# Project Name: Proposed Code Amendments: Allowing Ground-based Mechanical Equipment on Slopes between 30 and 50 percent.

## **Project Description:**

The Angora Fire began in the North Upper Truckee area in South Lake Tahoe, California. The fire burned out of control, threatening hundreds of residences and commercial structures, and resulted in thousands of evacuations. A total of 3,100 acres were burned and 254 homes were destroyed. The Angora Fire underscored the need for a comprehensive review of fire prevention and fuels management practices in the Basin and spurred the creation of the Joint Fire Commission to conduct this review and generate recommendations on future policy and practice.

The Emergency California-Nevada Tahoe Basin Fire Commission Report, produced in 2008, created a set of findings and recommendations presented in six categories that address both short and long-term needs, policy changes, education, funding, governmental structures, and environmental practices related to Lake Tahoe's vulnerability to wildfire.

The Commission found that when the TRPA was created the risk of catastrophic wildfire to ecosystems and communities was not considered. This risk is compounded by climate change that ushers in a new era of "mega-fires". Subsequently, the Commission recommended the TRPA, LRWQCB, USDA Forest Service, and other affected agencies amend their plans and ordinances to allow for mechanical equipment use on slopes greater than 30% based on current and future technology and forest practices that ensure environmental protection.

Article 4 of the California Forest Practice Act allows for mechanical treatment on slopes up to 50%. The Act states: "Except for tethered operations, heavy equipment shall be prohibited where any of the following conditions are present: (A) Slopes steeper than 65%. (B) Slopes steeper than 50% where the Erosion Hazard Rating is high or extreme."

In Nevada, NRS Chapter 528 Forest Practice and Reforestation also allows mechanical treatments on steep slopes through a variance procedure with the Nevada Firewarden. When issuing a variance, the Firewarden will consider whether ground-based equipment may destroy advanced regeneration and litter cover; the extent to which ground-based equipment may cause soils to be displaced or erode; and, the extent to which ground-based equipment may cause siltation and eroded soils to infiltrate the 50-foot stream buffer.

Likewise, The LTBMU 2016 Land Management Plan outlines a series of standard and guidelines related to forest vegetation, fuels, and fire management. Standard and Guideline 30 outlines the following for forest treatments, "In general, operate ground-based mechanized equipment for vegetation treatment on slopes less than or equal to 30%. Exceptions should be consistent with safety and design specifications and with the ability to effectively alleviate significant resource impacts."

The project proposes ground-based mechanical equipment for thinning treatments on slopes up to 50 percent, which increases the proportion of land in the Basin that could be treated using mechanical equipment (see Table 1 and Figure 1). Chapter 61 of the TRPA Code prohibits mechanized equipment on slopes greater than 30 percent. The proposed project includes an amendment to the TRPA Code to allow ground-based mechanical equipment and skidding on slopes up to 50 percent depending on specific site conditions and TRPA approval.

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Approximately 60,685.05 acres within the Basin are located on slopes between 30 and 50 percent. Currently, under the TRPA Code of Ordinances, these acres may only be treated by hand with subsequent pile burning or aerial logging. Allowing ground-based mechanical equipment as opposed to hand thinning on slopes up to 50 percent would allow land managers to remove trees to meet restoration objectives, increase forest resilience, and decrease fire risk. Approximately, 25,305.05 acres (41.7%) on slopes between 30 and 50 percent fall within the Wildland Urban Interface (WUI) Threat or Defense Zones (Figure 2). A WUI Defense Zone is the area directly adjoining structures and evacuation routes that is converted to a less-flammable state to increase defensible space and firefighter safety. The WUI Threat Zone is an additional strip of vegetation modified to reduce flame heights and radiant heat. These areas represent critical acres for treatment in the face of climate change and longer, more extreme fire seasons. Additionally, the code amendment may increase the pace and scale of thinning treatments and generate financial and ecological efficiencies by utilizing staff capacity and equipment more effectively for planning and implementation of restoration treatments such as mechanical thinning and broadcast burning.

As noted above, allowing ground-based mechanical equipment on slopes between 30 and 50 percent would likely decrease the number of hand piles for burning. This would allow managers to reduce smoke emissions associated with pile burning and increase opportunities for biomass utilization that could provide long-term carbon storage and reduce greenhouse gas emissions.

The Code amendment would not allow the use of ground-based mechanical equipment on slopes up to 50 percent slopes that are identified or mapped as unstable or active or dormant landslides.

The proposed code amendments will require TRPA review and approval of ground skidding and ground-based mechanical equipment operations on slopes between 30 and 50 percent to ensure environmental protective measures will be in place to minimize slope erosion. Project-specific requirements to meet minimized slope erosion can include but are not limited to leaving remaining ground cover above 85%, use of slash mats, use of low-pressure technology that limits ground disturbance, or inclusion of vegetative buffers. Prior to approval and implementation, implementors will submit to the TRPA their project description, information, and an initial environmental checklist per project that demonstrates minimized slope erosion.

The Basin-wide Code amendment would apply to approximately 60,685.05 acres within the Basin (see Figure 1). Potential for access constraints among other site-specific factors (e.g., unstable slopes) would inform where mechanical treatments would be appropriate and feasible on 30-50 percent slopes. Of the 60,685.05 acres within the Basin that are on slopes between 30 to 50 percent, approximately 47,162.44 acres (77.7%) are on federal lands, 5,270.12. acres (8.6%) are on state lands, 3,885.40 acres are on private lands, and 882.28 acres are on local lands (Table 2 and Figure 3). Partner agencies that would be able to utilize this code amendment include the USDA Forest Service, the California Tahoe Conservancy, the Nevada Division of Forestry, The Nevada Division of State Lands, California State Parks, and others.

Approximately, 6,293.77 acres within the Basin are on slopes between 30 to 50 percent and are also classified as Wilderness. This is a National Forest System classification that allows for limited management and does not allow mechanized equipment unless under emergency authorizations. Wilderness areas within the Basin are at higher elevations with less trees and more exposed granite, so will most likely not warrant mechanical treatment.

Approximately, 362.83 acres within the Basin are on slopes between 30 to 50 percent and are classified as Stream Environment Zones (SEZs). These areas are not included in the potential code amendment.

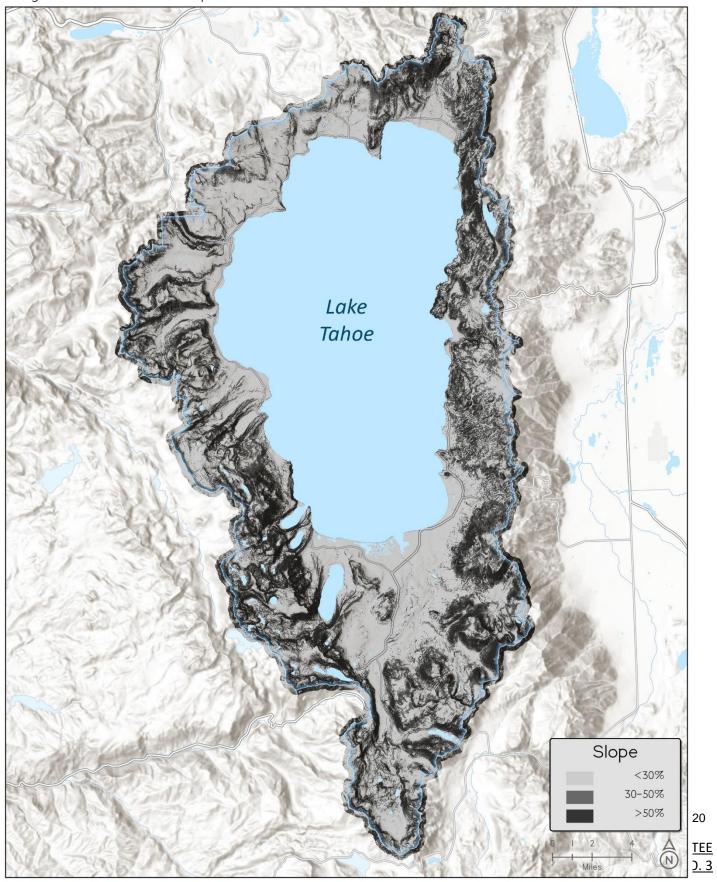
Table 1: Acreage by Slopes in the Lake Tahoe Basin

Area	0-30% Slopes (acres)	30-50% Slopes (acres)	Slopes >50% (acres)	Total (acres)
Lake Tahoe Basin	121,536.1	60,685.05	44,142.56	226,363.61

Table 2: 30 to 50 Percent Slopes Acreage by Ownership

Ownership	30-50% Slopes (acres)
Federal	47,162.44
Local	882.28
Private	3,885.40
State	5,270.12
Other	3,592.04

Figure 1: Lake Tahoe Basin Slopes



Lake Tahoe Slope Forest Management Zone WUI Defense Zone WUI Threat Zone General Forest Wilderness

Figure 2: 30 to 50 Percent Slopes in the Lake Tahoe Basin by WUI Defense or Threat Zone

Lake Tahoe Slope 30-50% Ownership Federal Local Private State

Figure 3: Land Ownership within the Tahoe Basin with 30 to 50 percent slopes

# I. Environmental Impacts

	Land			No, with mitigation	Data insufficient
VVI	If the proposal result in:	Yes	<u>8</u>	No, with mitigatio	Data insuff
a.	Compaction or covering of the soil beyond the limits allowed in the land capability or Individual Parcel Evaluation System (IPES)?		$\boxtimes$		
b.	A change in the topography or ground surface relief features of site inconsistent with the natural surrounding conditions?		$\boxtimes$		
C.	Unstable soil conditions during or after completion of the proposal?		$\boxtimes$		
d.	Changes in the undisturbed soil or native geologic substructures or grading in excess of 5 feet?		$\boxtimes$		
e.	The continuation of or increase in wind or water erosion of soils, either on or off the site?		$\boxtimes$		
f.	Changes in deposition or erosion of beach sand, or changes in siltation, deposition or erosion, including natural littoral processes, which may modify the channel of a river or stream or the bed of a lake?		$\boxtimes$		
g.	Exposure of people or property to geologic hazards such as earthquakes, landslides, backshore erosion, avalanches, mud slides, ground failure, or similar hazards?		$\boxtimes$		

#### Discussion

The proposed code change would only allow for tree removal and forest thinning on slopes between 30 to 50 percent when proven environmentally suitable with limited erosion impacts and post-treatment remediation in place. Implementors will submit a project description, location, and initial environmental checklist for TRPA review and approval that shows all environmental protection measures to minimize slope erosion.

Additionally, implementors currently meet a variety of standards, guidelines, and requirements related to erosion and soil protection within the Tahoe Basin. For example, the Lake Tahoe Basin Management Unit 2016 Land Management Plan outlines a variety of standards and guidelines that dictate forest management practices as they related to soil compaction, erosion, and protection. These standards and guidelines include, but are not limited to:

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- SG10. Avoid soil displacement to the extent practical when grading slopes, piling brush or slash, or engaging in other heavy equipment operations where earth moving is not the objective. [Guideline]
- SG11. During vegetation management activities, limit operation of wheeled or tracked vehicles and timber harvesting equipment to designated routes, and restrict operations to periods of suitable soil moisture conditions as defined in project planning documents and contracts. Suitable conditions also include frozen ground, and/or a firm, protective base of compacted snow. When suitable conditions are not present, restrict equipment use to roads and designated stream crossings unless suitable mitigation measures can be employed. [Guideline]
- SG12. Avoid unstable areas and SEZs when reconstructing existing roads and landings or constructing new roads and landings. Minimize and mitigate impacts where avoidance is not practical. [Guideline]

Chapter 528 of Nevada Revised Statutes regarding Forest Practice and Reforestation outlines activities to minimize erosion from forestry operations. For example, NRS 528.055 states, "Skid trails, landings, logging roads and firebreaks shall be so located, constructed, used and left after timber harvesting that erosion caused by water flow therefrom and water flow in natural watercourses shall be limited to a reasonable minimum that will not impair the productivity of the soil or appreciably diminish the quality of the water." Additionally, Chapter 528 outlines best management practices and requirements as they relate to post-treatment restoration including reseeding and revegetating sites (NRS 528.057).

Article 4 of the 2021 California Forest Practice Rules outlines requirements for harvesting practices and erosion control regarding forest management in the State of California. For example, heavy equipment shall not operate on Unstable Areas. If such areas are unavoidable, the RPF shall develop specific measures to minimize the effect of operations on slope instability. These measures shall be explained and justified in the plan and must meet the requirements of 14 CCR § 914 [934, 954]. Additionally, when waterbreaks cannot sufficiently dissipate surface runoff, other erosion controls shall be installed as needed. Erosion Controls means drainage facilities, soil stabilization treatments, road and Landing Abandonment, removal and treatment of Watercourse crossings, and any other features or actions to reduce surface erosion, gullying, channel erosion, and mass erosion. Erosion controls must be repaired and maintained year-round to deal with varying weather conditions.

Due to state, federal, and TRPA requirements regarding soil erosion and minimized slope erosion, the proposed code amendments will not have significant impacts as they relate to land.

# 2. Air Quality

Wi	ll the proposal result in:		Yes	0 N	No, with mitigation	Data insufficient
a.	Substantial air pollutant emissions?			$\boxtimes$		
b.	Deterioration of ambient (existing) air quality?			$\boxtimes$		
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# 2. Air Quality Will the proposal result in: c. The creation of objectionable odors? d. Alteration of air movement, moisture or temperature, or any change in climate, either locally or regionally? e. Increased use of diesel fuel?

While the proposed code amendment could increase the pace and scale of restoration, most likely forest thinning and restoration activities will continue at the current pace. Additionally, implementors have a suite of best management practices they currently employ to meet air quality and noise standards associated with activities including limitations on the time trucks are allowed to idle. Likewise, implementors within the Basin currently need to meet all air quality regulations dictated by County Air Quality Control Boards or state agencies such as the Nevada Department of Environmental Protection. Lastly the proposed code amendment would have significantly less impacts to noise and air quality standards when compared to catastrophic wildfire emissions and associated emergency operations.

# 3. Water Quality

Wi	ll the proposal result in:		Yes	o N	No, with mitigation	Data insufficient
a.	Changes in currents, or the course or direction of	water movements?		$\boxtimes$		
b.	Changes in absorption rates, drainage patterns, or surface water runoff so that a 20 yr. 1 hr. storm run hour) cannot be contained on the site?			$\boxtimes$		
C.	Alterations to the course or flow of 100-yearflood	waters?		$\boxtimes$		
d.	Change in the amount of surface water in any wat	ter body?		$\boxtimes$		
e.	Discharge into surface waters, or in any alteration including but not limited to temperature, dissolve	. ,		$\boxtimes$		
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## 3. Water Quality

Wi	Il the proposal result in:	Yes	0 N	No, with mitigation	Data insufficien
f.	Alteration of the direction or rate of flow of ground water?		$\boxtimes$		
g.	Change in the quantity of groundwater, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?		$\boxtimes$		
h.	Substantial reduction in the amount of water otherwise available for public water supplies?		$\boxtimes$		
i.	Exposure of people or property to water related hazards such as flooding and/or wave action from 100-year storm occurrence or seiches?		$\boxtimes$		
j.	The potential discharge of contaminants to the groundwater or any alteration of groundwater quality?		$\boxtimes$		

#### Discussion

The TRPA Code of Ordinances already outlines protections for water quality as it relates to forest management. For example, 61.1.5.C. requires a tree removal plan be submitted to TRPA for approval of substantial tree removal. The tree removal plan must include prescriptions for water quality protection.

The Lake Tahoe Basin Management Unit 2016 Land Management Plan lists a variety of standards and guidelines related to forest treatments and protection of water quality standards including:

- SG4. Design all Forest management activities to prevent violations of applicable water quality standards. [Guideline]
- SG5. Apply current version of the PSW Region Best Management Practices as described in Forest Service Handbook direction for Soil and Water Conservation, Water Quality Management, and Forest Service National Core BMP Technical Guide to all management activities.[Standard]
- SG7. Store fuel and other toxic materials only at designated sites. Prohibit storage of fuel and other toxic materials within SEZs except at designated administrative sites and sites covered by a Special Use Authorization. Refuel outside of SEZs unless there are no other alternatives. [Guideline]

Chapter 528 of Nevada Revised Statutes regarding Forest Practice and Reforestation (NRS 528.053) prohibits the felling of trees, skidding, rigging or construction of roads or landings, or the operation of vehicles, may take place during a logging operation within 50 feet, measured on the slope, of the high-water mark of any lake, reservoir, stream or other body of water unless a variance is first obtained pursuant to subsection 2 from a committee composed of the State Forester Firewarden, the Director of the Department of Wildlife and the State Engineer.

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The California Forest Practice Rules of 2021 outline a variety of requirements associated with the protection of water quality and resources during forest management and timber harvesting including limiting the use of landings, skid trails, and roads during winter operations and ensuring all erosion and ensuring water quality BMPs are in place and functioning for all weather events or conditions. Additionally, all forestry projects within the Basin must comply with any federal and state water quality regulations including the Clean Water Act.

#### 4. Vegetation

Wi	Il the proposal result in:	Yes	0 Z	No, with mitigation	Data insufficien
a.	Removal of native vegetation in excess of the area utilized for the actual development permitted by the land capability/IPES system?		$\boxtimes$		
b.	Removal of riparian vegetation or other vegetation associated with critical wildlife habitat, either through direct removal or indirect lowering of the groundwater table?		$\boxtimes$		
C.	Introduction of new vegetation that will require excessive fertilizer or water, or will provide a barrier to the normal replenishment of existing species?		$\boxtimes$		
d.	Change in the diversity or distribution of species, or number of any species of plants (including trees, shrubs, grass, crops, micro flora and aquatic plants)?	$\boxtimes$			
e.	Reduction of the numbers of any unique, rare or endangered species of plants?		$\boxtimes$		
f.	Removal of stream bank and/or backshore vegetation, including woody vegetation such as willows?		$\boxtimes$		
g.	Removal of any native live, dead or dying trees 30 inches or greater in diameter at breast height (dbh) within TRPA's Conservation or Recreation land use classifications?		$\boxtimes$		
h.	A change in the natural functioning of an old growth ecosystem?		$\boxtimes$		

#### Discussion

The proposed code amendment will allow for increased forest treatment and the use of ground-based mechanized equipment on slopes between 30 and 50 percent within the Basin. Through removal of trees,

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forest treatments in the Basin are typically designed to accomplish forest restoration by increasing forest resilience and decreasing the potential for high severity/catastrophic fires. Removing trees increases horizontal and vertical heterogeneity, which breaks up fuels, can promote tree growth, and provides for diverse wildlife habitat.

Implementors within the Basin currently follow a variety of best management practices associated with terrestrial invasive species control. For example, the Lake Tahoe Basin Management Unit 2016 Land Management Plan) includes several standards and guidelines related to the terrestrial invasive species including:

- SG73. Incorporate prevention and control measures into project planning, management activities and operations to prevent new introductions or contribute to spreading of invasive species, and reduce impacts from existing infestations on NFS lands, or to adjacent lands and water bodies. [Standard]
- SG74. When feasible, employ the following control measures, such as: [Guideline]
  - Use contract and permit clauses to require that the activities of contractors and permittees (including but not limited to special use permits, utility permits, pack stock operators) are conducted to prevent and control the introduction, establishment, and spread of aquatic and terrestrial invasive species.
  - o Include invasive species prevention and control measures in mining plans of operation and reclamation plans.
  - When working in known invasive species infestations during project implementation, equipment and vehicles shall be cleaned before moving to other NFS lands.
  - o Support partner agencies and their programs. e) Use on-site materials where feasible, unless contaminated with invasive species.
- SG75. Gravel, fill, topsoil, mulch, and other materials should be free of invasive species. [Guideline]
- SG76. New infestations are inventoried and known infestations are prioritized and contained, controlled, or eradicated using an integrated management approach. [Standard]

#### 5. Wildlife

Wi	ill the proposal result in:	) }	ָ ט	0 Z	No, with mitigation	Data insufficien
a.	Change in the diversity or distribution of species, or numbers of any species animals (birds, land animals including reptiles, fish and shellfish, benthic organisms, insects, mammals, amphibians or microfauna)?	of [	] [	$\boxtimes$		
b.	Reduction of the number of any unique, rare or endangered species of anim	nals? [		$\boxtimes$		
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C.	Introduction of new species of animals into an area, or result in a barrier to the migration or movement of animals?		
d.	Deterioration of existing fish or wildlife habitat quantity or quality?	$\boxtimes$	

#### Discussion

The proposed code amendment will allow for increased forest treatment and the use of ground-based mechanized equipment on slopes between 30 and 50 percent within the Basin. Through removal of trees, forest treatments in the Basin are typically designed to accomplish forest restoration by increasing forest resilience and decreasing the potential for high severity/catastrophic fires. Removing trees increases horizontal and vertical heterogeneity, which breaks up fuels, can promote tree growth, and provides for diverse wildlife habitat. Wildlife habitat will be protected, and in many cases promoted, by decreasing the potential for catastrophic wildfire and subsequently increasing forest resilience.

Implementors within the Basin must meet all state and federal threatened and endangered species laws and requirements including obtaining clearances and permits from the US Fish and Wildlife Service, the California Department of Fish and Wildlife, and the Nevada Department of Wildlife. Additionally, implementors currently manage for sensitive species such as Goshawks and Northern Spotted Owls. These habitat areas are mapped within the Basin and have a strict set of criteria for management. For example, the Lake Tahoe Basin Management Unit 2016 Land Management Plan includes standards and guidelines for the protection of species and associated habitats including, but not limited to:

- SG43. On a project specific basis, prescribe measures needed to provide for the diversity of plant and animal communities and support the persistence of native species. [Guideline]
- SG44. During project development, evaluate the project area, including any designated critical habitat, for the habitat suitability and/or occurrence of TEPCS species. [Standard]
- SG45. Implement Limited Operating Periods (LOPs) for TEPCS species and TRPA identified native species (Plan Appendix C) when determined necessary through biological review. [Standard]
- SG47. Decontaminate field clothing and gear prior to entering and when moving between cave habitats to prevent the spread of pathogens and disease. [Guideline] SG48. Maintain and restore the hydrologic connectivity of streams, meadows, wetlands, and other special aquatic features by implementing corrective actions where BMPs have not been implemented or are not effective on roads and trails that intercept, divert, or disrupt natural surface and subsurface water flow paths. [Guideline]
- SG63. Outside of WUI defense zones, salvage harvests are prohibited in California spotted owl PACs and known carnivore den sites unless a biological evaluation determines that the areas proposed for harvest are rendered unsuitable for the purpose they were intended by a catastrophic stand-replacing event. [Standard]

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- SG65. During project-specific analysis determine appropriate amount of coarse woody debris to provide for long-term habitat quality. Coarse woody debris is generally comprised of at least three downed logs per acre in varying stages of decay. [Guideline]
- SG67. Do not construct roads and trails within ¼ mile of the top or base of known cliff nesting raptor sites. [Standard]

#### 6. Noise

Wi	I the proposal result in:	Yes	0 N	No, with mitigation	Data insufficient
a.	Increases in existing Community Noise Equivalency Levels (CNEL) beyond those permitted in the applicable Area Plan, Plan Area Statement, Community Plan or Master Plan?				
b.	Exposure of people to severe noise levels?		$\boxtimes$		
C.	Single event noise levels greater than those set forth in the TRPA Noise Environmental Threshold?		$\boxtimes$		
d.	The placement of residential or tourist accommodation uses in areas where the existing CNEL exceeds 60 dBA or is otherwise incompatible?		$\boxtimes$		
e.	The placement of uses that would generate an incompatible noise level in close proximity to existing residential or tourist accommodation uses?		$\boxtimes$		
f.	Exposure of existing structures to levels of ground vibration that could result in structural damage?				

#### Discussion

The proposed code amendment will not increase noise disturbance or pollution above current allowances within the Tahoe Basin.

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# 7. Light and Glare Will the proposal: Yes a. Include new or modified sources of exterior lighting? X b. Create new illumination which is more substantial than other lighting, if any, X within the surrounding area? Cause light from exterior sources to be cast off -site or onto public lands? $\boxtimes$ d. Create new sources of glare through the siting of the improvements or through Xthe use of reflective materials? Discussion The proposed code amendment will not significantly impact light and glare. 8. Land Use Will the proposal: Yes

Discussion

The proposed code amendment will not significantly impact land use.

Plan Area Statement, adopted Community Plan, or Master Plan?

b. Expand or intensify an existing non-conforming use?

a. Include uses which are not listed as permissible uses in the applicable Area Plan,

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X

X

# 9. Natural Resources No, with mitigation Will the proposal result in: Yes a. A substantial increase in the rate of use of any natural resources? X b. Substantial depletion of any non-renewable natural resource? X Discussion While this code amendment would promote the removal of trees through ground-based mechanical equipment and may have implications for an increased pace and scale of treatment within the Basin, the benefits of decreased high severity fire risk and increased forest resilience outweigh the potential removal of trees. Likewise, any impacts from the depletion of trees or use of trees by this action would be offset by the potential savings of more trees from high severity wildfire or a mass mortality event from insects and disease spreading through even-aged and dense tree stands. 10. Risk of Upset Will the proposal: Yes a. Involve a risk of an explosion or the release of hazardous substances including, X but not limited to, oil, pesticides, chemicals, or radiation in the event of an accident or upset conditions?

#### Discussion

The proposed code amendment would not have significant impacts regarding risk of upset.

b. Involve possible interference with an emergency evacuation plan?

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X

# 11. Population mitigation Will the proposal: Yes a. Alter the location, distribution, density, or growth rate of the human population Xplanned for the Region? b. Include or result in the temporary or permanent displacement of residents? X Discussion The proposed code amendments would not have a significant impact on population. 12. Housing Will the proposal: a. Affect existing housing, or create a demand for additional housing? To determine if the proposal will affect existing housing or create a demand for additional housing, please answer the following questions: Will the proposal decrease the amount of housing in the Tahoe Region? X 2. Will the proposal decrease the amount of housing in the Tahoe Region $\boxtimes$ historically or currently being rented at rates affordable by lower and very-

Discussion

low-income households?

income households?

The proposed code amendments would not have a significant impact on housing.

b. Will the proposal result in the loss of housing for lower-income and very-low-

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X

#### 13. Transportation / Circulation No, with mitigation Will the proposal result in: Yes Generation of 100 or more new Daily Vehicle Trip Ends (DVTE)? $\boxtimes$ Changes to existing parking facilities, or demand for new parking? X Substantial impact upon existing transportation systems, including highway, Xtransit, bicycle or pedestrian facilities? d. Alterations to present patterns of circulation or movement of people and/or Xgoods? e. Alterations to waterborne, rail or air traffic? XIncrease in traffic hazards to motor vehicles, bicyclists, or pedestrians? XDiscussion The proposed code amendments would not have a significant impact on transportation. 14. Public Services Data insufficient mitigation Will the proposal have an unplanned effect upon, or result in a need for new or Vo, with altered governmental services in any of the following areas?: Yes Fire protection? XPolice protection? XSchools? X d. Parks or other recreational facilities? $\boxtimes$

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e. Maintenance of public facilities, including roads?

X

f.	Other governmental services?		$\boxtimes$					
	cussion e proposed code amendments would not have a significant impact on public serv	ices.						
15	5. Energy				<b>-</b>			
Wi	Il the proposal result in:	Yes	0 Z	No, with mitigation	Data insufficient			
a.	Use of substantial amounts of fuel or energy?		$\boxtimes$					
b.	Substantial increase in demand upon existing sources of energy, or require the development of new sources of energy?		$\boxtimes$					
Discussion  Ground-based mechanical equipment for tree removal uses diesel fuel. It is not anticipated that the amount of diesel fuel used will be substantially larger than what is currently used within the Basin for tree removal								
	ojects. For this reason, the proposed code amendments will not have a significant <b>b. Utilities</b>	impact	on er	nergy.				
	cept for planned improvements, will the proposal result in a need for new tems, or substantial alterations to the following utilities:	Yes	0 N	No, with mitigation	Data insufficient			
a.	Power or natural gas?		$\boxtimes$					
b.	Communication systems?		$\boxtimes$					
C.	Utilize additional water which amount will exceed the maximum permitted capacity of the service provider?		$\boxtimes$					
d.	Utilize additional sewage treatment capacity which amount will exceed the maximum permitted capacity of the sewage treatment provider?		$\boxtimes$					

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e.	Storm water drainage?		$\boxtimes$		
f.	Solid waste and disposal?		$\boxtimes$		
Dis	cussion				
The	e proposed code amendments will not have a significant impact on utilities.				
17	7. Human Health				ىد
Wi	Il the proposal result in:	Yes	o N	No, with mitigation	Data insufficient
a.	Creation of any health hazard or potential health hazard (excluding mental health)?		$\boxtimes$		
b.	Exposure of people to potential health hazards?		$\boxtimes$		
Dis	cussion				
The	e proposed code amendments will not have a significant impact on human health				
18	3. Scenic Resources / Community Design			_	<b>+</b>
Wi	Il the proposal:	Yes	0 N	No, with mitigation	Data insufficient
a.	Be visible from any state or federal highway, Pioneer Trail or from Lake Tahoe?		$\boxtimes$		
b.	Be visible from any public recreation area or TRPA designated bicycle trail?		$\boxtimes$		
C.	Block or modify an existing view of Lake Tahoe or other scenic vista seen from a public road or other public area?		$\boxtimes$		
d.	Be inconsistent with the height and design standards required by the applicable ordinance or Community Plan?		$\boxtimes$		
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e.		stent with the TRPA Scenic Quality Improvement Program (SQIP) or view Guidelines?						
Dis	scussion							
Wh sig Ad	nile there m nificantly le Iditionally, in	code amendment will not have long-term impacts on scenic resources ay be short-term localized impacts from treatment units, these impacts ss than the potential scenic impacts of a catastrophic wildfire or large in applementors within the Basin must currently meet all TRPA scenic requithe TRPA Code of Ordinances.	will b nsect a	e tem and di	porary sease e	and vent.		
exa	ample, the l	entors currently take into consideration scenic impacts related to forestake Tahoe Basin Management Unit 2016 Land Management Plan lists toted to scenic resources:		_				
	• SG117. Scenic resource and built environment guidelines are incorporated into management activities and into the design and development of agency facilities.							
	• SG116. All resource management and permitted activities shall meet or exceed the established scenery objectives shown on the Minimum Scenic Integrity Objective (MSIO) map. Utilize techniques such as: [Standard]							
	<ul> <li>Size areas cleared for management objectives to meet minimum requirements for operability and safety.</li> </ul>							
	<ul> <li>With consideration for scenic objectives, maintain clumps of trees within cleared areas if they do not pose a safety or operational risk.</li> </ul>							
	<ul> <li>Maintain understory vegetation within cleared corridors if they do not pose a safety or operational risk</li> </ul>							
	9. Recrea				Vo, with mitigation	Jata nsufficient		
WI	II the propo	sal:	Yes	o Z	No, with mitigatio	Data insuff		
a.	Create add	ditional demand for recreation facilities?		$\boxtimes$				
b.	Create add	ditional recreation capacity?		$\boxtimes$				
c. Have the potential to create conflicts between recreation uses, either existing or $\square$								

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proposed?

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d.	Result in a decrease or loss of public access to any la lands?	ıke, waterway, or public					
Dis	cussion						
There may be short-term, localized impacts from temporary closures to public lands and recreation areas in the event a treatment unit overlaps a recreation site; however, these impacts will be temporary and significantly less than potential long-term impacts associated with a catastrophic wildfire that could include permanent closure and complete loss of a recreation site and resources.							
20	. Archaeological / Historical		Yes	0 N	No, with mitigation	Data insufficien +	
a.	Will the proposal result in an alteration of or adverse to a significant archaeological or historical site, struct			$\boxtimes$			
b.	Is the proposed project located on a property with a historical, and/or archaeological resources, including other regulatory official maps or records?	-		$\boxtimes$			
C.	Is the property associated with any historically signifi persons?	cant events and/or sites or		$\boxtimes$			
d.	Does the proposal have the potential to cause a phy affect unique ethnic cultural values?	sical change which would					
e.	Will the proposal restrict historic or pre-historic religion the potential impact area?	ious or sacred uses within		$\boxtimes$			
Discussion Implementors must comply with all State Historic Preservation Office regulations as outlined by the States of Nevada and California. These requirements typically include surveying for known or unknown archaeological and historical resources prior to implementation and flagging and avoiding of resources when possible. Additionally, implementors regularly consult and coordinate with the Washoe Tribe regarding culturally sensitive and important resources within the Basin and any potential restoration or management impacts.							
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21	. Findings of Significance			No, with mitigation	Data insufficient
		Yes	<sup>O</sup> Z	No, miti	Dat insu
a.	Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, 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 or Nevada history or prehistory?				
b.	Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals? (A short-term impact on the environment is one which occurs in a relatively brief, definitive period of time, while long-term impacts will endure well into the future.)		$\boxtimes$		
C.	Does the project have impacts which are individually limited, but cumulatively considerable? (A project may impact on two or more separate resources where the impact on each resource is relatively small, but where the effect of the total of those impacts on the environmental is significant?)				
d.	Does the project have environmental impacts which will cause substantial adverse effects on human being, either directly or indirectly?		$\boxtimes$		
Dis	cussion				
The	e proposed code amendments will not have significant impacts.				

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# On the basis of this evaluation: a. The proposed project could not have a significant effect on the environment and a finding of no significant effect shall be prepared in accordance with X YES □ NO TRPA's Rules of Procedure b. The proposed project could have a significant effect on the environment, but due to the listed mitigation measures which have been added to the project, could have no significant effect on the environment and a mitigated finding of ☐ YES X NO no significant effect shall be prepared in accordance with TRPA's Rules and Procedures. c. The proposed project may have a significant effect on the environment and an environmental impact statement shall be prepared in accordance with this ☐ YES X NO chapter and TRPA's Rules of Procedures. Date Signature of Evaluator

**Determination:** 

Title of Evaluator

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