California Environmental Quality Act (CEQA)

INITIAL STUDY

and Mitigated Negative Declaration

for

Waiver of Waste Discharge Requirements and General Water Quality Certification for Road Management and Activities Conducted Under the Five Counties Salmonid Conservation Program in the North Coast Region

March 17, 2018

California Regional Water Quality Control Board, North Coast Region

5550 Skylane Blvd. Santa Rosa, CA 95403

Prepared By: California Regional Water Quality Control Board, North Coast Region

> *Contact:* Maggie Robinson, (707) 576-2292 Maggie.Robinson@waterboards.ca.gov

CEQA ENVIRONMENTAL CHECKLIST

PROJECT DESCRIPTION AND BACKGROUND

1. **Project Title:**

Waiver of Waste Discharge Requirements and General Water Quality Certification for Road Management and Activities Conducted Under the Five Counties Salmonid Conservation Program in the North Coast Region, Order No. R1-2018-0011 (Attachment A).

Lead agency name and address: California Regional Water Quality Control Board, North Coast Region 5550 Skylane Blvd., Suite A Santa Rosa, CA 95403

3. **Preparer and phone number:** Maggie Robinson, (707) 576-2292

4. **Project location**:

North Coast region (Figure 1), which includes all of Mendocino, Humboldt, and Del Norte Counties, and portions of Trinity, Siskiyou, Modoc, Glenn, Lake, Sonoma, and Marin Counties, and comprises all basins including Lower Klamath Lake and Lost River Basins draining into the Pacific Ocean from the California-Oregon state line southerly to the southerly boundary of the watershed of the Estero de San Antonio and Stemple Creek in Marin and Sonoma Counties.

5. **Project sponsor's name and address:**

California Regional Water Quality Control Board, North Coast Region 5550 Skylane Blvd., Suite A Santa Rosa, CA 95403 Attn: Maggie Robinson

6. Brief Description of Project:

The project is the issuance of a Waiver of Waste Discharge Requirements and General 401 Water Quality Certification for road management and activities conducted under the Five Counties Salmonid Conservation Program (5C Program) in the North Coast Region. Counties and other dischargers are responsible for conducting routine and emergency repair and maintenance of county roads, rural roads, and related facilities, including bridges and road maintenance yards, and snow and ice removal. These activities have the potential to discharge wastes that affect waters of the state. In addition, Counties and other dischargers are responsible for discharges of waste from controllable sediment discharge sites (CSDS) associated with their road networks. CSDS are existing sites that are 1) actively discharging or have the potential to discharge sediment in violation of water quality requirements; 2) are caused or affected by human activity; and 3) may feasibly and reasonably respond to erosion control/management measures. The 5C Program provides an efficient and organized structure for preventing and mitigating water quality impacts from road activities conducted by counties and other dischargers, and, also implements important restoration projects in the North Coast Region. Activities that are covered are:

- a) Road maintenance, including grading practices (shoulder blading and rebuilding, erosion repair, ditch shaping and cleaning, channel maintenance), road surfacing and dust abatement (road surface repair, dust abatement, water drafting, low water crossing maintenance), vegetation management (mowing and cutting of vegetation, invasive weed abatement, tree removal), and winterizing roads.
- b) Culvert maintenance, including culvert cleaning, culvert improvement and repair, culvert sizing, culvert replacement, ditch relief culvert location selection and installation, and temporary stream diversions during instream projects.
- c) Soil disposal, including site selection for spoil disposal, disposal site maintenance, disposal site closure, and stockpile maintenance.
- d) Maintenance yard management, including facility housekeeping practices, building and grounds maintenance, vehicle and equipment maintenance (vehicle fueling, vehicle and equipment maintenance and repair, pressure washing of vehicles and equipment, and care and feeding of oil/water separators), and material use and storage (waste minimization, handling and disposal; used oil recycling; storage of hazardous materials; outdoor storage of raw materials; outdoor loading/unloading of materials; above ground tank leak and spill control; safer alternative products).
- e) Bridge maintenance, including bridge vegetation management, and bridge drift removal. Bridge painting and cleaning are not included in this activity.
- f) Emergency maintenance, including slide and settlement repair, and accident cleanup.
- g) Snow and ice removal, including sanding, de-icing, and anti-icing chemicals.
- h) Treatment of CSDS, including upgrading of stream crossings, road outsloping and rolling dip installation where safe and suitable, installing ditch relief culverts and overside drains, removing berms, armoring unstable areas, reshaping cutbanks, and rocking native-surfaced roads.

Most of the potential impacts from the above-listed activities are associated with erosion and sediment delivery and/or changes to riparian systems that may reduce shade and affect water temperatures, and chemical discharges from maintenance yards and snow and ice removal. The Order does not cover new permanent impacts to

waters of the state that result in a permanent loss of waters or loss of functions and values, and would consequently require compensatory mitigation to replace lost waters/functions and values. It does cover temporary impacts.

The Order contains conditions that rely on the implementation of the 5C Program. The primary components include: 1) prevention and minimization of water quality impacts from road maintenance activities through implementation of the *Water Quality and Stream Habitat Protection Manual for County Road Maintenance in Northwestern California* (5C Roads Manual); 2) inventory, prioritization, and scheduling for remediation of sediment delivery sites using the Direct Inventory of Roads and Treatments (DIRT) methodology; and 3) monitoring and reporting requirements, including adaptive management to ensure that lessons learned are translated into modified practices. The 5C Waiver streamlines the application process for projects conducted as part of the 5C Program by providing CEQA analysis for all projects eligible for coverage and a simplified application procedure for coverage under a general 401 Certification that is included as part of the Order.

Five Counties Salmonid Conservation Program Description

The counties of Mendocino, Humboldt, Del Norte, Siskiyou, and Trinity (collectively referred to as the 5C Counties) entered into a cooperative effort beginning in 1997 to address the listing of coho salmon as a threatened species under the federal Endangered Species Act (ESA). The effort resulted in the development of the 5C Program, committed to a long-term, systematic, prioritization-based restoration to improve water quality and salmonid habitat. An important element of the 5C program is long term reduction of sediment discharges from roads to watercourses utilized by salmonids and to restore salmonid habitat connectivity.

The 5C Roads Manual was developed in 2002 as an implementation tool for the 5C Program. The overall goals of the 5C Roads Manual include: prevent and minimize delivery of sediment and chemicals to streams, protect aquatic and riparian habitat, and restore hydrologic connectivity where feasible. The ten principles for treating roads, as listed in the 5C Roads Manual, reiterate the need to prevent erosion and sediment delivery to streams, and to protect streamside vegetation, recognizing the value of shade canopy to cool stream temperatures.

The 5C Roads Manual covers best management practices (BMPs) for the routine and emergency repair and maintenance of roads and related facilities, such as bridges and road maintenance yards, including the replacement of existing structures with different types of structures. Road maintenance includes actions taken to prevent erosion and/or the deterioration of a roadway, such as the cut bank, road surface, fill-slope, and all drainage structures. These actions may include road surface grading, rocking, or paving; culvert clearing, repair, or replacements; bridge repair and painting; inboard ditch clearing and hydrologic disconnection; cut bank slope failure and landslide repair. The 5C Roads Manual includes management measures for activities to protect the traveling public, such as snow and ice removal. The 5C Roads Manual describes categories of maintenance activities and recommended BMPs, including management of temporary and permanent soil stockpile locations, and retention of riparian vegetation near watercourses, aimed at reducing environmental degradation from sediment delivery to streams, and minimizing the potential for adverse effects.

The 5C Roads Manual includes considerations for minimizing disturbance of riparian areas and maintaining shade. Shade trees along streams and rivers are to be maintained unless they are determined to be a hazard. Any removal of trees providing shade or bank stabilization requires coordination with multiple agencies.

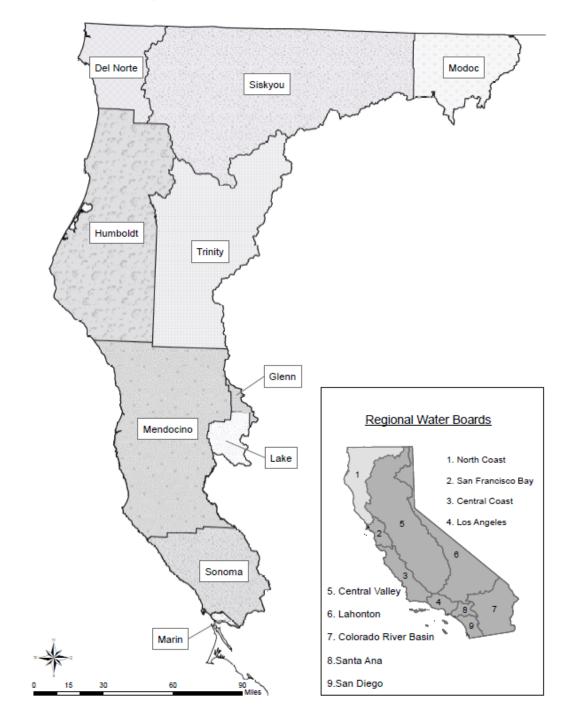
A major component of the 5C Program is a road inventory method known as the Direct Inventory of Roads and Treatments (DIRT). The DIRT component provides a methodology to assess road related erosion sources from existing roads and drainage structures, identify road stream crossings that are barriers to fish passage, locate suitable soil spoils sites, recommend treatments of identified sediment sites, and begin to prioritize the inventoried sites by treatment immediacy and other criteria, including the erosion potential and total sediment delivery volume. Individual counties, other dischargers, and 5C Program staff may modify initial DIRT prioritizations when developing implementation projects. Additional factors include a cost-benefit analysis of prescribed treatments, biological considerations including watershed priority and anticipated benefits to salmonid populations; and management considerations such as capital improvement schedules and funding availability. The implementation approach to DIRT recommended treatments is developed by each individual County, or other discharger, depending on their economic and other available resources.

The 5C Roads Manual includes a training program for road crews, supervisors, engineers, and managers, and a monitoring program to evaluate and document the effectiveness of the BMPs in protecting, maintaining, and enhancing water quality and stream habitat, especially for listed species of salmonids. The manual describes selective self-monitoring of the implementation and effectiveness of BMPs with suggested methods for carrying out both types of monitoring. Recommendations are included for adaptive management every five years to evaluate and update the manual's BMPs, based upon the monitoring results. The monitoring provisions of the 5C Program also specify the development of an annual report by January of each year to summarize implementation and effectiveness monitoring results.

7. Surrounding land uses and setting:

The North Coast Region (Figure 1), which comprises all watersheds, including Lower Klamath Lake and Lost River Basins, draining into the Pacific Ocean from the California-Oregon state line on the north, and the boundary of the watershed of the Estero de San Antonio and Stemple Creek in Marin and Sonoma Counties to the south. The North Coast Region encompasses a total area of approximately 19,390 square miles, including 340 miles of scenic coastline and remote wilderness areas, as well as urbanized and agricultural areas; and contains over 6,000 miles of county and rural roads and over 16,600 culverts (including ditch relief culverts).

The North Coast Region is characterized by distinct temperature zones. Along the coast, the climate is moderate and foggy and the temperature variation is not great. For example, at Eureka, the seasonal variation in temperature has not exceeded



North Coast Regional Water Quality Control Board Counties

Figure 1. Area Map of North Coast Region

63°F for the period of record. Inland, however, seasonal temperature ranges in excess of 100°F have been recorded. Precipitation over the North Coast Region is

greater than for any other part of California, and damaging floods are a fairly frequent hazard.

Ample precipitation in combination with the mild climate found over most of the North Coast Region has provided a wealth of fish, wildlife, and scenic resources. The mountainous nature of the Region, with its dense coniferous forests interspersed with grassy or chaparral covered slopes, provides shelter and food for deer, elk, bear, mountain lion, furbearers and many upland bird and mammal species. The numerous streams and rivers of the Region contain anadromous fish, and the reservoirs, although few in number, support both cold water and warm water fish.

Land use in the North Coast Region includes rangeland grazing, recreation, gravel mining, timber harvest, irrigated agriculture, open space, and urban uses.

8. **Other public agencies whose approval is required:**

County roads are maintained by County agencies such as a Department of Public Works, Department of Transportation, or Roads Department. Most County roads have existed in their present location for many years, some for over a century, and in most cases prior to the existence of CEQA (1970).

This project does not preclude the need for persons/programs conducting road maintenance activities to obtain permits which may be required by other local, state and federal governmental agencies. Section 1602 of the California Fish and Game Code (CFGC) requires any person, state or local governmental agency, or public utility to notify California Department of Fish and Wildlife (CDFW) before beginning any activity that will substantially modify a river, stream or lake. State and local agencies with approval authority over county road, rural road, and/or 5C projects covered under the Order may need to prepare project specific CEQA documentation to address project design and associated impacts that are outside the scope of the Order.

The US Army Corps of Engineers (ACOE) may require a Clean Water Act Section 404 permit if projects are within jurisdictional waters of the United States. In 2007 the National Marine Fisheries Service (NMFS) incorporated the 5C Roads Manual activities conducted within the Southern Oregon/Northern California Coast (SONCC) Recovery Domain under incidental take coverage set forth in Limit 10 of Section 4(d) of the Federal Endangered Species Act. Counties and other non-county dischargers implementing 5C Manual activities outside of the SONCC Recovery Domain are responsible for ESA compliance and must seek any necessary approvals (i.e. 4(d) exemption) from the NMFS. We are not aware of any other public agency required to approve road maintenance projects that fall under this Order.

9. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, has consultation begun? Note: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21083.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.

The Regional Water Board satisfied its obligation to address tribal cultural resources under the notification and consultation provisions of Public Resources Code – Assembly Bill 52 (Gatto). Tribes on the SWRCB Consultation List were contacted in November 2017. No tribes requested consultation.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project. Please see the checklist beginning on page 3 for additional information.

	Aesthetics		Agriculture and	\square	Air Quality
			Forestry		
\square	Biological Resources	\boxtimes	Cultural Resources	\boxtimes	Geology/Soils
	Greenhouse Gas		Hazards and Hazardous	\boxtimes	Hydrology/Water
	Emissions		Materials		Quality
\square	Land Use/Planning		Mineral Resources	\boxtimes	Noise
	Population/Housing		Public Services		Recreation
\square	Transportation/Traffic		Utilities/Service	\boxtimes	Tribal Cultural
			Systems		Resources

DISCUSSION OF POTENTIAL EFFECTS OF PROPOSED PROJECT

CEQA requires a lead agency to prepare an Initial Study to determine whether a project may have a significant effect on the environment. (Cal. Code Regs., tit. 14, § 15063, subd.(a).) A "significant effect on the environment" means a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project, including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic significance. (Cal. Code Regs., tit.14, § 15382.) If the Initial Study does not show that there is substantial evidence, in light of the whole record before the agency, that a project may have a significant effect on the environment, a Negative Declaration may be prepared. If the Initial

Study identifies potentially significant effects, but identifies revisions or conditions to mitigate the effects to a point where clearly no significant effects would occur, a mitigated negative declaration may be prepared. (Cal. Code Regs., tit.14, § 15070.)

CEQA ENVIRONMENTAL CHECKLIST

I. AESTHETICS: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista				\square
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway				
c) Substantially degrade the existing visual character or quality of the site and its surroundings?				
d) Create a new source of substantial light or glare which would adversely affect day or				\square

nighttime views in the area?

This regulatory action is for the 5C Program which only covers existing roads, and should not result in any significant effect on aesthetics from existing facilities. There may be an improvement in aesthetics as a result of better road right-of-way maintenance. Adoption of this Order will not result in a material change in the scope or pace of maintenance activities. New road construction is not covered by this Order, so it largely encompasses routine maintenance of existing facilities. The proposed project would not create a new source of substantial light or glare, which would adversely affect day or nighttime views; therefore, the appropriate finding is **no impact**.

II. AGRICULTURE AND FOREST RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead

agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non- agricultural use?				
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				
d) Result in the loss of forest land or conversion of forest land to non-forest use?				\boxtimes
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or				

a – e) It is not foreseen that this regulatory action will have a significant impact on agriculture and forest resources. Adoption of this Order will not result in a material change in the scope or pace of maintenance activities. Because the 5C Program does not include construction of new facilities, or the replacement of existing facilities with facilities with larger footprints, there will be no additional impacts to open

conversion of forest land to non-forest use?

range, meadow, agricultural, or forest land. Therefore the appropriate finding is **no impact.**

III. AIR QUALITY: Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?			\boxtimes	
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?				
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non- attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?				
d) Expose sensitive receptors to substantial pollutant concentrations?			\boxtimes	
e) Create objectionable odors affecting a substantial number of people?			\boxtimes	

a – e) Because any potential impacts to air quality are short-term and the Order requires compliance with all local, state, and federal regulations, including the Clean Air Act and applicable state air quality standards, activities covered by the Order are not expected to have a significant impact on air quality. Specific BMPs designed to prevent and minimize release of pollutants are detailed in the manual (e.g., those prescribing road surfacing). The 5C Program does not include construction of new facilities, meaning there will be no additional impacts. Adoption of this Order will not result in a material change in the scope or pace of maintenance activities. Therefore, the appropriate finding is **less than significant impact**.

IV. BIOLOGICAL RESOURCES: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?				
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

a – d) The geographic scope of the activities covered under the Order will include areas that contain listed threatened or endangered salmonid species. The various road maintenance practices can have potentially significant impacts to listed threatened or endangered salmonid species within the North Coast Region.

- Road maintenance projects have the potential to contaminate streams with chemicals or other unnatural materials without proper management (Five Counties 2002; ODOT 1999; WashDOT 2002).
- Road surfacing projects have the potential to discharge asphalt concrete binder, asphalt cement, liquid asphalt, asphalt concrete, asphaltic emulsion, sealant material, Portland cement concrete, concrete rinse water, concrete grindings and cuttings, concrete waste, and diesel oil.
- Dust abatement work can possibly cause the discharge of dust palliatives into the stream or storm-water drainage system: calcium magnesium acetate, magnesium chloride, emulsified asphalt, or lignin sulfates, among other chemicals.
- Water drafting for dust abatement can possibly result in the taking of fish, particularly fry-size salmonids, from the stream system due unscreened or inadequately screened diversions, reduction of flows or dewatering of streams to levels that harm fish and other aquatic life, increases in water temperatures due to over-drafting of streams, and discharges of sediment into stream systems caused by runoff from water spills at unsurfaced streamside drafting sites for water trucks.
- Temporary stream diversions have the potential discharge sediment and debris into a stream or storm-water drainage system, stranding and loss of juvenile or adult fish, and negatively impact instream habitats.
- Road maintenance yards present pollution risks through the storage and use of materials that could be harmful to aquatic life: fuel, oil, chemicals, hazardous waste, heavy metals, organic and inorganic materials, fertilizer, pesticides, solvents, and paint products.
- Bridge cleaning and maintenance can possibly discharge paint, metal grindings, concrete grindings, expansion joint filler, concrete mix and rinse water.
- Proper snow removal and ice control methods are necessary to prevent the discharge of de-icing agents, anti-icing chemicals, and sediment to watercourses.

In order to mitigate all of the potential water quality concerns and their causes, the Order contains conditions and requirements that include implementation of the DIRT (or other comparable) methodology, and BMPs and recommended construction methods contained within the 5C Roads Manual. Additionally, the Order requires monitoring and reporting of activities covered under this Order in order to document that all activities are performed in compliance with these mitigation measures. The specific BMPs designed to mitigate potential impact are as follows:

Road surfacing BMPs are addressed in Chapter 3-B-1 of the 5C Roads Manual. They are:

- 1. Eliminate diesel and use only environmentally sensitive cleaning and releasing agents.
- 2. Use heat sources to heat and clean tack nozzles during operations.
- 3. Avoid road surface maintenance during wet weather to minimize the discharge of potential pollutants into the storm-water drainage system. However, during periods of rain, road surface maintenance may be necessary.
- 4. Cover storm drain inlets and manholes when paving or maintaining road surfaces if runoff is anticipated.
- 5. Identify drain inlets and watercourses both upstream and downstream of the work site. Identify where the flow of a leak, spill or other runoff would go.
- 6. Protect waterways with straw bales, sandbags, filter fabric, or other diversion or filtering controls (also discussed in Appendix B-9).
- 7. Set-up the work area to minimize the tracking of material by vehicles and equipment in or out of the work area.
- 8. Always park paving machines over drip pans or absorbent materials. Keep equipment out of the riparian area.
- 9. A spill contingency plan and resources to contain a small to moderate spill (1-10 gallons) shall be in place. Carry adequate erosion control supplies and oil absorbent materials (oil absorbent towels, kitty litter, shovels, etc.) to keep materials out of water bodies.
- 10. Dispose of excess material at appropriate sites, depending upon material being disposed. Keep material out of the riparian area (also discussed in Chapter 5, Spoil Disposal and Stockpiling).
- 11. Concrete chunks and pieces may be used in embankments when these materials are placed where they will not enter the waters of the state. Keep material out of the riparian area.
- 12. AC pavement grindings may be used as road shoulder backing when these materials are placed where they will not enter the water of the state. Keep material out of the riparian area.
- 13. Follow these best management practices for concrete mixing on site:
 - a. Ensure that contractors who fuel and operate asphalt plants or cement mixing operations on site have an adequate spill plan and materials for spill containment.
 - b. Mixing excess amounts of fresh concrete or cement on site should be avoided.
 - c. Establish mixing plants outside of riparian corridors.

- d. Dry and wet materials should be stored away from waterways and storm drains and should be covered and contained to prevent runoff from rainfall.
- e. Ensure that contractors provide areas for truck chute cleanout with proper containment of wet concrete.
- f. Protect inlets and catchments from fresh concrete.
- 14. Make inspection an ongoing practice:
 - a. After rainfall events, inspect drainage protection measures. In the case of an extended storm, inspect at least once per day. If the protection measures are subjected to non-storm-water flows, inspect daily.
 - b. Inspect inlet protection to prevent water from backing up. If back-up occurs, the protection needs to be replaced with an alternative device.
 - c. Monitor the concrete wash-out, waste storage and disposal sites and onsite procedures at least weekly.
 - d. Make sure employees and contractors are following pollution control measures.

Dust abatement BMPs are addressed in Chapter 3-B-2 of the 5C Roads Manual. They are:

- 1. Do not apply chemical dust palliatives during rain or immediately before anticipated rain to lower the risk of running off into a watercourse.
- 2. Apply methods and materials in a matter that is not detrimental to either water or vegetation. See Table 3-B-2.1 for selection criteria and recommended application rates
- 3. Use environmentally friendly dust palliatives where warranted.
- 4. Carry adequate spill protection materials when applying chemicals.
- 5. Use environmentally sensitive cleaning agents.
- 6. Dispose of excess materials at appropriate sites. Never dispose of materials in the riparian area or the floodplain.
- 7. Avoid applying excessive amounts of water onto road surface to prevent sediment runoff into ditches and the stream system.
- 8. When applying chemical dust palliatives, follow these site preparation practices:
 - a. Blade and compact a smooth surface. Never sidecast the surface material where it could be delivered directly or indirectly into a stream.
 - b. Crown or slope the surface to avoid ponding. Compact soils if needed.
 - c. Pre-wet the surface uniformly with water @ 0.03-0.3 gal/sq. yd.
 - d. Apply the first treatment under pressure and overlap solution (6-12 in.). Apply the second treatment, before first treatment becomes ineffective at 50% application rate.
 - e. Allow treated area to cure 0-4 hours. Compact area after curing.
 - f. Reactivate chemicals in low humidity by re-wetting @ 0.1-0.2 gal/ sq. yd.

Water drafting is not covered by 401 permits. Water drafting is typically regulated through the Department of Water Rights, Department of Fish and Wildlife, and the

National Marine Fisheries Service. However, the following BMPs for water drafting BMPs are addressed in Chapter 3-B-3 of the 5C Roads Manual:

- 1. Seek drafting sites at streams and pools where water is deep and flowing, as opposed to streams with low flow and small, isolated pools. Do not draft water from the stream if any of the following conditions would result:
 - a. bypass flows within the stream are less than 2 cubic feet per second
 - b. pool volumes at the water drafting site would be reduced by 10% or more
 - c. instantaneous diversion rate exceeds 350 gallons per minute
 - d. pumping rate exceeds 10% of the stream flow
 - e. fish may become stranded or adequate fish screens cannot be put in place.
- 2. Where seasonal drafting locations on Class I and Class II streams cannot meet the above conditions, develop appropriate off-stream reservoirs or adjacent watering hole or sump, or use existing fire hydrants. Counties or other dischargers may propose to draw down Class I and II streams below the flow and pool volume conditions stated in #1 if CDFW determines that such actions will not have an adverse impact on Class I beneficial uses downstream.
- 3. Draft water from Director-approved or CDFW-approved sites. For each approved site:
 - a. Describe and map the proposed water drafting location
 - b. The watercourse or lake classification
 - c. The general drafting location use parameters (i.e., yearly timing, estimated total volume needed, estimated total uptake rate and filling time)
 - d. Recognize the effects of the pumping operations proposed, particularly during dry and critically dry years.
 - e. Proposed alternatives to prevent adverse effects (e.g. reduction on hose diameter, reduction in total intake at one location, described allowances for recharge time, and alternative water drafting locations).
 - f. Plans for fish screening design, installation, and maintenance.
- 4. Provide adequate fish screening of each surface water diversion in Class I and II waters. Follow the latest, updated "Water Drafting Specifications" by NMFS and "Guidelines for Temporary Water Drafting from Watersheds Supporting Anadromous Salmonids" by CDFW (see Appendix D). In general, these practices address the following:
 - a. Design screens to prevent the entrainment or impingement of all life stages of fish or amphibians and to minimize adverse alterations to stream habitat. To be addressed are approach velocity (velocity of water through the screen openings), size of screen (proportional to diversion rate), and screen opening size (not usually larger than 3/32" in diameter). Work with County Engineer in this design or purchase NMFS / CDFW approved pre-built fish screens for temporary sites.
 - b. Use the screen on the pump intake whenever surface water is diverted in Class I and II waters.
 - c. Orient the screen face parallel to flow for best screening performance. The approach velocity shall not exceed 0.33 cubic feet per second at any

point on the screen surface. Submerge the screen below the water surface, with clearance above and below of at least one screen-height.

- d. Clean the screen to be free of accumulated algae, leaves or other debris which could block portions of the screen surface and increase approach velocities at any point on the screen.
- e. Keep the screen in good repair.
- 5. Surface the road approaches to drafting sites on streams with rock or other suitable material to avoid the generation of sediment-carrying runoff due to water spills or rainfall.
- 6. Require water drafting operators to keep a water diversion log on the water truck which records the operator's name, date, time, location, pump rate, filling time, screen cleaning and inspection, and bypass flow from the source stream.
- 7. Ensure that water drafting operators and county engineers have completed training by CDFW, NMFS, or other appropriate entity, so as to be familiar with in the above requirements and practices.

In addition to the BMPs within the 5C Roads Manual, CDFW shall be notified in writing pursuant to FGC 1602 prior to water drafting. All water drafting activities shall be authorized in a Lake or Streambed Alteration agreement (LSA) or other written approval from CDFW.

Temporary stream diversion BMPs are addressed in Chapter 4-F, Temporary Stream Diversions, and Appendix B-5, Fish Exclusion. They are:

- 1. Make sure the temporary diversion channel is capable of carrying the anticipated streamflows during the construction period.
- 2. Where anadromous fish are present, work closely with a qualified agency or consulting fishery biologist who has the needed permits. For listed species, the incidental and direct take permits will require reasonable and prudent measures (RPMs) to be used. Follow these permit requirements under the supervision of the fishery biologist.
- 3. Have the supervising biologist remove all fish out of the affected area before dewatering any stream section. If fish are still found stranded in the dewatered channel, immediately transport them to the active channel following the directions of the biologist (usually by netting, electrofishing and/or pumping the fish with an approved fish-friendly method).
- 4. Complete the diversion before or after typical upstream fish migration periods (see Table 1-2 and ask local DFG fishery biologist for local timing). If this is not possible, install a diversion pipe capable of passing fish or other method approved by DFG. [See: Appendix B-3.4 for baffle designs]
- 5. Maintain fish passage in the new channel at all times and make sure that the water pumping hose/culvert has an adequate screen to avoid fish entrainment, unless otherwise approved by NMFS and DFG. [See: 3-B-3 Water Drafting for temporary screening practices.]
- 6. Isolate the diversion channel from the natural channel during excavation.
- 7. For each job site where equipment is used:

- a) Install oil absorbent materials downstream of in-water work sites to trap accidental spills or leaks into streams from equipment. Store excavated spoils and equipment to prevent sediment delivery to watercourses. [See: Chapter 5 – Spoil Disposal]
- **b**) Ensure spill contingency resources to contain a small to moderate spill (1-10 gallons) are in place.
- 8. Line diversion channel with filter fabric, visqueen or a similar material and anchor with rock or sandbags to hold it in place. The purpose is to prevent the bed and banks of the diversion channel from eroding at expected flows.
- 9. When diverting the flow into the temporary channel, first remove the downstream plug of the temporary channel, followed by the upstream plug. Next, close the upstream end of the natural channel and then close the downstream end.
- 10. If a tributary enters the former channel within the diversion area, connect the tributary to the new dewatering channel. If any channel change is done to intercept a tributary, move the channel back to its original shape and location at the completion of the temporary diversion.
- 11.To restore flow to the natural channel, first remove the downstream and then the upstream plug of the natural channel. Next, close the upstream end and the then the downstream end of the diversion channel.
- 12. After removing any man-made material, backfill the diversion channel and stabilize the stream banks. Revegetate disturbed riparian areas with naturally occurring plants and grasses.
- 13. An alternative to a temporary stream diversion channel is to impound the flow and transport the flow around the site via pumps and piping (see pictures below). This practice requires screening of the stream at the pumps and removal of any fish from the dewatered site after installing fish blocking screens above and below the site.

Appendix B-5 states:

Fish exclusion from the work site prior to dewatering must be done in accordance with the protocols set forth in the "Incidental take Permit" from the National Marine Fisheries Service (NMFS) and the California Dept. of Fish and Game [sic] (for state-listed species). Fish exclusion is done only under the supervision of a qualified fishery biologist with such a permit.

When fish exclusion may be needed:

- Stream Crossings: Repair, maintenance, cleaning, installation, or replacement/upgrade of stream crossing facilities such as pipes, arch pipes, culverts, fish ladders, weirs, sediment pools, and bridges.
- Bridge Maintenance: Repair, replacement, and maintenance of bridge components such as the superstructure, footings, piers, supports, abutments, and ramps.
- Watercourses and Streams: Repair replacement installation, and maintenance tasks such as structural repair/replacement, slope

stabilization, sediment removal, vegetation management, debris removal, or habitat maintenance/improvements.

Sequence of Fish Exclusion Procedures:

- 1. Isolate the area (block nets).
- 2. Remove as many fish as possible using seine or dip nets.
- 3. Gradually dewater work are.
- 4. Remove as many remaining fish as possible using dip nets, and relocate upstream.
- 5. Electroshock, if required by permit, to avoid any stranding.
- 6. Keep records of fish exclusion activities.

Consult with a qualified fishery biologist with an incidental take permit from NMFS and CDFG [sic]. A copy of the permit must be in possession of the person(s) authorized to collect the fish at the time of the fish exclusion activity.

Obtain any needed training from the qualified fishery biologist.

Only assist the supervising fishery biologist in the officially approved "incidental take permit" procedures when requested.

Help clean fish screen twice a day of leaves and debris, and report any dead fish to the supervising biologist.

Do not "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect" a threatened or endangered species (i.e., "take) without the above procedure.

Road maintenance yard BMPs are addressed in Chapter 6, Managing the Maintenance Yard. This chapter is broken out into several sections that cover the different aspects of maintenance yard management, each containing numerous BMPs The sections cover:

- 1. Facility and Housekeeping Practices (Chapter 6-A);
- 2. Building and Grounds Maintenance (Chapter 6-B);
- 3. Vehicle and Equipment Maintenance (Chapter 6-C) which includes Fueling (Chapter 6-C-1), Maintenance and Repair (Chapter 6-C-2), Pressure Washing (Chapter 6-C-3), and [maintenance of] Oil/Water Separators (Chapter 6-C-4); and
- Material Use & Storage (Chapter 6-D) which includes Waste Minimization (Chapter 6-D-1), Used Oil Recycling (Chapter 6-D-2), Storage of Hazardous Materials (Chapter 6-D-3), Outdoor Storage of Raw Materials (6-D-4), Outdoor Loading/Unloading of Materials (6-D-5), Above Ground Tank Leak & Spill Control (6-D-6), and Safer Alternative Products (6-D-7).

Bridge cleaning BMPs are addressed in Chapter 7-A-1 of the 5C Roads Manual. They are:

- 1. Take adequate measures in maintenance activities to ensure that paint and other hazardous material do not enter waters of the State or the riparian area.
- 2. Keep non-hazardous materials and debris from falling from the structure into the water or the riparian area. Remove any material that falls into the water in the least destructive way possible, or leave in place if this would be less destructive to fisheries habitat, according to CDFG biologist. Coordinate with CDFG biologist for presence of listed salmonids or their redds below bridge locations.
- 3. Temporarily block deck drains over streams and scuppers over streams when pressure washing, sandblasting, or scraping structures, to route water off deck and into a safe collection facility. Allow no washed material to be deposited in riparian area. Stage the operation to capture and collect as much debris as possible. Transport the waste back to a Maintenance facility or approved storage site.
- 4. Remove large debris from bridge decks with sweeper or shovel. Scrape other material by hand before being collected or removed, prior to pressure washing.
- 5. Develop practices to eliminate drainage systems that drain directly to streams where physically and economically possible.
- 6. Collect broken or damaged treated bridge pier fender posts and bring them back to a Maintenance facility. Dispose of the posts according to approved waste disposal practices.
- 7. Coordinate with CDFW on the appropriate timing for performing bridge cleaning or maintenance with regard to bats and swallows. Seek and apply approved methods, such as netting and other measures, to preclude future nesting on the bridge.
- 8. Follow these guidelines for bridge washing:
 - a) Perform during high water event or when turbidity induced by bridge cleaning is not detectable ¼ mile downstream.
 - b) Use cold-water pressure washing to prevent the removal of lead-based paint.
 - c) Do not use any soaps or detergents.
 - d) Place a tarp containment system under the working platform and sidewalk to capture any paint chips, dirt, lead-contaminated cleaning debris, and pressure washing water.
 - e) Contain and dispose of filtered wash water and all cleaning debris off site.
 - f) To avoid harming swallows and bats using the bridge for habitat:
 - i) Avoid washing tight areas (e.g. cracks, crevices) where bats may be present.
 - ii) If bats are observed, cease washing operations.
 - iii) If birds are building nests, laying eggs, or tending young, no washing will occur.
 - iv) [see discussion below]

v) If any of the above criteria cannot be met, the local CDFW office must be contacted and the individual bridge will be discussed.

The Bridge Washing BMP 8(f)(iv) is no longer considered an effective BMP by CDFW. It calls for the use of netting, which has been documented to trap and kill birds and other wildlife depending on the method of placement, size of netting, materials used, and other factors.

Use of netting on bridges, as well as any additional specific measures for bridge maintenance shall be coordinated through a LSA or other written approval from CDFW. The counties and other dischargers shall comply with all written conditions in the LSA, and state laws protecting migratory birds, eggs, nests, and young (FGC 3503, 3513). Written authorization shall be obtained from CDFW prior to beginning work.

Snow and ice removal BMPs are addressed in Chapter 9-A-1 of the 5C Roads Manual. They are:

- 1) The development of winter management and operation plans that identify critical areas, with levels of service for roads and methods for maintaining levels of service during winter weather;
- Inspection of snow and ice control vehicles and equipment for fuel and oil leaks prior to using (also discussed in Chapter 6-C, Maintenance Yard: Vehicle & Equipment Maintenance);
- 3) Where possible, avoid blowing or pushing ice, snow, abrasives, or other debris into watercourses, the storm-water drainage system, or where a storm-water drainage system inlet can be blocked;
- 4) Stop sidecast sweeping within 50 feet of structures over water, where possible;
- 5) Cleaning of inlets prior to first rain as feasible (also discussed in Chapter 3-D, Winterizing Roads); and
- 6) Modifying blade angles or blower hoppers in sensitive areas.

The 5C program is in large part designed to improve habitat and fish passage for endangered salmonid species, and the five original participating counties have been issued a 4(d) exemption under the federal ESA (16 U.S.C §§ 1531-1544). Biological resources will benefit from the project, through reducing maintenance related impacts to riparian areas, wetlands, and other natural communities; improvements in fish passage by improving watercourse crossing design; and reduction of pollutant discharges by implementing the BMPs outlined within the 5C Roads Manual. By initiating the DIRT road inventory-and-prioritize methodology, following the recommended construction methods, and implementing the BMPs, biological resources will benefit through avoidance of habitat reduction, fish passage will improve, and pollutant discharges will be reduced. Therefore, the appropriate finding is **less than significant impact with mitigation**. e – f) The Order contains a specific provision stating that this project does not preclude the need for counties or other dischargers conducting road maintenance activities to obtain permits which may be required by other local, state and federal governmental agencies. The 5C Road Manual specifically outlines additional permits that may be needed for each of the activities discussed in the Manual. Therefore, the appropriate finding is **no impact**.

V. CULTURAL RESOURCES: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?				
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?				
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				\boxtimes
d) Disturb any human remains, including those interred outside of formal cemeteries?				\boxtimes

a – d) This program regulates the activities conducted under the 5C Program on existing roads within in the North Coast Region. No substantial adverse change should occur to the number or location of historical, archaeological, or geologic resources. Many roads in our region have existed for generations, some for over a century, are still in use, and have become part of the fabric of the landscape of the North Coast Region. Because the 5C Program does not include construction of new facilities there will be no additional impacts. Adoption of this Order will not result in a material change in the scope or pace of maintenance activities. Additionally, the adoption and implementation of this project does not change the regulatory requirements, statutory authorities, or enforcement abilities of any other agency or local ordinances, which may have jurisdiction over cultural resources. Therefore, the appropriate finding is **no impact**.

VI. GEOLOGY AND SOILS: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:		intigation		
 Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42? 				
ii) Strong seismic ground shaking?				\bowtie
iii) Seismic-related ground failure, including liquefaction?				\boxtimes
iv) Landslides?				\boxtimes
b) Result in substantial soil erosion or the loss of topsoil?		\square		
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?				
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				

a i-iv) This project will not expose people or structures to potential substantial adverse effects. Many of the roads within the North Coast Region have existed for generations, some for over a century. Strong seismic shaking, ground failure (including liquefaction), and landslides are large-scale dynamic Earth processes that are not significantly impacted by the surficial nature of activities covered under the 5C Program. The activities conducted under the Order will not expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, strong seismic ground shaking, or seismic related ground failure, including liquefaction. Additionally, the activities covered under the Order will not expose people or structures to potential substantial adverse people or structures to potential failure, including liquefaction. Additionally, the activities covered under the Order will not expose people or structures to potential failure, including liquefaction. Additionally, the activities covered under the Order will not expose people or structures to potential substantial adverse effects involving landslides, because there are no structures located in areas that can be affected by the project. Therefore the appropriate finding is **no impact**.

b – c) The geographic scope of the activities covered under the Order will include areas that are highly susceptible to soil erosion and shallow landslides due to the presence of steep slopes, high rainfall rates, and/or underlying geology. When roads are hydrologically connected , the concentrated flow of water can generate sediment if it crosses on unprotected soils, develops gullies, or cuts into stream banks. It can also trigger landslides from oversaturated conditions, especially on fill-slopes.

A major focus of the 5C Program is to ensure proper road drainage and surface stability, which reduces soil erosion and can reduce or prevent large-scale slope and fill failures. Some projects to implement proper road drainage have the potential to generate sediment from short-term construction activities. Disconnecting roads from streams involves limiting the concentration of surface discharge and using permeable soils on the natural ground and road fill-slopes to infiltrate runoff and convert it to subsurface flow before it can reach a stream. Remedial measures to correct existing and potential road erosion include (but are not limited to): replacing undersized culverts, creating critical dips at stream crossings, outsloping the road surface, adding more ditch relief culverts to in-sloped roads, rocking or paving the road surface, reconnecting the road drainage as much as possible to the natural drainage patterns, revegetating cutbanks and fill-slopes, and repairing 'shotgun' culverts.

In order to mitigate the potential adverse impacts from projects to implement proper road drainage, the 5C Roads Manual contains specific BMPs that are designed to prevent or minimize sediment erosion or loss of topsoil. These BMPs are described in Chapters 3, 4, 5, 10 and Appendix B of the 5C Roads Manual and are summarized below:

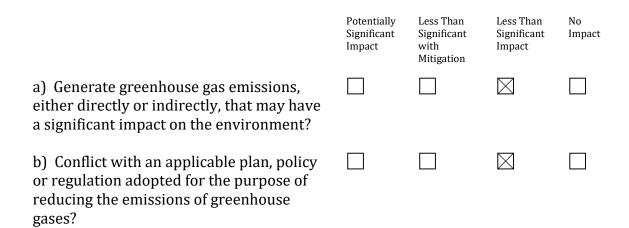
- Road grading practices such as roadway and shoulder blading and rebuilding, slope grading, and sidecast construction will be done to fit grading to the surrounding terrain.
- Vegetative ground cover will be retained to the greatest extent feasible.

- Grading operations will be timed to minimize soil exposure in the rainy season.
- Length and steepness of slopes will be minimized.
- Erosion control will be enhanced by vegetating, seeding, and mulching; use of geotextile fabrics, erosion control blankets, silt mats, and coir log/rolls.
- Runoff will be directed away from disturbed areas.
- Runoff velocities will be kept low by using energy dissipating control measures.
- Trapping sediment will be trapped on site using erosion and sediment control measures.
- Inventories to identify, prioritize, and treat existing sediment sources.
- Inspecting and maintaining erosion control measures regularly.

As a result of the incorporation of the BMPs outlined above, the potential for the Project to result in increased soil erosion, loss of topsoil, or landslides is less than significant. Nor is there any reasonably foreseeable potential for the Project to result in lateral spreading, subsidence, liquefaction, or collapse. Therefore the appropriate finding is **less than significant with mitigation**.

d – e) The Order covers neither activities such as building construction that is subject to the Uniform Building Code, nor activities involving the use of septic tanks or alternative wastewater disposal systems. Because the project does not involve these elements the appropriate finding is **no impact**.

VII. GREENHOUSE GAS EMISSIONS: Would the project:



Road and construction equipment produces CO₂, which is a greenhouse gas. However, the proposed 5C Program will have no significant effect on levels of CO₂, because the 5C Program does not include construction of new facilities. There will be no additional impacts because the project will not result in a material change in the scope or pace of maintenance activities. Therefore, the appropriate finding is **less than significant impact**.

VIII. HAZARDS AND HAZARDOUS MATERIALS: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?				
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?				

g) Impair implementation of or physically
interfere with an adopted emergency response plan or emergency evacuation plan?
h) Expose people or structures to a

significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

a – d) Road repair and maintenance can involve the transport and use of materials that would qualify as hazardous pursuant to the California Health and Safety Code section 25501(o). These materials include gasoline and diesel to fuel equipment, hydraulic fluid associated with equipment operations and machinery, asphalt and oils for road surfacing, and surface stabilizers (e.g. lignin) for running surfaces on unimproved roads. Maintenance yards house fuel, oil (machine, hydraulic, crankcase), chemicals (acids, solvents & degreasers, corrosives, antifreeze), hazardous waste, heavy metals, nutrients, fertilizer, pesticides, herbicides, paint products, and sediments. Maintenance yard activities have the potential to discharge these materials to storm-water drain systems or watercourses. Some BMPs specifically target proper storage of these types of materials. Dust palliatives and de-icing agents may be used in some instances but these materials properly applied according to BMPs are not considered hazardous materials.

In order to mitigate the potential adverse effects the manual is designed to prevent or minimize adverse effects (including the release of hazardous substances and pollutants) from road related activities. Specifically, Chapter 6 of the 5C Roads Manual contains BMPs for maintenance yard management, including Facility Housekeeping Practices (Chapter 6-A), Building & Grounds Maintenance (Chapter 6-B), Maintenance and Repair (Chapter 6-C-1 through 6-C-4), Materials Use and Storage (Chapter 6-D-1 through 6-D-7). It also includes measures to be taken in the event of a spill. Therefore, the appropriate finding is **less than significant with mitigation**.

The Order does not cover discharges of hazardous materials. In the event of an accident, Dischargers must comply with the requirements of the California Emergency Management Agency Hazardous Materials Spill reporting process. Any significant release or threatened release of a hazardous material requires immediate reporting by the responsible person to the Cal EMA State Warning Center (800) 852-7550 and the Certified Unified Program Agency (CUPA) or 911. The CUPA may designate a call to 911 as meeting the requirement to call them. Contact information for a jurisdiction's CUPA can be found at

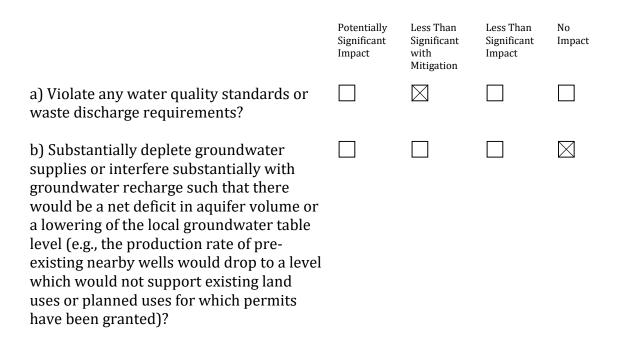
http://cersapps.calepa.ca.gov/Public/Directory/ or http://cersapps.calepa.ca.gov/Public/UPAListing.

Notifying the State Warning Center (800) 852-7550 and the CUPA or 911 constitutes compliance with the requirements of section 11004 of title 42 of the United States Code regarding verbal notification of the SERC and LEPC (California Code of Regulations, Title 19 Section 2703 (e)). Additional information regarding spill reporting may be found at

http://www.calema.ca.gov/HazardousMaterials/Pages/Spill-Release-Reporting.aspx

e - h) The proposed project would not result in the emission or handling of hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school, nor is it located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code section 65962.5. The proposed project would not result in a change over current conditions related to activities near an airport or airstrip that would result in a safety hazard, nor would it interfere with an emergency evacuation or response plan. Lastly, the proposed project would not expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands. Therefore, the appropriate finding is **no impact**.

IX. HYDROLOGY AND WATER QUALITY: Would the project:



c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?			
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?			
e) Create or contribute runoff water which would exceed the capacity of existing or planned storm-water drainage systems or provide substantial additional sources of			
polluted runoff? f) Otherwise substantially degrade water quality?		\boxtimes	
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?			
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?			
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?			
j) Inundation by seiche, tsunami, or mudflow			\square

Roads often alter the hydrologic pattern of natural stream networks. Their intersection of the hillslope disrupts the natural surface and subsurface flow of runoff and causes roads to become hydrologically connected. Inboard ditches capture this runoff from the hillslope, road surface, and cutslopes, and deliver it to

another location, usually through a stream crossing or a cross-drain (ditch relief culvert).

Roadways are a source for materials that, when washed into watercourses, can harm water quality and aquatic life. They are also a medium for transporting substances deposited on the roadway, such as oil and grease from vehicles. In urban areas, roadway runoff is often a major source of chemical contaminants. In rural areas like the North Coast region, sediment is the primary water quality concern from roads.

Fine sediment, in particular, adversely affects salmon and steelhead habitat by filling in pools and spawning gravels. Too much fine sediment can smother eggs laid in stream gravels and reduce the quality of aquatic invertebrates available as fish food. When in suspension, fine sediment creates turbid water conditions which, when excessively high, can affect the gills and respiratory health of fish and impact aquatic invertebrates.

When roads are hydrologically connected, the concentrated flow of water can generate sediment if it crosses on unprotected soils, develops gullies, or cuts into stream banks. It can also trigger landslides from oversaturated conditions, especially on fill-slopes. Disconnecting roads from streams involves limiting the concentration of surface discharge and using permeable soils on the natural ground and road fill-slopes to infiltrate runoff and convert it to subsurface flow before it can reach a stream.

Poor road construction and maintenance are associated with higher erosion rates. In contrast, routine maintenance removes sediment deposited in roadside ditches from cut bank erosion and other sources and minimizes the opportunity for it to enter a watercourse. Stream crossing sites represent the majority of the potential erosion due to the volume of material that could be washed out from road failures at undersized culverts that become blocked with debris during a flood event.

Remedial measures to correct existing and potential road erosion include (but are not limited to): replacing undersized culverts, creating critical dips at stream crossings, out sloping the road surface, adding more ditch relief culverts to in-sloped roads, rocking or paving the road surface, re-establishing natural drainage patterns, revegetating cut banks and fill-slopes, and repairing 'shotgun' culverts. These sediment control measures are all addressed as BMPs in the 5C Road Maintenance Manual.

a) It is anticipated that the project will result in enhanced water quality. Implementation of many manual BMPs (e.g., road out sloping, installation of rolling or critical dips, increased frequency of ditch relief culverts, erosion control measures for maintenance activities that may disturb soil, installation of sediment traps at culverts, proper storage of spoils and materials stockpiles) will reduce the amount of sediment delivery to streams from county and rural roads. However, even as maintenance activities are being done to correct existing and potential road erosion, these activities can potentially contaminate streams with sediment, chemicals or other unnatural materials without proper management, resulting in significant impacts (Five Counties 2002; ODOT 1999; WashDOT 2002).

In order to mitigate the potential significant impacts from maintenance practices, seven of the ten chapters and three of the appendices within the 5C Roads Manual contain BMPs specifically designed to prevent and minimize discharges of sediments, chemicals, and other materials to waters of the State during road maintenance activities. These activities include:

- Chapter 3, Road Maintenance, including grading practices (shoulder blading and rebuilding, erosion repair, ditch shaping and cleaning, channel maintenance), road surfacing and dust abatement (road surface repair, dust abatement, water drafting, low water crossing maintenance), vegetation management (mowing and cutting of vegetation, invasive weed abatement¹, tree removal), and winterizing roads.
- Chapter 4, Culvert Maintenance, including culvert cleaning, culvert improvement and repair, culvert sizing, culvert replacement, ditch relief culvert location selection and installation, and temporary stream diversions during in-stream projects.
- Chapter 5, Disposing the Soil, which includes site selection for spoil disposal, disposal site maintenance, disposal site closure, and stockpile maintenance.
- Chapter 6, Managing the Maintenance Yard, including facility housekeeping
 practices, building and grounds maintenance, vehicle and equipment
 maintenance (vehicle fueling, vehicle and equipment maintenance and
 repair, pressure washing of vehicles and equipment, and care and feeding of
 oil/water separators), and material use and storage (waste minimization,
 handling and disposal; used oil recycling; storage of hazardous materials;
 outdoor storage of raw materials; outdoor loading/unloading of materials;
 above ground tank leak and spill control; safer alternative products).
- Chapter 7, Maintaining the Bridges, including bridge vegetation management, and bridge drift removal (bridge painting and cleaning are not included in this activity²).
- Chapter 8, Performing Emergency Work, including slide and settlement repair, and accident cleanup.³

¹ The Order does not authorize discharges from pesticide or herbicide application.

² See Order No. R1-2003-0041 (General Waste Discharge Requirements for Discharges Associated with Transportation Structure Repainting Activities).

³ Dischargers must also comply with the requirements of the California Emergency Management Agency Hazardous Materials Spill reporting process. Additional clean up requirements may be required depending on the type and extent of the accident.

- Chapter 9, Dealing With Snow and Ice, including sanding, de-icing, and antiicing chemicals.
- Appendix B, BMP Standard Designs & Procedures, including BMP designs and procedures for culverts, erosion control, fish exclusion measures, fish ladders, streambank protection & channel improvements, water diversions, and water quality protection and sediment control.
- Appendix C, Fish Passage Guideines, containing NMFS fish passage guidelines, and CDFW culvert criteria for fish passage.
- Appendix D, Water Drafting Guidelines, containing NMFS water drafting specifications and preliminary CDFW guidelines for temporary water drafting.

Additionally, treatment of legacy sites is addressed as part of the DIRT inventory process, including upgrading of stream crossings, road outsloping and rolling dip installation where safe and suitable, installing ditch relief culverts and overside drains, removing berms, armoring unstable areas, reshaping cutbanks, and rocking native-surfaced roads.

Finally, the Order requires counties and other dischargers to implement the BMPs within the 5C Roads Manual. If there are violations of the Order, enforcement actions may be taken. Therefore, the appropriate finding is **less than significant impact with mitigation**.

b) There will be no change in water withdrawals or increased groundwater pumping resulting from this program. Therefore, the appropriate finding is **no impact.**

c) Some manual BMPs call for modification of existing drainage patterns (e.g., concentrated flows) to better simulate natural dispersed runoff, minimize sediment delivery, and reduce road maintenance. These activities have the potential to result in significant impacts.

In order to mitigate the potential significant impacts from the modification of existing drainage patterns, the BMPs outlined in Chapters 3 and 4 of the 5C Roads Manual, and the DIRT methodology are designed to improve road drainage and minimize the hydrologic footprint of the road system, as well as prevent and minimize impacts from road maintenance activities. Therefore the appropriate finding is **less than significant impact with mitigation**.

d - j) Implementation of BMPs would not result in flooding on or off-site nor would it expose people or structures to any kind of flooding or inundation. The BMPs include sizing new or replacement culverts to accommodate 100-year flood flows.

The project will not result in new structures within the flood plain that would impede or restrict flows. The project does not involve new housing. BMPs for stream crossing sizing combined with those designed to disperse runoff will reduce peak flow concentrations, potentially reducing flooding and associated damage. The capacity of existing or planned storm-water drainage systems will not be impacted and may be improved by the project. Implementation of the manual will not create pollution in runoff and will over time reduce pollution in runoff. BMPs within the manual (e.g., snow & ice removal, maintenance yard practices, containment of lead paint during bridge maintenance, oil and fuel spill containment) will reduce or minimize the release of pollutants. Therefore, the appropriate finding is **less than significant** and **less than significant with mitigation**.

X. LAND USE AND PLANNING: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Physically divide an established community?				\boxtimes
b)Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?				
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?				

a – c) The 5C Program will not cause any conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over 5C Program activities. The proposed project does not divide an established community or involve land use planning or policy, nor the does it alter or weaken the requirements of any habitat conservation plan or natural community conservation plan that may apply to agricultural activities. This project does not preclude the need for counties and other dischargers conducting road maintenance activities to obtain permits which may be required by other local, state and federal governmental agencies. Because the project does not involve these elements, the appropriate finding is **no impact**.

XI. MINERAL RESOURCES: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				

a – b) The proposed project does not involve mineral resources; therefore, the appropriate finding is **no impact**.

XII. NOISE: Would the project result in:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				
b) Exposure of persons to or generation of excessive ground borne vibration or ground borne noise levels?				
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?				
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?				

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing		
or working in the project area to		
excessive noise levels?		
f) For a project within the vicinity of a		\boxtimes
private airstrip, would the project expose		
people residing or working in the project		
area to excessive noise levels?		

a – f)The proposed 5C Program does not change the exposure of people to potential adverse effects involving noise due to road maintenance or repair activities over current conditions. Noise levels due to these activities in the project area will remain the same whether or not the 5C Program is adopted and implemented. Because no change is foreseeable, the appropriate finding is **no impact**.

XIII. POPULATION AND HOUSING: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				

a - c) The proposed project does not involve construction of new homes or businesses. The project would also not displace people or existing housing. Because the proposed project does not involve these elements, the appropriate finding is no impact.

XIV. PUBLIC SERVICES: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
 Fire protection? Police protection? Schools? Parks? Other public facilities? 				\mathbb{X}

The proposed project does not involve new or physically altered government facilities. Because the proposed project does not involve these elements, the appropriate finding is **no impact**.

XV. RECREATION:

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact	
			\square	

a – b) The proposed project does not involve increasing the use of recreational facilities, or require construction or expansion of recreational facilities. Because the proposed project does not involve these elements, the appropriate finding is **no impact**.

XVI. TRANSPORTATION/TRAFFIC: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?				
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?				
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?				
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				
e) Result in inadequate emergency access?				\boxtimes

f) Conflict with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

a-b. The proposed project would not cause an increase in traffic or exceed a level of service due to 5C Program activities over current conditions. Traffic levels related to 5C Program operations in the project area will remain the same whether or not the 5C Program is adopted and implemented. Adoption of this Order will not result in a material change in the scope or pace of maintenance activities. New road construction is not covered by this Order, so it largely encompasses routine maintenance of existing facilities. Because no change is foreseeable, the appropriate finding is **no impact**.

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c –f) The proposed project does not involve air traffic, installation of hazardous design features, and will not affect emergency access or parking capacity. The proposed project will not conflict with policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities. Because the proposed project does not involve these elements, the appropriate finding is **no impact**.

XVII. TRIBAL CULTURAL RESOURCES

AVII. TRIDAL COLTORAL RESOURCES	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or				

b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

a-b. Both prior to receiving coverage under the Order and during implementation of road projects that result in ground disturbance, Counties and other dischargers must comply with mitigation measures described below.

Counties and other dischargers seeking to enroll road projects in the Order must comply with the following mitigation measures to identify and protect tribal cultural resources that may be present within a project area:

<u>County or Other Road Projects</u>: Prior to permitting road projects that result in ground disturbance, the permittee or their designated Professional Archaeologist⁴ shall perform a records search of potential Native American archaeological or cultural resources at a California Historical Resources Information System (CHRIS) information center. Any person who meets qualification requirements for access to the CHRIS may perform the initial CHRIS records search and document the results. The requirement to perform a CHRIS records search may be satisfied by using the results of a previous CHRIS records search completed within the previous 10 years for the specific parcel or parcels where road projects that result in ground disturbance are proposed to occur.

Prior to permitting road projects that result in ground disturbance, the permittee or their designated Professional Archeologist shall also request a search of the Sacred Lands Inventory that is maintained by the Native American Heritage Commission pursuant to Public Resources Code sections 5097.94, subdivision (a), and 5097.96 (Sacred Lands Inventory). If the Sacred Lands Inventory search reveals the presence or potential presence of Native American places of special or social significance to Native Americans, Native American known graves or cemeteries, or Native American sacred places, the permittee shall consult with the tribe or tribes that are culturally affiliated with the area in which these Native American cultural resources

⁴ A Professional Archaeologist is one that is qualified by the Secretary of Interior, Register of Professional Archaeologists, or Society for California Archaeology.

exist or potentially exist prior to any ground disturbing activities. The information provided by tribes through consultation with the permittee shall be maintained as confidential by the permittee and their agents.

The permittee shall notify the Regional Board Executive Officer within seven days of receiving a CHRIS positive result or Sacred Lands Inventory positive result.

In the event that prehistoric archeological materials or indicators are identified in a CHRIS positive result, the permittee or their designated Professional Archaeologist shall also notify the Native American Heritage Commission within seven days of receiving the CHRIS positive result and request a list of any California Native American tribes that are potentially culturally affiliated with the positive result. The permittee or their designated Professional Archaeologist shall notify any potentially culturally affiliated California Native American tribes of the CHRIS positive result within 48 hours of receiving a list from the Native American Heritage Commission.

The permittee shall promptly retain a Professional Archaeologist to evaluate the CHRIS positive result and recommend appropriate conservation measures. In the event of a Sacred Lands Inventory positive result related to human remains or archaeological resources, the permittee and their Professional Archaeologist shall develop appropriate mitigation and conservation measures in consultation with the affected California Native American tribe. The permittee shall carefully consider any comments or mitigation measure recommendations submitted by culturally affiliated California Native American tribes with the goal of conserving tribal cultural resources and prehistoric archaeological resources with appropriate dignity. The permittee shall provide a copy of the final mitigation and conservation measures to any culturally affiliated California Native American tribes are subject to approval by the Regional Water Board Executive Officer or his/her delegate.

If any prehistoric archaeological materials or indicators⁵ are uncovered or discovered during any activities associated with a permitted road projects, all project activities shall immediately cease within 100 feet of the find. A Professional Archaeologist shall be consulted to document and identify the find and study the area to report if the find is incidental (isolated) or part of a larger area of importance (i.e. midden).

⁵ Prehistoric archaeological material or indicators include, but are not limited to: arrowheads and chipped stone tools; bedrock outcrops and boulders with mortar cups; ground stone implements (grinding slabs, mortars, and pestles) and locally darkened midden soils containing some of the previously listed items plus fragments of bone, fire affected stones, shellfish, or other dietary refuse.

Historic period site indicators generally include, but are not limited to: fragments of glass, ceramic and metal objects; milled and split lumber; and structure and feature remains such as building foundations, privy pits, wells and dumps; and old trails.

If the Professional Archaeologist determines the find is not incidental, the permittee or their designated Professional Archaeologist shall notify the Native American Heritage Commission within seven days of the discovery and request a list of any California Native American tribes that are potentially culturally affiliated with the discovery. The permittee or their designated Professional Archaeologist shall notify any potentially culturally affiliated California Native American tribes of the discovery within 48 hours of receiving a list from the Native American Heritage Commission.

The permittee's Professional Archaeologist and the culturally affiliated California Native American tribe shall develop proposed mitigation and conservation measures as necessary. The permittee will carefully consider any comments or mitigation measure recommendations submitted by culturally affiliated California Native American tribes with the goal of conserving prehistoric archaeological resources and tribal cultural resources with appropriate dignity. The permittee shall provide a copy of the final proposed mitigation and conservation measures to any culturally affiliated California Native American tribes identified by the Native American Heritage Commission and to the Regional Water Board Executive Officer. Final mitigation measures are subject to approval by the Regional Water Board Executive Officer or his/her delegate.

Human Remains: Upon discovery of any human remains, the permittee shall immediately comply with Health and Safety Code section 7050.5 and, if applicable, Public Resources Code section 5097.98. The following actions shall be taken immediately upon the discovery of human remains:

All ground-disturbing activities in the vicinity of the discovery shall stop immediately. The permittee shall immediately notify the county coroner. Ground disturbing activities shall not resume until the requirements of Health and Safety Code section 7050.5 and, if applicable, Public Resources Code section 5097.98 have been met. The permittee shall ensure that the human remains are treated with appropriate dignity.

Per Health and Safety Code section 7050.5, the coroner has two working days to examine human remains after being notified by the person responsible for the excavation, or by their authorized representative. If the remains are Native American, the coroner has 24 hours to notify the Native American Heritage Commission.

Per Public Resources Code section 5097.98, the Native American Heritage Commission will immediately notify the persons it believes to be the most likely descended from the deceased Native American. The most likely descendent has 48 hours to make recommendations to permittee or representative for the treatment or disposition, with proper appropriate dignity, of the human remains and any associated grave goods. If the Native American Heritage Commission is unable to identify a descendant; the mediation provided for pursuant to subdivision (k) of Public Resources Code section 5097.94, if invoked, fails to provide measures acceptable to the permittee; or the most likely descendent does not make recommendations within 48 hours; and the most likely descendants and the permittee have not mutually agreed to extend discussions regarding treatment and disposition pursuant to subdivision (b)(2) of Public Resources Code section 5097.98, the permittee or their authorized representative shall reinter the human remains and items associated with the Native American human remains with appropriate dignity on the property in a location not subject to further and future disturbance consistent with subdivision (e) of Public Resources Code section 5097.98. If the permittee does not accept the descendant's recommendations, the permittee or the descendants may request mediation by the Native American Heritage Commission pursuant to Public Resources Code section 5097.94, subdivision (k).

The above are measures to identify any documented or on-site tribal cultural resources, and if found, work with local tribes to protect and preserve them. As such, the finding is that with implementation of these required mitigation measures, impacts will be **less than significant with mitigation**.

XVIII. UTILITIES AND SERVICE SYSTEMS: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?			\square	
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
c) Require or result in the construction of new storm-water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				

d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?

g) Comply with federal, state, and local statutes and regulations related to solid waste?

plies

Adoption of this Order will not result in a material change in the scope or pace of maintenance activities. New road construction is not covered by this Order, so it largely encompasses routine maintenance of existing facilities.

a-c) The proposed project may entail the expansion or construction of storm-water drainage facilities on existing roads. Any potential impact would be beneficial because of added protection of the waters of the state from the reduction of potential pollution from concentrated storm-water runoff. Therefore, the appropriate finding is **less than significant impact**.

d) The proposed project does not change the need for water supplies due to road maintenance and/or repair. Water may be needed for dust abatement during maintenance or repair of existing roads; however, the quantity needed will remain the same whether or not the 5C Program is adopted and implemented. Applicable BMPs and limits on water-drafting shall be implemented according to written conditions included in any LSAs with CDFW, and in accordance with Appendix D. Compliance with LSA conditions is a requirement for coverage under the Order. For these reasons, the appropriate finding is **less than significant with mitigation**.

e) The proposed project does not require service by wastewater treatment facilities and would not affect solid waste generation or landfill capacities over current conditions. Because the proposed project does not involve these elements, the appropriate finding is **no impact**.

g) The proposed project will comply with federal, state, and local statutes and regulations related to solid waste. Therefore the appropriate finding is **no impact**. **XVIII. MANDATORY FINDINGS OF SIGNIFICANCE:**

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?				
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or				

Road maintenance and repair activities have the potential to degrade the quality of the environment. However, conditions and criteria that are contained in the 5C Program mitigate significant adverse impacts from discharges associated with the road maintenance and repair operations to less than significant levels.

In order to mitigate potential significant impacts, the Order contains conditions and requirements, and requires the implementation of the 5C Roads Manual's BMPs. Additionally, the Order requires monitoring and reporting of activities covered under this Order in order to document that all activities are performed in compliance with these mitigation measures.

indirectly?

a - b) The Regional Water Board determines that road maintenance and repair operations conducted in compliance with the 5C Program will not adversely affect the quality or the beneficial uses of the waters of the State, and will be in the public interest pursuant to California Water Code (Water Code) section 13269. Road maintenance and repair operations could have impacts that are individually limited, but cumulatively considerable.

In order to mitigate significant cumulative adverse impacts, the 5C Program and 5C Roads Manual contains conditions and criteria designed to reduce cumulative adverse impacts from discharges associated with road maintenance and repair operations to less than significant levels. The 5C Program will only apply to operations that meet all applicable eligibility criteria and that follow the Order conditions. Activities conducted in compliance with the conditions contained in the 5C Program will not contribute to cumulative impacts. Therefore, the appropriate finding is **less than significant with mitigation**.

c) It is unlikely that 5C Program operations could have environmental effects which may cause substantial adverse effects on human beings, either directly or indirectly. However, conditions and criteria contained in the 5C Program mitigate significant cumulative adverse impacts from discharges associated with road maintenance and repair operations to less than significant levels. The 5C Program will only apply to road maintenance and repair operations that meet all applicable eligibility criteria and that follow the Order conditions.

The Regional Water Board determines that road maintenance and repair operations conducted in compliance with the 5C Program will not adversely affect the quality or the beneficial uses of the waters of the State and is in the public interest pursuant to Water Code section 13269. Therefore, the appropriate finding is **less than significant.**

DETERMINATION (To be completed by the Lead Agency)

On the basis of this initial study:

- I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

I find that the proposed project MAY have a "potentially significant impact" or

"potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature

Date