TOPANGA CREEK WATERSHED MANAGEMENT PLAN:

TOPANGA CANYON BOULEVARD VEGETATION MANAGEMENT IMPLEMENTATION PLAN:

2013-2017 PILOT PROJECT

APRIL 2013

(Version 10/22/13)



DEPARTMENT OF TRANSPORTATION

DISTRICT 7 100 S. MAIN ST. LOS ANGELES, CA 90012 PHONE (213) 897-0362 FAX (213) 897-0360 TTY 711 www.dot.ca.gov



April 24, 2013

Attention:

Topanga Canyon Boulevard (State Route-27) Roadside Vegetation Committee ("Committee") Susan Nissman, Senior Field Deputy for County Supervisor Zev Yaroslavsky Kara Seward, Committee Co-Chair, District Director for State Senator Fran Pavley

Dear Committee:

The California Department of Transportation (Caltrans) is committed to working with the community of Topanga to implement vegetation control methods for State Route-27 (Topanga Canyon Boulevard) so that synthetic herbicides will be unnecessary and so that all fire and public safety legal requirements are met in a timely manner.

Toward that end, Caltrans has collaborated with the Topanga community and other public agencies from June 2012 until the present to develop Best Management Practices (BMPs) and a feasible joint Work Plan. This collaboration has involved cooperation, coordination, and communication among all involved parties. The BMPs and Work Plan will be incorporated into Caltrans' Vegetation Control Plan for Topanga and archived at Caltrans District 7 (Biology Library & Maintenance Library) and the local field offices of the Los Angeles County Supervisor District 3 and State Senate District 27.

Caltrans anticipates continued coordination with the Committee for monitoring, reevaluation, and adaptive management of BMPs and Work Plan for the foreseeable future. If it becomes necessary for Caltrans to consider introducing a new BMP or substantially altering the Vegetation Control Plan, Caltrans will reengage with Topanga's elected representatives' offices and the community. We look forward to continuing to provide high quality public safety and service as well as sound environmental stewardship for the state.

Sincerely,

DANIEL J. FREEMAN Deputy District Director

California Department of Transportation - District 7

Received:

SUSAN NISSMAN, Committee Co-Chair

KARA SEWARD, Committee Co-Chair

Management Plan: Topanga Canyon Boulevard Vegetation Management Implementation Plan, 2013-2017. Office of LA County 3rd Supervisorial District (Zev Yaroslavsky) Office of Assembly District 50 (Richard Bloom)

Senior Field Representative 9/11/2013

Name/Title/Date California Department of Transportation, Maintenance, District 7 Beth Burnam Co President North Topanga Canyon Fire Safe Council (NTCFSC) Resource Conservation District of the Santa Monica Mountains (RCDSMM)

Name/Title/Date (Consulting party as per Christy Brigham, PhD, Chief of Planning, Science, and Resource Management, 9/12/13) Name/Title/Date Santa Monica Mountains National Recreation Area (NPS) Topanga Association for a Scenic Community (TASC) JOSEPH ROSENDO, YresiDent, 7/10/ Topanga Chamber of Commerce (TCoC

We, the undersigned, as representatives of the stakeholders on the Topanga Canyon Boulevard Roadside Committee (July 2012 to May 2013), approve and agree to the attached document, *Topanga Canyon Watershed*

	Mur Chi	JAMES GRASSO/BOARD / JUX 10, 2013
	Topanga Coalition for Emergency Preparedness (T-CEP)	Name/Title/Date
/	Be July	BEN Allanoff Chair 7.40.13
	Topanga Creek Watershed Committee (TCWC)	Name/Title/Date
	Stacut Medu	STACY SLEDGE, PRESIDENT 7-10-13
	Topanga Town Council (TTC)	Name/Title/Date

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Attachment: Supplemental Document: Topanga Creek Watershed Management Plan: Topanga Canyon Boulevard Vegetation Management Implementation Plan 2013-2017: Maps (*July 2013*)

Summary

<u>Purpose</u>

The purpose of this document and all associated supplemental documents is to identify long-term strategies to manage the road shoulder vegetation without the use of herbicides along State Route 27 (SR-27, aka Topanga Canyon Boulevard or TCB) from the Pacific Coast Highway to the Los Angeles City limit just south of Mulholland Drive.

The primary strategy for fulfilling the Topanga Canyon Boulevard Roadside Committee (TCBRC) mission is for Caltrans District 7, state and local elected officials, the Topanga community, the County of Los Angeles, and other public agencies to cooperate and coordinate efforts in order to responsibly manage roadside vegetation along TCB. The goals are to be in full compliance with county and state fire ordinance requirements prior to fire season, to maintain or help improve watershed health, and to maintain or add to the scenic value of the canyon. Cooperation and coordination include a variety of best management practices and delivery mechanisms, adaptive management, and regularly scheduled communication among all the stakeholders in five-year cycles for the foreseeable future.

The TCBRC collectively support the outcomes anticipated from this document and supplemental documents, is committed to positive results, and is responsible for responding with corrective actions, if needed, for proper and best implementation.

Context: The Topanga Creek Watershed Management Plan

Between 1996 and 2002, over 100 stakeholders, including representatives of local and regional agencies, community groups, and elected officials, worked collaboratively to develop the Topanga Creek Watershed Management Plan (TCWMP 2002). This consensus based document reflected the input of all stakeholders, outlined a variety of goals and objectives, and highlighted the hazardous nature of Topanga (fire and flood) as well as biologically sensitive species and habitats (http://www.rcdsmm.org/topanga-creek-watershed-research-reports).

Specific goals from the watershed management plan (pgs. xiii-xiv) are relevant to roadside vegetation management and public safety. These goals include but are not limited to:

Education and Outreach:

- Promote greater awareness and understanding of the complex relationships between humans and the watershed necessary to preserve native biodiversity and natural processes.
- Coordinate Federal, State and County regulations to provide a comprehensive integrated management plan.
- Encourage agencies and utilities to adhere to the same guidelines and regulations as nongovernmental agencies and citizens.
- Develop an outreach program to inform residents of flood and fire hazards and ways to protect themselves.
- Provide a community forum for education regarding Best Management Practices which can reduce the flood and fire hazard.

- Provide a cooperative forum encouraging coordinated voluntary efforts to minimize the flood and fire hazard.
- Evaluate existing risks to public safety and develop programs to address them.

Flood and Fire Hazard Protection:

- Develop an integrated, environmentally sustainable strategy for reducing flood and fire hazards.
- Encourage all property owners in the watershed to contribute to flood and fire hazard mitigation.

Transportation:

• Preserve integrity and safety of transportation corridors through a sustainable maintenance program that minimizes impacts to native biodiversity and natural processes.

Water Quality:

- Improve water quality.
- Preserve or improve water quality for maximum use and enjoyment by reducing erosion, sedimentation, point and non-point source pollution.

In addition to the goals noted above, the TCWMP 2002 also recommended specific actions. Those related to the management of road shoulder vegetation include but are not limited to:

Recommendation Number:

- 3.14 Continue training workshops for road maintenance crews on tree pruning and Best Management Practices.
- 4.38 Continue management of road shoulder brush clearance for fire safety and line of sight without the use of herbicides.
- 4.39 Brush clearance methods should be done so as to minimize soil disturbances by leaving a 4-6
 inch stubble, leaving roots in place, and encouraging replacement of flash fuels like grasses with
 perennial natives which would require less clearance.
- 5.35 Establish Best Management Practices for any work that impacts stream courses and adjoining habitats. Make available to all residents.
- 6.7 Develop a program to eradicate giant cane (*Arundo donax*), castor bean (*Ricinus communis*), periwinkle (*Vinca minor*), tree tobacco (*Nicotania glauca*), German ivy (*Senecio sp.*) and Algerian ivy (*Hedera sp.*) without the use of herbicides.

As one of the consistent participants in this process, Caltrans took steps to build upon the issues identified within the TCWMP 2002 by initiating the *Topanga Environmental Corridor Study on SR-27 in the County of Los Angeles: From State Route 1 (Pacific Coast Highway) to the Top of Topanga* (07-LA-27, PM 0,0/9.0, EA 930185). Although this document has not been finalized, it identified and addressed the need for a comprehensive and cohesive management strategy that would protect and preserve the ecological resources along SR-27. This document did not specifically address any impacts from annual road shoulder vegetation management other than those directly associated with erosion and slope impacts. Discussion of pollution inputs and deposition focused on those associated with vehicle emissions. However, it did state, "In Topanga Canyon, the amount of

chemicals in the watershed does not seem to be a cause for concern. Nevertheless, precautions should be made to limit the amount absorbed by the environment. For example, in Topanga Canyon, Caltrans maintenance crews have already eliminated the use of herbicides to control for weeds." (pg 73)

Additionally, the document suggested that "DEP and Maintenance need to also develop a working handbook illustrating the important sensitive areas in the canyon and where activities should and should not be performed. The handbook should contain maps of the area, timeframe for activities, and BMPs that can be employed while performing routine maintenance." (pg 90)

The practices outlined in the Topanga Environmental Corridor Study supported the understanding (verbal agreement) with the community that road shoulder fuel modification would be conducted in such a way as to: a) minimize slope erosion and de-stabilization, b) delay clearance in specific sensitive seep areas that are known breeding sites for amphibians until after breeding season, and c) without the use of herbicides. This understanding worked effectively between the mid-1990s and 2012.

In April 2012, changes in Caltrans personnel and finances resulted in herbicide being applied along TCB. This application was done in order to comply with fire regulations for the year and the herbicides were on Caltrans' approved list for use along state routes. Members of the community subsequently contacted LA County Supervisor Yaroslavsky's office. Susan Nissman, Senior Field Deputy, contacted Dan Freeman, Deputy District Director of Maintenance at Caltrans, and negotiated a temporary halt to herbicide use along TCB in the Topanga Creek watershed.

The Topanga Canyon Boulevard Roadside Committee

"The mission of the Topanga Canyon Boulevard Roadside Committee, an ad hoc advisory group working collaboratively with related public agencies and community organizations, is to plan and execute sustainable solutions by April 2013 to manage roadside brush clearance along Topanga Canyon Boulevard/State Route 27 that promote public safety and best management practices for fire safety, invasive plant management, and protection of the natural environment of the Topanga Creek Watershed by using methods, other than herbicides, consistent with the goals and policies of the Topanga Creek Watershed Management Plan of 2002."

In order to address the future maintenance of the mandated 10' of managed roadside required by fire safety, regulations for sightline and invasive plant management, and at the request of community organizations, the ad hoc Topanga Canyon Boulevard Traffic Committee was reactivated as the Topanga Canyon Boulevard Roadside Committee (TCBRC). The founding members included representatives of LA County Supervisor Zev Yaroslavsky's office, Senator Fran Pavley's office, Assembly member Brownley's office, Caltrans, LA County Fire Forestry, the Resource Conservation District of the Santa Monica Mountains (RCDSMM), the National Park Service (NPS), the Topanga Creek Watershed Committee (TCWC), Topanga Association for a Scenic Community (TASC), the North Topanga Canyon Fire Safe Council (NTCFSC), Topanga Coalition for Emergency Preparedness (T-CEP), Arson Watch, Topanga Chamber of Commerce, and Topanga Town Council (TTC). A full list of participants is in Appendix H.

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¹ The TCB Traffic Committee was active from 2000 to 2005.

The first meeting was held at the Topanga Library on July 11 2012.² The draft Mission Statement was formulated during this initial meeting in which Caltrans agreed with the intent to clear the roadside of TCB without the use of herbicides.³ At the August 29 meeting, it was agreed to develop an 'all-inclusive seasonal map' using information and maps from public agencies and community organizations that would chart a variety of elements such as drains, weeds, invasive plants, culverts, seepage areas, sensitive areas, sight-lines, fire hazards, and slope stability. The Mapping and Best Management Practices subcommittees were formed with the purpose of building a database of conditions along TCB by parcel number, post mile, and recommended best management practices. The deadline for completing an integrated Work Plan was set for April 2013. An evaluation framework and monitoring plan for a five year target were also developed.

From December 2012 to April 2013, the Mapping Subcommittee members worked with James Fowler and Henry Harris of Caltrans Roadside Maintenance to survey TCB from the Pacific Coast Highway to the Top O' Topanga mobile home park (PM 0.0-10.8) and to create a comprehensive database of features, plants, parcels, and other relevant data in the Caltrans right of way (Appendix A). The Best Management Practices (BMP) Subcommittee identified and recommended BMPs that can provide alternatives to the use of synthetic herbicides now or in the future. These practices were integrated into the mapping data by parcel number and post mile. A Communication Subcommittee was formed in April 2013 to provide community outreach, press releases, and strategies for volunteer community participation in the herbicide-free maintenance of TCB.

By the end of April 2013, the TCBRC produced a Draft Implementation Plan and a Draft Work Plan, with general agreement from all contributing members of the committee. These documents include a five year compliance timeline, monitoring plan, a full map of TCB that incorporates data collected in the mapping process, BMP practices and suitable sites, designated Caltrans areas of responsibility, and potential sites for community participation. The plans are expected to be carried out through 2017, at which time a second five-year plan will be created.

Best Management Practices

Sixteen potential least toxic, non-synthetic vegetation management methods were identified and assessed by the Best Management Practices (BMP) Subcommittee. Information sources for the BMPs included TCBRC and

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² 40 Attendees: Susan Nissman, Timothy Pershing, Lauren Gay (Yaroslavsky); Kara Seward (Pavley); Louise Rishoff (Brownley); Dan Freeman, Lauren Wonder, Paul Lofthouse, Ed Siribohdi, Ed Aguilar, Patrick Chandler, Marvin Pruitt, Eric Hanson, Peter Champion, Skylar Feltman, Jim Fowler (Caltrans); Kevin Johnson (Fire Department/Forestry Division); Stacy Sledge (Topanga Town Council/TTC); James Grasso (Topanga Coalition for Emergency Preparedness/T-CEP); Roger Pugliese, Ken Mazur (Topanga Association for a Scenic Community/TASC); Ben Allanoff (Topanga Creek Watershed Committee/TCWC); Beth Burnam (North Topanga Canyon Fire Safe Council/NTCFSC); Joseph Rosendo, Kimberlie Nitti (Topanga Chamber of Commerce/TCC); Judy Cherpin, Ben Squire (Topanga Arson Watch); Rosi Dagit, Clark Stevens (RCDSMM); Michael Adler, William Bowling, Bill Buerge, Bill Carrier, Carrie Lovelace Carrier, Ellen Geer, Gail McDonald-Tune, Dorothy Reik, Jill Rothstein (community observers); Flavia Potenza, Anne-Marie Dokin (The Topanga Messenger).

³ The Mission Statement was adopted by all members at the August 29 TCBRC meeting.

BMP subcommittee members, formal and informal scientific studies related to nontoxic roadside vegetation management,⁴ and consultations with landscape maintenance and vegetation control specialists. Each alternative was evaluated against 20 criteria developed through an iterative collaborative process (Appendix B), and then ranked into the following four tiers:

- Tier 1 Methods to Use in Current Year (2013)
 - Caltrans slope mower
 - Composite mulch (Aguinaga or others that meet Fire Dept. specifications)*
 - Native Plants (Table 1)*
 - Weed-whacker
- Tier 2 Continue to Research for Possible Future Use
 - Hot foam treatment from Weeding Technologies Limited ("Weedingtech")*
 - Hot water/steam*
 - Minor Concrete*
 - Plant-based spray treatments (e.g. clove oil, citrus, vinegar)*
 - Weed mats?
- Tier 3 Potential But Less Likely to Succeed
 - Herbicidal soaps*
 - High-pressure water*
- Tier 4 No Longer under Consideration
 - Glass mulch
 - Grader
 - Grill blade
 - Power pruner
 - Rock mulch

* New method for TCB and/or Caltrans: If used, BMP will be tested in a pilot plot prior to any broader use in Topanga.

In collaboration with the Mapping subcommittee, Tier 1 BMPs for 2013 were matched with the appropriate conditions and terrain along TCB, taking into consideration human and environmental health and safety. Implementation by Caltrans is considered a pilot project to test and refine BMP uses and delivery mechanisms. Tier 2 and Tier 3 BMPs, as well as new tools and methods, will continue to be researched and evaluated by the BMP subcommittee and Caltrans for future use.

⁴ Special attention was given to a recent report commissioned by Caltrans from the University of California-Davis to evaluate alternative roadside vegetation management methods. (Report #CA10-1104, "Vegetation and Debris Control Methods for Maintenance-Friendly Roadside Design", 6/30/10. University of California-Davis: Advanced Highway Maintenance and Construction Technology Research Center (AHMCT), Department of Mechanical and Aerospace Engineering.)

Table 1. Approved Native Plants for Planting along TCB (approved by LA County Fire and RCDSMM), 2013.⁵

Scientific Name GRASSES	Common Name	Description	Slope	Exposure	Soil type	Height/ Width	Propagation	Blooms
Leymus triticoides	Creeping wild rye	Small yellow flower clusters	all	Sun, part- shade	all	8"-3'/4"	Seeds, plugs, Mow 2x/year	Spring; year round if watered
Sisyrinchium bellum	Blue-eyed grass	Small blue- purple flowers	all	sun	all	1'/1'	Seeds, plugs, Mow 2x/year	Jan-Jun, dormant in summer
Sisyrinchium californicum	Golden eyed grass	Small golden flowers	all	sun	all	8"/1'	Seeds, plugs, Mow 2x/year	Late spring
Achillea millefolium californica	Dwarf yarrow	White cluster blooms	all	sun	all	1'/6"	Seed or plugs, Mow every 6-8 weeks	Spring; Blooms year round if watered
Diplacus aurantiacus; Diplacus rutilus	Sticky Monkey flower	Small orange- yellow flowers; Hummingbird plant	All	Sun, Part- shade	All	3'/3'	Seed or plugs, Mow 1x/yr in early summer	Rainy season
Eschscholzia californica	СА рорру	Orange yellow flowers, state flower	all	sun	all	8"/1'	Seed, Mow 1x/year after bloom	Mar-May
Fragaria californica	CA strawberry	Small white flowers; red fruit	gentle	shade	Heavy, sandy	4"/ flat	Plugs, Mow 2x/year	May-Aug
Mahonia repens	Creeping barberry	Small yellow flowers; blue- purple fruit	riparian	Part-sun, shade	Creek banks	1'/3'	Plugs, spreads by rhizomes, Mow 2x/year	Spring- summer
Zauschneria californica mexicana	CA Fuschia	Red trumpet flowers; Hummingbird plant	all	part shade	Under oaks	1'/1'	Plugs, Mow 1x/year	Late summer

To establish native plants, the best time of year to plant is in late fall after the first rain event. All will benefit from weekly or monthly watering the first year, especially if rain is scarce.

Numerous locations along the road shoulder are currently vegetated by annual flashy fuels such as invasive grasses. Replanting these areas with perennial natives that meet Fire Department criteria should reduce annual road shoulder maintenance. Expansion of a native "garden" along the road shoulder will improve both the aesthetics of the road and its ecological function.

⁵ All plants meet the following criteria: 1) Native to the watershed; 2) Low flammability; 3) Low-growing and/or easily mowed; 4) Easily obtained from a local nursery; 5) Aesthetically pleasing with bloom/dormancy times matched to fire management times.

Strategies for Implementation

Several avenues for strategic implementation of the Work Plan were developed by the BMP subcommittee, TCBRC, and internally within Caltrans, to be used in tandem. These avenues include Caltrans' written institutional memory, community-related delivery mechanisms, agreed-upon feasible timelines, and adaptive management. Regular communication via quarterly meetings of the TCBRC is also expected. In the spirit of cooperation and coordination, it was recognized that all stakeholders represented on the TCBRC (including Caltrans, the Topanga community, other public agencies, and locally elected officials) will be jointly responsible for ensuring implementation is carried out with best faith efforts.

Caltrans' Institutional Memory

Institutional memory within Caltrans was identified as critical for ensuring the work plan is implemented. The strategy to solidify institutional memory is three-fold:

- 1) This Work Plan and Implementation Plan approved and signed by Maintenance Director Dan Freeman. This was done on April 24, 2013.
- 2) Special notations included in the annual Vegetation Control Plan for Topanga. The language was approved by Director Freeman and included in the Vegetation Control Plan by the Landscape Specialist in charge of Maintenance Support (Appendix C).
- 3) BMPs and delivery mechanisms detailed on the Work Plan spreadsheet and maps. These were completed during the creation of the Work Plan and maps.

Sensitive Areas:

The TCBRC recognizes that biologically sensitive areas may need to be managed differently than the rest of the TCB. Accordingly, sensitive areas will be flagged by the community prior to the work of Caltrans' maintenance crews. In Lower Topanga, where work must be done by Caltrans for safety reasons, TCWC will act as the Community Liaison to Caltrans (with TASC as the alternate liaison) when work is being done around sensitive areas, and the RCDSMM will train Caltrans crews in appropriate management techniques for these areas. For Central and Upper Topanga, community groups may take responsibility for managing sensitive areas, to be determined at the spring meeting each year. The list of sensitive areas and management recommendations are in Appendix C and Appendix F.

Community-related Delivery Mechanisms for BMPs

A delivery mechanism is a tool or method for providing a BMP. Eight delivery mechanisms were identified and assessed by the BMP subcommittee; six emerged as viable or potentially viable for use in Topanga. These include:

1) Caltrans employees – The regular maintenance crews of Caltrans who work in Topanga Canyon. The crews are overseen by the Maintenance Supervisor for SR-27. The TCBRC will be notified in advance of work via by the Caltrans Office of Public Affairs, with member groups forwarding information to their constituencies.

- 2) Community volunteers Residents of Topanga who choose to assist with maintaining the roadside. Volunteering can be done as a group or communal effort (for example, manual clearing in conjunction with the Topanga Days Parade was discussed as a possibility), or by individual owners who take responsibility for managing the frontage along their property. Volunteer efforts will be coordinated by the TCBRC at the spring meeting so that they happen in cooperation with Caltrans and with recognition of the predicted needs of the upcoming fire season.
- 3) Contractors Private companies that can clear in Topanga and arrange for lane/shoulder closures as necessary. These will be hired by private owners who choose to do so and are the responsibility of those owners. A list of contractors who have worked in Topanga is in Appendix D.
- 4) California Conservation Corps The California Conservation Corps (CCC) is a state agency that hires men and women ages 18 to 25 for a year of natural resource work and emergency response. The TCBRC' community and/or elected officials members will explore annually grants or other funding for the purpose of hiring the CCC (or the Los Angeles Conservation Corps) to help clear vegetation along SR-27, in particular on the steep portions of the roadside. When and if such funding becomes available, the TCBRC will ensure that Caltrans and the Corps coordinate the workload.
- 5) Caltrans Maintenance Consent Letter This would be required for use by community volunteers (see #2 above), such as for when they manage TCB's sensitive areas. It is obtained from Caltrans Maintenance, takes a few days to gain approval, and includes a waiver for Caltrans liability. It is expected and recommended that volunteers will carry their own health insurance. A lane or shoulder closure can be coordinated with Caltrans Maintenance if needed. Sample Letter is in Appendix D.
- 6) No-fee Encroachment Permit This would be required for use by contractors (see #3 above). It must be submitted by a government entity or community umbrella organization, and takes several weeks to be approved. Contractors must carry \$1,000,000 liability, \$1,000,000 damage, and \$2,000,000 in death benefits. Sample Permit is in Appendix D.

The BMP subcommittee also considered and discarded court referrals and correctional workers as not viable.

Timelines

All work is expected to be completed by June 1st annually as required by and in cooperation with the LA County Fire Department, and as determined by fire conditions and budget constraints. Ideally it follows the phasing schedule for the percentage of work completed as noted below (also see Table 2):

Yr 1: 40% by June 1; 60% by July 1; 80% by Aug 1; 100% by Sept 1

Yr 2: 60% by June 1; 80% by July 1; 100% by Aug 1

Yr 3: 80% by June 1; 100% by July 1

Yr 4: 100% by June 1

Yr 5: 100% by June 1, reassess plan for next 5 years

In Year 1:

Timeline

Central Topanga is targeted to be done by June 1st, Upper Topanga by July 1st, and Lower Topanga by August 1st, with leeway until September 1st, as determined by seasonal and roadside conditions.

BMPs

Four BMPs will be used: weed whacking, slope mowing, mulch, and native plants. Slope mowing, weed whacking, and mulching are expected to be used primarily by Caltrans or contractors. Weed whacking, mulch, and native plants are BMPs recommend for private owners or community volunteers. Pilot plots of mulch and native plants are proposed for certain sections of SR-27. The recommended native plants were showcased by the Topanga Chamber of Commerce in April 2013 and written educational materials will be created by the Communications Subcommittee.

Adaptive Management

Adaptive management uses monitoring, reevaluation, and modification of resource management decisions to respond to changing environmental or social conditions. For Topanga, an evaluation framework was created to guide the assessment and modification of BMPs, delivery mechanisms, and timelines over a five year period. The framework includes seven categories: fire safety, implementation timeframe, total cost, delivery sustainability, environmental toxicity, erosion control, and worker safety (Appendix E). The framework is expected to: 1) Establish standards for decision-making on alternative methods and mechanisms; 2) Allow TCBRC members to explain and defend final decisions to constituents or superiors; and 3) Act as a guide for other communities and Caltrans Districts that wish to replicate the process undertaken in Topanga. Annual results from the evaluation framework report will help inform future methods and research.

The protocol for adaptive management in Topanga is outlined in Table 2 and includes the following:

1) <u>Monitoring</u>: Trimesterly on-the-ground assessments of the status and effectiveness of BMPs and vegetation conditions.

When: Ideally assessments are conducted in January, June, and September. The January assessment looks at current and projected roadside conditions as well as predicted weather for the year. The June and September assessments can be done in conjunction with fire inspections and assess current conditions and the BMPs.

Who: The assessments should be conducted jointly by appropriate representatives from Caltrans, the LA County Fire Department, local elected officials, and the TCBRC. The LA County Fire Department has agreed to supply copies of their inspection reports upon request.

How: Assessments should utilize Caltrans' standard assessment tools, such as for erosion, as well as the attached checklists specific to Topanga (Appendix E).

- 2) <u>Reevaluation</u>: TCBRC quarterly meetings to review and evaluate the assessments, new or upcoming BMPs, changes in environmental or social conditions, and any other relevant information.
 - Held in conjunction with the assessments and fire season needs: January, March, June, and September. Evaluations are conducted against the Evaluation Framework (Appendix E).
- 3) <u>Modifications</u>: Changes in the BMPs, delivery mechanisms, and timelines are identified in the TCBRC meetings and subsequently implemented by the responsible parties.
- 4) <u>Five-Year Cycle</u>: At the beginning of Year 5, the full work plan, implementation plan, and trimesterly assessments are reviewed by the TCBRC. The successes, lessons learned, changes needed, and satisfactory status quo are identified. A new five-year plan is created by the end of the year that builds on the previous five-year plan.

Table 2. 5-Year Timeline.

YEAR	MONTH	<u>WORK</u>	<u>MONITORING</u>	<u>PLAN</u>	MEETINGS
2013	MAY	Work starts on Central Topanga			TCBRC
CYCLE 1	JUN	Upper Topanga	Monitoring (w/ fire inspection input)	Plan evaluation	
(YR 1)	JUL	Lower Topanga			TCBRC
	AUG	Work finishes			
	SEP		Monitoring (w/ fire inspection input)	Plan evaluation	
	ОСТ				TCBRC
	NOV				
	DEC				
2014	JAN		Monitoring for current and projected conditions	Plan evaluation	TCBRC
(YR 2)	FEB				
	MAR			Plan evaluation	
	APR				TCBRC
	MAY	Central/Upper Topanga			
	JUN	Upper/Lower Topanga	Monitoring (w/ fire inspection input)	Plan evaluation	
	JUL	Work finishes			TCBRC
	AUG				
	SEP		Monitoring (w/ fire inspection input)	Plan evaluation	
	ост				TCBRC
	NOV				
	DEC				
2015	JAN		Monitoring for current and projected conditions	Mid-cycle Plan Review	TCBRC
(YR 3)	FEB				
	MAR			Plan evaluation	
	APR				TCBRC
	MAY	Central/Upper/Lower Topanga			
	JUN	Work finishes	Monitoring (w/ fire inspection input)	Plan evaluation	
	JUL				TCBRC

	AUG				
	SEP		Monitoring (w/ fire inspection input)	Plan evaluation	
	ост				TCBRC
	NOV				
	DEC				
2016	JAN		Monitoring for current and projected conditions	Plan evaluation	TCBRC
(YR 4)	FEB				
	MAR			Plan evaluation	
		Central/Upper/Lower			T0000
	APR	Topanga			TCBRC
	MAY	Work finishes		81 1 11	
	JUN		Monitoring (w/ fire inspection input)	Plan evaluation	70000
	JUL				TCBRC
	AUG				
	SEP		Monitoring (w/ fire inspection input)	Plan evaluation	
	ОСТ				TCBRC
	NOV				
	DEC		Monitoring for current and projected		
2017	JAN		conditions	5-yr Plan Review	TCBRC
(YR 5)	FEB			(continues throughout year)	
	MAR				TCBRC
	APR	Central/Upper/Lower Topanga			
	MAY	Work finishes			TCBRC
	JUN		Monitoring (w/ fire inspection input)		
	JUL		montesting (by the magazitan input)		TCBRC
	AUG				
	SEP		Monitoring (w/ fire inspection input)		TCBRC
	OCT		montesting (by the magazitan input)		. os.ke
	NOV				TCBRC
	DEC				
			Monitoring for current and projected		
2018 CYCLE	JAN		conditions		TCBRC
2	FEB				
(YR 1)	MAR				TCBRC
	APR			NEW 5-YR PLAN IN PLACE	
	MAY				TCBRC
	JUN		Monitoring (w/ fire inspection input)		
	JUL				TCBRC
	AUG				
	SEP		Monitoring (w/ fire inspection input)		
	ост				TCBRC
	NOV				
	DEC				

2013-2017 Recommended Work Plan

The following recommended work plan was created for 2013-2017, incorporates all the information gathered by the TCBRC and subcommittees, and recommends specific BMPs by post mile. The full plan can be found at www.dot.ca.gov/dist07/travel/projects/projects.php%20 and www.rcdsmm.org. This work plan is a pilot and living document and may be updated as conditions and needs change along TCB or as more information is obtained.

YELLOW = imp	portant Sensit	ive area		Sensitiv	<u>re Species Lo</u>	ocations	SUMMARY PM	BMP 1 (prefered BMP) SUMMARY	BMP 2 (alternate BMP) SUMMARY	RESPONSIBLE PARTY
Parcel number		e ID n/s	РМ	Latitude	Longitude	Condition				
LOWER 1	<u>OPANGA</u>									
								JND: 0.0-3.4		
	X	N	0.0-0.1	34.03963	-118.58228	seep	0.0-0.3	Weed wacker		CALTRANS
4443003010	X	N	0.1							CALTRANS
4443003006	X	N	0.1							CALTRANS
4443003005	X	N	0.1							CALTRANS
4443003003	X	N	0.1							CALTRANS
4443004900	X	N	0.2-0.3	-			0.00		alama .	CALTRANS
4448002903	X	N	0.3-0.4	24.0456	110 57655		0.3-0.7	Weed wacker	slope mower	CALTRANS
4448002903	X	N	0.4-0.5	34.04581	-118.57809	seep				CALTRANS
	X	N	0.5-0.6	34.04615	-118.57737	creek inlet				CALTRANS
4448002903	X	N	0.5-0.6			drainage				CALTRANS
4448002903	X	N	0.6-0.7				0.7-1.6	slope mower	mulch/natives	CALTRANS
4448002903	X	N	0.7-0.8							CALTRANS
4448002903	X	N	0.8-0.9							CALTRANS
4448002903	X	N	0.9-1.0							CALTRANS
4448002903	X	N	1.0-1.1							CALTRANS
4448002903	X	N	1.1-1.2							CALTRANS
4448002903	X	N	1.2-1.3			drainage				CALTRANS
4448002903	X	N N	1.3-1.4							CALTRANS
4448002903 4448002903	X	N N	1.4-1.5 1.5-1.6			duning			natives	CALTRANS CALTRANS
		N	1.5-1.6			drainage	1.6-1.7	mulch		
4448002903	X	N	1.7-1.8				1.7-1.8	weed wacker	natives	CALTRANS
4448002903 4448002903	X	N	1.7-1.8				1.7-1.8		mulch mulch	CALTRANS CALTRANS
		N	1.8-1.9				1.8-2.0	slope mower	mulch	
4448002903	X	N N		24.06762	110 50706		2024	Mendunales	mulah (nahiyaa	CALTRANS
4448002903	X	N	2.0-2.1	34.06762	-118.58/06	sycamore tree creek access	2.0-3.4	Weed wacker	mulch/natives	CALTRANS CALTRANS
4448002903	X	N N	2.0-2.1			creek slope				CALTRANS
4448002903	X	N	2.4-2.5	24 07011	-118.58739					CALTRANS
4448002903	X	N	2.4-2.5	34.07011	-118.58/39	creek access				CALTRANS
4448002903	X	N N	2.4-2.5			creek access		DOTENT	IAL MULCH PILOT	CALTRANS
4448002903	X	N	2.8-2.9			creek access			IAL MULCH PILOT	CALTRANS
4448002903	X	N	2.9-3.3					POTENT	IAL MULCH PILOT	CALTRANS
4448002903	X	N	3.3-3.4							CALTRANS
4440002903	^	IN	3.3-3.4	 			SOUTHBOL	JND: 0.0-3.4		CALINANS
4448002903	X	S	0.0-0.3	-			0.0-0.30	mulch	natives	CALTRANS
4448002903	X	S	0.0-0.3				0.0-0.30	Weed wacker	mulch	CALTRANS
4448002903	X	S	0.3-0.4				0.5-2.0	Weed Watker	mulch	CALTRANS
4448002903	X	S	0.4-0.8							CALTRANS
4448002903	X	S	0.8-2.0			creek bank				CALTRANS
4440002303	X	S	1.0-2.0			creek bank				CALTRANS
4448002903	X	S	2.0-2.3			drainages	2.0-2.3	Weed wacker		CALTRANS
4448002903	X	S	2.0-2.3	34.06419	-118.60016	_	2.0-2.3	Weed wacker	Natives	CALTRANS
4440002903	X	S	2.3-2.4	34.00419	-110.00016	seep	2.3-3.3	weed wacker	ivatives	CALTRANS
4448002903	X	S	2.4-3.75			rock outcrop				CALTRANS
4448002903	X	S	2.4-2.5							CALTRANS
4448002903	X	S	2.5-2.9							CALTRANS
	X	S	3.0-3.3							
4448002903 4448002903	X	S	3.0-3.3				3.3-3.4	Weed wacker	mulch	CALTRANS CALTRANS
	^		3.3-3.4	I			3.3-3.4	weed wacker	Hulch	CALIRANS

YELLOW = im	portant S	ensitive	e area		Detailed BMPs					
Parcel number	public pr	ivate	ID n/s	PM	BMP 1	BMP 2	BMP 3	short term	long term	Comments
LOWER T										
										seep at edge of pavement extends ~30' to pipe 34.04195, -
	х		N	0.0-0.1	Weed Wacker			after June	х	118.57864
4443003010	X		N	0.1						gas station
4443003006 4443003005	X		N N	0.1						native slope
4443003003	X		N	0.1						native slope
4443004900	Х		N	0.2-0.3						native slope
4448002903	Х		N	0.3-0.4	Weed Wacker	Slope Mower		Х	Х	native slope
										permanent seep critical habitat for amphibains, clearance needs to occur after frog breeding season (Feb - Jun); seep
										critical breeding area for amphibs, tadpoles preesent, starts a
										SCE pole#798195E, extends northbound approximately 50-10
										<3" from white line, cattails, willow, mulefat qualifies as
4448002903	Х		N	0.4-0.5	Weed Wacker			aftre June	Х	wetland
	x		N	0.5-0.6	Weed Wacker			after June	Х	lots of cape ivy, euphorbia and fennel to remove, little should
4448002903	X		N	0.5-0.6	Weed Wacker	slope mower		X	X	drainage culvert, small paved area, SCE pole
4448002903	Х		N	0.6-0.7	Weed Wacker	Mulch	(CCC)	X	Х	mixed conditions, lots weeds, good access for hand crew
4448002903	X		N	0.7-0.8	Slope Mower	Mulch		X	X	tight curve with little shoulder steep slope
4448002903 4448002903	X		N N	0.8-0.9 0.9-1.0	Slope Mower Slope Mower	Native Plants		X	X	mow for short term, long term plants, steep slope very steep slope, narrow shoulder
4448002903	X		N	1.0-1.1	Slope Mower			x	X	very steep slope, narrow shoulder
4448002903	Х		N	1.1-1.2	Slope Mower	Native Plants		X	X	
4448002903	X		N	1.2-1.3	Slope Mower	Native Plants		×	Х	culvert near 1.3 drains to creek, intermittent seep
4448002903 4448002903	X		N N	1.3-1.4 1.4-1.5	Slope Mower Slope Mower			X	X	very steep slope, narrow shoulder
4448002903	X		N N	1.4-1.5	Slope Mower	Native Plants		X	X	very steep slope, narrow shoulder
4448002903	X		N	1.6-1.7	Mulch	Native Plants		×	X	mulch possible
4448002903	Х		N	1.7-1.8	Weed Wacker	Mulch	(CCC)	x	Х	hand clear then mulch
4448002903	X		N	1.8-1.9	slope mower	Mulch		x	X	mow then mulch
4448002903	Х		N	1.9-2.0	slope mower			X	Х	no options! important sycamore tree, slight pull out between white line a
	х		N	2.0-2.1	Weed Wacker	Native Plants		×	Х	guardrail
										bridge access to creek, BIG castor bean problem to control,
4448002903	X		N	2.0-2.1	Weed Wacker	Native Plants	(CCC)	×	X	take out edge, long term take out to creek
4448002903	Х		N	2.1-2.4	Weed Wacker	Mulch		Х	Х	large pullout by falls, immediate downslope to critical fish
	х		N	2.4-2.5	Weed Wacker	Native Plants		×	Х	habitat
4448002903	X		N	2.4-2.5	Weed Wacker	Mulch	(CCC)	×	X	cut, mulch, long term plant
										up to helipad, eventual type conversion from valerian.mustare
4448002903 4448002903	X		N N	2.5-2.8 2.8-2.9	Weed Wacker Weed Wacker	Mulch Mulch		x x	X X	to natives helipad, steep upslope, Twin Poles area, plant long term
4448002903	X		N	2.9-3.3	Weed Wacker	Mulch		X	X	steep upslope, lots of fountain grass to remove
4448002903	Х		N	3.3-3.4	Weed Wacker	Mulch		×	Х	end of state park
						•				
4448002903	x		S	0.0-0.3	Mulch	Native Plants				feed bin - end of rodeo grounds, very wide road shoulder, mannot need anything
4448002903	X		S	0.0-0.3	Weed Wacker	Mulch	(CCC)	X	X	wide shoulder, remove fennel, tree tobacco, big dirt berm
4448002903	X		S	0.4-0.6	Weed Wacker	Mulch	(355)	X	X	mulch and then plant
										plant long term, creek downslope but some distance, arundo
4448002903	Х		S	0.6-0.8	Weed Wacker	Mulch		X	Х	patches
4448002903	x		S	0.8-2.0	Weed Wacker	Mulch		v	x	along creek bank, grouted rip rap, arundo patches, weed heaven, utility poles
1110002903	X		S	1.0-2.0	Weed Wacker			X	X	road shoulder/guardrail = top of creek bank
4448002903	X		S	2.0-2.3	Weed Wacker			×	×	steep slope, utility poles
										IMPORTANT SEEP, cape ivy problem, very sensitive; major ye
4448002903	×		S	2.3-2.4	Weed Wacker	Native plants		after June	V	round seep, lots of cape ivy, extends south to 34.06815,- 118.58700
+++0002903	X		S	2.3-2.4	Weed Wacker	Native Plants		X X	X	entire slope hosts sensitive rock outcrop species
4448002903	Х		S	2.4-2.5	Weed Wacker			Х	Х	native plants on slope, valerian on lower elevation
4448002903	X		S	2.5-2.9	Weed Wacker			X	X	senstive plants upslope
4448002903 4448002903	X	-	S S	2.9-3.0 3.0-3.3	Weed Wacker Weed Wacker			X	X	steep slope steep slope, some creek access
4448002903	X		S	3.0-3.3	Weed Wacker	Mulch		X	X	long term planting
				5.5 5.7	cca wacker					paneng

YELLOW = im	portan	t Sensitiv	<u>/e area</u>		<u>Sensiti</u>	ve Species Lo	ocations	SUMMARY PM	BMP 1 (prefered BMP) SUMMARY	BMP 2 (alternate BMP) SUMMARY	RESPONSIBLE PARTY
Parcel number SOUTH C	•		ID n/s DPANGA	РМ	Latitude	Longitude	Condition	NORTHBOU	JND: 3.4-5.8		
4432003906		X	N	3.4-3.5				3.4-3.9	weed wacker	mulch	CALTRANS
4445030005 4445024023		X	N N	3.4-3.5 3.4-3.5							CALTRANS CALTRANS
4445024007		X	N	3.6-3.7							CALTRANS
4446031005		X	N	3.6-3.7						AL MULCH PILOT	CALTDANIC
4445024007 4445024007		X	N N	3.7-3.8 3.8-3.9					POTENTI	AL MULCH PILOT	CALTRANS CALTRANS
4445026009		X	N	3.8-3.9				3.8-4.1	n/a (hard pack)		CALITARIS
4445026008		X	N	3.8-3.9							
4445026007 4445026006		X	N N	3.9-4.0 3.9-4.0							CALTRANS
4445026010		Х	N	3.9-4.0							
4445026011		X	N	3.9-4.0							
4445026001 4445027009		X	N N	4.0-4.1							
4445027008		Х	N	4.0-4.1							
4445027007		X	N	4.0-4.1							
4445027006 4445027005		X	N N	4.0-4.1 4.1-4.2							
4445027004		X	N	4.1-4.2							
4445027011		X	N	4.1-4.2							
4445027002		Х	N	4.1-4.2				4.1-4.2	weed wacker	mulch	PRIVATE OWN
4445008015		х	N	4.2-4.3				4.1-4.4	n/a (hard pack)		(Hidden Treasure
4445008016		х	N	4.2-4.4							PRIVATE OWNE (Pine Tree Circle
4445008900	x		N	4.4 - 4.5							PRIVATE OWNE (County Library
4445008803	Х		N	4.4 - 4.5							CALTRANS
4445008014			N	4.4 - 4.5				4.4-4.5	weed wacker	mat	CALTRANS
4445008002 4445009004			N N	4.4 - 4.5 4.4 - 4.5				4.4-4.5 4.4-4.5	mulch weed wacker	mat mat	CALTRANS CALTRANS
4445009004			N	4.4 - 4.5				4.4-4.5	weed wacker	IIIai	CALTRANS
4445009001			N	4.5 - 4.6							CALTRANS
4445010013 4445010001			N N	4.5 - 4.6 4.5 - 4.6							CALTRANS CALTRANS
4445010001			N	4.5 - 4.6							CALTRANS
4445011009			N	4.6 - 4.7							CALTRANS
4445011010 4445011011			N N	4.6 - 4.7 4.6 - 4.7							CALTRANS CALTRANS
4445012001			N	4.7 - 4.8							CALTRANS
4445012018			N	4.7 - 4.8							CALTRANS
4445012019 4445003902	х		N N	4.7 - 4.8 4.8 - 4.9			X X				CALTRANS CALTRANS
4444018910	х		N	4.8 - 5.0			x				CALTRANS
4444018900 4444018913	X X		N N	4.8 - 4.9 5.0 - 5.1			X X				CALTRANS CALTRANS
4444018912	?		N	5.0 - 5.1			X				CALTRANS
4444018909	?		N	5.0 - 5.1			X				CALTRANS
4444018911 4444018906	?		N N	5.0 - 5.1 5.0 - 5.1			X				CALTRANS CALTRANS
4444018901		?	N	5.0 - 5.1			X				CALTRANS
4444020003		?	N	5.1 - 5.2			X				CALTRANS
4444020004 4444020005			N N	5.1 - 5.2 5.1 - 5.2			X				
4444020006			N	5.1 - 5.2			Х				
4444020007			N	5.1 - 5.2			X				
4444020008 4444020010		X	N N	5.1 - 5.2 5.1 - 5.2			X				
4444020011		x	N	5.1 - 5.2			X				
4444020015		X	N	5.1 - 5.2			X				
4444021014 4444013019		X	N N	5.2 - 5.3 5.2 - 5.3			X				
4444013019		х	N	5.2 - 5.3			X				
4444008021 4444008022		X X	N N	5.3 - 5.4 5.4 - 5.5			X				
4444008022		X	N	5.4 - 5.5			X				
4444008012		x	N	5.4 - 5.5	24 10102	110 50701	X humbolt lilion				
4444009010		X	N N	5.4-5.6 5.5 - 5.6	34.10103	-118.59701	humbolt lilies X				
4444009009		х	N	5.5 - 5.6			X				
4444009006 4444009004		X X	N N	5.5 - 5.6 5.5 - 5.6			X				
4444009004		X	N	5.6 - 5.7			X				
4444006030		х	N	5.6 - 5.7			X				
4444006021 4444006020		X X	N N	5.6 - 5.7 5.6 - 5.7			X				
4444006021		X	N	5.7 - 5.8			X				
4444006004		x	N	5.7 - 5.8			Х				
4444006003		Х	N	5.7 - 5.8				1			PRIVATE OWN
4441020028		х	N	5.8							(Marchal B.)
4441019900 4441019009		X	N N	5.8 - 5.9 5.8 - 5.9							
4441019009		X	N	5.8 - 5.9							
4441019007		Х	N	5.8 - 5.9							
4441019006 4441019005		X	N N	5.9 5.9 - 6.0							
		X	N N								
4441019004			IN	5.9 - 6.0					and the second second		

	YELLOW = im	portant	<u>Sensitiv</u>	<u>re area</u>		Detailed BMPs					
				TD = /a	244	BMP 1	BMP 2	BMP 3	-64		C
	arcel number SOUTH C				PM	BMP 1	BMP 2	BMP 3	snort term	iong term	Comments
	4432003906		Х	N	3.4-3.5	Weed Wacker	Mulch		X		
	4445030005 4445024023		X	N N	3.4-3.5 3.4-3.5	Weed Wacker Weed Wacker	Mulch Mulch		X		
	4445024007 4446031005		X	N N	3.6-3.7 3.6-3.7	Weed Wacker	Mulch		Х		LUMBER STORE
	4445024007		X	N	3.7-3.8	Weed Wacker	Mulch		Х		Wildwood
	4445024007 4445026009		X	N N	3.8-3.9 3.8-3.9	Weed Wacker	Mulch		X		
	4445026008		Х	N	3.8-3.9						
	4445026007 4445026006		X	N N	3.9-4.0 3.9-4.0						
	4445026010		Χ	N	3.9-4.0						
	4445026011 4445026001		X	N N	3.9-4.0 4.0-4.1						
	4445027009 4445027008		X	N N	4.0-4.1 4.0-4.1						
	4445027007		Х	N	4.0-4.1						
	4445027006 4445027005		X	N N	4.0-4.1 4.1-4.2						
	4445027004		Х	N	4.1-4.2						
	4445027011 4445027002		X	N N	4.1-4.2 4.1-4.2	Weed Wacker	Mulch		X		
											CONCRETE BRIDGE
	4445008015		Х	N	4.2-4.3						CONCRETE BRIDGE
	4445008016		Х	N	4.2-4.4						PINE TREE CIRCLE
	4445008900	x		N	4.4 - 4.5						County Library
	4445008803 4445008014			N N	4.4 - 4.5 4.4 - 4.5	Weed Wacker	Mat			x	Verizon
	4445008002 4445009004			N N	4.4 - 4.5 4.4 - 4.5	Mulch Weed Wacker	Mat Mat			x	
	4445009004			N	4.4 - 4.5	Weed Wacker	IVIdi			Х	Lightly Vegatated
	4445009001 4445010013			N N	4.5 - 4.6 4.5 - 4.6	Weed Wacker					Lightly VegatatedRS narrows w/ steep slope
	4445010001			N	4.5 - 4.6	Weed Wacker					Lightly Vegatated
	4445010014 4445011009			N N	4.5 - 4.6 4.6 - 4.7	Weed Wacker Weed Wacker					Lightly Vegatated North edge is Entrada
	4445011010			N	4.6 - 4.7	Weed Wacker					North edge is Entrada
	4445011011 4445012001			N N	4.6 - 4.7 4.7 - 4.8	Weed Wacker					North edge is Entrada Partially tended Volunteer Tended/ Annual Review
	4445012018 4445012019			N N	4.7 - 4.8 4.7 - 4.8	Weed Wacker Weed Wacker					Oaks
	4445003902	х		N	4.8 - 4.9	Weed Wacker					State Parks Oaks
	4444018910 4444018900	X		N N	4.8 - 5.0 4.8 - 4.9	Weed Wacker					State Parks Oaks State Parks
	4444018913	х		N N	5.0 - 5.1	Weed Wacker					State Parks
	4444018912 4444018909	?		N	5.0 - 5.1 5.0 - 5.1	Weed Wacker Weed Wacker					State Parks State Parks
	4444018911 4444018906	?		N N	5.0 - 5.1 5.0 - 5.1	Weed Wacker Weed Wacker					State Parks State Parks
	4444018901		?	N	5.0 - 5.1	Weed Wacker					
	4444020003 4444020004		?	N N	5.1 - 5.2 5.1 - 5.2	Weed Wacker Weed Wacker					Highvale Rd
	4444020005			N	5.1 - 5.2	Weed Wacker					Oaks
	4444020006 4444020007			N N	5.1 - 5.2 5.1 - 5.2	Weed Wacker Weed Wacker					Oaks Oaks
- 1	4444020008 4444020010		x x	N N	5.1 - 5.2 5.1 - 5.2	Weed Wacker Weed Wacker					Oaks Oaks
	4444020011		х	N	5.1 - 5.2	Weed Wacker					Oaks
	4444020015 4444021014		X X	N N	5.1 - 5.2 5.2 - 5.3	Weed Wacker Weed Wacker					Oaks Oaks
	4444013019		х	N	5.2 - 5.3	Weed Wacker					Oaks
	4444013019 4444008021		x	N N	5.2 - 5.3 5.3 - 5.4	Weed Wacker Weed Wacker					Oaks Oaks
	4444008022 4444008011		x x	N N	5.4 - 5.5 5.4 - 5.5	Weed Wacker Weed Wacker					Oaks Oaks
	4444008012		x	N	5.4 - 5.5	Weed Wacker					Oaks
											800 TCB, one of few significant stands of humbolt lilies unde
			x	N	5.4-5.6	Weed Wacker			After June	x	coast live oaks, very sensitive sp., cut down after blooming i spring
	4444009010		х	N	5.5 - 5.6	Weed Wacker			co. June		Oaks
	4444009009 4444009006		X X	N N	5.5 - 5.6 5.5 - 5.6	Weed Wacker Weed Wacker					Oaks Oaks
	4444009004		х	N	5.5 - 5.6	Weed Wacker					Oaks
	4444009002 4444006030		X X	N N	5.6 - 5.7 5.6 - 5.7	Weed Wacker Weed Wacker					Oaks Oaks
	4444006021 4444006020		x x	N N	5.6 - 5.7 5.6 - 5.7	Weed Wacker Weed Wacker					Oaks Oaks
	4444006021		х	N	5.7 - 5.8	Weed Wacker					Oaks
	4444006004 4444006003		x x	N N	5.7 - 5.8 5.7 - 5.8	Weed Wacker					Oaks
	4441020028 4441019900		X	N N	5.8 5.8 - 5.9						
	4441019009 4441019008		X	N N	5.8 - 5.9 5.8 - 5.9						
	4441019007		Х	N	5.8 - 5.9						
	4441019006		X	N N	5.9 5.9 - 6.0						
	4441019005										
	4441019005 4441019004 4441019003		X	N N	5.9 - 6.0 5.9 - 6.0						

YELLOW = imp	nortant	t Sensitiv	ve area		Sensitiv	ve Species Lo	ocations	SUMMARY PM	BMP 1 (prefered BMP) SUMMARY	BMP 2 (alternate BMP) SUMMARY	RESPONSIBLE PARTY
TEELOW = IIII	portani	Sensiti	<u>re area</u>		Sensitiv	ve species E	<u>scations</u>	<u> </u>	<u> John Akt</u>	<u> JOHNAKI</u>	PAKL
Parcel number		-	ID n/s	PM	Latitude	Longitude	Condition				
SOUTH C		AL /	PANGA					SOUTHBOU	JD: 3.4-5.9		
4447001010		Х	S	3.4-3.5				3.4-3.5	weed wacker	slope mower	CALTRANS
4447001009		X	S	3.4-3.5				3.4-3.5	weed wacker	·	CALTRANS
# COVERED		X	S	3.4-3.5							CALTRANS
# COVERED 4445024008		X	S S	3.4-3.5 3.6-3.7				3.6-3.7	n/a		CALTRANS CALTRANS
4447002011		X	S	3.6-3.7				3.0-3.7	, a		CALTRANS
4446029010		Х	S	3.6-3.7			X	3.6-3.7	weed wacker	slope mower	CALTRANS
4446029009		X	S	3.6-3.7			X				
4446024000		V	S	2627			V				PRIVATE OWNER
4446024008 4446029007		X	S	3.6-3.7 3.6-3.7			X				(Jalan Jalan)
4446029006		X	S	3.6-3.7			X				
4446029024		Χ	S	3.6-3.7			X				
4446029004		X	S	3.6-3.7			X				
4446029003 4446029002		X	S S	3.6-3.7 3.6-3.7			X				
4446029002		X	S	3.7-3.8			X	3.7-3.8	slope mower		
4446029025		X	S	3.7-3.8			X		5.5,60 5 5		
4446003005		X	S	3.7-3.8				3.7-3.8	n/a		
4446003900	X		S	3.7-3.8				3.7-3.8	weed wacker		
4446003001	Χ	V	S S	3.8-3.9	34.08535	-118.60007	seep	3.8-3.9 3.8-4.4	weed wacker	natives	
4446003001		X	S	3.8-3.9 3.8-3.9				3.6-4.4	n/a		
4446001010		X	S	3.8-3.9							
4446001011		Х	S	3.8-3.9							
4446001012		X	S	3.8-3.9							
4446001013		X	S	3.8-3.9							
4446001014 4446001015		X	S S	3.8-3.9 3.8-3.9							
4445028012		X	S	3.9-4.0				-			
4445028012		X	S	4.0-4.2							
4445028012		X	S	4.0-4.2							
4445028015		X	S S	4.2-4.3 4.2-4.3							
4445028013 4445028014		X	S	4.2-4.3							
4445006028		X	S	4.3-4.4				-			
4445006029		Χ	S	4.3-4.4							
4445006030			S	4.4 - 4.5			X	4.4-4.6	weed wacker		
4445006032 4445006332			S S	4.4 - 4.5 4.5 - 4.6			X				
4445006332			S	4.5 - 4.6			X				
4445005005			S	4.5 - 4.6			X				
4445005002			S	4.5 - 4.6			X				
4445004903	Х	?	S S	4.6 - 4.8 4.8 - 4.9			X	4.6-4.8	tbd	mat	
4445004902 4444026901		?	S	4.8 - 4.9 4.8 - 4.9			X	4.8-4.9 4.9-5.0	weed wacker n/a		
4444024901	?		S	5.0 - 5.1			X	5.0-5.4	weedwacker		
4444024011	?		S	5.0 - 5.1			Х				
4444024902	?		S	5.1 - 5.2			X				
4444023015 4444023900		?	S S	5.1 - 5.2 5.1 - 5.2							
4444023900	?		S	5.1 - 5.2			Х				
4444008900	?		S	5.2 - 5.4							
4444008003		?	S	5.4 - 5.5			X	5.4-5.6	n/a		
4444008013		?	S	5.4 - 5.5			X				
4444008001		X	S S	5.4 - 5.5 5.4-5.6	34.10009	-118.59825	X Lake Topanga	5.4-5.6	weed wacker	natives	
4444009027		X	S	5.5 - 5.6	37.10009	110.33023	X	5.5-5.6	n/a	Hatives	
4444009026		X	S	5.5 - 5.6			X				
4444006032		X	S	5.6 - 5.7			X	5.6-5.8	weed wacker		
4444006031		X	S	5.6 - 5.7			X				
4444006013 4444006001		X	S S	5.7 - 5.8 5.7 - 5.8			X	5.7-5.9	mulch	mat	
		X	S	5.7 - 5.8	1		X	3.7-3.9	Hillich	mai	
4440028006											

YELLOW = in	mnortar	t Sensitiv	re area		Detailed BMPs					
			<u> </u>		DOLUMBUR DI MO					
Parcel numbe	er public	private	ID n/s	PM	BMP 1	BMP 2	ВМР З	short term	long term	Comments
SOUTH (
4447001010		Х	S	3.4-3.5	Weed Wacker	Slope Mower		X		East Hillside
4447001009		Х	S	3.4-3.5	Weed Wacker			X		
# COVERED		X	S	3.4-3.5	Weed Wacker			X		
# COVERED		Х	S	3.4-3.5	Weed Wacker			X		
4445024008		X	S	3.6-3.7						
4447002011 4446029010		X	S	3.6-3.7	Mood Mooles	Clana Mauran		V		
4446029010		X	S S	3.6-3.7 3.6-3.7	Weed Wacker Weed Wacker	Slope Mower		X		
4446029009		Α	5	3.0-3.7	weed wacker	Slope Mower		^		
4446024008		х	S	3.6-3.7						wood chips in place
4446029007		X	S	3.6-3.7	Weed Wacker	Slope Mower		X		
4446029006		X	S	3.6-3.7	Weed Wacker	Slope Mower		X		
4446029024		X	S	3.6-3.7	Weed Wacker	Slope Mower		X		
4446029004		Х	S	3.6-3.7	Weed Wacker	Slope Mower		X		
4446029003		X	S	3.6-3.7	Weed Wacker	Slope Mower		X		
4446029002		X	S	3.6-3.7	Weed Wacker	Slope Mower		X		
4446029001		X	S	3.7-3.8	Slope Mower			X		
4446029025		X	S	3.7-3.8	Slope Mower			X		
4446003005 4446003900		X	S S	3.7-3.8 3.7-3.8	Weed Wacker			X		
4440003900	^		3	3.7-3.0	weed wacker			^		seep southbound from 327 TCBlvd driveway ~ 25' ends
										34.08553,-118.60016, cattails, native snails and tadpoles
	X		S	3.8-3.9	Weed Wacker	Native Plants		after June	×	present
4446003001		Х	S	3.8-3.9						
4446001009		Х	S	3.8-3.9						
4446001010		X	S	3.8-3.9						
4446001011		X	S	3.8-3.9						
4446001012		X	S	3.8-3.9						
4446001013		X	S S	3.8-3.9						
4446001014 4446001015		X	S	3.8-3.9 3.8-3.9						
4445028012		X	S	3.9-4.0						
4445028012		X	S	4.0-4.2						
4445028012		X	S	4.0-4.2						
4445028015		Х	S	4.2-4.3						
4445028013		X	S	4.2-4.3						
4445028014		Х	S	4.2-4.3						
4445006028		X	S	4.3-4.4						
4445006029		X	S	4.3-4.4						
4445006030			S	4.4 - 4.5	Weed Wacker					Lightly Vegatated Creekside
4445006032			S S	4.4 - 4.5 4.5 - 4.6	Weed Wacker					Lightly Vegatated Creekside
4445006332 4445006027			S	4.5 - 4.6						Looks like parcel # typo? Creekside School Rd. Creekside
4445005005			S	4.5 - 4.6	Weed Wacker					Lightly Vegatated Creekside
4445005002			S	4.5 - 4.6						Creekside
4445004903	х		S	4.6 - 4.8	TBD	Mat				Creek Oaks
4445004902		?	S	4.8 - 4.9	Weed Wacker					TBD for Arundo
4444026901		?	S	4.8 - 4.9						
4444024901	?		S	5.0 - 5.1	Weed Wacker					Flood Control ? Oaks
4444024011	?		S	5.0 - 5.1	Weed Wacker					Flood Control ? Oaks
4444024902	?		S	5.1 - 5.2	Weed Wacker			+		Flood Control ? Oaks
4444023015 4444023900		?	S S	5.1 - 5.2 5.1 - 5.2	Weed Wacker Weed Wacker					Flood Control ? Oaks Flood Control ? Oaks
4444023900	?	1	S	5.1 - 5.2	Weed Wacker			-		Flood Control ? Oaks
4444008900	?		S	5.2 - 5.4	Weed Wacker					Flood Control ?
4444008003	· ·	?	S	5.4 - 5.5						Sm Parcels; Berm, Creek
4444008013		?	S	5.4 - 5.5						Sm Parcels; Berm, Creek
4444008001		Х	S	5.4 - 5.5						Berm, Creek
			C	E 4 E 6	Mond Mond	Native Starts				area commonly floods due to rip rap constriction of creek
444400002		X	S S	5.4-5.6	Weed Wacker	ivative Plants		X	Х	channel, need CDFW permit to clear channel
4444009027 4444009026		X	S	5.5 - 5.6 5.5 - 5.6						Creek Creek
4444009026		X	S	5.6 - 5.7	Weed Wacker					Oaks
4444006032		X	S	5.6 - 5.7	Weed Wacker					Berm, Oaks, sightline isue?
4444006013		X	S	5.7 - 5.8	Weed Wacker					Sm Parcel, sightline Issue?
4444006001		X	S	5.7 - 5.8	Mulch	Mat				Creek
	1	Х	S	5.8 - 5.9	Mulch	Mat				Froggy's, Creek
4440028006										

									SUMMARY	BMP 1 (prefered BMP)		RESPONSIBLE
-	YELLOW = im	portan	t Sensitiv	<u>re area</u>		Sensitiv	e Species Lo	cations	PM	SUMMARY	<u>SUMMARY</u>	<u>PARTY</u>
	Parcel number	public	private	ID n/s	PM	Latitude	Longitude	Condition				
	NORTH C	ENT	RAL TO	DPANGA					NORTHBOU	IND: 5.9-7.4		
	4441024021	l	Х	N	5.9-6.0				5.9-6.2	Weed wacker	natives	
	4441024023		X	N	6-6.1			oaks		mood madici	1.001705	
	4441037019		X	N	6-6.1			oaks				
	4441024014		X	N	6-6.1			oaks				
	4441024005		X	N	6-6.1			oaks				
	4441024004		X	N	6-6.1			oaks				
	4441024003		X	N	6.1-6.2			oaks				
	4441024002		X	N	6.1-6.2			oaks				
	4441024001		X	N	6.1-6.2			ouio				
	4441025008		X	N	6.1-6.2							
	4441025009		X	N	6.1-6.2			oaks	6.1-6.6	weed wacker	mulch/natives	
	4441025005		X	N	6.1-6.2			ours	0.1-0.0	Weed Wacker	maichinacives	
	4441025011		X	N	6.2-6.3			oaks				
	4441025011		X	N	6.2-6.3			oaks				
	4441026015		X	N	6.2-6.3			oaks				
	4441026007		X	N	6.2-6.3			oaks				
\vdash	4441026007		X	N	6.3-6.4			oaks				
\vdash	44410260901		X	N	6.3-6.4							
-	4447?????		X					oaks				
-	4441037013		X	N N	6.3-6.4 6.3-6.4			oaks oaks				
-				N								
-	4441026013		X		6.3-6.4			oaks				
-	4441027001		X	N	6.3-6.5			oaks				
-	444?????		X	N	6.5-6.6			oaks				
-	4441028024		X	N	6.5-6.6			oaks				
-	4441029033		X	N	6.5-6.6			oaks				
-	4441029019		X	N	6.5-6.6							
-	4441029027		X	N	6.5-6.6							
-	4441029026		X	N	6.5-6.6							
-	4441030004		X	N	6.5-6.7				6.5-6.9	slope mower	nulch/weed wacke	r
-	4441030007		X	N	6.6-6.7	1		oaks				
-	4441030008		X	N	6.6-6.7			oaks				
-	4441030009	l	X	N	6.6-6.8			oaks				
-	4441038007	-	X	N	6.7-6.8							
	4441038006	l	X	N	6.7-6.8							
	4441038010		X	N	6.8-6.9			oaks				
	4441038003		X	N	6.8-6.9							
	4441038002		X	N	6.8-6.9							
	4441039902		X	N	6.8-6.9							
-	4441039009	l	X	N	6.8-6.9				6.8-7.4	Weed wacker	mulch/natives	
-	4441039008		X	N	6.8-6.9							PRIVATE OWNER
	4441039010		X	N	6.8-6.9							
_	4434010025		X	N	6.9-7.0	1		oaks				
	4434010020		Х	N	6.9-7.1							
	4434010019		Х	N	7.0-7.1			oaks				
	4434010010	Х		N	7.0-7.2							MRCA
	4434010009		Х	N	7.1-7.2							
	4434010005		X	N	7.1-7.2							
	4434010006		X	N	7.1-7.2							
	4434010007?		X	N	7.2-7.3			oaks				
	4434010008		X	N	7.2-7.4							
	4434011007		X	N	7.3-7.4							
	4434015006		Х	N	7.3-7.4							
	4434012029		Х	N	7.3-7.4			oaks				

YELLOW = imp	ortant Se	neitiv	e area		Detailed BMPs					
1222011 = 11112	JORGINE SC	1131614	<u>C urcu</u>		Detailed Divis					
Parcel number p	public pri	vate	ID n/s	PM	BMP 1	BMP 2	BMP 3	short term	long term	Comments
NORTH C										
4441024021		Х	N	5.9-6.0	Weed Wacker	Native Plants			Х	
4441024023		X	N	6-6.1	Weed Wacker	Native Plants			X	steep slope
4441037019		Х	N	6-6.1	Weed Wacker				Х	steep slope
4441024014		Х	N	6-6.1	Weed Wacker	Native Plants			Х	steep slope
4441024005		Х	N	6-6.1	Weed Wacker				Х	steep slope
4441024004		X	N	6-6.1	Weed Wacker				X	steep slope
4441024003		X	N	6.1-6.2	Weed Wacker	Native Plants			X	steep slope
4441024002		Χ	N	6.1-6.2	Weed Wacker	Native Plants			Х	steep slope
4441024001		Χ	N	6.1-6.2	Weed Wacker	Native Plants			X	wide parking area
4441025008		X	N	6.1-6.2						wide parking area
4441025009		X	N	6.1-6.2	Weed Wacker	Mulch	Native Plants		Х	4.5
4441025005		X X	N N	6.1-6.2 6.2-6.3	Mend Manter	Mulch	Native Diect		Х	driveway
4441025011					Weed Wacker		Native Plants			
4441025010 4441026015		X	N N	6.2-6.3 6.2-6.3	Weed Wacker Weed Wacker	Mulch	Native Plants		X	
4441026007		X X	N	6.2-6.3	Weed Wacker	Mulch Mulch	Native Plants Native Plants		X	variable treatments steen clone
4441026007		X	N	6.3-6.4	Weed Wacker	Mulch	Native Plants		X	variable treatments steep slope variable treatments steep slope
44410260901		X	N	6.3-6.4	Weed Wacker	Mulch	Native Plants		X	
44410260901		X	N	6.3-6.4	Weed Wacker	Mulch	Native Plants		X	variable treatments steep slope variable treatments steep slope
4441037013		X	N	6.3-6.4	Weed Wacker	Mulch	Native Plants		X	variable treatments steep slope
4441026013		X	N	6.3-6.4	Weed Wacker	Mulch	Native Plants		X	variable treatments steep slope
4441027001		X	N	6.3-6.5	Weed Wacker	Mulch	Native Plants		X	Community club
444?????		X	N	6.5-6.6	Weed Wacker	Mulch	Native Plants		X	house on cheyney
4441028024		X	N	6.5-6.6	Weed Wacker	Mulch	Native Plants		X	fenced in parking area
4441029033		X	N	6.5-6.6	Weed Wacker	IVIGICIT	Native Hanes		X	bridge over garapito creek
4441029019		X	N	6.5-6.6	Weed Wacker				- 1	Ozark Walk - hardscape area
4441029027		X	N	6.5-6.6	Weed Wacker					Ozark Walk - hardscape area
4441029026		X	N	6.5-6.6	Weed Wacker					Ozark Walk - hardscape area
4441030004		X	N	6.5-6.7	Slope Mower	Mulch			Х	grassland, oaks, just before Artique Rd.
4441030007		X	N	6.6-6.7	Slope Mower	Mulch			X	narrow shoulder in bend, slope mower
4441030008		Х	N	6.6-6.7	Slope Mower	Mulch			Х	slope mower, hard turnout
4441030009		X	N	6.6-6.8	Slope Mower	Mulch			Х	slope mower steep
4441038007		X	N	6.7-6.8	Slope Mower	Weed Wacker	Mulch		X	topanga fresh
4441038006		Х	N	6.7-6.8	Slope Mower		Mulch		Х	topanga fresh
4441038010		Х	N	6.8-6.9	Slope Mower	Weed Wacker	Mulch		Х	
4441038003		Х	N	6.8-6.9	Slope Mower	Weed Wacker	Mulch		Х	grass
4441038002		Х	N	6.8-6.9	Slope Mower	Weed Wacker	Mulch		Х	grass
4441039902		Х	N	6.8-6.9	Slope Mower		Mulch		Х	grass
4441039009		X	N	6.8-6.9	Weed Wacker	Mulch	Native Plants		X	steep slope
4441039008		X	N	6.8-6.9	Weed Wacker	Mulch	Native Plants		Х	steep slope
4441039010		X	N	6.8-6.9	Weed Wacker	Mulch	Native Plants		X	steep slope
4434010025		Χ	N	6.9-7.0	Weed Wacker	Mulch	Native Plants		X	Dan mcNeil, mulch at base
4434010020		Χ	N	6.9-7.1	Weed Wacker	Mulch	Native Plants		X	very steep, mulch at base
4434010019		Х	N	7.0-7.1	Weed Wacker	Mulch	Native Plants		Х	sharp turn steep slope
4434010010	x		N	7.0-7.2	Weed Wacker	Mulch	Native Plants		х	partially untended, shoulder parking, steep slope
4434010010		Х	N	7.1-7.2	Weed Wacker	Mulch	Native Plants		X	old topanga turnout parking
4434010005		X	N	7.1-7.2	Weed Wacker	Mulch	Native Plants		X	old topanga turnout parking
4434010006		X	N	7.1-7.2	n/a	WIGHT			^	flying pig-hardscape/hardpack
44340100007?		X	N	7.2-7.3	Weed Wacker	Mulch	Native Plants		Х	,g p.g narascape/narapack
4434010007		X	N	7.2-7.3	Weed Wacker	Mulch	Native Plants		X	steep slope before Santa Maria Road
4434011007		X	N	7.3-7.4	Weed Wacker	Mulch	Native Plants		X	Old corrall site past Santa maria Rd
4434015006		X	N	7.3-7.4	Weed Wacker	Mulch	Native Plants		X	steep slope
4434012029		X	N	7.3-7.4	Weed Wacker	Mulch	Native Plants		X	drainage and upslope

<u>NORTH CEN</u>	IKAL IL	PANG	4					
					SOUTHBOUND:			
4440027022	X	S	6-6.1		6.0-7.0 We	ed wacker	natives/mulch	
4440014004	X	S	6-6.1					
4440014900	X	S	6.1-6.2					
4440014005	X	S	6.1-6.2					
4440014006	X	S	6.1-6.2					
4440014009	X	S	6.1-6.2					
4440014008	X	S	6.1-6.2	oaks				
4440014007	X	S	6.1-6.2	oaks				
4440013013	X	S	6.2-6.3	oaks				
4440013904	X	S	6.2-6.3	oaks				
4440012006	X	S	6.3-6.4	oaks				
4440006005	X	S	6.3-6.4	oaks				
4440006004	X	S	6.4-6.5	oaks				
4440006019	X	S	6.4-6.5	oaks				
4440006017	X	S	6.4-6.5	oaks				
4440006002	X	S	6.5-6.6	oaks				
4440005012	X	S	6.6-6.7	oaks				
								(John's
4440005015	X	S	6.6-6.7	oaks				Landscaping
4440005016	V	6	6667	1				(John's
4440005016	X	S	6.6-6.7	oaks				Landscaping
4440005005	X	S	6.6-6.8	oaks				
4440005004	X	S	6.6-6.8	oaks				
4440005003	X	S	6.7-6.8	oaks				
4440005017	X	S	6.7-6.8					
4440004022	X	S	6.7-6.8	oaks				
4440004024	X	S	6.7-6.8	oaks				
4440004023	X	S	6.8-6.9	oaks				
4440004017	X	S	6.8-6.9	oaks				
4440004016	X	S	6.8-6.9	oaks				
4440004015	X	S	6.8-6.9	oaks				
4440004014	X	S	6.8-6.9	oaks				
4440004013	X	S	6.8-6.9	oaks				
4440004004	X	S	6.8-6.9	oaks				
4440004003	X	S	6.8-6.9	oaks				
4440002013	X	S	6.8-6.9	oaks				
4440002010	X	S	6.8-6.9	oaks				
4440001014	X	S	6.8-6.9					
4440001008	X	S	6.8-6.9					
4440001007	X	S	6.8-7.0					
4434016015	X	S	6.9-7.0	oaks				
4434016019	X	S	7.0-7.1					
4434016028	X	S	7.0-7.2	oaks	7.0-7.2	natives	mulch	
4434015009	X	S	7.1-7.2	oaks	7.1-7.2 We	ed wacker	mulch/natives	
4434014001	X	S	7.2-7.5	oaks				PRIVATE OW
4434014002	X	S	7.2-7.5	oaks				PRIVATE OW
4434014008	X	S	7.2-7.5	oaks				PRIVATE OW
4434014005	X	S	7.2-7.5	oaks				PRIVATE OW
4434014007	X	S	7.2-7.5	oaks				PRIVATE OWI
4434014006	X	S	7.2-7.5	oaks				PRIVATE OW
4434015010	X	S	7.2-7.5	Suits				PRIVATE OWN

YELLOW = im	nortani	Sensitiv	e area		Detailed BMPs					
ILLLOW - IIII	portan	Sensitiv	<u>e area</u>		Detailed Divips					
Parcel number	public	private	ID n/s	PM	BMP 1	BMP 2	BMP 3	short term	long term	Comments
NORTH C	ENTE	RAL TO	PANGA	L						
4440027022		Χ	S	6-6.1	Weed Wacker	Native Plants			Х	mulch recommended
4440014004		X	S	6-6.1	Weed Wacker	Native Plants			X	
4440014900		X	S	6.1-6.2	Weed Wacker	Native Plants			X	
4440014005		X	S	6.1-6.2	Weed Wacker	Native Plants			X	pine tree
4440014006 4440014009		X	S S	6.1-6.2 6.1-6.2	Weed Wacker Weed Wacker	Native Plants Native Plants			X	guardrail? Wood fence wood fence
4440014009		X	S	6.1-6.2	Weed Wacker	Native Plants			X	Theatricum
4440014007		X	S	6.1-6.2	Weed Wacker	Native Plants			X	Theatricum
4440013013		X	S	6.2-6.3	Weed Wacker	Native Plants			X	Theatricum
4440013904		Χ	S	6.2-6.3	Weed Wacker	Native Plants			Х	Theatricum
4440012006		Х	S	6.3-6.4	Weed Wacker	Mulch	Native Plants		Х	Theatricum
4440006005		Х	S	6.3-6.4	Weed Wacker	Mulch	Native Plants		Х	Theatricum
4440006004		X	S	6.4-6.5	Weed Wacker	Mulch	Native Plants		X	Theatricum
4440006019		X	S	6.4-6.5	Weed Wacker	Mulch	Native Plants		X	end of theatricum
4440006017		X	S	6.4-6.5	Weed Wacker	Native Plants			X	garapito creek bank, mixed condition
4440006002 4440005012		X	S S	6.5-6.6 6.6-6.7	Weed Wacker Weed Wacker	Native Plants Native Plants			X	partially paved, hardpack, creek bank, mulch? John's landscape
4440005015		X	s	6.6-6.7	Weed Wacker	Native Plants			X	Angela slater/ johns
4440005016		x	S	6.6-6.7	Weed Wacker	Native Plants			х	Angela slater/ johns
4440005005		X	S	6.6-6.8	Weed Wacker	Mulch	Native Plants		Х	Raybn
4440005004		Х	S	6.6-6.8	Weed Wacker	Mulch	Native Plants		X	Raybn
4440005003		Х	S	6.7-6.8	Weed Wacker	Mulch	Native Plants		X	Happy Trail
4440005017		Х	S	6.7-6.8	Weed Wacker	Mulch	Native Plants		X	CA trail x from Topanga fresh, mulch?
4440004022		Х	S	6.7-6.8	Weed Wacker	Mulch	Native Plants		X	Mulch
4440004024		X	S	6.7-6.8	Weed Wacker	Mulch	Native Plants		X	Mulch
4440004023		X	S	6.8-6.9	Weed Wacker	Mulch	Native Plants Native Plants		X	Mulch
4440004017 4440004016		X	S S	6.8-6.9 6.8-6.9	Weed Wacker Weed Wacker	Mulch Mulch	Native Plants		X	Mulch Mulch
4440004015		X	S	6.8-6.9	Weed Wacker	Mulch	Native Plants		X	Mulch
4440004014		X	S	6.8-6.9	Weed Wacker	Mulch	Native Plants		X	Mulch
4440004013		X	S	6.8-6.9	Weed Wacker	Mulch	Native Plants		X	Mulch
4440004004		X	S	6.8-6.9	Weed Wacker	Mulch	Native Plants		X	Mulch
4440004003		X	S	6.8-6.9	Weed Wacker	Mulch	Native Plants		X	Mulch
4440002013		Х	S	6.8-6.9	Weed Wacker	Mulch	Native Plants		Х	Mulch
4440002010		Х	S	6.8-6.9	Weed Wacker	Mulch	Native Plants		Х	Mulch
4440001014		Х	S	6.8-6.9	Weed Wacker	Mulch	Native Plants		Х	pull out big shoulder, guadrail starts
4440001008		X	S	6.8-6.9	Weed Wacker	Mulch	Native Plants		Х	mulch
4440001007		Х	S	6.8-7.0	Weed Wacker	Mulch	Native Plants		X	mulch
4434016015		X	S	6.9-7.0	Weed Wacker	Mulch	Native Plants		X	kelly gulch, mulch
4434016019		X	S	7.0-7.1	n/a					pat's grill-all hardscape/paved
4434016028		X	S	7.0-7.2	Native Plants Weed Wacker	Mulch Mulch	Native Plants		X	theater
4434015009 4434014001		X	S S	7.1-7.2	landscaped	Mulch	Native Plants		Х	fence along shoulder all one property-already landscaped Volunteer Tended/ An Review
4434014002		х	S	7.2-7.5	landscaped					all one property Volunteer Tended/ Annual Review
4434014008		Х	S	7.2-7.5	landscaped					all one property Volunteer Tended/ Annual Review
4434014005		х	S	7.2-7.5	landscaped					all one property Volunteer Tended/ Annual Review
4434014007		Х	S	7.2-7.5	landscaped					all one property Volunteer Tended/ Annual Review
4434014006 4434015010		X X	S S	7.2-7.5 7.2-7.5	landscaped landscaped					all one property Volunteer Tended/ Annual Review

YELLOW = im	nortan	t Sansitiv	ve area		Sansitiv	ve Species Lo	ocations	BMP 1 SUMMARY (prefered BMP) PM SUMMARY	BMP 2 (alternate BMP) SUMMARY	RESPONSIBLE PARTY
TELECTY = IIII	portan	LSENSILIV	<u>e area</u>		Selisiti	ve species Lo	<u>Addons</u>	PH SUPPAKI	SOPIMAKI	PANL
Parcel number	-	-	ID n/s	PM	Latitude	Longitude	Condition	NORTHBOUND		
OI I EN IX		?	N	7.8-7.9	34.12332	-118.59659	oak drainage	7.8-10.8 weed wacker	natives	
4434018009		Х	N	8.0						PRIVATE OWNER
	?		N	8.5-8.6			oak woodland			
4434051001		X	N	8.9 - 9.0						PRIVATE OWNER
4434054153	?	X	N N	9.0 - 9.1 9.9-10.0			ale/walauk waa			PRIVATE OWNER
	?		N	10.0-10.0		C	ak/walnut wood drainage	is 		
	•	?	N	10.5-10.68			oak woodland			
4434015006		X	N	11.12 10.00						
4434012029		X	N					slope mower	mulch	
4434012028		X	N							
4434012032		X	N							
4434012014		X	N							
4434012024 4434012025		X	N N							
4434012023		X	N							
4434012037		X	N							
4434012038		X	N							
4434012020		Х	N							
4434013002		X	N							
4434013027		X	N							
4434013028		X	N							
4434018005 4434018004		X	N N							
4434018004		X	N							
1151010005			- '					SOUTHBOUND		
	х		S	8.0-?		wa	lnut/oak woodla	8.0-10.8 Weed wacker	natives	
	×		S	?			alnut/oak woodla			
	?		S	?-9.9			lnut/oak woodla			
		?	S S	? - 9.9			alnut/oak woodla			
		?	S	10.6-?			alnut/oak woodla alnut/oak woodla			
4434015005		X	S	10.0 10.0		VVC	aniac) oak woodie			
4434016029		X	S							
4434016016		X	S				oaks	slope mower		
4434016025		X	S							
4434016024		X	S							
4434016023		X	S S							
4434016027 4434012011		X	S							
4434016026		X	S							
4434013006		X	S							
4434019002		X	S							
4434018008		X	S					slope mower		
4434018011		X	S					Weed wacker		
4434018010		X	S			-				
4434023016 4434023013		X	S S							
1 134023013		^	3							
4434004906	Х		N							
4434004905	Χ		N							
4434004904	Χ		N							
4434004902	X		S						AL MULCH PILOT	
4434004903 4434003902	X		S						AL MULCH PILOT	
	. X		S	T. Control of the Con	1			POTENTI	AL MULCH PILOT	

YELLOW = im	portant	Sensitiv	<u>re area</u>		Detailed BMPs					
Parcel number	public	private	ID n/s	PM	BMP 1	BMP 2	BMP 3	short term	long term	Comments
UPPER TO	ΟΡΑΝ	IGA								
4434018009		? X	N N	7.8-7.9 8.0	Weed Wacker	Native Plants		X	Х	drainage just north of McNeil's, connects to creek
4434018009	2	^	N	8.5-8.6	Weed Wacker	Native Plants		X	X	native oak woodland understory near road
4434051001		Х	N	8.9 - 9.0	Weed Wacker	riderve ridires				VIEWRIDGE DEVELOPMENT
4434054153		Х	N	9.0 - 9.1						TOP OF TOPANGA DEVELOPMENT
								.,	.,	wide dirt pullout with native oak/walnut understory adjace
	?		N	9.9-10.0	Weed Wacker	Native Plants		X	Х	edge
	?		N	10.0-10.0	Weed Wacker	Native Plants		Х	X	drainage often cleared of veg with volunteer oak/walnuts present
		?	N	10.5-10.68		Native Plants		X	X	oaks with trail and drainage
4434015006		х	N							-
4434012029		X	N		Slope Mower	Mulch				
4434012028 4434012032		X	N N		Slope Mower	Mulch				
4434012032		X	N N							
4434012024		X	N		Slope Mower	Mulch				
4434012025		Х	N		Slope Mower	Mulch				
4434012023		X	N		Slope Mower	Mulch				
4434012037		X	N N		Slope Mower	Mulch				
4434012038 4434012020		X	N N		Slope Mower Slope Mower					
4434013002		X	N		Slope Mower					
4434013027		Х	N		Slope Mower					
4434013028		Х	N							
4434018005		X	N		Slope Mower					
4434018004 4434018003		X	N N		Slope Mower					
4434010003										
										Edelman Parking lot south to just before Entrado Rd, steep
	x									
	^		S	8.0-?	Weed Wacker	Native Plants		Х	X	slope off shoulder covered with walnuts
	×		s s	8.0-? ?	Weed Wacker Weed Wacker			x x	x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting
		2	s s	?	Weed Wacker	Native Plants		x x	x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral
	х	?	S S S	? ?-9.9 ? - 9.9	Weed Wacker Weed Wacker Weed Wacker	Native Plants Native Plants Native Plants		X X X	X X X	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northem mixe chaparral 4201 TCB south to 9.9
	х	?	S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434015005	х	?	S S S S	? ?-9.9 ? - 9.9	Weed Wacker Weed Wacker Weed Wacker	Native Plants Native Plants Native Plants		X X X	X X X	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway
4434015005 4434016029	х	? X X	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434016029 4434016016	х	? X X	S S S S S S S S S S S S S S S S S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434016029 4434016016 4434016025	х	? X X X	S S S S S S S S S S S S S S S S S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434016029 4434016016 4434016025 4434016024	х	? X X X X	S S S S S S S S S S S S S S S S S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434016029 4434016016 4434016025 4434016024 4434016023	х	? X X X X X	S S S S S S S S S S S S S S S S S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434016029 4434016016 4434016025 4434016024	х	? X X X X	S S S S S S S S S S S S S S S S S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434016029 4434016016 4434016025 4434016024 4434016023 4434016027 4434012011 4434016026	х	? X X X X X X	S S S S S S S S S S S S S S S S S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434016029 4434016016 4433016025 4434016024 4434016023 4434016027 4433012011 4434016026 4434013006	х	? X X X X X X X X X	S S S S S S S S S S S S S S S S S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434016029 4434016016 4434016025 4434016024 4434016027 4434016027 4434016026 4434013006 4434019002	х	? X X X X X X X X X X	S S S S S S S S S S S S S S S S S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker Slope Mower	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434016029 4433016016 4434016025 44334016023 44334016027 4434012011 4434013006 44334019002 4434018008	х	? X X X X X X X	S S S S S S S S S S S S S S S S S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker Slope Mower	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434016029 4434016016 4434016025 4433016024 4434016023 4434016027 4434012011 4434015026 4434013006 4434019008 4434018008	х	? X X X X X X X X X X X X X X X X X X X	S S S S S S S S S S S S S S S S S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker Slope Mower	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434016029 4434016016 4434016025 4434016023 4434016023 4434016023 4434012011 4434013006 4434013006 4434018001 4434018011 4434018011 4434018011	х	? X X X X X X X	S S S S S S S S S S S S S S S S S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker Slope Mower	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
4434016029 44334016016 44334016025 4434016024 44334016027 4434012011 44334016026 4434013006 4434019002 44334018008 4434018011 44334018011	х	? X X X X X X X X X X X X X X X X X X X	S S S S S S S S S S S S S S S S S S S	? ?-9.9 ? - 9.9 10.6-?	Weed Wacker Weed Wacker Weed Wacker Weed Wacker Weed Wacker Slope Mower	Native Plants Native Plants Native Plants Native Plants		x x x	x x x	slope off shoulder covered with walnuts Top O Topanga south to Edleman Park parking lot, great opportunity for native planting 9.9-Top O topanga fire road, includes some northern mixe chaparral 4201 TCB south to 9.9 Betw. Cezanne Dr and 4201 TCB, Woodland Park driveway healthy walnut/oak woodland behind road shoulder berm,
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Appendix A. Maps

The TCBRC's Mapping Subcommittee was a joint data-gathering effort by members of Caltrans, Los Angeles County Supervisors Office District 3, RCDSMM, NTCFSC, T-CEP, NPS, and TASC. GIS data layers were sourced and/or created from Caltrans, NPS, NTCFSC, RCDSMM, and on-the-ground reconnaissance. Maps were created by Caltrans environmental planners.

The area mapped is SR-27 from Pacific Coast Highway to the Top O' Topanga mobile home park (PM 0.0-10.8). From Top O' Topanga to the county line north of Mulholland will be mapped in a continuation of TCBRC's work.

Consistent with LA County Fire Department requirements, maps focus on vegetation clearance 10 feet from edge of roadway. Multiple layers were used to identify existing features, such as: guardrails, bridges, paved areas, native and invasive plant species, environmentally sensitive areas, high pedestrian traffic areas, wildlife corridors, culverts, roadside slope and gradient, natural seeps or springs, and others. Post miles and GPS coordinates were used to reference data along with property parcel numbers. These maps are living documents and may be updated as conditions and needs change along TCB or as more information is obtained.

The complete set of maps can be found in "Topanga Creek Watershed Management Plan: Topanga Canyon Boulevard Vegetation Management Implementation Plan 2013-2017: Maps" and at http://www.dot.ca.gov/dist07/travel/projects/details.php?id=35 and www.rcdsmm.org.

Appendix B. Best Management Practices Matrix

The TCBRC's Best Management Practices (BMP) Subcommittee undertook a joint fact-finding and analysis effort with members of Caltrans, the Los Angeles County Fire Department, Los Angeles County Supervisors Office District 3, and the TCWC. Each alternative was evaluated using a BMP Evaluation Matrix, developed through an iterative collaborative process. The BMP Matrix contained 20 criteria for determining the viability of each method (Table 3).

References for Table 3:

- 1) Aguinaga Green: http://aguinagagreen.com/Mulch, Compost, Top Soil, and more/Home.html
- 2) E. Smith, "The Combustibility of Landscape Mulches," University of Nevada Cooperative Extension. April 2011. http://www.unce.unr.edu/publications/files/nr/2011/sp1104.pdf
- 3) D. Crohn, V. N. Chaganti & N. Reddy, "Composts as Post-Fire Erosion Control Treatments," American Soc. of Agric. and Biol. Engineers, 2013, 56(2): 423-35.
- 4) Weedingtech: http://weedingtech.com/
- 5) S. Donohoe, B. Schauer, W. White & S. Velinsky (UC Davis), "Vegetation and Debris Control Methods for Maintenance-friendly Roadside Design," June 30, 2010.
- 6) A. M. Rask, S. U. Larsen, "Determining treatment frequency for controlling weeds on traffic islands using chemical and non-chemical weed control," April 2013. http://onlinelibrary.wiley.com/doi/10.1111/wre.12019/abstract
- 7) Cornell University, Dept of Horticulture, "Allowable Herbicides for Schools and Daycare Centers," 2011, revised 2013 per NYS Law Chapter 85, Laws of 2010 (Child Safe Playing Fields Law)- only "demonstrably safe" pesticides with EPA exempt status allowed.
 - http://www.hort.cornell.edu/turf/pdfs/allowable herbicides schools.pdf
- 8) K. Gilbert of Dow Agrosciences, "Pelargonic acid and related C6-C12 fatty acids", March 2007. http://www.ams.usda.gov/AMSv1.0/getfile?dDocName=STELPRDC5056495.

Table 3. Best Management Practices Matrix.

	i	ii	III	iv	v	vi	vii	viii	ix	x	xi		xii		xiii	xiv	xv	xvi	xvii	xviii	xix
	Description	Track Record for Similar	Effective on target species?	Seasonal Conditions	Locations	Labor	Tools/ Equipment	Maintenance	Cost	Worker safety	Fire safety	Impact u	pon water Erosion		Impact on Non- Target Species and Habitat	Other safety issues	Coordination and Management	Aesthetic Impacts	Other Advantages	Other Disadvantages	Notes
TIER 1 (2013 USE)																					
Caltrans slope mower	Caltrans machine used to trim steep slopes	very good	yes	cannot be used in "sensitive areas" until July 1	slopes in non- sensitive areas until July. After July 1: everywher	Caltrans in- house	mower not always available	does not cut roots – may have to return	modest	safe with training	possible sparking issues	none expected	potential erosion issues	none	none expected if sensitive areas avoided until July 1	training needed	Caltrans in- house	none	historical use: efficacious	none	n/a
Composted Mulch	"Forest Floor" by Aguinaga Green is a composted organic mulch product ¹	very good	yes	Anytime (best applied after weeds are cut & removed)	don't apply near culvert. good under guardrails. 2:1 slope ok	Caltrans in- house, vendor, or volunteers	blower or spreader truck	low	modest	very safe	good ²	none expected	none	none	none expected	none expected	Vendor must provide spreader trucks. No maint. for 2-3 yrs once applied	attractive	keeps soil cool; builds soil; enhances soil health; erosion control ³	n/a	ensure we are not bringing seeds in – must be certified organic, composted at heat high.
Native plants	plant approved native flora (to be drawn from a select list of natives that are more fire- resistant and/or low growing) where weeds would otherwise grow	good	mostly	plant Nov- Feb	in riparian areas only	TCWC, volunteers	requires irrigation	semi-intensive initially	unknown	very safe	non- issue	n/a	none	n/a	good	proximity to road & regular maintenance is accident risk	TCWC, volunteers	positive	community involvement	irrigation require- ments initially	
Weed-whacker	-	very good	yes (above ground)	ideally, right before weeds go to seed	best suited for places not accessible to larger machines	Caltrans in- house or volunteers	weed- whacker readily available	annual	modest	safe with training	possible sparking issues	n/a	n/a	n/a	none if sensitive areas avoided until July	n/a	some equipment coord. required	good – does not leave dead stalks	allows for operator to cut around desired plants	how to equip & train volunteers	consider as both Caltrans and volunteer option
TIER 2 (FUTURE R	ESEARCH)																				
Hot foam	Proprietary technology from UK company called "Weedingtech". The foam is composed of plant oils and sugars, including rapeseed oil, potatoes, wheat, and corn; hot water kills plants, foam keeps heat in place and helps penetrate. Can kill roots if necessary. 4	very good	yes	Anytime (Hot, sunny weather is ideal but not required)	may replace weed- whackers in hard to reach locations	Caltrans in- house	Caltrans in- house	annual	unknown	safe with training	non- issue	n/a	none expected	n/a	none expected outside of amphibian mating period (late march- July 1)	none expected	Caltrans in- house	n/a	not weather dependent; reduces reliance on manual labor	UK-based	If Caltrans already owned the machinery and had a license to use this technology, this would possibly be a Tier 1 solution.
	Similar technologies that essentially cook the plant	fair to good ⁶	sometimes	Anytime (Hot, sunny weather is ideal but not required)	not good on slopes	house or vendor	special equipment must be rented by Caltrans	annual/semi- annual	unknown	safe with training	non- issue	n/a	erosion risk	n/a	none expected	could cause steam burns if not careful	Caltrans in- house; vendor selection	n/a	nothing more nontoxic than pure water		Need to verify if this can be applied near the creek
Minor Concrete	Concrete, pour-in-place under guardrails	Good	yes	Anytime (Hot, sunny weather is ideal but not required)	Flat areas	Contractor	Uses standard equipment on hand by contractors	almost none	\$100 per sq.yd	very safe	non- issue	none expected	none	none	none expected	none expected	Caltrans' contract	Can be colored to match soil or surroundings	long-lasting	Needs flat area to construct	

	i	ii	iii	iv	v	vi	vii	viii	ix	х	xi		xii		xiii	xiv	xv	xvi	xvii	xviii	xix
	Description	Track Record for Similar	Effective on target species?	Seasonal Conditions	Locations	Labor	Tools/ Equipment	Maintenance	Cost	Worker safety	Fire safety	-	pon water		Impact on Non- Target Species and Habitat	Other safety issues	Coordination and Management	Aesthetic Impacts	Other Advantages	Other Disadvantages	Notes
Plant-based	Broad spectrum, foliar, post-emergent. Typically composed of vinegar, citrus, clove oil, cinnamon, other	good	yes, except hazardous to sensitive faunal species.	dry, sunny	TBD by case by a biologist. Creek and run-off must be avoided.	Caltrans in- house	Uses standard equipment on hand at Caltrans	requires 2+ passes, one to apply, one to collect	higher	safe with standard protective gear	non- issue	none expected	none	n/a	rapidly biodegrades; can be toxic to a few species if direct & immediate contact	none expected	Caltrans in- house, volunteers	Vegetation will appear burned, as it does with more toxic synthetic herbicides.	allows good coverage/acce ss. Closest facsimile of what Caltrans already does.	requires removal of dead plant matter	Can be toxic to cats IF there's direct ingestion or inhalation in the hours that it takes to biodegrade.
Weed mats	pre-cut mats made of recycled plastic materials ("Weed Ender", NC company)	very good	yes	Anytime	hard to access areas reap the most long-term benefit (e.g. guard rails)	Caltrans in- house or vendor	n/a	almost none	expensive up front, but Caltrans has access to SHOPP funds	very safe	good	none expected	none expected	none	none expected (but biodegrad- ability of toxic materials must be fully vetted)	none expected	Caltrans' selected vendor for materials, Caltrans' in- house application	semi- attractive	once put down, doesn't need to be touched for 15+ years in most cases.	natural color or mulch overlay for aesthetics	for poles, guardrails, signs or in areas that will be labor intensive areas for trimming
TIER 3 (UNLIKELY	TO SUCCEED)									_		-									
Herbicidal soaps	These are primarily potassium salts of fatty acids (pelargonic-fatty-acids).8	good	sometimes	dry, sunny	Need to be a certain distance from creek?	Caltrans in- house	Uses standard equipment on hand at Caltrans	requires 2+ passes, one to apply, one to collect	higher	safe with standard protective gear	non- issue	need to double check potassium salts levels	none	n/a	rapidly biodegrades	none expected	Caltrans in- house, volunteers	Vegetation will appear burned, as it does with more toxic synthetic herbicides.	even Dow Agrosciences touts this as efficacious	requires removal of dead plant matter	NYS "Safe School and Daycare Centers 2010" law serves as a useful guide for least toxic pesticides
High pressure water	Uses extremely high pressure water to fell and/or uproot plants	good	mostly	Anytime (depends on plant growth cycle)		Caltrans in- house or vendor		annual	unknown	some danger	non- issue		erosion risk	n/a	could harm organisms directly in its path	extreme steam and pressure could cause injury	challenging to coordinate; rent equipment	n/a	used by NPS	potential damage to structures	May be appropriate option for SCE utility poles
TIER 4 (DISCARDE	D)	ĺ																			
Glass mulch	An inorganic (in the sense of "not living") mulch used primarily for decoration and/or drainage.	poor	sometimes	Anytime (best applied after weeds are cut & removed)	n/a	Caltrans in- house, vendor, or volunteers	n/a	n/a	n/a	very safe	non- issue	none	none	none	none expected	none expected	n/a	attractive	n/a	n/a	no longer under consideration since it is not an effective weed suppressor
	Used to create (or maintain) flat dirt or gravel roads. Not a standard veg. mgmt tool.	n/a	n/a	n/a	n/a	Caltrans in- house	n/a	n/a	n/a	safe with training	non- issue	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Gorilla blade	An especially sharp blade used to reduce cutting time and/or penetrate very tough plants, like Tree-of- Heaven	very good	yes (above ground)	n/a	Tree-of- Heaven; hard-to-cut veg.		Caltrans in- house	annual	n/a	safe with training*	possible sparking issues	n/a	n/a	n/a	none if sensitive areas avoided until July	none expected	Caltrans in- house	n/a	n/a	could be dangerous; not volunteer- friendly	n/a
Power pruner	Used to cut trees, arundo and other difficult vegetation	very good	yes	cannot be used in sensitive areas until July 1	rip rap	Caltrans in- house	mower not always available	does not cut roots – may have to return	modest	safe with training	possible sparking issues	none expected	none expected	none	none expected if sensitive areas avoided until July	training needed	Caltrans in- house	none	historical use: efficacious		may be ideal for arundo mngmt
Rock mulch	An inorganic mulch used primarily for drainage and/or decoration.	poor	sometimes	Anytime (best applied after weeds are cut & removed)	n/a	Caltrans in- house, vendor, or volunteers	n/a	n/a	n/a	very safe	non- issue	none	none	none	none expected	none expected		attractive	n/a	n/a	no longer under consideration since it is not an effective weed suppressor

^{*}The sharper the blade, the more potential for danger. A gorilla blade should be used very judiciously and only by highly trained and skilled workers.

Appendix C. Language for Caltrans' SR-27 Vegetation Control Plan

The following language has been approved by Deputy District Director Dan Freeman for insertion into the SR-27 Vegetation Control Plan:

It is the goal of Caltrans to coordinate and cooperate with the Topanga community to develop strategies and methods that make the use of herbicides unnecessary along State Route 27 in Topanga Canyon for full compliance with the Los Angeles County Fire Code. An approved strategy for vegetation control has been compiled and approved by the Caltrans Divisions of Maintenance and Environmental Planning in coordination with the Los Angeles County Fire Department and Topanga Canyon Boulevard Roadside Committee, as per the intention of the Topanga Canyon Watershed Management Plan of 2002. The detailed strategy and methods are found in the Topanga Canyon Boulevard Vegetation Control Implementation Plan, archived in the Caltrans Maintenance library, Environmental Planning library, and District 7 intranet. The offices of the Los Angeles County Supervisor District 3 and California Senate District 50 can also be contacted for questions and further information.

It shall be the responsibility of the Maintenance Supervisor for SR-27 to ensure that only approved vegetation control methods are used by the maintenance crew when working on SR-27, and to alert the crew of any special timing related to sensitive species areas (see list below). Furthermore, it shall be the responsibility of the Maintenance Supervisor, the Senior Landscape Architect in charge of Maintenance Support, and the Senior Environmental Planner for Maintenance to meet at least annually with the Topanga Canyon Boulevard Roadside Committee to evaluate conditions and management needs along SR-27 for that year. Finally, it shall be the responsibility of the Landscape Specialist in charge of District 7 Roadside Vegetation Management to update Caltrans' Vegetation Control Plan annually with the vegetation control methods approved by Caltrans and the TCBRC.

The following areas identified as environmentally sensitive are to be given special care and consideration. All areas must be managed by Caltrans due to road conditions, with the exception of two locations that could be managed by private owners if appropriate (noted in bold).

NORTHBOUND:		
0.0-0.1	Seep	MANAGED AFTER JUNE 30 (Along shoulder approx. 50' to
		pipe)
0.4-0.5	Seep	MANAGED AFTER JUNE 30 (Along shoulder approx. 50'
		starting at utility pole)
0.5-0.6	Creek Drainage	MANAGED AFTER JUNE 30 (At bend by guardrail)
2.0-2.1	Bridge over Topanga Creek	
2.1	Sycamore Tree	PRUNING IN FALL/WINTER ONLY
2.4-2.5	Turnout and creek access at waterfall	
5.4-5.6	Humboldt lilies under oaks	MANAGED AFTER JUNE 30 (Driveway to 770 N. TCB)
		Weed whacking or mulch only (no slope mower)
		Potential for private owner management
SOUTHBOUND:		
1.0-2.0	Top of creek bank	(Behind guardrail)
2.3-2.4	Seep	MANAGED AFTER JUNE 30 (100' along shoulder)
2.4-3.8	Native slopes	
3.8-3.9	Seep	MANAGED AFTER JUNE 30 (30' south of driveway at 327
		TCB) Potential for private owner management

Appendix D. Forms and Contractors

The following includes: a list of contractors who have worked previously with Caltrans, the Caltrans Standard Encroachment Permit (for use by contractors or umbrella groups), and Caltrans Maintenance's Consent Letter (for use by individuals or small groups). Detailed information and forms for the Encroachment Permit can be found at http://www.dot.ca.gov/hq/traffops/developserv/permits/; consent letter forms can be obtained from Caltrans Maintenance.

Landscape Contractor's

- Rivera Irrigation Inc. Louie Rivera/Steve Rivera – 714.639.0400
- America West Landscape, Inc. Duane Geon – 562.803.6800 office - 562.803.6890 fax
- 3. Mariposa Horticultural Enterprises, Inc. Ren Flugel 626.960.0196
- 4. Marina Landscape, Inc. Joe Whitney – 714.939.6600
- 5. Nature Tech Landscaping, Inc. Jeff Signor 909.684.8808
- Valley Crest Landscape
 Everardo Gonzalez 818.834.1000
- Plowboy Landscape, Inc. Manuel Vega – 805.643.4966 (Ventura)
- Silver Oak Landscaping, Inc. Keith Bray – 951.681.9839 951.232.5325 cell
- Environmental Construction, Inc. Fred Sorandi – 818.704.1093

- CLS Landscape Management, Inc. Kevin Davis, president – 909.628.3005 office 909.464.1021 fax (maintenance)
- Tropical Creations
 Mac Duran 818.885.5000 ext. 208
 818.885.5554 fax
- Lawnscapes
 Alfonso Lopez -805.486.8844
 805.486.8834 fax
 805.207.8733 cell
 (Ventura area only)
- Landscape Development, Inc. Eric B. Wright -661.295.1970 office 661.296.1969 fax 661.510.4039 cell
- Oakridge Landscape, Inc.
 Juan Del Villar-818.891.0468 ext. 117 818.974.0423 cell 818.892.9273
- KCI Environmental, Inc. Steve Barnhart – 805.383.9099 805.383.9003 fax 805.432.2387 cell
- Kato Landscape, Inc. Mike Kato – 714.963.4615

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22. Will this proposed project require the disturbance of soil? If "YES", estimate the area within State Highway right-of-wa estimate the area <u>outside</u> of State Highway right-of-wa			□NO	(%²) AND		(acr
23. Will this proposed project require dewatering? If "YES", estimate total gallons AND gallons/month. SOURCE": STORMWATER NON-STORMWATER ("See Calitans SWMP for definitions of non-storm water of		(gallons)		vater/index.htm)	(galions	/month)
24. How will any storm water or ground water be disposed of from Storm Orein System Combined Sewer / Storm System Other (explain):		the limits of this p Storm Water Rete		ect?	٠,	
PLEASEREAD THE FOLLOWING CLAUSES:	PRIORTOSI	GNING THIS	ENCROA	CHMENTPER	RMITAPPLI	CATION.
The applicant, understands and herein agreequired for non-payment of prior or present due when an application is withdrawn or de California Streets and Highways Code, Sect. and regulations subject to inspection and applications.	encroachn enied, and ion 671.5. A pproval.	nent permiti that a denia Ul work sha	iees. Enc I may be Il bedone	roachment. appealed, i in accorda	Permitfees n accorda nce with Ca	s may still be nce with the altrans rules
The applicant, understands and herein agree encroachment permit, and to indemnify and and each of them (Indemnitees) from and aga expenses, actual attorneys' fees, judgments, arising out of or in connection with the issual subsequent operation and maintenance of including but not limited to the Applicant, indemnities, and the public; and 2) damage to provisions stated above shall apply regardle however, shall not be obligated to indemnify misconduct of State, its officers, directors, a	hold harmi instany and losses and nce and/ord said encro the State a property of ss of the ex indemnitie	ess the State dell claims, it liabilities on use of this eachment for and its office fanyone. Ex- istence or desires sor sor Claims	e, its office demands fevery kin ncroachr r: 1) bod ers, direc ceptas p egree of i	cers, directo , causes of a nd and natur ment permit ily injury an ctors, agent rovided by k fault of Inder	ors, agents action, dam rewhatsoe and the pla ad/or death is and emp aw, the inde mnities. The	, employees ages, costs, ver (Claims) cement and to persons ployees, the emplification te Applicant.
DISCHARGES OF STORM WATER AND NON conducted in compliance with all applicable System (NPDES) permit issued to the Departmenter and non-storm water from its properties State and Local laws and regulations, and with permit. Compliance with the Departments N submission of a Storm Water Pollution Prote and the approval of same by the appropriate the requirements may also be reviewed on the http://www.dot.	le requirent ent of Trans s. Work sha the Departr IPDES pern ction Plan (e reviewing te Departme	nents of the sportation (E ill also be in d nent's Encro nit requires SWPPP), or authority p ent's Consti	Nationa Pepartme Complian Pachment amongs a Water F Prior to the Puction W	I Pollutant i nt), to govern ce with all ot t Permits Mai t other thing Pollution Coi e start of an febsite at: -	Discharge on the dischar ther applica- nual and en us, the prep ntrol Progr	Elimination argeofstorm able Federal, croachment peration and am (WPCP).
25. NAME of APPLICANT or ORGANIZATION (Print or Type)			· · · · · · · · · · · · · · · · · · ·	E-MAIL ADDI	RESS	
ADDRESS of APPLICANT or ORGANIZATION WHERE PERM	IT IS TO BE MA	ILED (Include	City and Zip	Code)		
PHONE NUMBER		FAXNUMBER				
26. NAME of AUTHORIZED AGENT / ENGINEER (Print or Typ	YES	FAUTHORIZATI		ED? E-MAIL ADD	RESS	
ADDRESS of AUTHORIZED AGENT / ENGINEER (Include City	and Zip Code)	-				
PHONE NUMBER		FAXNUMBER				
27. SIGNATURE of APPLICANT or AUTHORIZED AGENT	28. PRINT OR T	YPE NAME		29,TITLE	30.	DATE

STANDARD ENCROACHMENT PERMIT APPLICATION TR-0100 (REV. 07/2007)

ally.	Page 3 of 4	
PERMIT NO.		
 WORK ORDER/REFERENCE	Militaria	
TOTAL CILLIPAGE	RUMBER	

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2 HOURS @ \$*			\$		\$						
INSPECTION	1. FEE / DEPOSIT	DATE	2. FEE / DEPOSIT	DATE	TOTAL FEE / DEPOSIT						
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2 HOURS @ \$*			\$		\$						
FIELDWORK				1							
HOURS @ \$*	\$		\$		\$						
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* The current hourly rate is set annually	y by Headquarters Acc	ounting. Dis	trict Office staff do not	have authori	ly to modify this rate.						
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PAYMENTBOND		DATE			AMOUNT \$						
LIABILITYINSURANCE REQUIRED?		□ Y	ES NO		AMOUNT \$						

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
STANDARD ENCROACHMENT PERMIT APPLICATION
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PERMIT NO.		

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INSTRUCTIONS for completing page 4

This page needs to be completed when the proposed project <u>DOES NOT</u> involve a City, County or other public agency.

Your answers to these questions will assist departmental staff in identifying any physical, biological, social or economic resources that may be affected by your proposed project within the State highway right-of-way. And, to determine which type of environmental studies may be required to approve your application for an encroachment permit.

It is the applicant's responsibility for the production of all required environmental documentation and supporting studies, in some cases this may be costly and time-consuming. If possible, attach photographs of the location of the proposed project.

Please answer these questions to the best of your ability. Provide a description of any "YES" answers (type, name, number, etc.)

1.	Will any existing vegetation and/or landscaping within the highway right-of-way be disturbed?
2. proj	Are there waterways (e.g. river, creek, pond, natural pool or dry streambed) adjacent to or within the limits of the ect or highway right-of-way?
3.	Is the proposed project located within five miles of the coast line?
4.	Will the proposed project generate construction noise levels greater than 86 dBA (e.g. jack-hammering, pile driving)?
5.	Will the proposed project incorporate land from a public park, recreation area or wildlife refuge open to the public?
6.	Are there any recreational trails or paths within the limits of the proposed project or highway right-of-way?
7.	Will the proposed project impact any structures, buildings, rail lines, or bridges within highway right-of-way?
8.	Will the proposed project impact access to any businesses or residences?
9.	Will the proposed project impact any existing public utilities or public services?
10.	Will the proposed project impact existing pedestrian facilities, such as sidewalks, crosswalks, or overcrossings?
11.	Will new lighting be constructed within or adjacent to highway right-of-way?

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION CONSENT LETTER

TR-0131 (REV. 08/2005)

Page 1 of 2

APPLICANT'S SIGNATU	RE	PRINT NAME	
TITLE		BUSINESS TELEPHONE NUMBER	DATE SIGNED
NAME OF ORGANIZATION	ON		
BUSINESS ADDRESS			
CITY/STATE/ZIP			
TYPE OF WORK:	VEGETATION CONTROL (WEED CONT	TROL, MOWING GRASS, OR BRUSH/SE	EEDLINGS)
	LITTER REMOVAL	☐ SALVAGE SPILLED MA	TERIAL
	DONATED LANDSCAPE MATERIALS	OTHER (Describe)	

SAFETY REQUIREMENTS FOR PARTICIPANTS

While on the roadside, remember: SAFETY FIRST!

LOCATION OF WORK (COUNTY/RTE/PM, CROSS STREETS)

To protect yourself and others:

DESCRIPTION OF WORK

- · Stay off the roadway and shoulders. (This includes unpaved shoulders.)
- · Do not cross freeway traffic lanes on foot. Use caution when crossing conventional highways. Use crosswalks and signals where available.
- Face oncoming traffic as you work and keep an eye on traffic. Be prepared to move quickly, if necessary.
 Do not work on the roadway or shoulders, on bridges, or in tunnels.
- · Discontinue work before dusk.
- Do not work when fog or other conditions reduce visibility for drivers.
- Do not work when roadway is icy.
 Do not touch or remove materials which you suspect may be toxic or hazardous. Items to avoid include powders, chemicals, smelly substances, suspicious packages, chemical drums or containers, weapons, syringes or hypodermic needles, dead animals and broken glass. Notify Caltrans or the police of the location of weapons or suspected toxic substances immediately.
- Do not compact trash bags. Injuries from broken or jagged objects may occur.
- Wear orange vests and other personal safety equipments as advisable.
 Wear long pants and substantial leather shoes or boots with ankle support. Watch your footing and stay off steep slopes, drainage facilities or places from which you might fall.

- Do not run, throw objects or engage in horseplay or any other activity which may distract drivers.
 Do not consume alcoholic beverages or drugs before entering or while on the roadside.
 Be aftert where snakes may be located. Also be aftert for stinging insects and poisoning plants (e.g. poison oak).

		FOR CALTRAN	S USE ONL	Υ		
Cons	sent Letter For:					
Perm	nission is hereby granted to enter	onto State Highway				
to Co	onduct a one day		on	, 20	, Subject t	to the
terms	s and conditions shown on page	2 of this letter.				
MAINTENAN	CE SUPERINTENDENT SIGNATURE (FO	R DISTRICT DIRECTOR)				
DISTRICT DI	RECTOR'S NAME			N ^a		

CONSENT LETTER

TR-0131 (REV. 08/2005)

Page 2 of 2

- It is expressly understood that the work to be performed is to be undertaken by yourself, your organization or by volunteers acting for and on behalf of themselves, yourself and your organization, and that yourself, your organization and said volunteers are not and shall not be considered employees of the State of California, or of the Department of Transportation.
- 2. The State of California and its officers and employees shall not be liable for any death, injury or property damage claims which arise from any activities which are the subject of this one-day letter of consent that may have been reasonably prevented by you, your organization or those persons employed by or acting in your behalf. If any claims arise out of the foregoing, you shall defend, indemnify and save harmless the State of California and its officers and employees from same.
- This letter of consent or a copy thereof shall be kept at the site of the work and must be shown to any
 representative of the Department of Transportation or law enforcement officer on demand. Work shall be
 suspended if a complete copy of this letter is not available at the job site.
- All work shall be conducted in conformance with the attached "Safety Requirements For Participants" shown on page 1.
- All work shall be conducted during daylight hours.
- All work shall be performed on the date indicated above.
- 7. If weather or other adverse circumstances cause a public hazard, work shall be immediately discontinued.
- Work shall not be performed within 6 feet of traffic lanes, within center dividing strips, upon bridges, culverts, or structures of any kind unless specifically approved by the Department Representative.
- 9. Workers shall not cross any traffic lanes of freeways and expressways.
- 10. Traffic control is prohibited.

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (918) 854-8410 or TDD (916) 854-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

Appendix E. Evaluation Framework for Implementation

An evaluation framework is used to make and document defensible decisions on alternative solutions. It helps establish the feasibility of alternatives, offers criteria for measuring the potential effectiveness and values of alternatives, and sets time-dictated benchmarks to measure success. For TCBRC, the framework is expected to:

1) Establish standards for decision-making on alternatives; 2) Allow TCBRC members to explain and defend final decisions to constituents or superiors; and 3) Act as a guide for other communities and Caltrans Districts that wish to replicate the process undertaken in Topanga. Annual results from the evaluation framework report will help inform future methods and research.

The framework has seven criteria: fire safety, environmental toxicity, erosion control, worker safety, total cost, sustainability, and timeframe. These criteria and any supporting assessment tools are living documents and may be updated as conditions and needs change along TCB or as more information is obtained.

Criterion 1: Fire Safety (Vegetation Height and Mass)

After the vegetation is cleared or managed, it meets the LA County Fire Department's safety requirements, as determined during fire inspections from June 1st to September 1st. The requirements are:

- Vegetation height: Less than or equal to 2" tall
- Vegetation mass: Zero or minimal dead material mass accumulation.

Zero is expected during the dry summer season; 10% is acceptable during wet winter season. Acceptable mass accumulation also depends on type of material. Large or loose dead material must be cleared to 0%. Small or compacted dead material can be cleared to 10%.

<u>Discussion</u>: For the height criterion, a graded scale is used to account for the fact that the height requirement is not always achievable in absolute terms due to varying conditions. The mass criterion is made of four parts and thus will be weighted on an absolute scale so that it is equivalent to the weights of the other criteria.

Performance Measure:

Qualitative scale for height:

1 = Acceptable at 5"

3 = Superior at 3.5"

5 = Optimal at 2"

Absolute scales for mass (note: The cumulative three mass scores, when added monthly, will fall on a gradient of 1-5, where 1=Unacceptable and 5=Optimal.)

0% accumulation in dry season (Jun, Sept): \leq 10% accumulation in wet season (Jan):

0.25 = No 0.25 = No 1.25 = Yes 1.25 = Yes

100% large/loose cleared (Jan, Jun, Sept): >90% small/compacted cleared (Jan, Jun, Sept):

0.25 = No 0.25 = No 1.25 = Yes 1.25 = Yes

<u>Assessment Checklist:</u> Ratings assigned for BMPs applications along TCB sections, 3x/yr, with ratings added together per BMP for total score. See sample assessment forms below.

SAMPLE FIRE SAFETY ASSESSMENT FORM

Vegetation Height Ratings: 1 = Acceptable at 5"; 3 = Superior at 3.5"; 5 = Optimal at 2"

Mathematical North Central N	BMP	SECTION	JAN		JUNE	.5 ,5 - Optili	SEPT	
South central North central Upper Topanga Southbound Lower Topanga South Central Upper Topanga South Central South	WEED WHACKER		RATING	NOTES	RATING	NOTES	RATING	NOTES
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South central North central Upper Topanga	Southhound		-					
North central Upper Topanga	Journbound							
Upper Topanga Upper Topanga								
	Subtotal	- Pho. 10 hanga						

Veg Mass Accumulation Ratings: Jan, < 10% accumulation: 0.25 = No, 1.25 = Yes

June/Sept, 0% accumulation: 0.25 = No, 1.25 = Yes

Large or loose veg cleared 100% (Jan, Jun, Sept): 0.25 = No, 1.25 = Yes Small or compacted veg cleared > 90% (Jan, Jun, Sept): 0.25 = No, 1.25 = Yes

Combine 3 scores each month for total. Gradient: 0.75 (unacceptable) to 3.75 (optimal).

ВМР	SECTION	JAN		JUNE		SEPT	
WEED WHACKER		RATINGS	NOTES	RATINGS	NOTES	RATINGS	NOTES
Northbound	Lower Topanga						
	South central						
	North central						
	Upper Topanga						
Southbound	Lower Topanga						
	South central						
	North central						
	Upper Topanga						
3 Scores Subtotal							
SLOPE MOWER							
Northbound	Lower Topanga						
	South central						
	North central						
	Upper Topanga						
Southbound	Lower Topanga						
	South central						
	North central						
	Upper Topanga						
3 Scores Subtotal							
MULCH							
Northbound	Lower Topanga						
	South central						
	North central						
	Upper Topanga						
Southbound	Lower Topanga						
30411304114	South central						
	North central						
	Upper Topanga						
3 Scores Subtotal							
NATIVES							
Northbound	Lower Topanga						
	South central						
	North central						
	Upper Topanga						
Southbound	Lower Topanga						
	South central						
	North central						
	Upper Topanga						
3 Scores Subtotal							

Criterion 2: Environmental Toxicity

Impact to riparian zone from toxic methods such as some organic herbicides (e.g., vinegar, clove oil) and/or synthetic chemicals (e.g., those found in Roundup Pro Concentrate, Milestone VM), with the goal of No Impact.

Areas to be avoided for the use of any toxic methods include (post miles are approximate):

North Bound – Lower Topanga PM 0.0-4.0

Bridge @ Cheney Drive PM 6.5
Bridge @ Santa Maria Road PM 7.35
Drainage across from Edelman parking lot PM 8.3

South Bound - Lower Topanga to above Rubicon Road PM 0.0-7.1

(Pat's Topanga Grill)

Edelman Park to Entrado Drive PM 8.0-8.5

Discussion:

Caltrans' goal is 80% reduction in the use of herbicides by 2012 along state routes. TCB achieved 100% with manual clearing 2002-2011, but did not achieve 100% compliance with county fire requirements. Topanga's goal is to achieve 100% reduction in the use of herbicides and 100% fire compliance.

Percentage of toxin reduction will be measured in linear feet and will not include spot treatments. For example: "In 2014, Southern California Edison expects to use Roundup around 80 poles, at 100 linear feet per pole. This equals 8000 linear feet, or 7% of the roadway." (22 miles = 116,160 feet of road)

This criterion will be phased in to account for Topanga's sensitive environment and the numerous stakeholders implementing vegetation management measures. The phasing schedule for the percentage of toxic methods used is as follows:

Yr 1: 20% used Yr 2: 15% used Yr 3: 10% used

Yr 4: 5% used Yr 5: 0% used

Performance Measure:

Qualitative scale:

1 = Does not meet the above schedule as set

3 = Partially meets the above schedule as set

5 = Meets the above schedule as set

<u>Assessment Checklist</u>: Per year, % of linear feet treated with toxic herbicides in the 4 sections of Topanga Canyon Blvd (Lower, South Central, North Central, and Upper). Combine amounts used by Caltrans, Southern California Edison, private owners as much as possible. See sample assessment form below.

SAMPLE TOXICITY ASSESSMENT FORM

DIRECTION	SECTION	JAN		JUNE		SEPT	
		# LINEAR FEET	NOTES	# LINEAR FEET	NOTES	# LINEAR FEET	NOTES
Northbound	Lower Topanga						
	South central						
	North central						
	Upper Topanga						
Subtotal							
Southbound	Lower Topanga						
	South central						
	North central						
	Upper Topanga						
Subtotal							
MONTHLY TOTAL							
					Full Subtotal: Sept monthly		
					% of TCB for y (Full subtotal)	ear	

Criterion 3: Erosion Control

Alternative maintains stability of slopes and does not contribute to erosion.

Discussion:

Slope stability is retained by maintaining root systems. In slopes \geq 20degrees, attention needs to paid to vegetation changes and any effects; < 20 degrees, implementation must be done so as not to accelerate possible erosion events. (Orme, T. , A. J. Orme, and K. Saunders. 2002 Topanga Creek Watershed Erosion and Sediment Delivery Study 2000-2001. Final Report to RCDSMM.)

This criterion is measured with a qualitative scale regarding observed signs of instability (rills, gullies, slumping, etc) due to vegetation management methods and/or implementation procedures that negatively impact the root system or contribute to erosion. Conditions will also be documented with photographs and/or video.

Performance Measure:

Qualitative scale:

- 1 = Slope stability significantly affected
- 3 = Slope stability moderately affected
- 5 = Slope stability unaffected

<u>Assessment Checklist</u>: Note slopes of ≥20degrees, measure against Caltrans Maintenance erosion control assessment form. Observations documented during visual slope inspections by Caltrans maintenance workers.

Criterion 4: Worker Safety

Vegetation management activities can be performed safely by all workers. In particular, participating community members operate 6' or more from the edge of the road (white line) or, when they must be closer, lane or shoulder closures are performed as appropriate.

Performance Measure:

Qualitative scale:

- 1 = Significant safety concerns
- 3 = Moderate safety concerns
- 5 = No safety concerns

<u>Assessment Checklist</u>: Measure on portions where manual clearing is being undertaken by private owners. Method TBD for information gathering.

Criterion 5: Total Cost

Accumulated final cost at end of 4 years, to equal an average annual maximum of \$40,000. Final accounting includes the cost of each segment, added together (Caltrans, state parks, private). Assessment limited to the aggregate of labor, materials, and equipment.

<u>Discussion</u>: The Year 4 benchmark allows for adjustments, if needed, to the next five-year plan. Need to determine how data is gathered, private might be most difficult to obtain.

Performance Measure:

Qualitative scale:

- 1 = High cost, > \$36.5k
- 3 = Moderate cost, \$30k \$36.5k
- 5 = Low cost, < \$30k

<u>Assessment Checklist:</u> Annual accounting statements gathered from Caltrans and state parks. Method TBD for information gathering from private owners.

Criterion 6: Sustainability

Delivery methods can be maintained for as long as they are needed. "Maintained" takes into account the impact of methods on the workers and volunteers, environment, and community, and total budget.

Discussion:

Need to consider short-term solutions and long-term solutions both separately and in tandem. For example, it would be 4-5 yrs to achieve the long-term weed mat solution, so a short-term solution would be needed in the interim for under guardrails.

Need to consider cost, labor, and time needed for implementation. Will all stakeholders be able to deliver annually in terms of cost and labor? What factors will need to be in place to achieve this? Private will need the most attention in this regard.

Performance Measure:

Qualitative scale:

- 1 = Sustainable for only 1-3 years
- 3 = Sustainable for only 3-6 years
- 5 = Sustainable for the foreseeable future beyond 6 years

Assessment Checklist: Measured against responsible parties and BMPs noted in the work plan. Assessment is conducted against results of the annual work plan review.

Criterion 7: Timeframe

All work is expected to be completed by June 1st, annually, as required by the LA County Fire Department. Spot locations and habitats identified as sensitive, such as seeps, are exempted from the June 1st deadline and will be managed according to the timeline established for those areas. It also recognized that weather conditions may affect work completion.

The majority of the work follows the phasing schedule for the percentage of work completed as noted below:

Yr 1: 40% by June 1; 60% by July 1; 80% by Aug 1; 100% by Sept 1

Yr 2: 60% by June 1; 80% by July 1; 100% by Aug 1

Yr 3: 80% by June 1; 100% by July 1

Yr 4: 100% by June 1

Yr 5: 100% by June 1, reassess plan for next 5 years

Discussion:

In Year 1 (2013), Central Topanga is targeted to be done by June 1st, North by July 1st, South by August 1st.

Performance Measure:

Qualitative scale:

- 1 = Does not meet the above schedule as set
- 3 = Partially meets the above schedule as set
- 5 = Meets the above schedule as set

<u>Assessment Checklist</u>: Measured as laid out in above schedule. Assessment is conducted against results of the annual work plan review.

Appendix F. Sensitive Areas and Species

The TCBRC determined that sensitive species and areas in the right of way needed to be identified so that vegetation management could be undertaken as appropriate to avoid negative environmental impacts. Two sections are included:

Sensitive Areas Locations – Includes management recommendations

Water Resources in Lower Topanga Canyon (Table 4) – Areas where polluted runoff from seeps and springs along TCB into Topanga Creek could be especially harmful.

Sensitive Area Locations

NORTHBOUND:

0.0-0.1 NB Seep 34.03963, -118.58228 MANAGED AFTER JUNE 30

Located along the road shoulder extending approx. 50' to pipe (34.04195,-118.57864)

Native wetlands plants (cattails, stream orchids, etc.)

Breeding site for amphibians

*Needs pampas grass removal and control

0.4-0.5 NB Seep 34.04581, -118.57809 MANAGED AFTER JUNE 30

Located along the road shoulder extending approx. 50' starting at utility pole #798195E Native wetlands plants (cattails, willow, mulefat, etc.)

Breeding site for amphibians

0.5-0.6 NB Creek Drainage under road 34.04615, -118.57737 MANAGED AFTER JUNE 30

Located at bend in the road, guardrail present

Native wetland plants and breeding amphibians

*Needs cape ivy and other invasive plant control and removal

2.0-2.1 NB Bridge over Topanga Creek

Main access route to creek channel

*Needs castor bean and other invasive plant control and removal

2.1-2.1 NB Sycamore Tree 34.06762, -118.58706 Careful Pruning in Fall/winter only Important bank stabilization, need to check for breeding birds before pruning Guardrail and small paved pullout

2.4-2.5 NB Turnout and creek access at waterfall 34.07011, -118.58739

Dumping site with access down steep slope to creek

Paved pullout and guardrail

5.4-5.6 NB Humbolt lilies under oaks 34.10103, -118.59701 MANAGED AFTER JUNE 30

Driveway to 800 North Topanga Canyon Blvd.

Rare plant that needs to be protected until it sets seed

7.8-7.9 NB Drainage with oaks 34.12332, -118.59659

Avoid impacts to oak roots

9.9-10.1 NB Walnut/Oak woodlands

Extends from Top of Topanga down to Woodland Crest Drive Avoid impacts to roots and trunks beyond guardrail Potential area for native plant restoration

10.0 NB Drainage with Walnut/Oak woodlands

*Need management strategy for clearing stand pipe that avoids tree damage Potential area for native plant restoration

SOUTHBOUND:

1.0-2.0 SB Road shoulder is top of creek bank just beyond guardrail Heavy ivy infestation in trees

Dirt berm collects weeds – potential native plant restoration area

2.3-2.4 SB Seep 34.06688, -118.58685 MANAGED AFTER JUNE 30

Important year round seep with native wetland vegetation
Extends approx 100' southbound along the road shoulder, ends 34.06815, -118.58700
*Needs cape ivy and other native plant control and removal

2.4-3.8 SB Native slopes

Slope mowing should avoid impacts to roots of native shrubs that stabilize slope

3.8-3.9 SB Seep 34.08535, -118.60007 MANAGED AFTER JUNE 30

Extends approximately 30' south from driveway at 327 TC Blvd. Native wetland plants (cattails, mulefat, etc.)
Breeding site for amphibians

5.4-5.6 SB "Lake Topanga" 34.1009, -118.59825

This reach of creek constrained by heavy willow growth and riprap bank. Floods over the road repeatedly.

8.0-9.9 SB Walnut/Oak woodlands

Extends from parking lot at Edelman Park to the Top of Topanga fireroad Avoid impacts to roots and trunks beyond guardrail Potential area for native plant restoration

10.3- 12.0 SB Woodland Crest Drive to Mulholland Highway Walnut/Oak woodland Potential area for native plant restoration

Table 4. Water Resources in Lower Topanga Canyon.

Sit		Nicothica	Fasting	Elevation	Geo	logy	Water	Lab	O-manuta.			
e No.	Site Name	Northing	Easting	(ft, MSL)	Formation	Structure	Source	Sample	Comments			
	RESOURCES OBSERVED IN THE FIELD											
1	/IM 0.05 TC Blvd	1839733	6386829	175	Kss/Tsu	Fault	Regional	Х	Perennial spring associated with large vegetation (willows and exotic trees). Dibblee mapped springs associated with same fault on west side of drainage divide.			
3		1841251	6385553	200	Tsug		Regional?	X	Perennial fish pool location ("Transient Pool"), which is possibly fed by a perennial spring.			
4		1842921	6385468	190	Kss		Runoff		Surface flow associated with Sites 103 and 104. Flows along drainage under road.			
5		1843251	6385015	225	Qls/Kss?	-	Local?		Possible spring site within landslide toe. White fungus growing from side of slope under slide.			
6		1843330	6384933	250	Qls/Kss		Local?	X	Site is wet perennially. Typically only a seep.			
8		1844883	6384717	250	Kss/Kcg		Runoff	Х	Runoff possibly associated with fault controlled springs upstream (ie. Site 109). Typically dry.			
10		1845590	6384526	275	Kss		Runoff?		Possibly runoff associated with fault controlled springs upstream (ie. Site 14). Typically dry.			
11		1845738	6384446	275	Kss	Fault	Regional?		Ephemeral seep may be associated with mapped fault (Dibblee), similar to Sites 12 and 14.			
12		1845712	6384068	275	Kss	Fault	Regional?		Site contains cape ivy and alder trees. Only area of creek where alders are present (alders like constant root saturation). Knutes and trout present in stream. May be related to the same mapped fault (Dibblee) as Sites 11 & 14. Dibblee mapped this spring. No visible surface flow associated with feature; however feature associated with shallow water vegetation.			
13		1845693	6383940	280	Kss		Runoff		Surface flow at mouth of drainage associated with Site 110.			
14		1845910	6385160	600	Kss	Fault?	Regional?/Runoff?		Spring? may be related to the same mapped fault (Dibblee) as Sites 11 and 12. Viewed as a waterfall within drainage above Site 10.			
15		1847080	6383867	350	Qls/Kss		Local?		Landslide related spring. Does not flow year-round.			
16		1846915	6384157	400	Kss/Tsug	Fault	Regional?		Spring? may be associated with Tuna Canyon Fault. Large vegetation (bay tree) in area. Not observed previously.			
17		1847144	6384053	400	Kss/Tsug	Fault	Regional?	Х	Spring? May be associated with Tuna Canyon Fault. Not observed previously.			
18		1847510	6383974	400	Tsug	Fault?	Regional?		Perennial spring/seep. Possibly fault related.			
19		1847728	6383807	425	Tsug	Fault	Regional	X	Perennial spring shown on USGS and Dibblee maps. Possibly fault related.			
20		1848238	6383888	450?	Tsug		Regional		Possible spring in creek. Flow and temperature change is noticable in creek. Fish are attracted to flow and temp change.			
21		1848622	6383980	500	Tsug		Runoff?		Runoff?/spring? associated with large trees at base of canyon. Feature previously observed.			
22		1848610	6383587	475	Tsug/Tsus		Runoff?		Possibly runoff related to possible upstream springs (Sites 112, 113, and 114)			
23		1848487	6384260	600	Tsug		Runoff?		Runoff?/spring? typically flows during rainy times and forms a waterfall.			
24		1848846	6383781			Shale Beds	Local?		Seeps associated with shale beds.			
25		1848899	6383931			Shale Beds	Local?		Seeps associated with shale beds.			
26		1848831	6383903	500	Tsug/Tsus		Regional		Perennial seep associated with dense vegetation.			
27		1849113	6383975		Tsug		Runoff?	Х	Runoff? typically flows during rainy times and forms two waterfalls up drainage. Within same drainage as Site 31. May be associated with springs up drainage (Site 115).			
28		1849531	6383954	500	Tsus/Tsu		Runoff?		Runoff? typically flows during rainy times and forms a waterfall.			
29		1850143	6384204	500	Tsu/Tsp	Fault?	Regional?		Spring? associated with thick vegetation. Possibly fault related			
30		1849752	6383444	600	Tsu		Runoff?		Runoff?/spring? related to flow along tributary drainage.			
31		1849247	6383884				Runoff		Surface flow at mouth of drainage and within same drainage as Site 27. May be associated with springs up drainage (Site 115).			
32	Π	1850689	6383771	600	Tsp		Runoff/regional?		Runoff?/spring? associated with thick vegetation and forms a waterfall.			
33		1850839	6383536	650	Tsp		Runoff/regional?		Runoff?/spring? associated with thick vegetation and forms a waterfall.			

Sit		Nauthina	Fasting	Elevation	Geo	logy	Water	Lab	Comments
e No.	Site Name	Northing	Easting	(ft, MSL)	Formation	Structure	Source	Sample	Comments
							RESOURCES OF	SERVE	D IN THE FIELD
35		1850395	6382956	600	Tsu/Tsp/db		Runoff	Х	Runoff related to flow along major tributary drainage. Flows under road. Thick vegetation up
00		4050000	0000000	700	T		1 10		drainage. Runoff possibly associated from same drainage as Site 54.
36 37		1850626	6382969	700	Tsp		Local?		Spring not observed previously. Vegetation not as thick.
38		1850792 1851250	6382413 6381984	700 700	db db		Local? Local?		Seeps on road cut over a distance of approximately 200 to 300 feet. Not observed previously. Seeps on road cut adjacent to Feb. 2005 road failure.
39		1851428	6381513	725	Ttlsc		Runoff		Concrete-lined drainage that flows under road ("Time Tunnel"). Thick vegetation up drainage.
									Possible runoff from Site 121.
40		1851590	6381395	725	Ttlsc		Local?		Seeps on road cut. Not observed previously.
48		1848629	6383770	450	_	Shale Beds	Local?		Seeps associated with shale beds.
49		1848847	6383633	450	Tsus		Runoff?		Runoff related to flow along tributary drainage.
50		1849324	6383757			Shale Beds	Local?		Seeps associated with shale beds.
51		1849842	6383843				Local?		Approximately 50-foot wide seep at creek level. Located across from path up to PM 2.75
52		1849909	6383890				Runoff		
53		1850142	6383575				Fault	Х	
54		1850343	6383053				Runoff?		Runoff possibly associated from same drainage as Site 35.
55		1850745	6382633				Local?		Seep below an old road repair on west side of creek below overhanging rock face
56		1851510	6382016				Runoff?	Х	
				<u> </u>				D ON AI	ERIAL PHOTOGRAPHS
101		1839754	6387305		Kss/Tsu	Fault	Regional?		Spring? Air photo dense vegetation. Possibly fault controlled.
102		1840942	6383853		Tsug	Fault?	Regional?		Spring? Air photo dense vegetation. Possibly fault controlled.
103		1843380	6386571		Kss	Fault?	Regional?		Spring? Air photo dense vegetation. Possibly fault controlled.
104		1843648	6386354		Kss	Fault?	Regional?		Spring? Air photo dense vegetation. Possibly fault controlled.
105		1843716	6385259		Kcg		Regional?		Spring? Air photo dense vegetation.
106		1843095	6384231		Kss/Qls		Local?		Spring? Dense vegetation along headscarp of landslide.
107		1843604	6383853		Kss		Regional?		Spring? Air photo dense vegetation.
108		1843884	6383848	-	Kss	 F!/0	Regional?		Spring? Air photo dense vegetation.
109		1845277	6386008	-	Kss	Fault?	Regional?		Spring? Air photo dense vegetation. Possibly fault controlled.
110		1844904	6382929		Kss	 	Regional?		Spring? Air photo dense vegetation. Spring? Air photo dense vegetation. Possibly fault controlled.
111 112		1846457 1847642	6384288	-	Kss	Fault?	Regional?		Spring? Air photo dense vegetation. Possibly fault controlled. Spring? Air photo dense vegetation. Possibly fault controlled.
		1847570	6382686	-	Tsug	Fault?	Regional?		
113 114		1847570	6382200 6381296	-	Tsug Tsu/Qls	Fault?	Regional? Regional?	-	Spring? Air photo dense vegetation. Possibly fault controlled. Spring? Air photo dense vegetation. Possibly fault or landslide controlled.
115		1848382	6386272		Tsp/db	Fault?	Regional?		Spring? Air photo dense vegetation. Possibly fault or landslide controlled. Spring? Air photo dense vegetation. Possibly fault controlled.
116		1849367	6386179	 	db	rauit?	Regional?	1	Spring? Air photo dense vegetation. Possibly fault controlled. Spring? Air photo dense vegetation.
117		1849367	6382128	 	db/Qls		Local?/Regional?	1	Spring? Air photo dense vegetation. Spring? Air photo dense vegetation. Possibly landslide controlled.
117		1850095	6382128	 	db/Qls db/Qls		Local?/Regional?	1	Spring? Air photo dense vegetation. Possibly landslide controlled. Spring? Air photo dense vegetation. Possibly landslide controlled.
119		1850095	6384990	 	Tsp/db	Fault?	Regional?	 	Spring? Air photo dense vegetation. Possibly fault controlled. Spring? Air photo dense vegetation. Possibly fault controlled.
120		1850367	6384959	 	Tsp/db	Fault?	Regional?	 	Spring? Air photo dense vegetation. Possibly fault controlled. Spring? Air photo dense vegetation. Possibly fault controlled.
121		1850976	6381348	 	Ttlsc/Qls	rauit?	Local?/Regional?	 	Spring? Air photo dense vegetation. Possibly landslide controlled.
121		1000970	0301340		11130/0(18		STREAM (SACING	
201		1846213	6383829	1			SINEAM	I	USGS stream gaging station.
201		1040213	0303029			DE	ODOSED INSTRE		IPLING LOCATIONS
301		1836913	6385022			PR	I INSTRE	AIVI SAIVI	IF LING LOCATIONS
302		1847428	6383981						
302		1847428	6383505					-	
303		1852229	6381555	-				 	
JU4		10022229	0301333	L					

Appendix G. Existing Vegetation in the Caltrans Right of Way (April 2013)

Roadside baseline conditions at the start of the project are listed in the tables below in order to help evaluate the success of the implementation plan. Plants in the right-of-way are expected to shift during the life of the plan. Detailed criteria for listing the plants can be found at http://www.cal-ipc.org/ip/inventory/pdf/Criteria.pdf. It should be noted that many of these plants, regardless of their invasive level noted in the tables below, have beneficial uses.

Table 5. TCB Roadside Non-native Vegetation Species, 2012-2013.

Scientific Name	Common Name	Invasive Level *	Height	Flammability**
TREES AND SHRUBS				
Acacia melanoxylon	Blackwood acacia	Minor	25'-60'	High
Ailanthus altissima	Chinese tree of heaven	Moderate	23' - 89'	High
Cupressus macrocarpa	Monterey cypress	Unknown	50'-150'	High
Cupressus sempervirens	Italiana cypress	Unknown	30'-125'	High
Eucalyptus spp: camaldulensis, globulus	eucalyptus	Minor	33'- 200'	High
Fraxinus uhdei	Shamel ash	Unknown	30'-100'	High
Juniperus chinensis	Chinese juniper	Unknown	3'-65'	High
Phoenix canariensis	Canary Island date palms	Minor	33' - 130'	High
Pinus spp.	Pines - all species	Unknown	45'-150'	High
Schinus molle	Peruvian peppertree	Minor	50'	High
Schinus terebinthifolius	Brazilian peppertree	Minor	23'	High
Tamarisk aphylla	Tamarisk	Minor	60'	High
Ulmus parvifolia	Chinese elm	Unknown	30' - 60'	Low
Washingtonia robusta	Mexican fan palms	Moderate	82' - 98'	High
<u>GRASSES</u>				
Arundo donax	giant reed (Arundo)	Severe	20 ' - 33'	High
Bromus tectorum	cheatgrass	Severe	2"-6"	High
Cortaderia selloana	pampus grass	Severe	5'-10'	High
Pennisetum clandestinum	kikuyu grass	Minor	3"-1'	High
Pennisetum setaceum	crimson fountaingrass	Moderate	2'-3'	High
Phalaris aquatica	Harding grass	Moderate	2'-3'	High
Stipa miliacea	smilo grass	Minor	6"-1'	High
PERENNIALS AND ANNUALS				
Asphodelus fistulosus	onion weed	Moderate	6"-1'	Low
Brassica nigra	black mustard	Severe	2' - 8'	High
Carduus pycnocephalus	Italian thistle	Moderate	8" - 7'	High
Carpobrotus edulis	ice plant	Severe	4"	High
Centaurea melitensis	tocalote	Moderate	1'-2'	High
Centaurea solstitialis	yellow starthistle	Severe	1'-2'	High
Circium vulgare	bull thistle	Moderate	2'-5'	High

Conium maculatum	poison hemlock	Moderate	5'-8'	Medium
Cyperus involucratus	Umbrella plant	Unknown	1' 6" - 2'	High
Cytisus scoparius var. scoparius	Scotch broom	Severe	3'-7'	High
Delairea odorata	cape ivy (German ivy)	Severe	6"-1'	High
Euphorbia terracina	carnation spurge	Moderate	2'-3'	Low
Foeniculum vulgare	fennel	Severe	2'-8'	Medium
Hedera helix	English, Algerian Ivy	Severe	6"-2'	High
Hirschfeldia incana	short-pod mustard	Moderate	2'-6'	High
Jasminum multiflorum	Italian jasmine	Unknown	5'-8'	High
Nicotiana glauca	tree tobacco	Moderate	6'-23'	High
Persicaria maculosa	Redshank	Unknown	3'3"	High
Plumbago auriculata	cape plumbago	Unknown	6'	High
Ricinus communis	castorbean	Minor	3'-13'	High
Rosmarinus officinalis	rosemary	Unknown	2'-5'	High
Salvia aethiopis	Mediterranean sage	Minor	3'	High
Silybum marianum	milk thistle	Minor	1' - 6'	High
Spartium junceum	Spanish broom	Severe	6' - 16'	High
Tecoma capensis	cape honeysuckle	Unknown	6' - 10'	High
Tropaeolum sp.	Nasturtium	Unknown	6"- 2'	Low
Vinca major	periwinkle	Moderate	7" - 1' 6"	Low

^{*}Cal-ipc invasive level rating is based on three categories: Ecological impact, Invasive potential, and Ecological amplitude and distribution.

Table 6. TCB Roadside Dominant Native Vegetation Species, 2012-2013.

Scientific Name	Common Name	Height	Flammability***
TREES AND SHRUBS			
Alnus rhombifolia	White Alder	15'-40'	Low
Heteromeles arbutifolia	Toyon	10'-25'	Low
Juglans californica	walnuts	15'-30'	Low
Juniperus californica	juniper	9' – 26'	High
Malosma laurina	Laurel sumac	5'-15'	High
Platanus racemosa	CA sycamore	20'-80'	Low
Quercus agrifolia	Coast live oak	25'-60'	Low
Rhus integrifolia	Lemonade berry	6'-15'	High
PERENNIALS			
Adenostoma fasciculatum	chamise	13' 1"	High
Artemisia californica	California sagebrush	5'-8'	High
Eriogonum cinereum	Ashyleaf buckwheat	1'-4'	High
Eriogonum fasciculatum	California buckwheat	6' 7"	High
Rubis ursinus	Blackberry	1'-3'	Medium
Salvia apiana	White sage	4' - 5'	High
Salvia leucophylla	Purple sage	3'-4'	High
Salvia mellifera	Black sage	3'-6'	High

^{***}All plants burn based on: sufficient exposure to heat, high moisture stress, and/or insufficient pruning. The flammability risk attached to any one plant can be greatly diminished with maintenance activities such as mowing and pruning.

^{**} All plants burn based on: sufficient exposure to heat, high moisture stress, and/or insufficient pruning. The flammability risk attached to any one plant can be greatly diminished with maintenance activities such as mowing and pruning.

References:

http://www.cal-ipc.org/ip/inventory/weedlist.php

http://www.calflora.org/

http://fire.countyofventura.org/Prevention/WildfirePreparedness/FlammablePlantGuide/tabid/170/Default.aspx

http://www.state.sc.us/forest/scplants.pdf

http://www.ci.redding.ca.us/fire/ReddingFireDepartment-FireSafeLandscaping.htm

http://fire.lacounty.gov/forestry/PDF/UndesirablePlantList

http://www.kensingtoncalifornia.org/

http://www.nps.gov/samo/planyourvisit/upload/RecPub_InvasiveWeedGuide.pdf

http://www.oaklandnet.com/wildfireprevention/docs/PlantListForCreeks.pdf

http://www.rsf-fire.org/assets/documents/ordinances/resources/desirable%20tree%20list.pdf

http://tahoeinvasiveweeds.org/resources/pdf/brochure_flammableWeeds.pdf

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SUPPLEMENTAL DOCUMENT:

TOPANGA CREEK WATERSHED MANAGEMENT PLAN:

TOPANGA CANYON BOULEVARD
VEGETATION MANAGEMENT IMPLEMENTATION PLAN
2013-2017

MAPS

JULY 2013



The following maps show the location of existing vegetation 10 feet from edge of roadway along State Route 27 (Topanga Canyon Boulevard) from post mile 0.0 to 10.8 (Pacific Coast Highway to the Top O' Topanga mobile home park). The maps include features such as: native and invasive plant species, guardrails, bridges, paved areas, environmentally sensitive areas, high pedestrian traffic areas, wildlife corridors, culverts, roadside slope and gradients, and natural seeps or springs. Post miles and GPS coordinates are used to reference data along with property parcel numbers.

These maps are living documents and may be updated as conditions and needs change along TCB or as more information is obtained. Attached maps are dated February 26, 2013. **Current updates in google earth can be found at http://www.dot.ca.gov/dist07/travel/projects/details.php?id=35 and www.rcdsmm.org.**

The maps were developed and created jointly by members of the California Department of Transportation District 7 (Caltrans), the Los Angeles County Supervisors Office District 3, the Resource Conservation District of the Santa Monica Mountains (RCDSMM), the North Topanga Canyon Fire Safe Council (NTFSC), the Topanga Coalition for Emergency Preparedness, the Santa Monica Mountains National Recreation Area (SMMNRA), and the Topanga Association for a Scenic Community. GIS data layers were sourced and/or created from Caltrans, SMMNRA, NTFSC, RCDSMM, and on-the-ground reconnaissance. Maps were created by Caltrans environmental planners.