YUROK TRIBE

190 Klamath Boulevard • Post Office Box 1027 • Klamath, CA 95548

November 19, 2014

California Fish and Game Commission
1416 Ninth St.
Room 1320
Sacramento CA, 95814

Re: Lower Klamath River fishing regulations

Dear Commissioners:

The Yurok Tribe formally recommends modifications to the Lower Klamath River recreational fishery regulations. Yurok typically does not become involved with the management of State fisheries unless we consider an issue to be a conservation concern that affects the health of our fishery resource. We propose two modifications to the lower Klamath River regulations within the boundaries of the Yurok Reservation: 1) there should be no catch-and-release fishing allowed in the spit area, where the Klamath River flows through the sand bar to meet the ocean, due to high levels of pinniped predation upon released fish, and 2) we recommend adoption of a conservation closure at the confluence and immediately downstream of Blue Creek (approximately river mile 17) to minimize catch and release fishing for fish that are seeking thermal respite, and to protect late fall-run Chinook that are holding prior to entering Blue Creek.

As you may recall, we provided comments to the Commission during the February and April meetings last year (see attachments) regarding these proposed regulatory modifications, but learned that we were too late to affect change for the 2014 regulation process. Per recommendation of your staff, we are providing recommendations for consideration at your December 2014 meeting, with the hope that these proposed regulations will comprise at least one of the options for public consideration/comment as you move through your 2015 regulatory process.

Recommendation 1 *Catch and Release fishing in the spit-area*
Previous regulations have allowed catch-and-release fishing in the spit area that has resulted in unquantified, but substantial predation upon released fish by the numerous pinnipeds occupying this area. During some previous years, the most successful anglers have released dozens of fish within a given day.

We recommend the Commission adopt regulations requiring all fall Chinook caught within this area be retained, and that there be no catch and release fishing of fall Chinook. Once an

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angler's daily bag limit for Chinook (regardless of whether it is an adult or jack) is obtained, they must stop fishing for the day. We propose the following:

Body of Water	Open Season and Special Regulations	Daily Bag Limit
Klamath River Spit (within 100 yards of the channel through the sand spit formed at the Klamath River mouth)	All Chinook salmon (regardless of size) captured must be harvested (i.e. no releasing Chinook salmon). Once the daily bag limit for Chinook is obtained, fishing must stop for the day.	"x" Chinook salmon (regardless of size)

Such a regulation would allow the fishery to continue—which is important for shore- based anglers as well as the local economy—while minimizing excessive mortality associated with releasing fish in the presence of sea lions, such predation is a problem that undeniably needs to be addressed and we hope to work with the Commission in doing so.

Yurok are well aware that many of the fish caught in this fishery are not legally hooked, but snagged outside of the mouth. I appreciate the concern this causes for some regarding the retention of fish that are snagged, because of the perceived precedent this may have to other areas of the state where snagging occurs. However, it's important to realize the uniqueness of this fishery given the presence of pinnipeds preying upon released fish. It is also important to realize that this fishery takes place within the boundaries of the Yurok Reservation, a sovereign nation and Co-Manager of the resource. The wasting of fish is contrary to our culture and a violation of our own Fishing Rights Ordinance.

Recommendation 2 *Blue Creek Conservation Closure*
We recommended the Commission adopt a conservation closure at the mouth of Blue Creek. This conservation closure would serve two purposes: 1) it would provide thermal refugia—free of catch-and-release fishing—for adult salmon (spring and fall Chinook) and summer-run steelhead that migrate up the Klamath River during the summer months (mid-June through mid-September) when ambient water temperatures are excessively warm, and 2) during mid-September through November, it would protect late-run fall chinook that are staging to enter Blue Creek, similar to the closures that are currently in place at the mouths of the Salmon, Scott, and Shasta Rivers.

During the summer months, especially during years of low flow, water temperatures in the mainstem Klamath River often reach 73 - 79° F, well above the optimal migration range and near the acute lethal limit for adult Chinook salmon (Bell 1990, Strange 2010[1]). At these times, adult salmon and steelhead will stop migrating and hold in the cold water effluent

[1] Bell, M.C. 1991. Fisheries Handbook of Engineering Requirements and Biological Criteria.
Strange, J.S. 2010. *Upper Thermal Limits to Migration in Adult Chinook Salmon: Evidence from the Klamath River Basin.* Transactions of the American Fisheries Society 139: 1091 – 1108.

from the mouth of Blue Creek to approximately half mile downstream. During many low flow years, such as we just experienced in 2014, this area holds up to several thousand adult salmonids (steelhead and Chinook), that are escaping the intolerably warm Klamath River. Video footage of a 100 meter stretch of the 2,000 meters these fish in during August 2014 is available at: https://www.youtube.com/watch?v=jpX6ICJZeuA

We believe fish that make it to the thermal refugia should be allowed respite. It is inappropriate to harass (via hook and line) these fish at a time when they are so physiologically vulnerable. Furthermore, often these fish (steelhead and/or salmon) will be hooked while holding in the thermal refugia, then played for an extended period of time in the ambient river conditions that are several degrees warmer (sometimes at lethal levels), and then eventually released. Forcing fish to go through such dramatic temperature changes, while putting them through excessive stress, is contrary to fish culture practices associated with rearing and/or releasing fish, and undoubtedly results in excessive stress and mortality. We recommend that this thermal conservation closure extend from the mouth of Blue Creek to half mile downstream of the wetted channel of Blue Creek.

The second reason for the conservation closure at the mouth of Blue Creek is to protect the genetically unique adult late-fall run Chinook salmon that return to spawn from mid-October through December. These fish are known to hold in the confluence pool in the Klamath River until substantial rains stimulate their migration up Blue Creek. Blue Creek late-fall run Chinook are the stronghold of the Lower Klamath and likely the source population for other Lower Klamath Tributaries. We request that fish holding in this area be given protection from harvest pressure similar to what is given to Chinook returning to the Salmon, Scott, and Shasta Rivers. California regulations currently provide the protection for these stocks:

"No fishing is allowed from September 15 through December 31 in the Klamath River within 500 feet of the mouths of the Salmon, the Shasta and the Scott rivers." We recommend adding Blue Creek to this prevision.

In summary, we recommend the Commission allow the above-mentioned regulatory changes be considered during the upcoming public hearing process for Klamath River sport fishing regulations, and we hope this process results in the adoption of such regulations to conserve the resource that is so important to our people. If you have any questions regarding this letter, or would like to schedule a meeting with our Council, please don't hesitate to contact myself or Dave Hillemeier (Fisheries Program Manager) at the address in the letterhead.

Finally, I would like to reiterate my invitation to the Commission We would welcome the Commission to visit the Yurok Reservation and meet with our Tribal Council. Such a meeting would allow us to discuss issues of mutual concern in regard to the management of the Klamath River fishery and provide you an opportunity to visit the Lower Klamath River via a boat ride if your schedules allow.

Sincerely,

Thomas O'Rourke, Chairman

YUROK TRIBE

190 Klamath Boulevard • Post Office Box 1027 • Klamath, CA 95548

April 8, 2014

California Fish and Game Commission
1416 Ninth St.
Room 1320
Sacramento CA, 95814

Re: Klamath River fishing regulations

Dear Commissioners:

I am writing to express concern with proposed sport fishing regulations for the "spit area" in the Lower Klamath River, which is located within the boundaries of the Yurok Reservation. While we support the continuation of the spit fishery (i.e. we oppose the closure of the spit fishery, as proposed in Option #3 that is being considered by the Commission), we believe it is essential that catch and release fishing in this area be prohibited, to minimize the excessive predation upon released fish by marine mammals. We request that the Commission adopt regulations prohibiting catch and release fishing in this area for the upcoming 2014 season.

We typically do not comment on the management of other fisheries, unless we consider an issue to be a conservation concern. The unquantified, but obviously excessive loss of caught and released fish to marine mammal predation in the spit area is a conservation concern. This problem was most pronounced last year, when fish spent an unusual amount of time within the spit area, resulting in some anglers catching and releasing several dozen fish per day. While catch and release fishing in the presence of marine mammals has been a concern of the Tribe for the past couple decades, as noted in a white paper we presented to the Commission in 1996[1], the problem escalated far beyond acceptable levels during 2013.

As noted in the testimony and handout (attached) that was submitted to you on behalf of the Tribe on February 5, 2014, we are concerned that excessive mortality from marine mammal predation is associated with catch and release fishing in this area. Therefore, we recommend that all fish caught in this area be retained, and that catch and release fishing be prohibited. When our Fisheries Program Manager, Dave Hillemeier, recommended such a regulation at

[1] The following quote is from an issues paper the Yurok Tribe submitted to the Fish and Game Commission on March 6, 1996: "In addition to hooking mortality, a major concern the Yurok Tribe has with the catch and release fishery in the lower river is the mortality associated with sea lion and seal predation after fish are released. Over 300 seals and several sea lions were seen by Yurok Tribal net harvest monitors in the estuary while fish were being caught and released by sport fishermen.... "

the February 5th Commission meeting, it was noted by the Commission, and their attorneys, that such a regulation is within the bounds of the three options currently being considered by the Commission; i.e. such a regulation could be adopted for the 2014 fall season. At a subsequent meeting in Eureka, the Commission's Executive Director noted that the Commission may have been incorrect, however after the meeting he did acknowledge that such a regulation may be possible, but challenging, to implement this year. Our recommendation is that the Commission adopt language similar to the following for 2014 season:

Body of Water	Open Season and Special Regulations	Daily Bag Limit
Klamath River Spit (within 100 yards of the channel through the sand spit formed at the Klamath River mouth)	All Chinook salmon (regardless of size) captured must be harvested (i.e. no releasing Chinook salmon). Once the daily bag limit for Chinook is obtained, fishing must stop for the day.	"x" Chinook salmon (regardless of size)

Such a regulation would allow the fishery to continue, which is important to shore anglers as well as the local economy, while minimizing the excessive mortality associated with releasing fish in the presence of sea lions; a problem that undeniably needs to be addressed.

We had also recommended at your February 5th meeting (see attachment) that the Commission adopt a conservation closure at the mouth of Blue Creek, to provide thermal refuge for migrating adult salmon and steelhead, as well as to protect staging late-fall run Chinook salmon returning to Blue Creek. We learned at this meeting that we were making this proposal too late in your process for consideration in the 2014 regulations, and it did not fall within the bounds of other options already being considered. Therefore, we look forward to discussing this issue with the Commission as you are crafting regulations for 2015.

Finally, I would like to take this opportunity to invite the Commission to visit the Yurok Reservation to meet with the Yurok Tribal Council. Such a meeting would allow us to discuss issues of mutual concern in regard to the management of the Klamath River fishery. We would also welcome you for a boat ride on the Lower Klamath River to experience first-hand the beauty of our land, the fishery in progress, the spit area, and the area near Blue Creek where we are proposing a conservation closure. If you have any questions regarding this letter, or would like to schedule a meeting with our Council, please don't hesitate to contact myself or Dave Hillemeier (Fisheries Program Manager) at the address in the letterhead.

Sincerely,

Thomas O'Rourke, Chairman

Yurok Tribal Comments to the California Fish and Game Commission regarding Lower Klamath River Recreational Fishing Regulations

February 5, 2014

The following recommendations are submitted on behalf of the Yurok Tribe in regard recreational fishing regulations for the Lower Klamath River. We normally do not make recommendations regarding the management of other fisheries, unless there is a conservation concern, which is the basis for these recommendations. We recommend that catch and release fishing in the estuary of the Klamath River be prohibited due to the excessive predation by marine mammals on released fish. We also request that a conservation closure be implemented within the cold water refugia at the confluence and immediately downstream of Blue Creek (river mile 17), to provide thermal refuge for adult salmon and steelhead migrating up the Klamath River when ambient river temperatures are inhospitable; we also recommend a closure during late-September through November, when late-fall chinook are staging to enter Blue Creek, similar to the closures you currently have in place at the mouths of the Salmon, Scott, and Shasta Rivers.

The Yurok reservation is located on the Lower 44 miles of the Klamath River. The fishery resource of the Klamath River is integral to the Yurok way of life for subsistence, cultural, and economic purposes. We go to great lengths to manage our fishery for future generations and request that you do the same when managing Klamath fisheries. Both of these proposed conservation measures we are recommending are for in-river sport fishing that occurs within the boundaries of the Yurok Reservation and is managed under the authority of the California Fish and Wildlife Service.

Catch and Release Fishing in the Estuary of the Klamath River

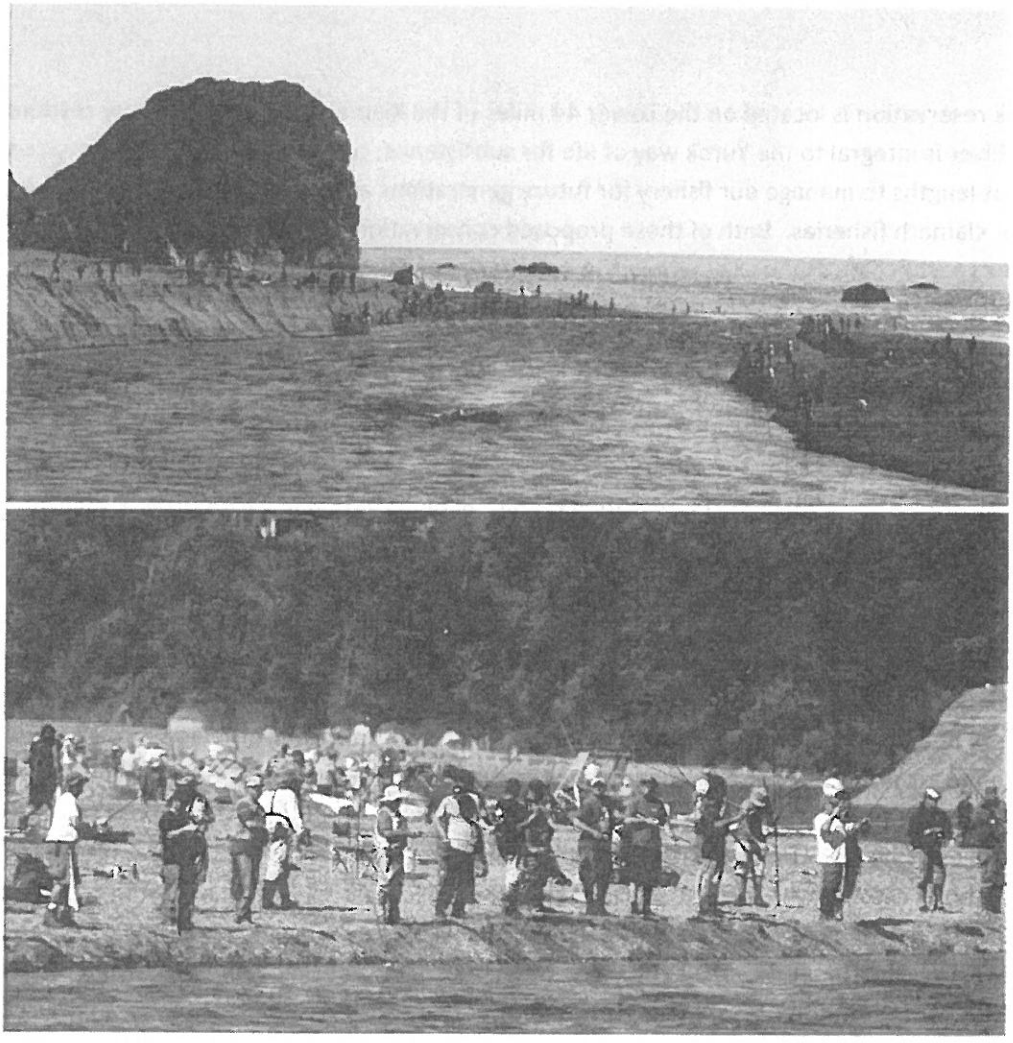
As you may be aware, hook and line fishing at the mouth of the Klamath river, in what is known as the "chute"(where the river meets the ocean), was extraordinary during the late summer of 2013. Due to apparent water quality conditions in the estuary, and the long chute that formed along the spit, the sand bar that separates the river from the ocean, adult salmon spent extended periods of time migrating up and down the chute, rather than entering the estuary. As a result, extremely large numbers of fish were caught by angling (typically by "lining" - a type of "snagging"). There were several problems that arose from this relatively unique situation, such as fish being buried and left in the sand, non-tribal anglers selling fish to Tribal members so they could then be sold in our commercial fishery (against the regulations for both fisheries); however, the worst problem from our perspective was one that has been around for years, fish being caught and released to the waiting sea lions and seals.

While fishermen are notorious for "fish stories", embellishments weren't necessary during the 2013 chute fishery, as catches were off the charts. Some anglers literally caught dozens of fish/day (some more than 60), for many days/weeks during the season. While such fishing is typically considered good, the chute fishery last year was a major conservation concern because most of these fish were released, in an exhausted condition, to a gauntlet of predatory seals and sea lions. Often times sport Fishers would catch their limit of three adults, and then continue fishing under the pretense of fishing for a jack

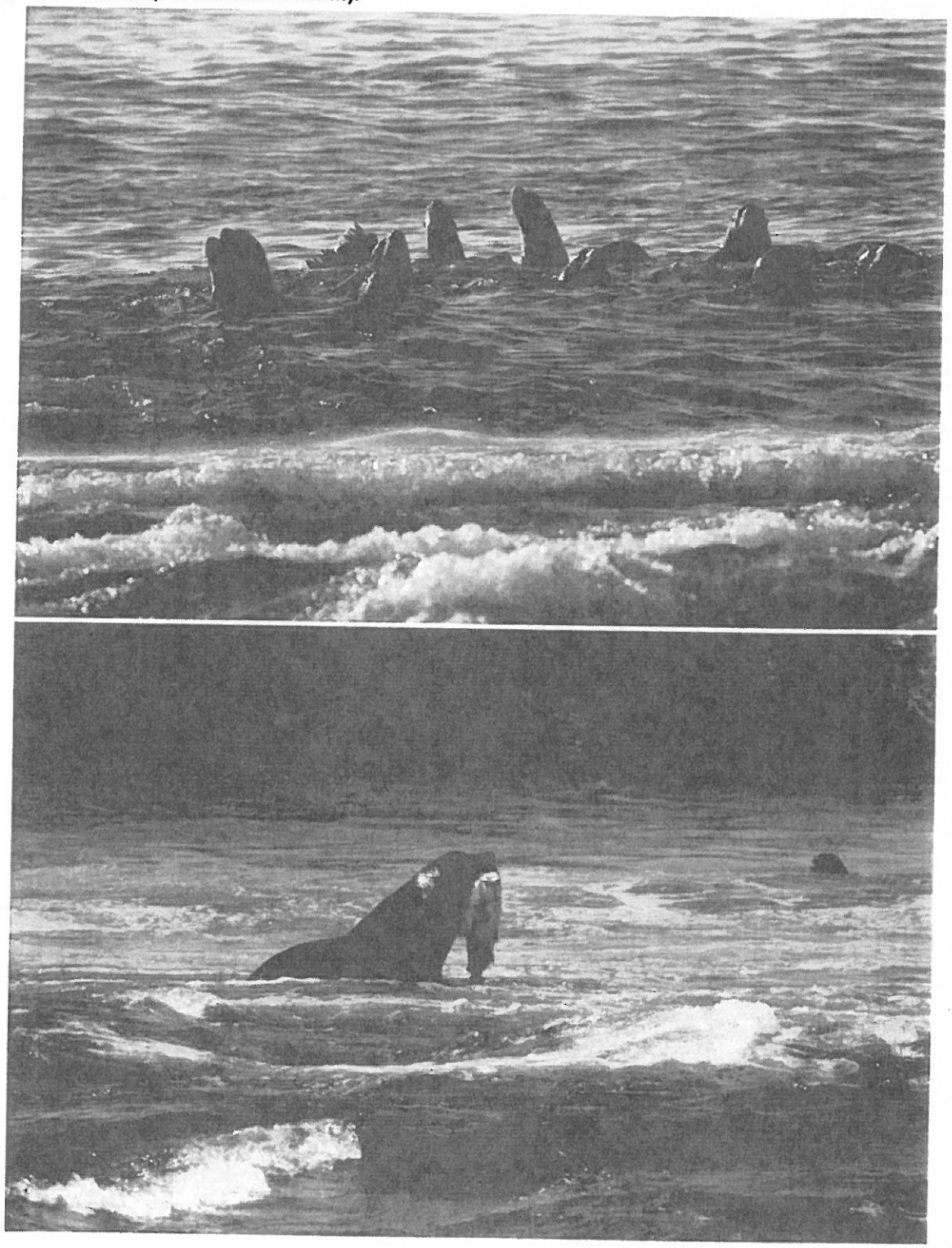
(or steelhead). All the fish that were caught while fishing for this jack had to be released, resulting in many exhausted fish being eaten by the seals and sea lions lined up near the bottom of the chute/surf interface.

We recommend, as we did back in 1996 to the Fish and Game Commission, that catch and release fishing not be allowed in the presence of marine mammals. While the problem was exacerbated in 2013 due to the relatively large number of fish that were caught, it is a problem any time that catch and release fishing occurs in the presence of pinnipeds. Any fish that are caught in the estuary should be harvested, not released to be eaten by sea lions/seals. We recommend that only "catch and keep" fishing occur in the estuary, or at least in the lower portion of the estuary (e.g. downstream of the Requa boat ramp).

Figures 1 and 2. Pictures of the fishery in the Klamath River "chute" during late summer, 2013 (photos courtesy of Thomas Dunklin).



Figures 3 and 4. Pinnipeds at the lower end of the Klamath River "chute" during the 2013 fishery (photos courtesy of Thomas Dunklin).



Blue Creek Refugia

The Yurok Tribe recommends the Fish and Game Commission adopt an additional conservation closure at the confluence and immediately downstream of Blue Creek (river mile 17). This conservation closure would serve two purposes: 1) during the summer months (mid-June through mid-September) it would provide thermal refugia for adult salmon (spring and fall Chinook) and steelhead that migrate up the Klamath River when ambient water temperatures are excessively warm, and 2) during mid-September through November, it would protect late-run fall chinook that are staging to enter Blue Creek during the fall months, similar to the closures that are currently in place at the mouths of the Salmon, Scott, and Shasta Rivers.

During the summer months, especially during years of low flow, water temperatures in the mainstem Klamath River often reach 73 - 79° F (Figure 5 – Yurok Tribal Fisheries Program data), well above the optimal migration range and near the acute lethal limit for adult Chinook salmon (Bell 1990, Strange 2010[1]). During these times, adult salmon and steelhead will stop migrating and hold in the cold water effluent from the mouth of Blue Creek to approximately ½ mile downstream, including "Blue Hole" which is along the bedrock outcropping just downstream of the confluence (Figure 7). During many low flow years, this area holds several hundred, up to a couple thousand, adult salmonids (steelhead and Chinook), that are escaping the intolerably warm Klamath River. These fish are basically on thermal life support.

We believe fish that make it to the thermal refugia should be allowed respite. It is inappropriate to harass (via hook and line) these fish at a time when they are so physiologically vulnerable. Furthermore, often these fish (steelhead and/or salmon) will be hooked while holding in the thermal refugia, but then played for an extended period of time in the ambient river conditions that are several degrees warmer (sometimes at lethal levels) to be eventually released. Forcing fish to go through such dramatic temperature changes, while putting them through excessive stress, is contrary to fish culture practices associated with rearing and/or releasing fish, and undoubtedly results in excessive mortality. We recommend that this thermal conservation closure extend from the mouth of Blue Creek to ½ mile downstream of the wetted channel of Blue Creek, the area where we've detected thermal refugia.

The second reason for the conservation closure at the mouth of Blue Creek is to protect the genetically unique adult late-fall run Chinook salmon that return to spawn from late October through December. These fish are known to hold in the confluence pool in the Klamath River until substantial rains stimulate their migration up Blue Creek. Blue Creek late-fall run Chinook are the stronghold of the Lower Klamath and likely the source population for other Lower Klamath Tributaries.

Blue Creek and other Lower Klamath (downstream of the Trinity River) late-fall run Chinook are genetically unique from other Klamath Basin stocks. The Klamath Basin chinook population upstream of

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[1] Bell, M.C. 1991. Fisheries Handbook of Engineering Requirements and Biological Criteria.
Strange, J.S. 2010. *Upper Thermal Limits to Migration in Adult Chinook Salmon: Evidence from the Klamath River Basin.* Transactions of the American Fisheries Society 139: 1091 – 1108.

the confluence of the Klamath and Trinity Rivers is part of the Upper Klamath-Trinity ESU, while the Lower Klamath River Chinook population, comprised primarily of fish from Blue Creek, is part of the California Coastal Chinook Salmon ESU. We request that fish holding in this area be given protection from harvest pressure similar to what is given to Chinook returning to the Salmon, Scott, and Shasta Rivers. California regulations currently provide the following protection for these stocks:

"No fishing is allowed from September 15 through December 31 in the Klamath River within 500 feet of the mouths of the Salmon, the Shasta and the Scott rivers."

Figure 5. Water temperature in the mainstem Klamath River above Blue Creek, June 1 – September 30, 2013.

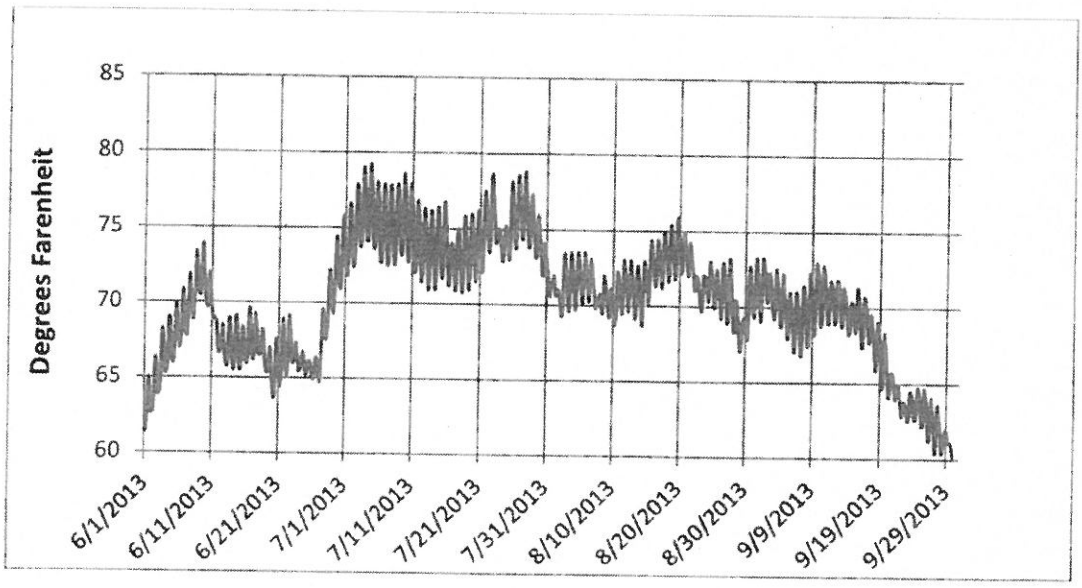
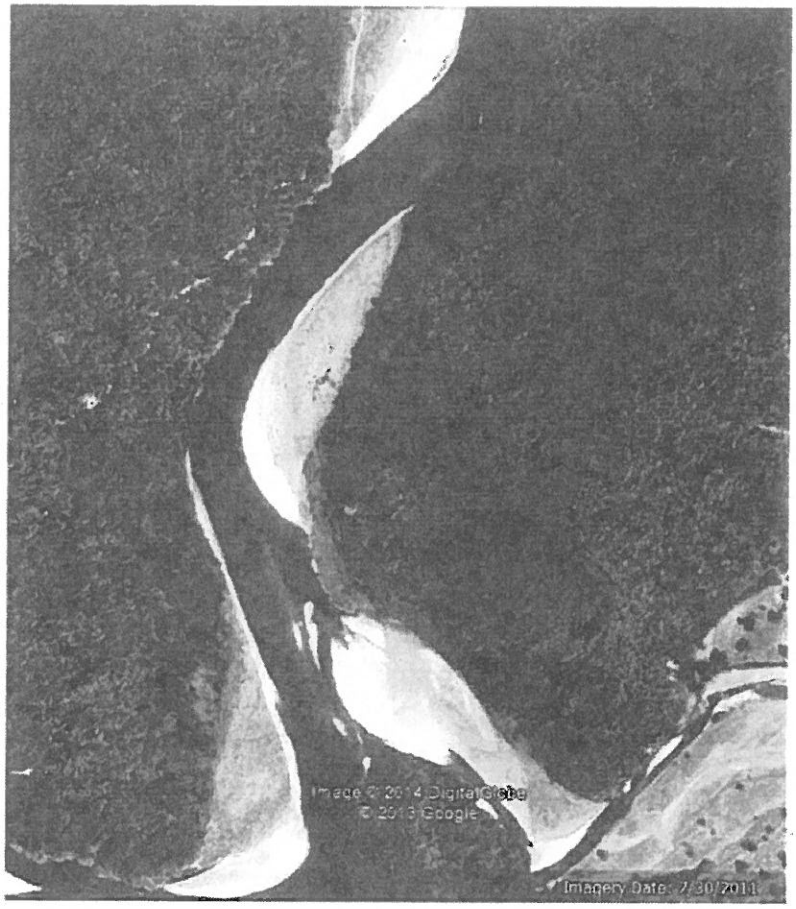


Figure 6. Blue Creek confluence and area of thermal influence (Google Earth, 7/30/2011)



FGC

From: Diane Bowers <dbowers@yuroktribe.nsn.us>
Sent: Thursday, November 20, 2014 1:24 PM
To: FGC
Cc: Dave Hillemeier
Subject: Lower Klamath river fishing regulations
Attachments: SKM_C654e14112014220.pdf

Submitted on behalf of the Yurok Tribe

From: Konica-MinoltaBizhubC-654e@yuroktribe.nsn.us [mailto:Konica-MinoltaBizhubC-654e@yuroktribe.nsn.us]
Sent: Wednesday, November 19, 2014 10:23 PM
To: Dave Hillemeier; Diane Bowers
Subject: Message from KM_C654e