINAGE CHANNELS, SOUND WALLS, EXISTING VEGETATION, ETC.
- STRAW MULCH WITH TACKLER SHALL NOT BE APPLIED DURING OR IMMEDIATELY BEFORE RAINFALL.
- APPLY STRAW AT A MINIMUM RATE OF 4,000 LB/ACRE, EITHER BY MACHINE OR BY HAND DISTRIBUTION.
- ROUGHEN EMBANKMENTS AND FILL RILLS BEFORE PLACING THE STRAW MULCH BY ROLLING WITH A CRIMPING OR PUNCHING TYPE ROLLER OR BY TRACK WALKING.
- EVENLY DISTRIBUTE STRAW MULCH ON THE SOIL SURFACE.
- ON SMALL AREAS, A SPADE OR SHOVEL CAN BE USED TO PUNCH IN STRAW MULCH.
- ON SLOPES WITH SOILS THAT ARE STABLE ENOUGH AND OF SUFFICIENT GRADIENT TO SAFELY SUPPORT CONSTRUCTION EQUIPMENT WITHOUT CONTRIBUTING TO COMPACTION AND INSTABILITY PROBLEMS, STRAW CAN BE "PUNCHED" INTO THE GROUND USING A KNIFE BLADE ROLLER OR A STRAIGHT BLADED COLLATER, KNOWN COMMERCIALLY AS A "CRIMPER".
- ON SMALL AREAS AND/OR STEEP SLOPES, STRAW CAN ALSO BE HELD IN PLACE USING PLASTIC NETTING OR JUTE. THE NETTING SHALL BE HELD IN PLACE USING 11 GAUGE WIRE STAPLES, GEOTEXTILE PINS OR WOODEN STAPLES AS DESCRIBED IN EC-7, GEOTEXTILES AND MATS.
- TACKLER ACTS TO GUE THE STRAW FIBERS TOGETHER AND TO THE SOIL SURFACE. THE TACKLER SHALL BE SELECTED BASED ON CONDITIONS. THE RATES ARE TYPICALLY 180LB/ACRE.

CONTRACTOR NOTE:

- CONTRACTOR MAY SUBSTITUTE TEMPORARY SILT FENCES FOR STRAW FIBER ROLLS AND VICE VERSA.

BMP MAINTENANCE NOTES:

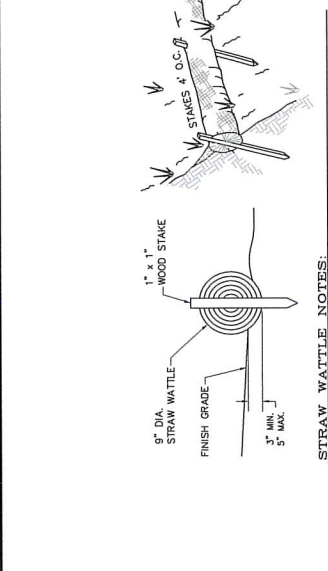
- ALL OF THE IMPLEMENTED BMPs SHALL BE INSPECTED AND CORRECTED AS NEEDED PRIOR TO, DURING, AND DIRECTLY FOLLOWING ANY STORM EVENT, OR WHENEVER PRACTICAL.

EROSION AND SEDIMENT CONTROL NOTES:

- EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPs) SHALL BE INSTALLED AND MAINTAINED DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30). SEDIMENT CONTROL BMPs SHALL BE INSTALLED AND MAINTAINED ALL YEAR.
- ALL DRAINAGE INLETS IMMEDIATELY DOWNSTREAM OF THE WORK AREA AND WITHIN THE WORK AREA SHALL BE PROTECTED WITH SEDIMENT CONTROL AND INLET FILTER DEBS. FLOW ROUGHENERS SHALL BE CONSTRUCTED PER STANDARD DRAWING TP-1, WHERE CONSTRUCTION TRAFFIC ENTRIES OR LEAVES PAVED AREAS. THE STABILIZED ACCESS SHALL BE MAINTAINED ON A YEAR-ROUND BASIS UNTIL THE COMPLETION OF CONSTRUCTION.
- ALL AREAS DISTURBED DURING CONSTRUCTION, BY GRADING, TRENCHING, OR OTHER ACTIVITIES, SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. ALL AREAS THAT ARE NOT TO BE PLACED BY SEPTEMBER 15, HYDROSEED SHALL BE PLACED DURING THE WET SEASON. ALL AREAS THAT ARE NOT TO BE PLACED BY SEPTEMBER 15, HYDROSEED SHALL BE PLACED DURING THE WET SEASON. ALL AREAS THAT ARE NOT TO BE PLACED BY SEPTEMBER 15, HYDROSEED SHALL BE PLACED DURING THE WET SEASON.
- SENSITIVE AREAS AND AREAS WHERE EXISTING VEGETATION IS BEING PRESERVED SHALL BE PROTECTED WITH CONSTRUCTION FENCING. SEDIMENT CONTROL BMPs SHALL BE INSTALLED WHERE ACTIVE CONSTRUCTION AREAS DRAIN INTO SENSITIVE OR PRESERVED VEGETATION AREAS.
- SEDIMENT CONTROL BMPs SHALL BE PLACED ALONG THE PROJECT PERIMETER WHERE DRAINAGE LEAVES THE PROJECT. SEDIMENT CONTROL BMPs SHALL BE PLACED TO PREVENT EROSION AND SEDIMENTATION FROM OCCURRING UNTIL THE CONSTRUCTION IS COMPLETE. ON THE DRAINAGE PATTERNS HAS BEEN CHANGED AND NO LONGER LEAVES THE SITE.
- ALL SLOPES GREATER THAN 1:1 SHALL RECEIVE SEED AND STRAW OR OTHER EROSION CONTROL.
- ALL FENCING AND EROSION CONTROL METHODS SHALL BE MAINTAINED THROUGHOUT ALL ON-SITE CONSTRUCTION ACTIVITIES.
- ALL BMPs SHALL BE INSTALLED AND FUNCTIONING PRIOR TO ANY ANTICIPATED STORM EVENT.

BMP INSTALLATION SCHEDULE

PHASE OF CONSTRUCTION	EROSION AND SEDIMENT CONTROL MEASURES										
	(WET SEASON) HYDROSEEDING/VEGETATION	(WET AND DRY SEASON) STRAW/STRAW MULCH	(WET AND DRY SEASON) TACKLER	(WET AND DRY SEASON) CRIMPING	(WET AND DRY SEASON) TRACK WALKING	(WET AND DRY SEASON) SEDIMENT CONTROL	(WET AND DRY SEASON) EROSION CONTROL	(WET AND DRY SEASON) FENCING	(WET AND DRY SEASON) SILT FENCE	(WET AND DRY SEASON) ROCK FORD	(WET AND DRY SEASON) ROCKED FORD
PRE-GRADING											
CUT AND FILL											
LANDSCAPE											
STRAW MULCH											
OFFSITE IMPROVEMENTS											
POST-GRADING											

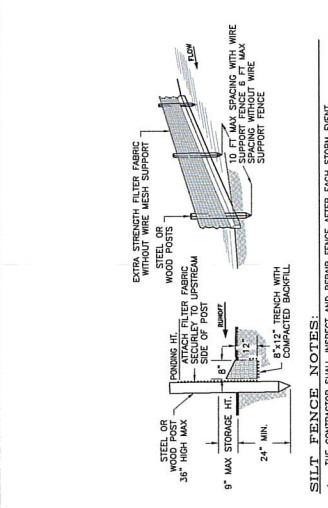


STRAW WATTLE NOTES:

- WOOD STAKES SHALL BE 18 IN. X 18 IN. WOOD STAKES AT FOUR FEET ON CENTER. THE ENDS OF ADJACENT STRAW WATTLES SHALL BE ADJUTED TO EACH OTHER SLIGHTLY OR OVERLAPPED BY SIX INCHES.
- STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3'-5' DEEP. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND THE ROLL.

STRAW WATTLE INSTALLATION DETAIL

NTS



SILT FENCE NOTES:

- THE CONTRACTOR SHALL INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT.
- CONTRACTOR SHALL REMOVE SEDIMENT AS NECESSARY. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND IN AN AREA THAT CAN BE PERMANENTLY STABILIZED.
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

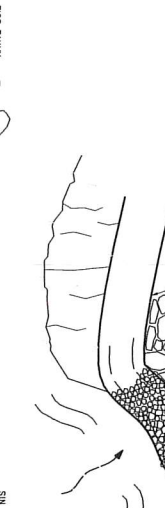
SILT FENCE DETAILS

NTS



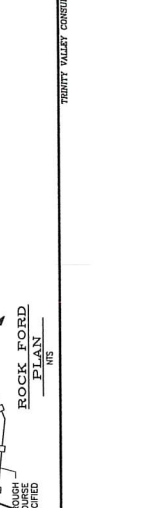
ROCKED FORD NOTES:

- ROCKED FORDS ARE DRAINAGE STRUCTURES DESIGNED TO CARRY WATER ACROSS ROADS.
- THE ROAD SHALL DIP INTO AND OUT OF THE ROCKED FORD TO MINIMIZE EROSION POTENTIAL.
- THE CROSSING SHALL BE CONSTRUCTED WITH CLEAN, WHITE ROCK THAT IS LARGE ENOUGH TO REMAIN IN PLACE DURING 100-YEAR PEAK FLOWS. ROCK SIZE SHALL VARY RELATIVE TO THE SIZE OF THE WATERCOURSE. MINOR CROSSINGS SHALL USE A MINIMUM 3\"/>



ROCKED FORD SECTION

NTS



ROCK FORD PLAN

NTS



REV	DATE	DESCRIPTION
A	10/13/15	PRELIMINARY DESIGN
B		
C		
D		
E		
F		
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Y		
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DEAN CRISP
 APR. 215-093-006
 WHITE OAK CREEK
 HUMBOLDT CO. CALIFORNIA

NO.	DATE	BY	DESCRIPTION
1	10/13/15	DEAN CRISP	PRELIMINARY DESIGN
2			
3			
4			
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7			
8			
9			
10			
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12			
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16			
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20			

DATE OF ISSUE	OCTOBER 2015
SCALE	AS SHOWN
PROJECT NO.	867
DRAWING NO.	007
DESIGNED BY	F. MCKENHIGHT
CHECKED BY	F. MCKENHIGHT
IN CHARGE	F. MCKENHIGHT
APPROVED BY	F. MCKENHIGHT

TRINITY VALLEY CONSULTING ENGINEERS, INC.



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REV	DATE	DESCRIPTION
1	10/19/15	PRELIMINARY DESIGN
2		
3		
4		
5		
6		
7		
8		
9		
10		

SOIL REPORT RECOMMENDATIONS
 DEAN CRISP
 APR. 315-0834-008
 WHITE OAK CREEK
 HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE	OCTOBER 2015
ISSUED AS SHOWN	
PROJECT NO.	867
DRAWING NO.	008
REVISIONS	
1	REVISION
2	REVISION
3	REVISION
4	REVISION
5	REVISION
6	REVISION
7	REVISION
8	REVISION
9	REVISION
10	REVISION



FRANK WALKER CONSULTING ENGINEERS, INC.

Aggregate base material may be used for pavement subgrade placed beneath footings or flow slabs, or used as trench backfill. This material should meet the requirements in the California Standard Specifications for Class 2 Aggregate Base 1 1/2 inch maximum particle size.

The site should be graded to provide drainage such that no water is allowed to pond anywhere on the site, to migrate beneath the proposed developments, or to pond at the base of cuts.

Drainage and Landscaping

• Aggregate base material may be used for pavement subgrade placed beneath footings or flow slabs, or used as trench backfill. This material should meet the requirements in the California Standard Specifications for Class 2 Aggregate Base 1 1/2 inch maximum particle size.

The site should be graded to provide drainage such that no water is allowed to pond anywhere on the site, to migrate beneath the proposed developments, or to pond at the base of cuts.

Foundational Design Recommendations

No specific foundation plan has been provided to TYCE. All foundations should be constructed of reinforced concrete. The following foundation recommendations assume that the soil is uniform throughout the site. If the soil is not uniform, the foundation (or foundations) may be supported by a mat slab or a stiffened slab on grade with continuous concrete perimeter footings in combination with isolated interior spread footings. The foundation design should be in accordance with the applicable provisions of the California Building Code, and designed in accordance with the recommendations and specifications, and designed to meet the standards of the 2014 CBC.

Limitations

• A foundation system for this site should be rigid to limit potential structural movement of foundations. Foundations should be rigidly connected to the existing structure located in areas of undisturbed fill soils, however there is a possibility that unobserved, undisturbed fill could exist on the site.

• Foundations should be designed to resist lateral forces from wind and seismic loads. Suitable engineered fill placed and compacted as recommended. Alternatively, footings may be built on compacted low strength material (CLSM, e.g. concrete aggregate) backfilled with recycled concrete aggregate. The bearing capacity of this material should be verified by a geotechnical engineer.

• Foundations should be encased in a minimum of 12 inches of suitable dense, well-graded, compacted fill. The fill should be placed and compacted in 6 inch lifts to a minimum thickness of 18 inches per 100 square feet.

• Minimum width of footings should be 18 inches for the columns, and the minimum thickness of footings should be 18 inches per 100 square feet.

Fill and Slope Design

• The diffused concrete flow sub-base or mat slab should have a minimum thickness as specified by the engineer and should be treated and substituted at least 8 inches of compacted select fill containing 10 inches of 3/4 inch nominal aggregate.

Strip and remove all material and vegetation from the project area, and for a minimum of three feet to the outside of the working area.

• Any undisturbed fill soils, fine-grained residual soils, and any other debris should be removed from the site. The ground surface shall be reworked at the locations reflecting any potential fill.

Grillages

Grillages shall meet compliance with the County of Humboldt grading ordinance and ASTM regulations.

Compaction Standards

Fills shall be compacted in 8 inch loose lifts with clean water materials at optimum moisture content as determined by testing and approved by the engineer. Non-structural fills shall be compacted to a firm unyielding surface as approved by engineer.

It is recommended that any materials proposed for structural fill material support any foundations or structural building elements, and associated utilities be compacted as specified below.

Fill Placement Location	Compaction Recommendation	Minimum compacted thickness (feet)
Underneath footings	95% Proctor	12"
Underneath slabs	95% Proctor	12"
Underneath walls	95% Proctor	12"
Underneath other structures	95% Proctor	12"
Underneath parking areas	95% Proctor	12"
Underneath other paved areas	95% Proctor	12"
Underneath other areas	95% Proctor	12"

Fill

• Fills shall be constructed as consolidated and compacted engineered fills and fillshells graded to no steeper than 1.5 H:1 V.

• Fills should be free of 11 organics, 21 rocks larger than 3 inches in diameter, and 51 other deleterious materials.

• Fill material should be placed in loose lifts no more than 8 inches thick, at uniform moisture content at or near optimum, and compacted mechanically.

• Sufficient testing and inspection should be performed to monitor the suitability of fill materials and assure compliance with the recommended compaction standards.

Structural Considerations and Flood Considerations:

The Humboldt Bay Laguna Study shows within 7.5 miles of the project site to the west. The site does not lie within an Adjacent Drain Zone.

The following coefficients shall be used for seismic design (see Attachment 4 for USGS Seismic Hazard Data):

Site Class	D
Seismic Response Acceleration (short, S _{0.1})	0.08g
Seismic Response Acceleration (medium, S _{0.3})	0.10g
Seismic Response Acceleration (long, S _{0.5})	0.10g
Seismic Response Acceleration (very long, S _{0.75})	0.08g
Seismic Response Acceleration (extreme, S _{1.0})	0.08g
Seismic Response Acceleration (extreme, S _{1.5})	0.08g
Seismic Response Acceleration (extreme, S _{2.0})	0.08g
Seismic Response Acceleration (extreme, S _{2.5})	0.08g
Seismic Response Acceleration (extreme, S _{3.0})	0.08g
Seismic Response Acceleration (extreme, S _{3.5})	0.08g
Seismic Response Acceleration (extreme, S _{4.0})	0.08g
Seismic Response Acceleration (extreme, S _{4.5})	0.08g
Seismic Response Acceleration (extreme, S _{5.0})	0.08g
Seismic Response Acceleration (extreme, S _{5.5})	0.08g
Seismic Response Acceleration (extreme, S _{6.0})	0.08g
Seismic Response Acceleration (extreme, S _{6.5})	0.08g
Seismic Response Acceleration (extreme, S _{7.0})	0.08g
Seismic Response Acceleration (extreme, S _{7.5})	0.08g
Seismic Response Acceleration (extreme, S _{8.0})	0.08g
Seismic Response Acceleration (extreme, S _{8.5})	0.08g
Seismic Response Acceleration (extreme, S _{9.0})	0.08g
Seismic Response Acceleration (extreme, S _{9.5})	0.08g
Seismic Response Acceleration (extreme, S _{10.0})	0.08g

The project site is located in an area that is highly available by the County of Humboldt GPS mapping.

Based on the location and geographical setting, the project site lies outside any flood prone area.

Design the site such that it remains dry and drainage to the adjacent laguna, ensuring that the potential for liquefaction, surface rupture, and strength loss, or failure at this site is L2L, and no special mitigation hazards are necessary.

Conclusion:

No surface, subsurface or seismic conditions were encountered at the project parcel that would dictate immediate action from an engineering standpoint.

Recommendations:

The following recommendations are general recommendations for any future grading activities to be performed:

Site Preparation

- All work shall include but not be limited to, site clearing, grubbing, and stripping should be conducted during dry weather conditions, generally mid-April through mid-October.

This report, recommendations, and conclusions are solely intended for the site described above. The engineer does not warrant that the information provided in this report is correct or complete. This report should not be used as a justification for any other project or site, and only be used for information purposes if referenced and received for other purposes. TYCE recognizes that the use of a dynamically active soil may increase the future risks and cost of the foundation on proposed development that does not increase the risks to the resources present in the project area or subject the foundation to increased loading. The project engineer should be consulted for any additional information during construction, the project engineer should consult this office to review the new conditions and evaluate their bearing on the viability of any recommendations provided herein.

The opinions presented herein have been developed using a degree of care and skill consistent with the practice of a professional engineer. The engineer does not warrant that the information provided in this report is correct or complete. No other warranties, expressed or implied, are made by the professional advice included in this report.

The analyses and recommendations contained in this report are based on the data obtained from subsurface exploration. The methods used indicate subsurface conditions that may not be representative of the entire site. The engineer does not warrant that the information provided in this report is correct or complete. No other warranties, expressed or implied, are made by the professional advice included in this report.

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Liability associated with any other party's interpretation or the subsurface data or reuse this report for other projects or at other locations without written consent.

Please contact TYCE at (530) 625-3000 if any questions arise.

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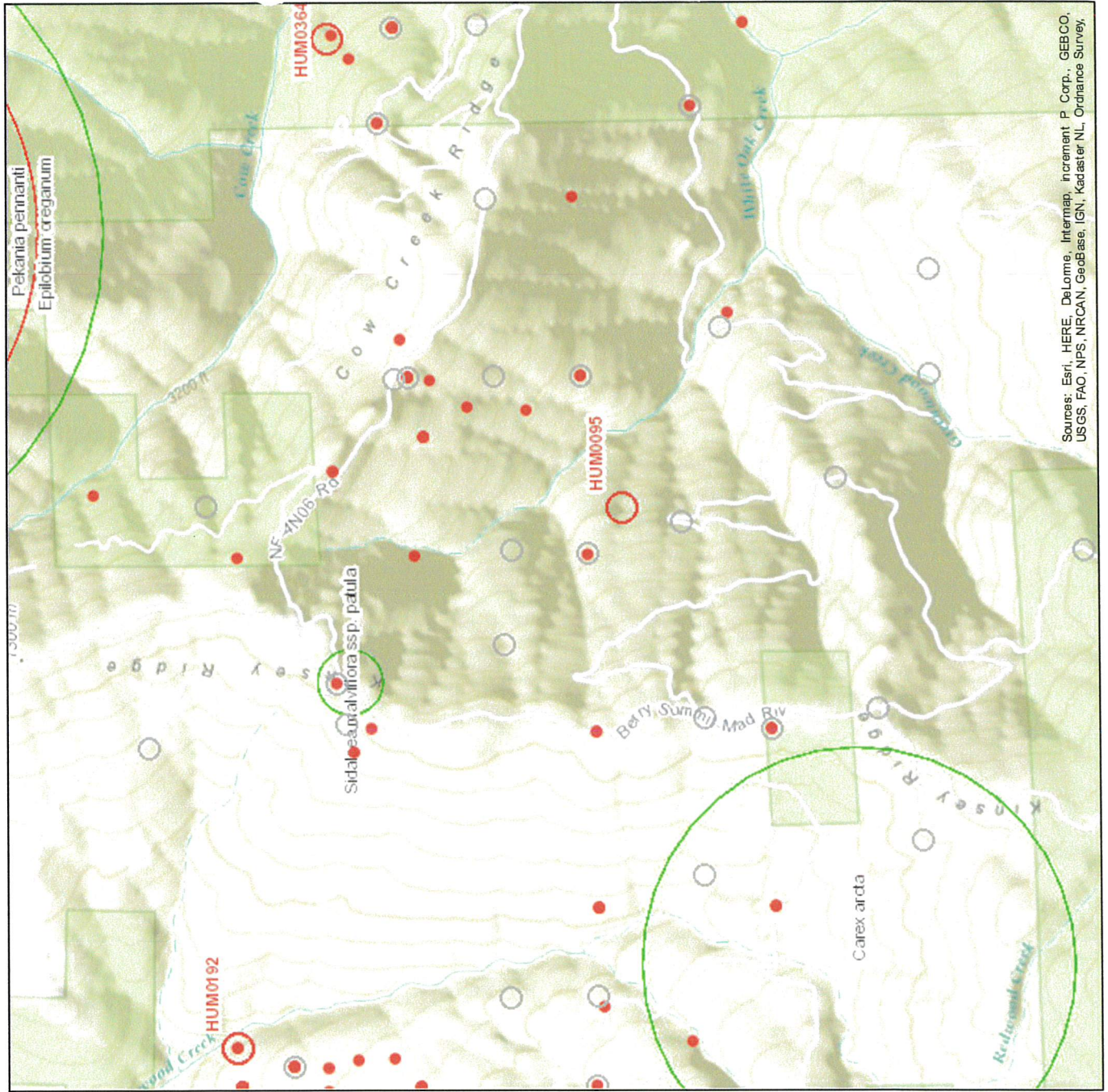


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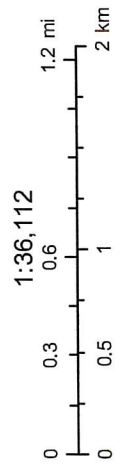
Attachment 4

CNDDDB Query Map and List

Dean Crisp CDFW 1600 LSA



- Positive Observation
- Negative Observation
- Activity Center
- Not Valid Activity Center
- ◇ Abandoned
- Plant (80m)
- ▨ Plant (specific)
- ▩ Plant (non-specific)
- Plant (circular)
- Animal (80m)
- ▨ Animal (specific)
- ▩ Animal (non-specific)
- Animal (circular)
- Terrestrial Comm. (80m)
- ▨ Terrestrial Comm. (specific)
- ▩ Terrestrial Comm. (non-specific)
- Terrestrial Comm. (circular)
- Aquatic Comm. (80m)
- ▨ Aquatic Comm. (specific)
- ▩ Aquatic Comm. (non-specific)
- Aquatic Comm. (circular)
- Multiple (80m)
- ▨ Multiple (specific)
- ▩ Multiple (non-specific)
- Multiple (circular)
- Sensitive EOs (Commercial only)



November 13, 2015

Sources: Esri, HERE, DeLorme, Intermap, increment P. Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

CNDDB 9-Quad Species List 287 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	-	4012365	Sims Mountain	Mapped and Unprocessed	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Ascaphus truei	Pacific tailed frog	AAABA01010	None	None	SSC	-	4012366	Board Camp Mtn.	Mapped	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Ascaphus truei	Pacific tailed frog	AAABA01010	None	None	SSC	-	4012367	Mad River Buttes	Unprocessed	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Ascaphus truei	Pacific tailed frog	AAABA01010	None	None	SSC	-	4012375	Hennessy Peak	Mapped and Unprocessed	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Ascaphus truei	Pacific tailed frog	AAABA01010	None	None	SSC	-	4012376	Grouse Mtn.	Mapped and Unprocessed	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Ascaphus truei	Pacific tailed frog	AAABA01010	None	None	SSC	-	4012377	Maple Creek	Mapped and Unprocessed	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Plethodon elongatus	Del Norte salamander	AAAAD12050	None	None	SSC	-	4012376	Grouse Mtn.	Mapped and Unprocessed	Animals - Amphibians - Plethodontidae - Plethodon elongatus
Animals - Amphibians	Plethodon elongatus	Del Norte salamander	AAAAD12050	None	None	SSC	-	4012375	Hennessy Peak	Mapped and Unprocessed	Animals - Amphibians - Plethodontidae - Plethodon elongatus
Animals - Amphibians	Plethodon elongatus	Del Norte salamander	AAAAD12050	None	None	SSC	-	4012365	Sims Mountain	Unprocessed	Animals - Amphibians - Plethodontidae - Plethodon elongatus
Animals - Amphibians	Rana aurora	northern red-legged frog	AAABH01021	None	None	SSC	-	4012367	Mad River Buttes	Unprocessed	Animals - Amphibians - Ranidae - Rana aurora
Animals - Amphibians	Rana aurora	northern red-legged frog	AAABH01021	None	None	SSC	-	4012377	Maple Creek	Unprocessed	Animals - Amphibians - Ranidae - Rana aurora
Animals - Amphibians	Rana boylei	foothill yellow-legged frog	AAABH01050	None	None	SSC	-	4012377	Maple Creek	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana boylei
Animals - Amphibians	Rana boylei	foothill yellow-legged frog	AAABH01050	None	None	SSC	-	4012375	Hennessy Peak	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana boylei
Animals - Amphibians	Rana boylei	foothill yellow-legged frog	AAABH01050	None	None	SSC	-	4012366	Board Camp Mtn.	Unprocessed	Animals - Amphibians - Ranidae - Rana boylei
Animals - Amphibians	Rana boylei	foothill yellow-legged frog	AAABH01050	None	None	SSC	-	4012365	Sims Mountain	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana boylei
Animals - Amphibians	Rana boylei	foothill yellow-legged frog	AAABH01050	None	None	SSC	-	4012355	Blake Mountain	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana boylei

Animals - Amphibians	Rhyacotriton variegatus	southern torrent salamander	AAAAJ01020	None	None	SSC	-	4012366	Board Camp Mtn.	Mapped and Unprocessed	Animals - Amphibians - Rhyacotritonidae - Rhyacotriton variegatus
Animals - Amphibians	Rhyacotriton variegatus	southern torrent salamander	AAAAJ01020	None	None	SSC	-	4012367	Mad River Buttes	Mapped and Unprocessed	Animals - Amphibians - Rhyacotritonidae - Rhyacotriton variegatus
Animals - Amphibians	Rhyacotriton variegatus	southern torrent salamander	AAAAJ01020	None	None	SSC	-	4012375	Hennessy Peak	Mapped and Unprocessed	Animals - Amphibians - Rhyacotritonidae - Rhyacotriton variegatus
Animals - Amphibians	Rhyacotriton variegatus	southern torrent salamander	AAAAJ01020	None	None	SSC	-	4012376	Grouse Mtn.	Mapped and Unprocessed	Animals - Amphibians - Rhyacotritonidae - Rhyacotriton variegatus
Animals - Amphibians	Rhyacotriton variegatus	southern torrent salamander	AAAAJ01020	None	None	SSC	-	4012377	Maple Creek	Mapped and Unprocessed	Animals - Amphibians - Rhyacotritonidae - Rhyacotriton variegatus
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	4012377	Maple Creek	Mapped	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter gentilis	northern goshawk	ABNKC12060	None	None	SSC	-	4012375	Hennessy Peak	Mapped	Animals - Birds - Accipitridae - Accipiter gentilis
Animals - Birds	Accipiter gentilis	northern goshawk	ABNKC12060	None	None	SSC	-	4012355	Blake Mountain	Mapped and Unprocessed	Animals - Birds - Accipitridae - Accipiter gentilis
Animals - Birds	Accipiter gentilis	northern goshawk	ABNKC12060	None	None	SSC	-	4012365	Sims Mountain	Mapped and Unprocessed	Animals - Birds - Accipitridae - Accipiter gentilis
Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP WL	-	4012367	Mad River Buttes	Mapped	Animals - Birds - Accipitridae - Aquila chrysaetos
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	4012365	Sims Mountain	Mapped and Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	4012375	Hennessy Peak	Mapped and Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	4012375	Hennessy Peak	Mapped	Animals - Birds - Accipitridae - Pandion haliaetus
Animals - Birds	Charadrius montanus	mountain plover	ABNNB03100	None	None	SSC	-	4012366	Board Camp Mtn.	Unprocessed	Animals - Birds - Charadriidae - Charadrius montanus
Animals - Birds	Spizella passerina	chipping sparrow	ABPBX94020	None	None	-	-	4012376	Grouse Mtn.	Unprocessed	Animals - Birds - Emberizidae - Spizella passerina
Animals - Birds	Falco peregrinus anatum	American peregrine falcon	ABNKD06071	Delisted	Delisted	FP	-	4012375	Hennessy Peak	Unprocessed	Animals - Birds - Falconidae - Falco peregrinus anatum
Animals - Birds	Falco peregrinus anatum	American peregrine falcon	ABNKD06071	Delisted	Delisted	FP	-	4012365	Sims Mountain	Unprocessed	Animals - Birds - Falconidae - Falco peregrinus anatum
Animals - Birds	Icteria virens	yellow-breasted chat	ABPBX24010	None	None	SSC	-	4012376	Grouse Mtn.	Unprocessed	Animals - Birds - Parulidae - Icteria virens
Animals - Birds	Setophaga occidentalis	hermit warbler	ABPBX03090	None	None	-	-	4012376	Grouse Mtn.	Unprocessed	Animals - Birds - Parulidae - Setophaga occidentalis
Animals - Birds	Picoides albolarvatus	White-headed woodpecker	ABNYF07070	None	None	-	-	4012376	Grouse Mtn.	Unprocessed	Animals - Birds - Picidae - Picoides albolarvatus

Animals - Birds	Picoides albolarvatus	White-headed woodpecker	ABNYF07070	None	None	-	-	4012377	Maple Creek	Unprocessed	Animals - Birds - Picidae - Picoides albolarvatus
Animals - Birds	Sphyrapicus ruber	red-breasted sapsucker	ABNYF05020	None	None	-	-	4012376	Grouse Mtn.	Unprocessed	Animals - Birds - Picidae - Sphyrapicus ruber
Animals - Birds	Otus flammeolus	flamulated owl	ABNSB01020	None	None	-	-	4012355	Blake Mountain	Unprocessed	Animals - Birds - Strigidae - Otus flammeolus
Animals - Birds	Otus flammeolus	flamulated owl	ABNSB01020	None	None	-	-	4012366	Board Camp Mtn.	Unprocessed	Animals - Birds - Strigidae - Otus flammeolus
Animals - Birds	Strix occidentalis caurina	northern spotted owl	ABNSB12011	Threatened	Candidate Threatened	SSC	-	4012366	Board Camp Mtn.	Unprocessed	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Strix occidentalis caurina	northern spotted owl	ABNSB12011	Threatened	Candidate Threatened	SSC	-	4012367	Mad River Buttes	Unprocessed	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Strix occidentalis caurina	northern spotted owl	ABNSB12011	Threatened	Candidate Threatened	SSC	-	4012355	Blake Mountain	Unprocessed	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Strix occidentalis caurina	northern spotted owl	ABNSB12011	Threatened	Candidate Threatened	SSC	-	4012365	Sims Mountain	Unprocessed	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Strix occidentalis caurina	northern spotted owl	ABNSB12011	Threatened	Candidate Threatened	SSC	-	4012356	Showers Mtn.	Unprocessed	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Strix occidentalis caurina	northern spotted owl	ABNSB12011	Threatened	Candidate Threatened	SSC	-	4012376	Grouse Mtn.	Unprocessed	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Strix occidentalis caurina	northern spotted owl	ABNSB12011	Threatened	Candidate Threatened	SSC	-	4012375	Hennessy Peak	Unprocessed	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Contopus cooperi	olive-sided flycatcher	ABPAE32010	None	None	SSC	-	4012377	Maple Creek	Unprocessed	Animals - Birds - Tyrannidae - Contopus cooperi
Animals - Fish	Oncorhynchus clarkii clarkii	coast cutthroat trout	AFCHA0208A	None	None	SSC	-	4012377	Maple Creek	Mapped	Animals - Fish - Salmonidae - Oncorhynchus clarkii clarkii
Animals - Fish	Oncorhynchus kisutch	coho salmon - southern Oregon / northern California ESU	AFCHA02032	Threatened	Threatened	-	-	4012377	Maple Creek	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus kisutch
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - northern California DPS	AFCHA0209Q	Threatened	None	-	-	4012376	Grouse Mtn.	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	summer-run steelhead trout	AFCHA0213B	None	None	SSC	-	4012376	Grouse Mtn.	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - northern California DPS	AFCHA0209Q	Threatened	None	-	-	4012375	Hennessy Peak	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - northern California DPS	AFCHA0209Q	Threatened	None	-	-	4012377	Maple Creek	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	summer-run steelhead trout	AFCHA0213B	None	None	SSC	-	4012377	Maple Creek	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus

Animals - Fish	Oncorhynchus mykiss irideus	summer-run steelhead trout	AFCHA0213B	None	None	SSC	-	4012356	Showers Mtn.	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Klamath Mountains Province DPS	AFCHA0209D	None	None	SSC	-	4012365	Sims Mountain	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - northern California DPS	AFCHA0209Q	Threatened	None	-	-	4012365	Sims Mountain	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	summer-run steelhead trout	AFCHA0213B	None	None	SSC	-	4012355	Blake Mountain	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - northern California DPS	AFCHA0209Q	Threatened	None	-	-	4012357	Yager Junction	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	summer-run steelhead trout	AFCHA0213B	None	None	SSC	-	4012357	Yager Junction	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	summer-run steelhead trout	AFCHA0213B	None	None	SSC	-	4012367	Mad River Buttes	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	summer-run steelhead trout	AFCHA0213B	None	None	SSC	-	4012366	Board Camp Mtn.	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - upper Klamath and Trinity Rivers ESU.	AFCHA02056	None	None	SSC	-	4012365	Sims Mountain	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - upper Klamath and Trinity Rivers ESU.	AFCHA02056	None	None	SSC	-	4012375	Hennessy Peak	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - California coastal ESU	AFCHA0205S	Threatened	None	-	-	4012377	Maple Creek	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Insects	Bombus caliginosus	obscure bumble bee	IIHYM24380	None	None	-	-	4012377	Maple Creek	Mapped	Animals - Insects - Apidae - Bombus caliginosus
Animals - Mammals	Arborimus pomo	Sonoma tree vole	AMAFF23030	None	None	SSC	-	4012377	Maple Creek	Mapped	Animals - Mammals - Muridae - Arborimus pomo
Animals - Mammals	Arborimus pomo	Sonoma tree vole	AMAFF23030	None	None	SSC	-	4012357	Yager Junction	Mapped	Animals - Mammals - Muridae - Arborimus pomo
Animals - Mammals	Arborimus pomo	Sonoma tree vole	AMAFF23030	None	None	SSC	-	4012366	Board Camp Mtn.	Mapped	Animals - Mammals - Muridae - Arborimus pomo
Animals - Mammals	Arborimus pomo	Sonoma tree vole	AMAFF23030	None	None	SSC	-	4012367	Mad River Buttes	Mapped	Animals - Mammals - Muridae - Arborimus pomo
Animals - Mammals	Martes caurina	Pacific marten	AMAJF01030	None	None	-	-	4012366	Board Camp Mtn.	Unprocessed	Animals - Mammals - Mustelidae - Martes caurina
Animals - Mammals	Martes caurina	Pacific marten	AMAJF01030	None	None	-	-	4012376	Grouse Mtn.	Unprocessed	Animals - Mammals - Mustelidae - Martes caurina

Animals - Mammals	Martes caurina humboldtensis	Humboldt marten	AMAJF01012	None	None	SSC	-	4012367	Mad River Buttes	Mapped	Animals - Mammals - Mustelidae - Martes caurina humboldtensis
Animals - Mammals	Martes caurina humboldtensis	Humboldt marten	AMAJF01012	None	None	SSC	-	4012357	Yager Junction	Mapped	Animals - Mammals - Mustelidae - Martes caurina humboldtensis
Animals - Mammals	Pekania pennanti	fisher - West Coast DPS	AMAJF01021	Proposed Threatened	Candidate Threatened	SSC	-	4012357	Yager Junction	Mapped	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Pekania pennanti	fisher - West Coast DPS	AMAJF01021	Proposed Threatened	Candidate Threatened	SSC	-	4012365	Sims Mountain	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Pekania pennanti	fisher - West Coast DPS	AMAJF01021	Proposed Threatened	Candidate Threatened	SSC	-	4012367	Mad River Buttes	Mapped	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Pekania pennanti	fisher - West Coast DPS	AMAJF01021	Proposed Threatened	Candidate Threatened	SSC	-	4012366	Board Camp Mtn,	Mapped	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Pekania pennanti	fisher - West Coast DPS	AMAJF01021	Proposed Threatened	Candidate Threatened	SSC	-	4012376	Grouse Mtn.	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Pekania pennanti	fisher - West Coast DPS	AMAJF01021	Proposed Threatened	Candidate Threatened	SSC	-	4012375	Hennessy Peak	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Pekania pennanti	fisher - West Coast DPS	AMAJF01021	Proposed Threatened	Candidate Threatened	SSC	-	4012377	Maple Creek	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Corynorhinus townsendii	Townsend's big-eared bat	AMACC08010	None	Candidate Threatened	SSC	-	4012365	Sims Mountain	Mapped	Animals - Mammals - Vespertilionidae - Corynorhinus townsendii
Animals - Mammals	Corynorhinus townsendii	Townsend's big-eared bat	AMACC08010	None	Candidate Threatened	SSC	-	4012355	Blake Mountain	Mapped	Animals - Mammals - Vespertilionidae - Corynorhinus townsendii
Animals - Mammals	Lasionycteris noctivagans	silver-haired bat	AMACC02010	None	None	-	-	4012355	Blake Mountain	Unprocessed	Animals - Mammals - Vespertilionidae - Lasionycteris noctivagans
Animals - Mammals	Lasionycteris noctivagans	silver-haired bat	AMACC02010	None	None	-	-	4012365	Sims Mountain	Mapped and Unprocessed	Animals - Mammals - Vespertilionidae - Lasionycteris noctivagans
Animals - Mammals	Lasionycteris noctivagans	silver-haired bat	AMACC02010	None	None	-	-	4012375	Hennessy Peak	Mapped	Animals - Mammals - Vespertilionidae - Lasionycteris noctivagans
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	4012375	Hennessy Peak	Mapped	Animals - Mammals - Vespertilionidae - Lasiurus cinereus
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	4012365	Sims Mountain	Mapped	Animals - Mammals - Vespertilionidae - Lasiurus cinereus
Animals - Mammals	Myotis evotis	long-eared myotis	AMACC01070	None	None	-	-	4012365	Sims Mountain	Mapped and Unprocessed	Animals - Mammals - Vespertilionidae - Myotis evotis

Animals - Mammals	Myotis evotis	long-eared myotis	AMACC01070	None	None	-	-	4012355	Blake Mountain	Mapped and Unprocessed	Animals - Mammals - Vespertilionidae - Myotis evotis
Animals - Mammals	Myotis evotis	long-eared myotis	AMACC01070	None	None	-	-	4012366	Board Camp Mtn.	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis evotis
Animals - Mammals	Myotis evotis	long-eared myotis	AMACC01070	None	None	-	-	4012375	Hennessy Peak	Mapped	Animals - Mammals - Vespertilionidae - Myotis evotis
Animals - Mammals	Myotis thysanodes	fringed myotis	AMACC01090	None	None	-	-	4012375	Hennessy Peak	Mapped	Animals - Mammals - Vespertilionidae - Myotis thysanodes
Animals - Mammals	Myotis thysanodes	fringed myotis	AMACC01090	None	None	-	-	4012366	Board Camp Mtn.	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis thysanodes
Animals - Mammals	Myotis thysanodes	fringed myotis	AMACC01090	None	None	-	-	4012355	Blake Mountain	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis thysanodes
Animals - Mammals	Myotis thysanodes	fringed myotis	AMACC01090	None	None	-	-	4012365	Sims Mountain	Mapped and Unprocessed	Animals - Mammals - Vespertilionidae - Myotis thysanodes
Animals - Mammals	Myotis volans	long-legged myotis	AMACC01110	None	None	-	-	4012365	Sims Mountain	Mapped and Unprocessed	Animals - Mammals - Vespertilionidae - Myotis volans
Animals - Mammals	Myotis volans	long-legged myotis	AMACC01110	None	None	-	-	4012355	Blake Mountain	Mapped and Unprocessed	Animals - Mammals - Vespertilionidae - Myotis volans
Animals - Mammals	Myotis volans	long-legged myotis	AMACC01110	None	None	-	-	4012375	Hennessy Peak	Mapped	Animals - Mammals - Vespertilionidae - Myotis volans
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	4012375	Hennessy Peak	Mapped	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	4012355	Blake Mountain	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	4012365	Sims Mountain	Mapped and Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Mollusks	Monadenia churchi	Klamath sideband	IMGASC7010	None	None	-	-	4012355	Blake Mountain	Unprocessed	Animals - Mollusks - Bradybaenidae - Monadenia churchi
Animals - Mollusks	Monadenia churchi	Klamath sideband	IMGASC7010	None	None	-	-	4012366	Board Camp Mtn.	Unprocessed	Animals - Mollusks - Bradybaenidae - Monadenia churchi
Animals - Mollusks	Monadenia circumcarinata	keeled sideband	IMGASC7020	None	None	-	-	4012365	Sims Mountain	Unprocessed	Animals - Mollusks - Bradybaenidae - Monadenia circumcarinata
Animals - Mollusks	Monadenia infumata ochromphalus	yellow-based sideband	IMGASC7051	None	None	-	-	4012375	Hennessy Peak	Unprocessed	Animals - Mollusks - Bradybaenidae - Monadenia infumata ochromphalus
Animals - Mollusks	Monadenia infumata setosa	Trinity bristle snail	IMGASC7080	None	Threatened	-	-	4012375	Hennessy Peak	Unprocessed	Animals - Mollusks - Bradybaenidae - Monadenia infumata setosa
Animals - Mollusks	Monadenia infumata setosa	Trinity bristle snail	IMGASC7080	None	Threatened	-	-	4012365	Sims Mountain	Unprocessed	Animals - Mollusks - Bradybaenidae - Monadenia infumata setosa

Animals - Mollusks	Monadenia infumata setosa	Trinity bristle snail	IMGASC7080	None	Threatened	-	-	4012355	Blake Mountain	Unprocessed	Animals - Mollusks - Bradybaenidae - Monadenia infumata setosa
Animals - Mollusks	Ancotrema voyanum	hooded lancetooth	IMGAS36130	None	None	-	-	4012355	Blake Mountain	Unprocessed	Animals - Mollusks - Haplotrematidae - Ancotrema voyanum
Animals - Mollusks	Ancotrema voyanum	hooded lancetooth	IMGAS36130	None	None	-	-	4012365	Sims Mountain	Unprocessed	Animals - Mollusks - Haplotrematidae - Ancotrema voyanum
Animals - Mollusks	Ancotrema voyanum	hooded lancetooth	IMGAS36130	None	None	-	-	4012366	Board Camp Mtn.	Unprocessed	Animals - Mollusks - Haplotrematidae - Ancotrema voyanum
Animals - Mollusks	Ancotrema voyanum	hooded lancetooth	IMGAS36130	None	None	-	-	4012375	Hennessy Peak	Mapped and Unprocessed	Animals - Mollusks - Haplotrematidae - Ancotrema voyanum
Animals - Mollusks	Ancotrema voyanum	hooded lancetooth	IMGAS36130	None	None	-	-	4012376	Grouse Mtn.	Unprocessed	Animals - Mollusks - Haplotrematidae - Ancotrema voyanum
Animals - Mollusks	Helminthoglypta talmadgei	Trinity shoulderband	IMGASC2630	None	None	-	-	4012376	Grouse Mtn.	Unprocessed	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta talmadgei
Animals - Mollusks	Helminthoglypta talmadgei	Trinity shoulderband	IMGASC2630	None	None	-	-	4012375	Hennessy Peak	Unprocessed	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta talmadgei
Animals - Mollusks	Helminthoglypta talmadgei	Trinity shoulderband	IMGASC2630	None	None	-	-	4012366	Board Camp Mtn.	Unprocessed	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta talmadgei
Animals - Mollusks	Helminthoglypta talmadgei	Trinity shoulderband	IMGASC2630	None	None	-	-	4012365	Sims Mountain	Unprocessed	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta talmadgei
Animals - Mollusks	Helminthoglypta talmadgei	Trinity shoulderband	IMGASC2630	None	None	-	-	4012355	Blake Mountain	Unprocessed	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta talmadgei
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	4012355	Blake Mountain	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	4012365	Sims Mountain	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	4012367	Mad River Buttes	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	4012375	Hennessy Peak	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	4012376	Grouse Mtn.	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Community - Aquatic	North Central Coast Summer Steelhead Stream	North Central Coast Summer Steelhead Stream	CARA2634CA	None	None	-	-	4012356	Showers Mtn.	Mapped	Community - Aquatic - North Central Coast Summer Steelhead Stream
Community - Aquatic	North Central Coast Summer Steelhead Stream	North Central Coast Summer Steelhead Stream	CARA2634CA	None	None	-	-	4012357	Yager Junction	Mapped	Community - Aquatic - North Central Coast Summer Steelhead Stream

Community - Terrestrial	Upland Douglas Fir Forest	Upland Douglas Fir Forest	CTT82420CA	None	None	-	-	4012367	Mad River Buttes	Mapped	Community - Terrestrial - Upland Douglas Fir Forest
Community - Terrestrial	Upland Douglas Fir Forest	Upland Douglas Fir Forest	CTT82420CA	None	None	-	-	4012376	Grouse Mtn.	Mapped	Community - Terrestrial - Upland Douglas Fir Forest
Plants - Bryophytes	Buxbaumia viridis	buxbaumia moss	NBMUS1B040	None	None	-	2B.2	4012366	Board Camp Mtn.	Mapped	Plants - Bryophytes - Buxbaumiaceae - Buxbaumia viridis
Plants - Bryophytes	Ptilidium californicum	Pacific fuzzwort	NBHEP2U010	None	None	-	4.3	4012366	Board Camp Mtn.	Mapped and Unprocessed	Plants - Bryophytes - Ptilidiaceae - Ptilidium californicum
Plants - Bryophytes	Ptilidium californicum	Pacific fuzzwort	NBHEP2U010	None	None	-	4.3	4012365	Sims Mountain	Mapped	Plants - Bryophytes - Ptilidiaceae - Ptilidium californicum
Plants - Bryophytes	Ptilidium californicum	Pacific fuzzwort	NBHEP2U010	None	None	-	4.3	4012376	Grouse Mtn.	Mapped	Plants - Bryophytes - Ptilidiaceae - Ptilidium californicum
Plants - Lichens	Usnea longissima	Methuselah's beard lichen	NLLEC5P420	None	None	-	4.2	4012377	Maple Creek	Unprocessed	Plants - Lichens - Parmeliaceae - Usnea longissima
Plants - Lichens	Usnea longissima	Methuselah's beard lichen	NLLEC5P420	None	None	-	4.2	4012357	Yager Junction	Mapped and Unprocessed	Plants - Lichens - Parmeliaceae - Usnea longissima
Plants - Lichens	Ramalina thrausta	angel's hair lichen	NLLEC3S340	None	None	-	2B.1	4012376	Grouse Mtn.	Mapped	Plants - Lichens - Ramalinaceae - Ramalina thrausta
Plants - Vascular	Allium siskiyouense	Siskiyou onion	PMLIL02280	None	None	-	4.3	4012376	Grouse Mtn.	Unprocessed	Plants - Vascular - Alliaceae - Allium siskiyouense
Plants - Vascular	Allium siskiyouense	Siskiyou onion	PMLIL02280	None	None	-	4.3	4012365	Sims Mountain	Unprocessed	Plants - Vascular - Alliaceae - Allium siskiyouense
Plants - Vascular	Sanicula tracyi	Tracy's sanicle	PDAP11Z0K0	None	None	-	4.2	4012366	Board Camp Mtn.	Mapped and Unprocessed	Plants - Vascular - Apiaceae - Sanicula tracyi
Plants - Vascular	Sanicula tracyi	Tracy's sanicle	PDAP11Z0K0	None	None	-	4.2	4012355	Blake Mountain	Mapped and Unprocessed	Plants - Vascular - Apiaceae - Sanicula tracyi
Plants - Vascular	Sanicula tracyi	Tracy's sanicle	PDAP11Z0K0	None	None	-	4.2	4012365	Sims Mountain	Mapped and Unprocessed	Plants - Vascular - Apiaceae - Sanicula tracyi
Plants - Vascular	Sanicula tracyi	Tracy's sanicle	PDAP11Z0K0	None	None	-	4.2	4012356	Showers Mtn.	Mapped	Plants - Vascular - Apiaceae - Sanicula tracyi
Plants - Vascular	Sanicula tracyi	Tracy's sanicle	PDAP11Z0K0	None	None	-	4.2	4012377	Maple Creek	Unprocessed	Plants - Vascular - Apiaceae - Sanicula tracyi
Plants - Vascular	Antennaria suffrutescens	evergreen everlasting	PDAST0H0S0	None	None	-	4.3	4012376	Grouse Mtn.	Unprocessed	Plants - Vascular - Asteraceae - Antennaria suffrutescens
Plants - Vascular	Arnica cernua	serpentine arnica	PDAST0Q040	None	None	-	4.3	4012376	Grouse Mtn.	Unprocessed	Plants - Vascular - Asteraceae - Arnica cernua
Plants - Vascular	Calycadenia micrantha	small-flowered calycadenia	PDAST1P0C0	None	None	-	1B.2	4012355	Blake Mountain	Unprocessed	Plants - Vascular - Asteraceae - Calycadenia micrantha
Plants - Vascular	Erigeron maniopotamicus	Mad River fleabane daisy	PDASTE1050	None	None	-	1B.2	4012366	Board Camp Mtn.	Mapped	Plants - Vascular - Asteraceae - Erigeron maniopotamicus
Plants - Vascular	Erigeron robustior	robust daisy	PDAST3M134	None	None	-	4.3	4012366	Board Camp Mtn.	Unprocessed	Plants - Vascular - Asteraceae - Erigeron robustior

Plants - Vascular	Erigeron robustior	robust daisy	PDAST3M134	None	None	-	4.3	4012355	Blake Mountain	Unprocessed	Plants - Vascular - Asteraceae - Erigeron robustior
Plants - Vascular	Erigeron robustior	robust daisy	PDAST3M134	None	None	-	4.3	4012357	Yager Junction	Unprocessed	Plants - Vascular - Asteraceae - Erigeron robustior
Plants - Vascular	Hemizonia congesta ssp. tracyi	Tracy's tarplant	PDAST4R067	None	None	-	4.3	4012357	Yager Junction	Unprocessed	Plants - Vascular - Asteraceae - Hemizonia congesta ssp. tracyi
Plants - Vascular	Hemizonia congesta ssp. tracyi	Tracy's tarplant	PDAST4R067	None	None	-	4.3	4012365	Sims Mountain	Unprocessed	Plants - Vascular - Asteraceae - Hemizonia congesta ssp. tracyi
Plants - Vascular	Hemizonia congesta ssp. tracyi	Tracy's tarplant	PDAST4R067	None	None	-	4.3	4012367	Mad River Buttes	Unprocessed	Plants - Vascular - Asteraceae - Hemizonia congesta ssp. tracyi
Plants - Vascular	Hemizonia congesta ssp. tracyi	Tracy's tarplant	PDAST4R067	None	None	-	4.3	4012377	Maple Creek	Unprocessed	Plants - Vascular - Asteraceae - Hemizonia congesta ssp. tracyi
Plants - Vascular	Microseris borealis	northern microseris	PDAST6E030	None	None	-	2B.1	4012377	Maple Creek	Mapped	Plants - Vascular - Asteraceae - Microseris borealis
Plants - Vascular	Packera bolanderi var. bolanderi	seacoast ragwort	PDAST8H0H1	None	None	-	2B.2	4012367	Mad River Buttes	Mapped	Plants - Vascular - Asteraceae - Packera bolanderi var. bolanderi
Plants - Vascular	Wyethia longicaulis	Humboldt County wyethia	PDAST9X0A0	None	None	-	4.3	4012367	Mad River Buttes	Unprocessed	Plants - Vascular - Asteraceae - Wyethia longicaulis
Plants - Vascular	Wyethia longicaulis	Humboldt County wyethia	PDAST9X0A0	None	None	-	4.3	4012366	Board Camp Mtn.	Unprocessed	Plants - Vascular - Asteraceae - Wyethia longicaulis
Plants - Vascular	Cornus canadensis	bunchberry	PDCOR01040	None	None	-	2B.2	4012377	Maple Creek	Mapped	Plants - Vascular - Cornaceae - Cornus canadensis
Plants - Vascular	Sedum laxum ssp. flavidum	pale yellow stonecrop	PDCRA0A0L2	None	None	-	4.3	4012376	Grouse Mtn.	Mapped	Plants - Vascular - Crassulaceae - Sedum laxum ssp. flavidum
Plants - Vascular	Sedum laxum ssp. flavidum	pale yellow stonecrop	PDCRA0A0L2	None	None	-	4.3	4012375	Hennessy Peak	Mapped	Plants - Vascular - Crassulaceae - Sedum laxum ssp. flavidum
Plants - Vascular	Sedum laxum ssp. flavidum	pale yellow stonecrop	PDCRA0A0L2	None	None	-	4.3	4012366	Board Camp Mtn.	Mapped	Plants - Vascular - Crassulaceae - Sedum laxum ssp. flavidum
Plants - Vascular	Sedum laxum ssp. flavidum	pale yellow stonecrop	PDCRA0A0L2	None	None	-	4.3	4012367	Mad River Buttes	Mapped	Plants - Vascular - Crassulaceae - Sedum laxum ssp. flavidum
Plants - Vascular	Sedum laxum ssp. flavidum	pale yellow stonecrop	PDCRA0A0L2	None	None	-	4.3	4012365	Sims Mountain	Mapped and Unprocessed	Plants - Vascular - Crassulaceae - Sedum laxum ssp. flavidum
Plants - Vascular	Carex arcta	northern clustered sedge	PMCYP030X0	None	None	-	2B.2	4012367	Mad River Buttes	Mapped and Unprocessed	Plants - Vascular - Cyperaceae - Carex arcta
Plants - Vascular	Carex arcta	northern clustered sedge	PMCYP030X0	None	None	-	2B.2	4012366	Board Camp Mtn.	Mapped	Plants - Vascular - Cyperaceae - Carex arcta
Plants - Vascular	Carex arcta	northern clustered sedge	PMCYP030X0	None	None	-	2B.2	4012376	Grouse Mtn.	Mapped	Plants - Vascular - Cyperaceae - Carex arcta
Plants - Vascular	Carex arcta	northern clustered sedge	PMCYP030X0	None	None	-	2B.2	4012377	Maple Creek	Mapped and Unprocessed	Plants - Vascular - Cyperaceae - Carex arcta

Plants - Vascular	Carex geyeri	Geyer's sedge	PMCYP03540	None	None	-	4.2	4012376	Grouse Mtn.	Unprocessed	Plants - Vascular - Cyperaceae - Carex geyeri
Plants - Vascular	Carex leptalea	bristle-stalked sedge	PMCYP037E0	None	None	-	2B.2	4012367	Mad River Buttes	Mapped	Plants - Vascular - Cyperaceae - Carex leptalea
Plants - Vascular	Carex praticola	northern meadow sedge	PMCYP03B20	None	None	-	2B.2	4012376	Grouse Mtn.	Mapped	Plants - Vascular - Cyperaceae - Carex praticola
Plants - Vascular	Astragalus rattanii var. rattanii	Rattan's milk-vetch	PDFAB0F7E2	None	None	-	4.3	4012367	Mad River Buttes	Unprocessed	Plants - Vascular - Fabaceae - Astragalus rattanii var. rattanii
Plants - Vascular	Astragalus rattanii var. rattanii	Rattan's milk-vetch	PDFAB0F7E2	None	None	-	4.3	4012355	Blake Mountain	Unprocessed	Plants - Vascular - Fabaceae - Astragalus rattanii var. rattanii
Plants - Vascular	Astragalus umbraticus	Bald Mountain milk-vetch	PDFAB0F990	None	None	-	2B.3	4012356	Showers Mtn.	Mapped	Plants - Vascular - Fabaceae - Astragalus umbraticus
Plants - Vascular	Astragalus umbraticus	Bald Mountain milk-vetch	PDFAB0F990	None	None	-	2B.3	4012377	Maple Creek	Mapped and Unprocessed	Plants - Vascular - Fabaceae - Astragalus umbraticus
Plants - Vascular	Hosackia yollaboliensis	Yolla Bolly Mtns. bird's-foot trefoil	PDFAB2A1F0	None	None	-	1B.2	4012365	Sims Mountain	Mapped	Plants - Vascular - Fabaceae - Hosackia yollaboliensis
Plants - Vascular	Hosackia yollaboliensis	Yolla Bolly Mtns. bird's-foot trefoil	PDFAB2A1F0	None	None	-	1B.2	4012355	Blake Mountain	Mapped	Plants - Vascular - Fabaceae - Hosackia yollaboliensis
Plants - Vascular	Lupinus elmeri	South Fork Mtn. lupine	PDFAB2B1G0	None	None	-	1B.2	4012355	Blake Mountain	Mapped and Unprocessed	Plants - Vascular - Fabaceae - Lupinus elmeri
Plants - Vascular	Lupinus elmeri	South Fork Mtn. lupine	PDFAB2B1G0	None	None	-	1B.2	4012365	Sims Mountain	Mapped and Unprocessed	Plants - Vascular - Fabaceae - Lupinus elmeri
Plants - Vascular	Thermopsis robusta	robust false lupine	PDFAB3Z0D0	None	None	-	1B.2	4012355	Blake Mountain	Mapped and Unprocessed	Plants - Vascular - Fabaceae - Thermopsis robusta
Plants - Vascular	Thermopsis robusta	robust false lupine	PDFAB3Z0D0	None	None	-	1B.2	4012377	Maple Creek	Mapped	Plants - Vascular - Fabaceae - Thermopsis robusta
Plants - Vascular	Trifolium howellii	Howell's clover	PDFAB40140	None	None	-	4.3	4012376	Grouse Mtn.	Unprocessed	Plants - Vascular - Fabaceae - Trifolium howellii
Plants - Vascular	Ribes laxiflorum	trailing black currant	PDGRO020V0	None	None	-	4.3	4012377	Maple Creek	Unprocessed	Plants - Vascular - Grossulariaceae - Ribes laxiflorum
Plants - Vascular	Ribes laxiflorum	trailing black currant	PDGRO020V0	None	None	-	4.3	4012355	Blake Mountain	Unprocessed	Plants - Vascular - Grossulariaceae - Ribes laxiflorum
Plants - Vascular	Ribes laxiflorum	trailing black currant	PDGRO020V0	None	None	-	4.3	4012367	Mad River Buttes	Unprocessed	Plants - Vascular - Grossulariaceae - Ribes laxiflorum
Plants - Vascular	Erythronium oregonum	giant fawn lily	PMLIL0U0C0	None	None	-	2B.2	4012357	Yager Junction	Mapped	Plants - Vascular - Liliaceae - Erythronium oregonum
Plants - Vascular	Erythronium oregonum	giant fawn lily	PMLIL0U0C0	None	None	-	2B.2	4012376	Grouse Mtn.	Mapped	Plants - Vascular - Liliaceae - Erythronium oregonum
Plants - Vascular	Erythronium oregonum	giant fawn lily	PMLIL0U0C0	None	None	-	2B.2	4012375	Hennessy Peak	Mapped	Plants - Vascular - Liliaceae - Erythronium oregonum

Plants - Vascular	Erythronium revolutum	coast fawn lily	PMLIL0U0F0	None	None	-	2B.2	4012375	Hennessy Peak	Mapped	Plants - Vascular - Liliaceae - Erythronium revolutum
Plants - Vascular	Erythronium revolutum	coast fawn lily	PMLIL0U0F0	None	None	-	2B.2	4012376	Grouse Mtn.	Mapped	Plants - Vascular - Liliaceae - Erythronium revolutum
Plants - Vascular	Erythronium revolutum	coast fawn lily	PMLIL0U0F0	None	None	-	2B.2	4012377	Maple Creek	Mapped	Plants - Vascular - Liliaceae - Erythronium revolutum
Plants - Vascular	Erythronium revolutum	coast fawn lily	PMLIL0U0F0	None	None	-	2B.2	4012357	Yager Junction	Mapped	Plants - Vascular - Liliaceae - Erythronium revolutum
Plants - Vascular	Erythronium revolutum	coast fawn lily	PMLIL0U0F0	None	None	-	2B.2	4012367	Mad River Buttes	Mapped	Plants - Vascular - Liliaceae - Erythronium revolutum
Plants - Vascular	Erythronium revolutum	coast fawn lily	PMLIL0U0F0	None	None	-	2B.2	4012366	Board Camp Mtn.	Mapped	Plants - Vascular - Liliaceae - Erythronium revolutum
Plants - Vascular	Fritillaria glauca	Siskiyou fritillaria	PMLIL0V090	None	None	-	4.2	4012366	Board Camp Mtn.	Unprocessed	Plants - Vascular - Liliaceae - Fritillaria glauca
Plants - Vascular	Fritillaria purdyi	Purdy's fritillary	PMLIL0V0H0	None	None	-	4.3	4012376	Grouse Mtn.	Unprocessed	Plants - Vascular - Liliaceae - Fritillaria purdyi
Plants - Vascular	Lilium kelloggii	Kellogg's lily	PMLIL1A0A0	None	None	-	4.3	4012377	Maple Creek	Unprocessed	Plants - Vascular - Liliaceae - Lilium kelloggii
Plants - Vascular	Lilium kelloggii	Kellogg's lily	PMLIL1A0A0	None	None	-	4.3	4012366	Board Camp Mtn.	Unprocessed	Plants - Vascular - Liliaceae - Lilium kelloggii
Plants - Vascular	Lilium pardalinum ssp. vollmeri	Vollmer's lily	PMLIL1A0H2	None	None	-	4.3	4012376	Grouse Mtn.	Unprocessed	Plants - Vascular - Liliaceae - Lilium pardalinum ssp. vollmeri
Plants - Vascular	Lilium rubescens	redwood lily	PMLIL1A0N0	None	None	-	4.2	4012367	Mad River Buttes	Unprocessed	Plants - Vascular - Liliaceae - Lilium rubescens
Plants - Vascular	Lycopodium clavatum	running-pine	PPLYC01080	None	None	-	4.1	4012365	Sims Mountain	Mapped	Plants - Vascular - Lycopodiaceae - Lycopodium clavatum
Plants - Vascular	Lycopodium clavatum	running-pine	PPLYC01080	None	None	-	4.1	4012355	Blake Mountain	Mapped	Plants - Vascular - Lycopodiaceae - Lycopodium clavatum
Plants - Vascular	Lycopodium clavatum	running-pine	PPLYC01080	None	None	-	4.1	4012367	Mad River Buttes	Unprocessed	Plants - Vascular - Lycopodiaceae - Lycopodium clavatum
Plants - Vascular	Lycopodium clavatum	running-pine	PPLYC01080	None	None	-	4.1	4012377	Maple Creek	Mapped and Unprocessed	Plants - Vascular - Lycopodiaceae - Lycopodium clavatum
Plants - Vascular	Iliamna latibracteata	California globe mallow	PDMAL0K040	None	None	-	1B.2	4012377	Maple Creek	Mapped	Plants - Vascular - Malvaceae - Iliamna latibracteata
Plants - Vascular	Iliamna latibracteata	California globe mallow	PDMAL0K040	None	None	-	1B.2	4012376	Grouse Mtn.	Mapped	Plants - Vascular - Malvaceae - Iliamna latibracteata
Plants - Vascular	Iliamna latibracteata	California globe mallow	PDMAL0K040	None	None	-	1B.2	4012365	Sims Mountain	Mapped	Plants - Vascular - Malvaceae - Iliamna latibracteata

Attachment 5

CDFW Attachment C - Water Diversion Questionnaire

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

Applicant Name: Dean Crisp

Project Name: APN: 315-093-006 HUM

ATTACHMENT C

Water Diversion Questionnaire

I. DIVERSION OR OBSTRUCTION

Please provide the additional information below *if* the project is directly related to any diversion, obstruction, extraction, or impoundment of the natural flow of a river, stream, or lake. 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.

- 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 gallons per day).

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
Oct 13	Aug 5	Domestic	2500 gpd		2.26
		Domestic			
		Domestic			
		Domestic			

- 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): N/A - gravity

NOTIFICATION OF LAKE OR STREAMBED ALTERATION
ATTACHMENT C

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

- Riparian. *Attach the most recent statement of riparian rights filed with the State Water Resources Control Board (SWRCB).*
- Diversion for immediate use
- Diversion to storage (for less than 30 days)

- Appropriative
 - Pre-1914
 - Post-1914. *Attach a copy of the applicant's water right application, permit, or license filed with or issued by the SWRCB.*
 - Diversion for immediate use. *Attach a copy of the applicant's water right application, permit, or license filed with or issued by the SWRCB.*
 - Diversion to storage. *Attach a copy of the applicant's water right application, permit, or license filed with or issued by the SWRCB.*
 - Small domestic or livestock stockpond use. *Attach a copy of the applicant's registration of water use form filed with the SWRCB. (See Water Code section 1228 et seq.)*
- 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.*

Proposed site water originates from a spring from the adjoining parcel
(315-092-007 HUM) which is owned by Dean Crisp. The declared volume for
this parcel will be withdrawn from the 2500 gpd declared on the SDU/LSA for
APN 315-092-007.

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: Not Applicable - Spring

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 to complete the notification. Such information could include more site-specific information to ensure that the terms and conditions in the Lake or Streambed Alteration 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 specific studies 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:

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). The protocol for water availability analyses is available on request.
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, which 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 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 a 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 that will be 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. _____.

NOTIFICATION OF LAKE OR STREAMBED ALTERATION
ATTACHMENT C

I. The methods that will be 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 that will be 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: _____

