

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
REGION 1 – NORTHERN REGION
619 Second Street
Eureka, CA 95501



STREAMBED ALTERATION AGREEMENT

NOTIFICATION NO. 1600-2016-0103-R1

Unnamed Tributaries, Tributaries to Supply Creek, Tributaries to the Trinity River, Tributaries to the Klamath River and the Pacific Ocean

Mr. Nicholas Eddy and Ms. Neva Peterson
Eddy/Peterson Water Diversion and Pond Construction Project
2 Encroachments

This Streambed Alteration Agreement (Agreement) is entered into between the California Department of Fish and Wildlife (CDFW) and Mr. Nicholas Eddy and Ms. Neva Peterson (Permittees).

RECITALS

WHEREAS, pursuant to Fish and Game Code (FGC) section 1602, the Permittees initially notified CDFW on March 16, 2016, that the Permittees intend to complete the project described herein.

WHEREAS, pursuant to FGC section 1603, CDFW has determined that the project could substantially adversely affect existing fish or wildlife resources and has included measures in the Agreement necessary to protect those resources.

WHEREAS, the Permittees have reviewed the Agreement and accept its terms and conditions, including the measures to protect fish and wildlife resources.

NOW THEREFORE, the Permittees agree to complete the project in accordance with the Agreement.

PROJECT LOCATION

The project to be completed is located within the Supply Creek watershed, approximately 6.5 miles northwest of the town of Willow Creek, County of Humboldt, State of California. The project is located in Section 20, T7N, R4E, Humboldt Base and Meridian; in the Willow Creek U.S. Geological Survey 7.5-minute quadrangle; Assessor's Parcel Number 522-025-06; latitude 40.9804 N and longitude 123.7436 W at the Point of Diversion (POD).

[Handwritten signature]

PROJECT DESCRIPTION

The project is limited to two encroachments. Water is diverted from a Class II spring for domestic use and irrigation. Work for this project will include use and maintenance of the water diversion infrastructure. An off-channel pond will be constructed to provide water storage during the summer low flow period. The pond will direct overflow through a natural pond feature through a constructed spillway. Water from this pond will be used for irrigation.

PROJECT IMPACTS

Existing fish or wildlife resources the project could substantially adversely affect include: Chinook salmon (*Oncorhynchus tshawytscha*), coho salmon (*O. kisutch*), steelhead trout (*O. mykiss*), amphibians, reptiles, aquatic invertebrates, mammals, birds, and other aquatic and riparian species.

The adverse effects the project could have on the fish or wildlife resources identified above include:

Impacts to water quality:

increased water temperature;
reduced instream flow;
temporary increase in fine sediment transport;

Impacts to bed, channel, or bank and direct effects on fish, wildlife, and their habitat:

loss or decline of riparian habitat;
direct impacts on benthic organisms;

Impacts to natural flow and effects on habitat structure and process:

cumulative effect when other diversions on the same stream are considered;
diversion of flow from activity site;
direct and/or incidental take;
indirect impacts;
impediment of up- or down-stream migration;
water quality degradation; and
damage to aquatic habitat and function.

MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES

1. Administrative Measures

The Permittees shall meet each administrative requirement described below.

- 1.1 Documentation at Project Site. The Permittees shall make the Agreement, any extensions and amendments to the Agreement, and all related notification

- 2.12 Management of Invasive Bullfrogs. The Permittees shall monitor the pond each year for invasive bullfrogs. If bullfrogs are or become present, they shall be appropriately managed. Management of bullfrogs shall follow the guidelines in **Exhibit A.**
- 2.13 State Water Code. This Agreement does not constitute a valid water right. The Permittees shall comply with State Water Code sections 5100 and 1200 et seq. as appropriate for the water diversion and water storage. The application for this registration is found at:
http://www.swrcb.ca.gov/waterrights/publications/forms/forms/docs/sdu_registration.pdf.

Pond and Spillway Construction

- 2.14 Work Period. All work, not including water diversion, shall be confined to the period May 15 through October 1 of each year. Work within the active channel of a stream shall be restricted to periods of **no stream flow and dry weather.** Precipitation forecasts and potential increases in stream flow shall be considered when planning construction activities. Construction activities shall cease and all necessary erosion control measures shall be implemented prior to the onset of precipitation.
- 2.15 Pond and Spillway Design. The Permittees shall submit the plans for the pond and spillway to CDFW for approval prior to construction.
- 2.16 Excavated Fill. Excavated fill material shall be placed in locations where it cannot deliver to a watercourse. To minimize the potential for material to enter the watercourse during the winter period, all excavated and relocated fill material shall be tractor contoured (to drain water) and tractor compacted to effectively incorporate and stabilize loose material into existing road and/or landing features.
- 2.17 Runoff from Steep Areas. The Permittees shall make preparations so that runoff from steep, erodible surfaces will be diverted into stable areas with little erosion potential or contained behind erosion control structures. Erosion control structures such as straw bales and/or siltation control fencing shall be placed and maintained until the threat of erosion ceases. Frequent water checks shall be placed on dirt roads, cat tracks, or other work trails to control erosion.
- 2.18 Rock Armor Placement.
- 2.18.1 No heavy equipment shall enter the wetted stream channel.
 - 2.18.2 No fill material, other than clean rock, shall be placed in the stream channel.
 - 2.18.3 Rock shall be sized to withstand washout from high stream flows, and extend above the ordinary high water level.

2.18.4 Rock armoring shall not constrict the natural stream channel width and shall be keyed into a footing trench with a depth sufficient to prevent instability.

2.19 Pond Inspection. The pond shall be inspected by Timber Resource Consulting or a Licensed Engineer to evaluate if the pond and spillway were constructed as designed. A report shall be submitted to CDFW within 60 days of the project construction.

2.20 Stream Protection. No debris, soil, silt, sand, bark, slash, sawdust, rubbish, cement or concrete washings, oil or petroleum products, or other deleterious material from project activities shall be allowed to enter into or be placed where it may be washed by rainfall or runoff into the stream. All project materials and debris shall be removed from the project site and properly disposed of off-site upon project completion.

2.21 Equipment Maintenance. Refueling of machinery or heavy equipment, or adding or draining oil, lubricants, coolants or hydraulic fluids shall not take place within stream bed, channel and bank. All such fluids and containers shall be disposed of properly off-site. Heavy equipment used or stored within stream bed, channel and bank shall use drip pans or other devices (e.g., absorbent blankets, sheet barriers or other materials) as needed to prevent soil and water contamination.

2.22 Hazardous Spills. Any material, which could be hazardous or toxic to aquatic life and enters a stream (i.e. a piece of equipment tipping-over in a stream and dumping oil, fuel or hydraulic fluid), the Permittees shall immediately notify the California Emergency Management Agency State Warning Center at 1-800-852-7550, and immediately initiate clean-up activities. CDFW shall be notified by the Permittees within 24 hours at 707-445-6493 and consulted regarding clean-up procedures.

3. Reporting Measures

3.1 Measurement of Diverted Flow. Copies of the **water diversion records** (condition 2.6) shall be submitted to CDFW at 619 Second Street, Eureka, CA 95501 office **no later than December 31 of each year beginning in 2016**.

3.2 Project Inspection. The Permittees shall submit the **Project Inspection Report** (condition 2.19) to CDFW, LSA Program at 619 Second Street, Eureka, CA 95501.

CONTACT INFORMATION

Written communication that the Permittees or CDFW submits to the other shall be delivered to the address below unless the Permittees or CDFW specifies otherwise.

To Permittees:

Mr. Nicholas Eddy and Ms. Neva Peterson
P.O. Box 336
Bayside, California 95524
707-601-7205

To CDFW:

Department of Fish and Wildlife
Northern Region
619 Second Street
Eureka, California 95501
Attn: Lake and Streambed Alteration Program
Notification #1600-2016-0103-R1

LIABILITY

The Permittees shall be solely liable for any violation of the Agreement, whether committed by the Permittees or any person acting on behalf of the Permittees, including its officers, employees, representatives, agents or contractors and subcontractors, to complete the project or any activity related to it that the Agreement authorizes.

This Agreement does not constitute CDFW's endorsement of, or require the Permittees to proceed with the project. The decision to proceed with the project is the Permittees alone.

SUSPENSION AND REVOCATION

CDFW may suspend or revoke in its entirety this Agreement if it determines that the Permittees or any person acting on behalf of the Permittees, including its officers, employees, representatives, agents, or contractors and subcontractors, is not in compliance with the Agreement.

Before CDFW suspends or revokes the Agreement, it shall provide the Permittees written notice by certified or registered mail that it intends to suspend or revoke. The notice shall state the reason(s) for the proposed suspension or revocation, provide the Permittees an opportunity to correct any deficiency before CDFW suspends or revokes the Agreement, and include instructions to the Permittees, if necessary, including but not limited to a directive to immediately cease the specific activity or activities that caused CDFW to issue the notice.

ENFORCEMENT

Nothing in the Agreement precludes CDFW from pursuing an enforcement action against the Permittees instead of, or in addition to, suspending or revoking the Agreement.

Nothing in the Agreement limits or otherwise affects CDFW's enforcement authority or that of its enforcement personnel.

OTHER LEGAL OBLIGATIONS

This Agreement does not relieve the Permittees or any person acting on behalf of the Permittees, including its officers, employees, representatives, agents, or contractors and subcontractors, from obtaining any other permits or authorizations that might be required under other federal, state, or local laws or regulations before beginning the project or an activity related to it.

This Agreement does not relieve the Permittees or any person acting on behalf of the Permittees, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with other applicable statutes in the FGC including, but not limited to, FGC sections 2050 *et seq.* (threatened and endangered species), 3503 (bird nests and eggs), 3503.5 (birds of prey), 5650 (water pollution), 5652 (refuse disposal into water), 5901 (fish passage), 5937 (sufficient water for fish), and 5948 (obstruction of stream).

Nothing in the Agreement authorizes the Permittees or any person acting on behalf of the Permittees, including its officers, employees, representatives, agents, or contractors and subcontractors, to trespass.

AMENDMENT

CDFW may amend the Agreement at any time during its term if CDFW determines the amendment is necessary to protect an existing fish or wildlife resource.

The Permittees may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by CDFW and the Permittees. To request an amendment, the Permittees shall submit to CDFW a completed CDFW "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the corresponding amendment fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

TRANSFER AND ASSIGNMENT

This Agreement may not be transferred or assigned to another entity, and any purported transfer or assignment of the Agreement to another entity shall not be valid or effective,

EXHIBIT A.

BULLFROG MONITORING AND MANAGEMENT PLAN FOR 1600-2016-0103-R1

GENERAL BULLFROG INFORMATION

The American bullfrog (*Lithobates catesbeianus* = *Rana catesbeiana*); hereafter bullfrog, is an invasive non-native species in California and poses a significant threat to California's native fish and wildlife resources. Bullfrogs were introduced in California over 100 years ago from eastern parts of the United States as a food supply, but have since caused substantial ecological consequences. Bullfrogs are considered highly invasive and are well documented to be prey upon a variety of fish and wildlife species, including some that are rare, threatened, and endangered. Human modifications to the environment provide favorable condition to bullfrogs such as artificially created agricultural ponds, canals and ditches where warm still water occurs. As a result bullfrogs have spread throughout California.

Efforts to control bullfrogs have been met with varying degrees of success because: 1) bullfrogs can be difficult to detect and go dormant from fall through winter, 2) bullfrogs often take cover in difficult areas to manage (e.g. dense vegetation), 3) they can travel long distances to colonize and re-colonize areas, 4) they have high reproductive output, 5) they are weary and readily flee perceived threats, and 6) they can survive physical trauma remarkably well. CDFW scientific staff recognizes there is an urgent and immediate need to develop improved bullfrog management strategies to protect California's diverse fish, wildlife, and plant resources, and the habitats upon which they depend, for their ecological values and for their use and enjoyment by the public. Public support and implementation of bullfrog control in California is an important conservation strategy that will help protect natural resources for future generations.

MONITORING

The Project reservoir(s) shall be monitored for bullfrog presence on an annual basis with a minimum of five total surveys, no less than two weeks apart, throughout the months of May-July

- All pond survey effort must be made by a person knowledgeable in bullfrog identification (see Appendix A for reference photos);
- Survey efforts shall include listening for bullfrog calls and slowly walking the complete perimeter of the pond at night* (dusk or later) while shining a flashlight to detect movement and eye-shine

If bullfrogs are not detected upon completion of five total surveys, or at any other time of the year incidentally, removal efforts are not required that year.

*Day time monitoring can also be conducted to aid detection but is not required under this plan.

SUCCESS CRITERIA

The level of effort needed to successfully manage bullfrog populations varies with infestation levels. This plan shall be considered successfully implemented if sufficient effort is provided to prevent adult bullfrogs from reproducing in the reservoir(s) each year, and no bullfrog life-stages can be detected. Bullfrogs are capable of traveling long distances over-land, and on-going

efforts will be required to ensure dispersing bullfrogs do not colonize the reservoir(s) at a future time.

OPTIONS FOR MANAGEMENT

Two removal methods may be employed for controlling bullfrogs under this plan and include:

- Manual direct removal
- Reservoir de-watering (Hydro-modification)

Implementing both reservoir de-watering and manual direct removal is currently believed to be the most effective method of managing bullfrog infestations. For reservoirs that are heavily infested with juvenile bullfrogs and/or tadpoles, reservoir dewatering may be necessary to break the bullfrog's life cycle and prevent on-going reproduction. Prior to conducting reservoir dewatering activities, please coordinate with CDFW Environmental Scientist David Manthorne by phone at (707) 441-5900 or via email at david.manthorne@wildlife.ca.gov.

Direct Removal

All direct removal efforts must be made by a person knowledgeable in bullfrog identification.

- Removal efforts must occur during, but are not be limited to the active/breeding season, occurring May – July;
- A minimum of **five** efforts throughout the season are considered necessary;
- Direct removal efforts are typically most effective when conducted at night with use of lights but can also be conducted during the day;
- Direct removal must include working the entire perimeter of the reservoir;
- A rubber raft or small boat may be necessary to successfully remove some individuals;
- A team of two individuals or more is often helpful, one person for shining lights and/or operating a boat and the other person to perform removal efforts;
- Bullfrog tadpoles must be removed and dispatched and must not be relocated or kept as pets.

Management Authorization

Take of bullfrogs is specifically allowed in the California Code of Regulations (CCR), Title 14 (T-14) section 5.05(a)(28), under the authority of a sport fishing license. There is no daily bag limit, possession limit or hour restriction, but bullfrogs can only be taken by hand, hand-held dip net, hook and line, lights, spears, gigs, grabs, paddles, bow and arrow or fish tackle.

Alternatively, FGC Section 5501 allows CDFW, as limited by the commission, to issue a permit to destroy fish that are harmful to other wildlife. The regulations have addressed this under Section CCR T-14 226.5 Issuance of Permits to Destroy Harmful Species of Fish in Private Waters for Management Purposes. This allows the CDFW to issue free permits to destroy harmful aquatic species by seining and draining.

unless the transfer or assignment is requested by the Permittees in writing, as specified below, and thereafter CDFW approves the transfer or assignment in writing.

The transfer or assignment of the Agreement to another entity shall constitute a minor amendment, and therefore to request a transfer or assignment, the Permittees shall submit to CDFW a completed CDFW "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the minor amendment fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

EXTENSIONS

In accordance with FGC section 1605(b), the Permittees may request one extension of the Agreement, provided the request is made prior to the expiration of the Agreement's term. To request an extension, the Permittees shall submit to CDFW a completed CDFW "Request to Extend Lake or Streambed Alteration" form and include with the completed form payment of the extension fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5). CDFW shall process the extension request in accordance with FGC 1605(b) through (e).

If the Permittees fail to submit a request to extend the Agreement prior to its expiration, the Permittees must submit a new notification and notification fee before beginning or continuing the project the Agreement covers (FGC section 1605(f)).

EFFECTIVE DATE

The Agreement becomes effective on the date of CDFW's signature, which shall be: 1) after the Permittees signature; 2) after CDFW complies with all applicable requirements under the California Environmental Quality Act (CEQA); and 3) after payment of the applicable FGC section 711.4 filing fee listed at http://www.wildlife.ca.gov/habcon/ceqa/ceqa_changes.html.

TERM

This Agreement shall **expire five years** from date of execution, unless it is terminated or extended before then. All provisions in the Agreement shall remain in force throughout its term. The Permittees shall remain responsible for implementing any provisions specified herein to protect fish and wildlife resources after the Agreement expires or is terminated, as FGC section 1605(a)(2) requires.

AUTHORITY

If the person signing the Agreement (signatory) is doing so as a representative of the Permittees, the signatory hereby acknowledges that he or she is doing so on the Permittees' behalf and represents and warrants that he or she has the authority to legally bind the Permittees to the provisions herein.

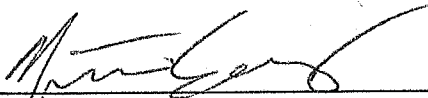
AUTHORIZATION

This Agreement authorizes only the project described herein. If the Permittees begin or complete a project different from the project the Agreement authorizes, the Permittees may be subject to civil or criminal prosecution for failing to notify CDFW in accordance with FGC section 1602.

CONCURRENCE

The undersigned accepts and agrees to comply with all provisions contained herein.

FOR Mr. Nicholas Eddy

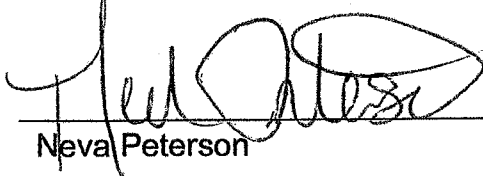


Nicholas Eddy

8/3/16

Date

FOR Ms. Neva Peterson



Neva Peterson

8/3/16

Date

FOR DEPARTMENT OF FISH AND WILDLIFE

Gordon Leppig

Senior Environmental Scientist Supervisor

Date



State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
Northern Region
619 Second Street
Eureka, California 95501
(707) 445-6493
www.wildlife.ca.gov

EDMU G. BROWN, Jr., Governor
CHARLTON H. BONHAM, Director



June 3, 2016

Mr. Nicholas Eddy and Ms. Neva Peterson
P.O. Box 336
Bayside, California 95524

Subject: Draft Lake or Streambed Alteration Agreement
Notification No. 1600-2016-0103-R1
Eddy/Peterson Water Diversion and Pond Construction Project

Dear Mr. Eddy and Ms. Peterson:

The California Department of Fish and Wildlife (Department) has determined that your project requires a Lake or Streambed Alteration Agreement (Agreement) because it could substantially adversely affect an existing fish or wildlife resource. Enclosed is a draft Agreement that includes measures the Department has determined are necessary to protect existing fish and wildlife resources.

Within 30 days of receipt of this draft Agreement, you must notify the Department in writing whether the measures to protect fish and wildlife resources are acceptable (Fish and Game Code section 1603). If you agree with the measures set forth in the draft Agreement, you or your authorized representative **must return the draft Agreement with original signature to the above address.**

If you disagree with any measures in the draft Agreement, please contact the Department staff identified below. In the event that mutual agreement is not reached, you may follow the dispute resolution process described in Fish and Game Code section 1603(a), Part III of the "Notification Instructions and Process." If you fail to respond in writing within 90 days of receiving the draft Agreement, the Department may withdraw the draft Agreement.

Please be advised the Department may not execute the Agreement until it has complied with the California Environmental Quality Act (CEQA) (Public Resources Code section 21000 *et seq.*) as the lead or a responsible agency. Please note that the draft Agreement may be subject to change upon receipt and review of the environmental document for the project.

After you receive a final Agreement executed by the Department, you may begin the project the Agreement authorizes provided you have obtained all other necessary local, state, and federal permits or other authorizations.

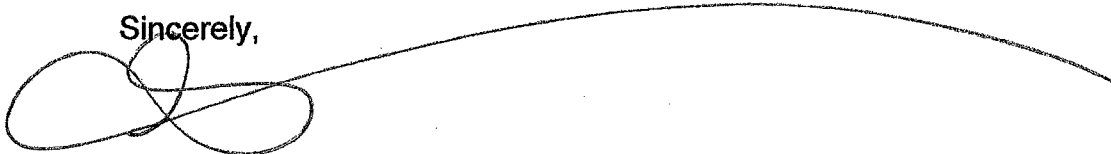
Conserving California's Wildlife Since 1870

Mr. Eddy and Ms. Peterson
June 3, 2016
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For more information on the process described above, please refer to Part IV in the "Notification Instructions and Process" included with your notification materials, which is also available at www.wildlife.ca.gov/habcon/1600/notificationpackage.pdf.

If you have any questions regarding this letter, please contact Environmental Scientist David Manthorne at (707) 441-5900 or david.manthorne@wildlife.ca.gov.

Sincerely,

A handwritten signature in black ink, consisting of a large, stylized loop followed by a long horizontal stroke that extends to the right.

Gordon Leppig
Senior Environmental Scientist Supervisor

Ec. Chris Carroll
Timberland Resource Consultants
carroll@timberlandresource.com