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

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| **Watercourses** | | | | | | |
| The intent of Watercourse and lake Protection 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.  [ref. 14 CCR § 916 [936, 956]] | | | | | | |
| 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:  Spring:  Seep:  Wet Meadow:  Meadow | | | Within Plan area | Adjacent to Plan area | |
| **If ”Yes” to above question:**   * Include class of the water feature. * What is the associated WLPZ or ELZ and width. * Provide Watercourse description and protection measures; [ref. 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. * Map the location of Watercourses and lakes with Class I, II, III, or IV waters. [ref. 1034(x)(9)] | | | | | | |
| 1. []Yes []No | Are there Class III or IV watercourses to be protected with a WLPZ or ELZ?  **If “Yes” describe and provide LTO instructions in SECTION II. [ref. 14 CCR 916.4 [936.4, 956.4](c)]** | | | | | |
| Watercourse descriptions, protection measures, and LTO instructions: | | | | | | |
| **c1.** []Yes []No | | Is there any tractor road watercourse crossings that require mapping? [ref. 14 CCR § 1034(x)(7)] | | | | |
| **c2.** []Yes []No | | Will tractor road watercourse crossings involve the use of a culvert?  **If “Yes” state the minimum diameter and length for each culvert. [ref. 14 CCR § 914.8 [934.8, 954.8](e)]** | | | | |
| Map Reference Points (MRP) | | | Culvert Diameter | | | Culvert Length |
| A | | |  | | |  |
| A | | |  | | |  |
| A | | |  | | |  |
|  | | |  | | |  |
|  | | |  | | |  |
| **d.** []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 including the conditions of the MATO or SAA as operational instructions 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 | | | | |
| a | |  | | | | |
| A | |  | | | | |
| A | |  | | | | |
| A | |  | | | | |
| A | |  | | | | |
|  | | | | | | |
| **e.** []Yes []No | | Is this THP 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.**  **NOTE: List instructions to the LTO in SECTION II for installation and protection measures per THP from instructions or CDF Mass Mailing (07/02/1999) “Fish and Game Code 1611 Agreements and THP Documentation.”** | | | | |
| **LTO Instructions:** | | | | | | |
| 1. []Yes []No | Are any exceptions provided under Fish & Game code 1600 et seq., and made an enforceable part of the Plan?  **If “Yes” identify the exceptions and provide the enforceable standards as instructions to the LTO in SECTION II. [ref. 14 CCR § 923 [943, 963](d)]** | | | | | |
| 1. []Yes []No | Will new drainage structures and facilities on watercourses that support fish or listed aquatic species be constructed?  **If “Yes” structures and facilities shall be fully described and allow unrestricted passage of all life stages of fish or listed aquatic species, and natural movement of bedload. Provide operational instructions to the LTO in SECTION II. [ref. 14 CCR §§ 914.8 [934.8, 954.8](c) & 923.9 [943.9, 963.9](c)]** | | | | | | |

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| **Watercourse Crossings** | |
| The location of all 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. [ref. 14 CCR § 923.9 [943.9, 963.9](e)] | |
| **h1.** []Yes []No | Are there any new permanentconstructed logging road watercourse crossings requiring mapping? |
| **h2.** []Yes []No | Are there any new reconstructedlogging road watercourse crossings requiring mapping? |
| **If “Yes” to either of the above crossing questions provide the method used for sizing crossing:**  **NOTE: Permanent watercourse crossings that are constructed or reconstructed shall accommodate the estimated 100-year flood flow, including debris and sediment loads. [ref. 14 CCR § 923.9(f)]** | |
| **h3.** []Yes []No | Are there any watercourse crossings to be abandoned or deactivated? |
| 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” provide the explanation and justification in SECTION III. [ref. 14 CCR § 923.9 [943.9, 963.9](e)(1)]** |
| 1. []Yes []No | Will other methods for diversion of overflow at culvert crossings be utilized (other than critical dips) in the construction or reconstruction of logging road watercourse crossings which culverts?  **If “Yes” provide instructions to the LTO in SECTION II identifying the methods to be used for the diversion of overflow at watercourse crossings. [ref. 14 CCR § 923.9 [943.9, 963.9](j)]** |
| 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. [ref. 14 CCR § 923.9[943.9, 963.9](k)] | |
| **k1.** []Yes []No | Are there any existing watercourse crossings that are located on logging roads within the logging area? |
| **k2.** []Yes []No | Are there any watercourse crossing proposed for construction located on logging roads within the logging area?  **If “Yes” identify the crossing and provide the methods to mitigate or address the diversion of stream overflow at the crossing. [ref. 14 CCR § 923.9 [943.9, 963.9](k)]** |
| **l.** []Yes []No | Will rock be used to stabilize crossing outlets?  **If “Yes” 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, describe the range of the rock dimensions to be used. [ref. 14 CCR § 923.9 [943.9, 963.9](l)]** |
| **m.** []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” provide instructions to the LTO, in SECTION II, describing how the material will be stabilized, removed (to the extent feasible), and in conformance with CDFW agreements, where applicable. [ref. 14 CCR § 923.9 [943.9, 963.9](n)]** |
| **n1.** []Yes []No | Do logging road watercourse crossing drainage structures and other erosion control features have a high historical fail rate within the project area? |
| **n2.** []Yes []No | Do or will existing watercourse crossings utilizing a culvert have large amounts of fill material covering the culvert making up the crossing?  **If “Yes” 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. [ref. 14 CCR § 923.9 [943.9,963.9](o)]**  **NOTE: Provide instruction to the LTO in SECTION II identifying these crossings and how they 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 4/21/15).** | |
| **o.** []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).** |

| **Plans Located Within an ASP Watershed** | |
| --- | --- |
| **p1.** []Yes []No | Will timber operations occur within a class I WLPZ? |
| **p2.** []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).** |
| There shall be no timber operations within a channel zone with the exception of those conditions listed within 14 CCR § 916.9 [936.9, 956.9](e)(1)(A)-(E). | |
| **q1.** []Yes []No | Will there be any timber operations within the channel zone of any watercourse?  **If “Yes” identify the location and type of timber operations to be conducted and provide instructions to the LTO in SECTION II.** |
| There shall be no logging road(s) or landing(s) 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 14 CCR § 916.9 [936.9, 956.9](e)(1)(A)-(E) & 916.9 [936.9, 956.9](v). [ref. 14 CCR § 923.1 [943.1, 963.1](h)] | |
| **q2.** []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” identify the location and provide instructions to the LTO in SECTION II.** |
| For ASP Watersheds, 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. [ref. 14 CCR § 923.9 [943.9, 963.9](d)] | |
| **r1.** []Yes []No | Are there existing permanent Class I crossings where fish are always present? |
| **r2.** []Yes []No | Are there existing permanent Class I crossings where fish are seasonally present? |
| **r3.** []Yes []No | Are there existing permanent Class I crossings where fish passage is restorable? |
| **If “Yes” to any of the above crossing questions, provide a description of the existing permanent Class I watercourse crossings. Include where the current crossing conditions may be adversely affecting fish passage and identify the proposed measures, if feasible, to address the conditions.** | |
| **s.** []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.** |
| **t.** []Yes []No | Is there a Fish and Game Code Section 1600 Master 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)-(G).** |