**ITEM #26– WATERCOURSE LAKE PROTECTION ZONE (WLPZ) PROTECTION MEASURES**

|  **ITEM #26 WATERCOURSES** |
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| Per 14 CCR 916, 936, 956 – Intent of Watercourse and lake Protection [ALL DISTRICTS] – The purpose of this article is to ensure that timber operations do not potentially cause significant adverse site-specific and cumulative impacts to the beneficial uses of water, native aquatic and riparian-associated species, and the beneficial functions of riparian zones; or result in an unauthorized take of listed aquatic species; or threaten to cause violation of any applicable legal requirements. This article also provides protection measures for application in watersheds with listed anadromous salmonids and watersheds listed as water quality limited under Section 303(d) of the Federal Clean Water Act.It is the intent of the Board to restore, enhance, and maintain the productivity of timberlands while providing appropriate levels of consideration for the quality and beneficial uses of water relative to that productivity…. Further, it is the intent of the Board that the evaluations that are made, and the measures that are taken or prescribed, be documented in a manner that clearly and accurately represents those existing conditions and those measures. |
| 1. [[ ] ]Yes [[ ] ] No
 | Are there any watercourses or lakes classified as a CLASS I through CLASS IV within or adjacent to the plan area? *(Check all that apply)* |
|   | [[ ] ] Class I:[[ ] ] Class II:[[ ] ] Class III:[[ ] ] Class IV:[[ ] ] Lakes:[[ ] ] Other(Springs, Seeps) | Within plan area[[ ] ] [[ ] ] [[ ] ] [[ ] ] [[ ] ] [[ ] ]  | Adjacent to plan area[[ ] ] [[ ] ] [[ ] ] [[ ] ] [[ ] ] [[ ] ]  |

| **If YES, to above question list:** *(in table below)** Class of the water feature
* Associated WLPZ or ELZ and width
* Protection measures; determined from 14 CCR 916.5[936.5, 956.5], Table I. and/or 14 CCR 916.9[936.9, 956.9] et seq.
* Specify if Class III or IV watercourses will have a WLPZ or ELZ
 |
| --- |
| 1. [[ ] ]Yes [[ ] ] No
 | Will Class III or IV watercourses be protected with a WLPZ or ELZ?**If YES, describe below** |

| **LTO instructions:** |
| --- |

| **Watercourse description and protection measures to be applied:** (14 CCR 916.5) |
| --- |

| 1. [[ ] ]Yes [[ ] ] No
 | Is there any tractor road watercourse crossings that require mapping per 14 CCR 1034(x)(7) |
| --- | --- |
| [[ ] ]Yes [[ ] ] No | Will TRACTOR road watercourse crossings involve the use of a culvert?**If YES, per 14 CCR 914.8[934.8, 954.8](e) state the minimum diameter and length for each culvert.** |

| Map Reference Points (MRP) | Culver Diameter | Culvert Length |
| --- | --- | --- |
| - |  |  |
| - |  |  |
| - |  |  |

| 1. [[ ] ]Yes [[ ] ] No
 | Is there a Master Agreement for Timber Operations (MATO) for Streambed Alteration Agreement (SAA) approved by the Department of Fish and Wildlife for any portion of this plan?MATO or SSA Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**If YES, provide a list of the crossings, water drafting sites, or other water features to be used during operations and provide the conditions to be utilized and or consider from the MATO or SAA as operational instruction to the LTO in SECTION II.**  |
| --- | --- |
| **MATO or SAA INSTRUCTIONS TO LTO** |
| Specific water feature under MATO or SAA(crossings, drafting sites, etc.) | Conditions of MATO or SAA to be utilized at each specific feature |
| - |  |
| - |  |
| - |  |
| - |  |
| - |  |
| - |  |
|  |
| 1. [[ ] ]Yes [[ ] ] No
 | Is this NTMP Review Process to be used to meet Department of Fish and Wildlife CEQA review requirements?**If YES, attach the required 1611 Addendum at the end of SECTION II and include any supporting information and analysis in SECTION III.****List instructions to the LTO in SECTION II for installation, protection measures, and mitigation measures, per NTMP from instructions or CDF Mass Mailing (07/02/1999) “Fish and Game Code 1611 Agreements and NTMP Documentation.”** |
| **LTO INSTRUCTIONS:** |

| 1. [[ ] ]Yes [[ ] ] No
 | Are any exceptions provided under F & G code 1600 et seq. and made an enforceable part of plan? **If YES, per 14 CCR 923 [943,963](d) identify the exceptions and provide the enforceable standards as instructions to the LTO in SECTION II.** |
| --- | --- |

| 1. [[ ] ]Yes [[ ] ] No
 | Will new drainage structures and facilities on watercourses that support fish or listed aquatic species be constructed?**If YES, per 14 CCR 914.8[934.8, 954.8](c) and 923.9 [943.9, 963.9](c). Structures and facilities shall be fully described and allow unrestricted passage and natural movement of bedload. Provide operational instructions to the LTO in SECTION II.** |
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**A table has been provided (next page) to assist with listing your information. This table is consistent with the table provided within the online submission NTMP in CalTREES. Use of this table is optional.**

| **MAP POINT / REFERENCE TABLE** |
| --- |
| **Map point / reference** | **Watercourse Class / feature** | **Existing culvert****(Diameter size OR other drainage structure)** | **Proposed culvert****(Diameter size or other drainage structure)** | **CDFW 1600****requested** | **Implementation priority****(high, medium, low)** |
|  | **-** |  |  |  |  |
|  | Site Description: |
|  | Mitigation measures: |
|  | **-** |  |  |  |  |
|  | Site Description: |
|  | Mitigation measures: |
|  | **-** |  |  |  |  |
|  | Site Description: |
|  | Mitigation measures: |
|  | **-** |  |  |  |  |
|  | Site Description: |
|  | Mitigation measures: |
|  | **-** |  |  |  |  |
|  | Site Description: |
|  | Mitigation measures: |

**Implementation Priority:**

* **High – Mitigation completed the 1st year after NTMP approval**
* **Medium – Mitigation completed concurrently with operations which affect the site.**
* **Low – Mitigation completed prior to the final completion of the NTMP**

| Per 14 CCR 1090.5(w)(7) – The location of all EXISTING and NEW permanent constructed and reconstructed, and temporary logging road watercourse crossings, including those crossings to be abandoned or deactivated, SHALL be shown on a map. If the structure is a culvert intended for permanent use, the minimum diameter of the culvert and the method(s) used to determine the culvert diameter SHALL be specified in the plan, |
| --- |
| 1. [[ ] ]Yes [[ ] ] No
 | Are there any EXISTING logging road watercourse crossings requiring mapping |
| [[ ] ]Yes [[ ] ] No | Are there any NEW PERMANENT constructed logging road watercourse crossings requiring mapping? |
| [[ ] ]Yes [[ ] ] No | Are there any NEW RECONSTRUCTED logging road watercourse crossings requiring mapping? |
| [[ ] ]Yes [[ ] ] No | Are there any watercourse crossings to be ABANDONED or DEACTIVATED? |
|  | **If YES, to the above questions these crossing shall be shown on a map in section II per 14 CCR 1090.5(gg)** |
|  | **If any watercourse crossing has a culvert intended for permanent use, identify the method(s) used to determine culvert diameter and state the size for each culvert.*****(SIZE CAN BE STATED IN THE TABLE LISTED UNDER ITEM 25, f above)*** |
|  | Method for sizing culvert: |
| 1. [[ ] ]Yes [[ ] ] No
 | Is there any exception to flagging or otherwise identifying the location of any constructed or reconstructed road watercourse crossing prior to the pre-harvest inspection?**If YES, per 14 CCR 923.9[943.9, 963.9](j) provide the explanation and justification in SECTION III.** |
| 1. [[ ] ]Yes [[ ] ] No
 | Will other methods for diversion of overflow at culver crossings be utilized (other than critical dips) in the construction or reconstruction of logging road watercourse crossings which culverts?**If YES, per 14 CCR 923.9[943.9, 963.9](j) provide instructions to the LTO in SECTION II identifying the methods to be used for the diversion of overflow at watercourse crossings.** |
| Per 14 CCR 923.9[943.9, 963.9](k) watercourse crossings and associated fills and approaches SHALL be constructed and maintained to prevent diversion of stream overflow down the road, and to minimize fill erosion should the drainage structure become obstructed. |
| 1. [[ ] ]Yes [[ ] ] No
 | Are there any existing watercourse crossings that are located on logging roads within the logging area? |
| [[ ] ]Yes [[ ] ] No | Are there any watercourse crossing proposed for construction located on logging roads within the logging area? |
|  | **If YES, per 14 CCR 923.9[943.9, 963.9](k) identify the crossing and provide the methods to mitigate or address the diversion of stream overflow at the crossing.** |
| 1. [[ ] ]Yes [[ ] ] No
 | Will rock be used to stabilize crossing outlets?**If YES, per 14 CCR 923.9[943.9, 963.9](k) Rock used to stabilize outlets of crossings shall be adequately sized to resist mobilization of soil and significant sediment discharge. The range of rock size shall be described within the plan as instruction to the LTO in SECTION II indicate the range of the rock dimensions to be used.** |

| Watercourses CONT. |
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| 1. [[ ] ]Yes [[ ] ] No
 | Watercourse crossing proposed to be reconstructed or removed are there any significant volumes of sediment accumulated upstream of the watercourse crossing?**If, YES per 14 CCR 923.9[943.9, 963.9](n) provide instructions to the LTO, in SECTION II, describing how the material will be stabilized, removed (the extent feasible), and in conformance with CDFW agreements, where applicable.** |
| 1. [[ ] ]Yes [[ ] ] No
 | Do logging road watercourse crossing drainage structures and other erosion control features have I high historical fail rate within the project area? |
| [[ ] ]Yes [[ ] ] No | Do/will existing watercourse crossings utilizing a culvert have large amounts of fill material covering the culvert making up the crossing?  |
|  | **If, YES per 14 CCR 923.9[943.9,963.9](o) drainage structures and erosion control features shall be oversized, designed for low maintenance, reinforced, or removed before the completion of timber operations or as specified in the approved plan.****Provide instruction to the LTO in SECTION II identifying these crossings, providing instruction of how these crossings will be treated.** |
| **Guidance on reducing the potential for failure at high risk watercourse crossings may be found in “Board of Forestry Technical Rule Addendum Number 5: Guidance on Hydrologic Disconnection, Road Drainage, Minimization of Diversion Potential, and High Risk crossings” (1st Edition, revised 10/27/14)** |
| 1. [[ ] ]Yes [[ ] ] No
 | Will any logging road watercourse crossing be removed?**If YES, provide instructions to the LTO, in SECTION II, describing the removal plan pursuant to the standards per 14 CCR 923.9[943.9, 963.9](p)(1)-(4)** |

| **FOR PLANS LOCATED WITHIN AN ASP WATERSHED** |
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| 1. [[ ] ]Yes [[ ] ] No
 | Will timber operations occur within a class I WLPZ?  |
| [[ ] ]Yes [[ ] ] No | Will timber operations occur within a WLPZ adjacent to a restorable Class I watercourse? |
|  | **If YES, Address per 14 CCR 916.9[936.9, 956.9](f)(2)(A)-(E).** |
| Per 14 CCR 916.9[936.9, 956.9](e)(1)(A)-(E) there shall be NO timber operations within a channel zone with the exception of those conditions listed within 916.9[936.9, 956.9](e)(1)(A)-(E)  |
| 1. [[ ] ]Yes [[ ] ] No
 | Will there be any timber operations within the channel zone of any watercourse?**If YES, Indicted the location and type of timber operations to be conducted and provide instructions to the LTO in SECTION II.** |
| Per 14 CCR 923.1[943.1, 963.1](h) NO logging road(s) or landing(s) shall be planned for construction or reconstruction in the CMZ or Core Zone of a Class I watercourse or within 150 feet of a watercourse transition line. with the exception of those conditions listed within 916.9[936.9, 956.9](e)(1)(A)-(E) and 916.9[936.9, 956.9](v) |
| [[ ] ]Yes [[ ] ] No | Will there be any logging road(s) or landing(s) constructed in the CMZ or Core Zone of a Class I? |
|  | **If Yes, indicate the location and provide instructions to the LTO in SECTION II.** |
| Per 14 CCR 923.9[943.9, 963.9](d) Watersheds with listed anadromous salmonids. A description of all existing permanent Class I watercourse crossings shall be provided, where fish are always or seasonally present or fish passage is restorable. |
| 1. [[ ] ]Yes [[ ] ] No
 | Are there existing permanent Class I crossings where fish are always present? |
| [[ ] ]Yes [[ ] ] No | Are there existing permanent Class I crossings where fish are seasonally present? |
| [[ ] ]Yes [[ ] ] No | Are there existing permanent Class I crossings where fish passage is restorable? |
|  | **If YES, provide a description of the existing permanent Class I watercourse crossings. Indicate in the description where the current crossing conditions may be adversely affecting fish passage and identify the proposed measures, if feasible, to address the conditions.** |
| 1. [[ ] ]Yes [[ ] ] No
 | Will water drafting occur in association with the timber operations? |
|  | If YES, timber operations shall comply with Fish and Game Code Section 1600, et seq. |
| 1. [[ ] ]Yes [[ ] ] No
 | Is there a Fish and Game Code Section 1600 Mater Agreement for Timber Operations which addresses water drafting? **If YES, provide the operational restrictions from the Master Agreement in SECTION II as instructions to the LTO.****If NO, describe the water drafting site conditions and proposed water drafting activity in the plan. Per 14 CCR 923.7[943.7, 963.7](I)(2)(A)-(F) *(See Below)*** |

| Per 14 CCR 923.7[943.7, 963.7](I)(2)(A)-(F) the description of water drafting site conditions and proposed water drafting activity shall include: |
| --- |
| General description of proposed site: |
| Watercourse Classification: |
| Drafting parameters including: |
|  | Month(s) of use -  |
|  | Estimated volume needed per day -  |
|  | Estimated maximum instantaneous drafting rate and filling time -  |
|  | Other water drafting activities in same watershed -  |
| Drainage area (acres) above point of diversion -  |
| Estimated: |
|  | Unimpeded stream flow -  |
|  | Pumping rate -  |
|  | Drafting duration - |
| A discussion of the effects on aquatic habitat downstream from the drafting site(s) of single pumping operations, or multiple operations at the same location, and at other locations in the same watershed:  |