



Agenda

- Introduce Project Team
- Ground Rules
- Presentation
- Questions and concerns from community
- Summary of follow-up actions for project team









Agenda

Introduce Project Team

- Jeff Szytel, CAW project manager, <u>jszytel@wsc-inc.com</u>, 805-457-8833 ext. 101
- Trish Chapman, State Coastal Conservancy, <u>tchapman@scc.ca.gov</u>, 510-286-0749
- Joyce Ambrosius, National Marine Fisheries Service, joyce.ambrosius@noaa.gov, 707-575-6064
- www.sanclementedamremoval.org
- Ground Rules
- Presentation
- Questions and concerns from community
- Summary of follow-up actions for project team











Ground Rules

- Honor the agenda
- Provide written questions and comments
- Everyone is encouraged to participate
- Respectful interaction
- One person speaks at a time
- Avoid side conversations











Presentation Outline

- 1. Key Points
- 2. Project Overview
- 3. Access Route Requirements
 - a. Construction Equipment Requirements
 - b. Equipment Mobilization
- 4. Alternative Routes
- 5. Road Improvement Summary
 - a. Cachagua Road
 - b. Jeep Trail
- 6. Estimated Construction Traffic
 - a. Northern Cachagua Road
 - b. Tassajara to Southern Cachagua Road
- 7. Mitigation Measures











Key Points



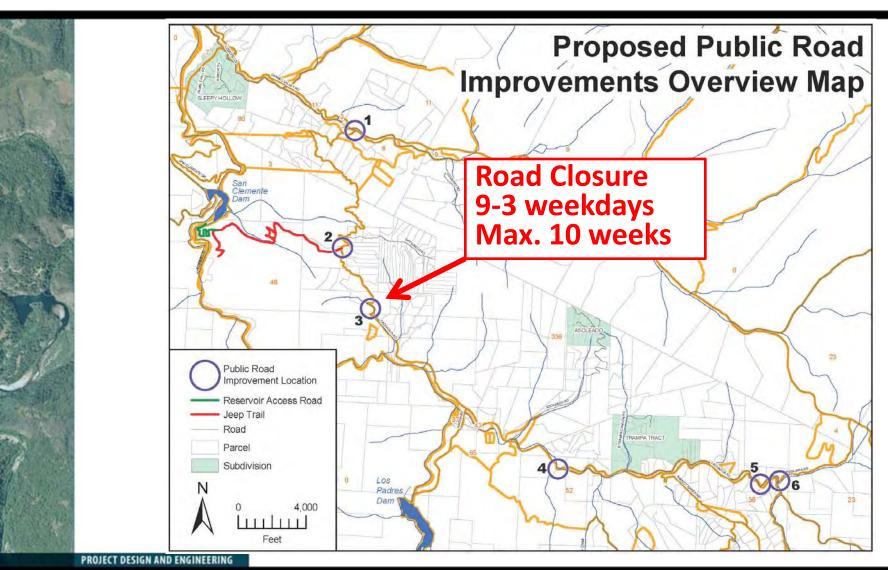








Road Closure

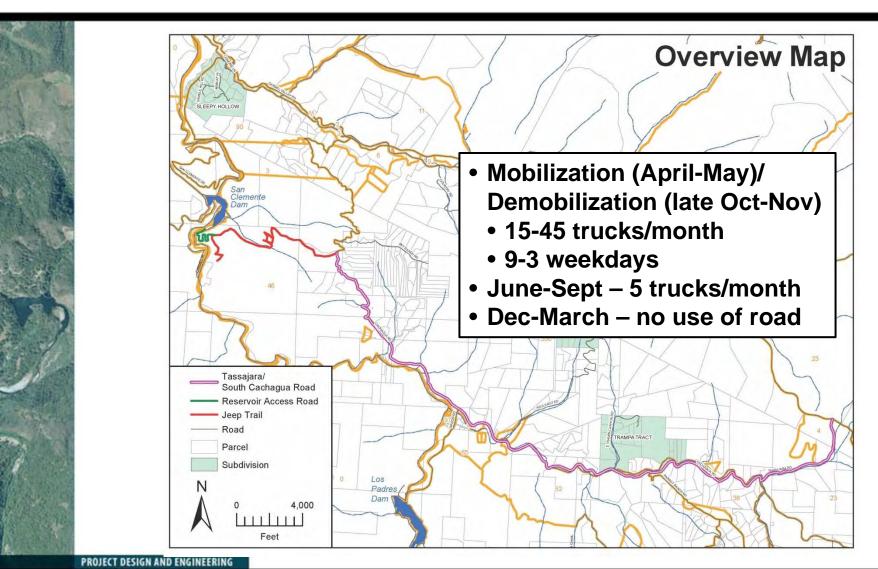








Tassajara-Southern Cachagua Route

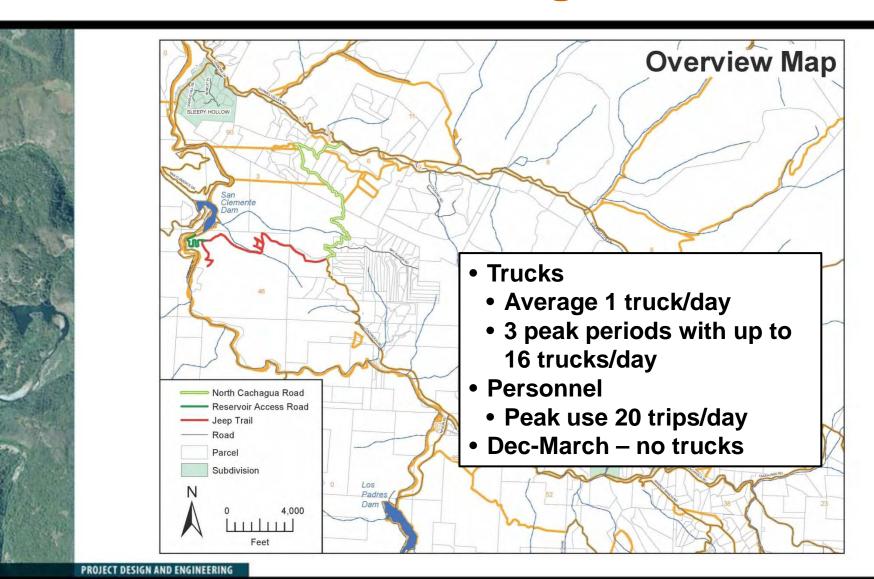








Northern Cachagua Route









Project Overview



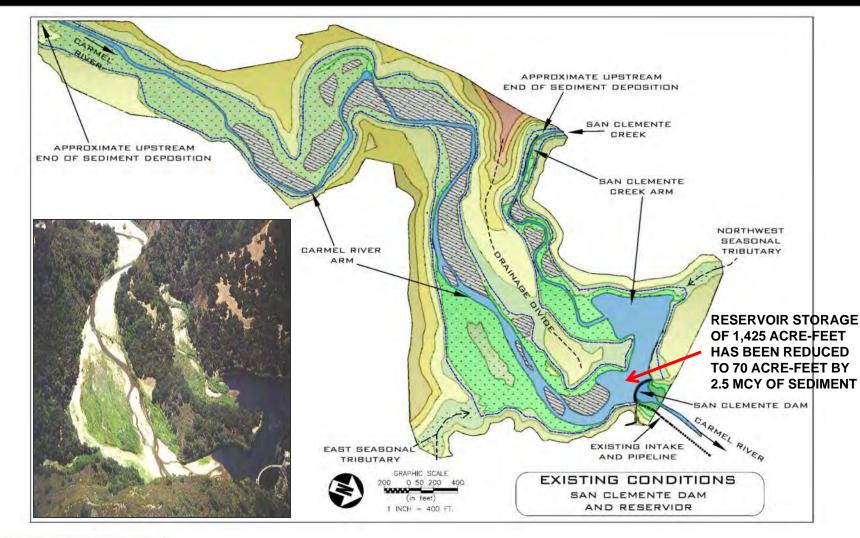








Project Overview Existing Conditions



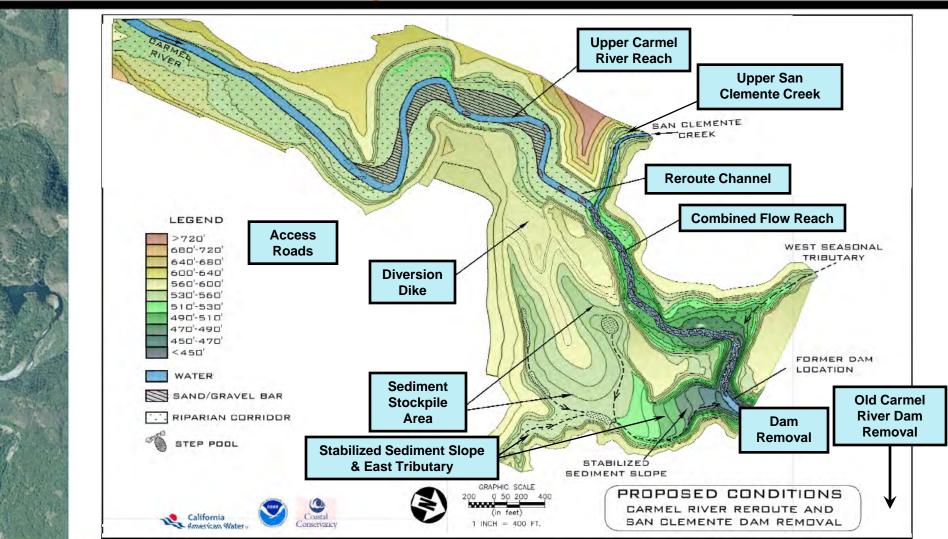








Project Overview Proposed Features

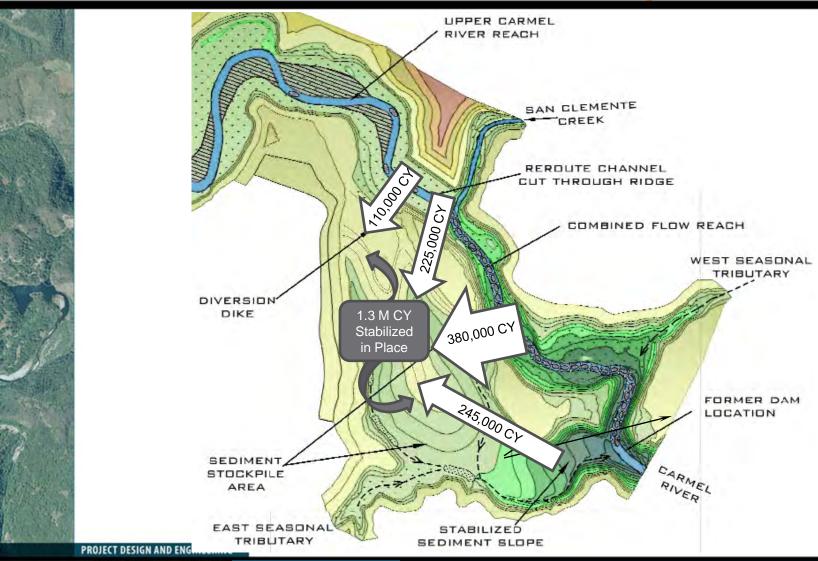








Project Overview Earthwork Summary









Project Schedule

	2011			2012			2013			2014			2015							
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Preliminary Design																				
Permitting																				
Design-Build Contractor Procurement																				
Access Road Improvements								C)R											
Construction																				







Access Route Requirements











Access Route Requirements

Earthmoving Equipment

Large Hydraulic Excavators



390D (530 hp): 14' width



336E (300 hp): 11.25' width

Articulated Haulers



740: 11.6' width



730: 9.7' width

Bulldozers



D8T (310 hp) 10' track width 14' blade width



D6T (205 hp) 8.5' track width 12' blade width

Motor Graders



16M: 10.2' width









Construction Equipment

Additional Construction Equipment



16.25' width

Tractor-Trailer with Lowboy for Equipment Mobilization



Screening Plant for Rock Separation

Rollers for Compaction



CS76 7' width













Alternative Routes













Assessment of Access Routes

- Key considerations
 - Feasibility/Reliability
 - Environmental Impacts (including traffic)
 - Cost



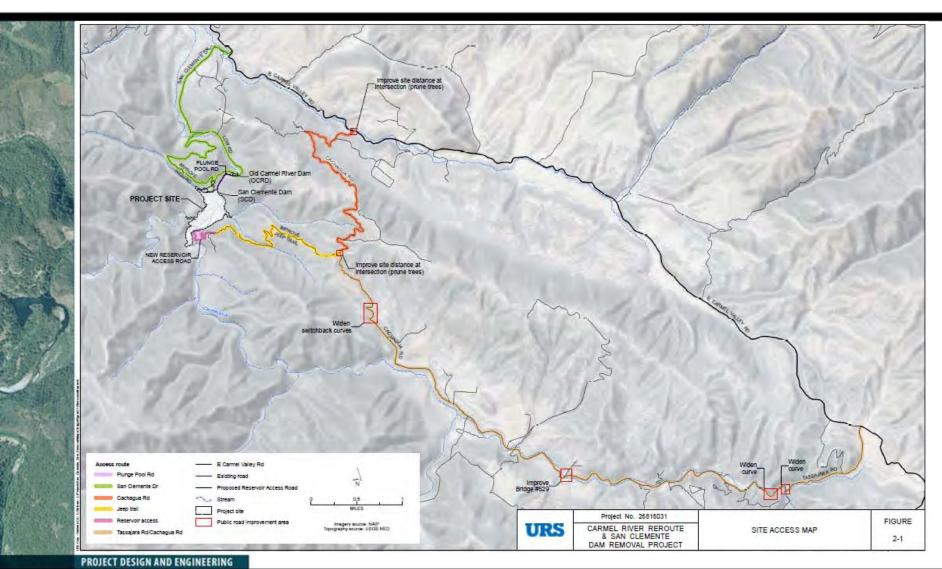








Potential Access Routes

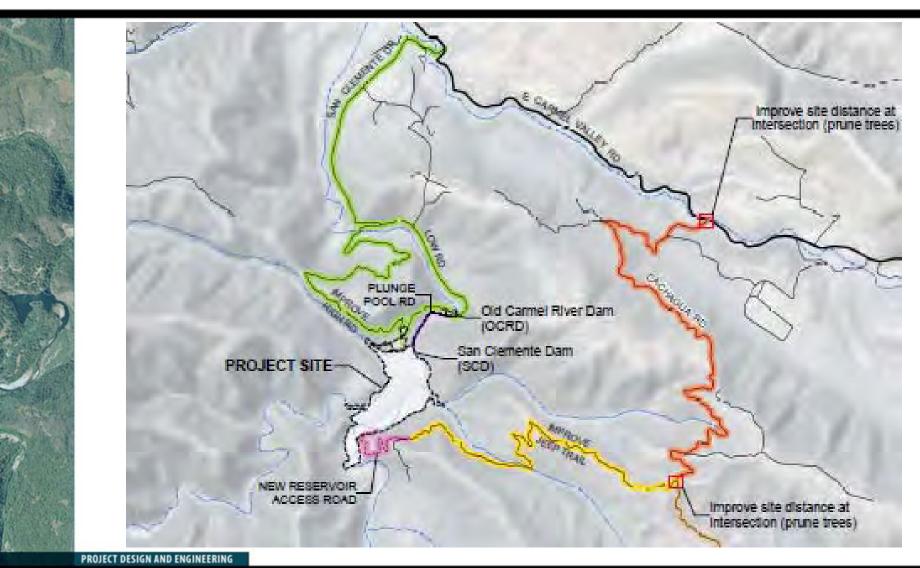








Potential Access Routes

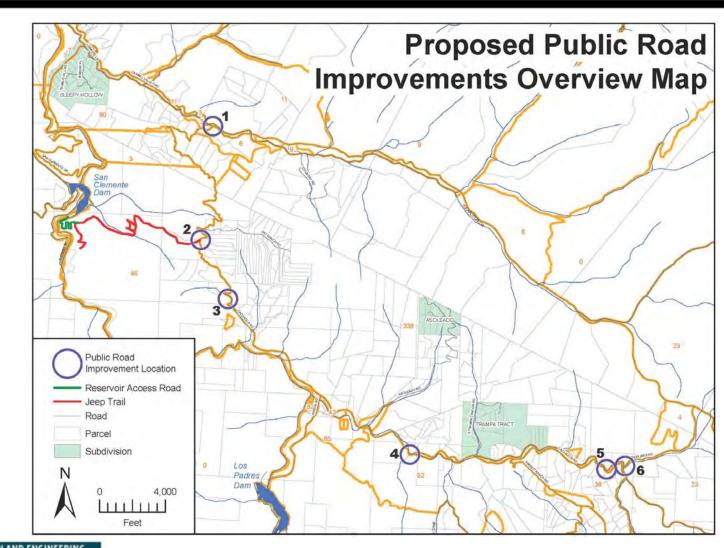








Northern Cachagua Route











Access to the Reservoir Feasibility Criteria

- Access required for:
 - Construction
 - Monitoring following construction
 - Maintenance following construction
- Requirements
 - Adequate for construction
 - 18-foot-wide (12 foot-wide with 3 foot shoulders), with turnouts, for safe operation of construction vehicles
 - Curves with sufficient radius of curvature for trucks delivering materials
 - Reliable
 - Constructible











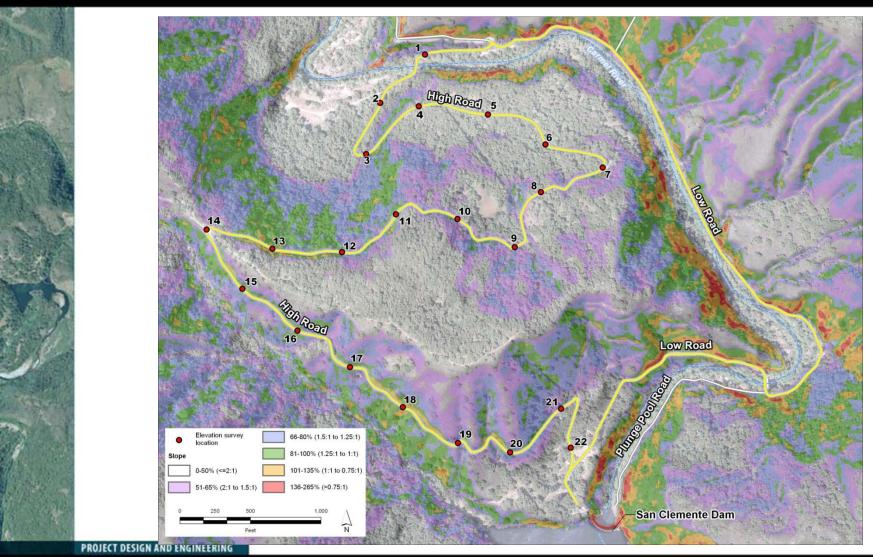
Three Bridges Required



- Tularcitos Creek
- Carmel River
 - High Road at Sleepy
 Hollow Ford or
 - Low Road at Old
 Carmel River Dam
- San Clemente Creek
 - To reach reservoir area



Slope Map



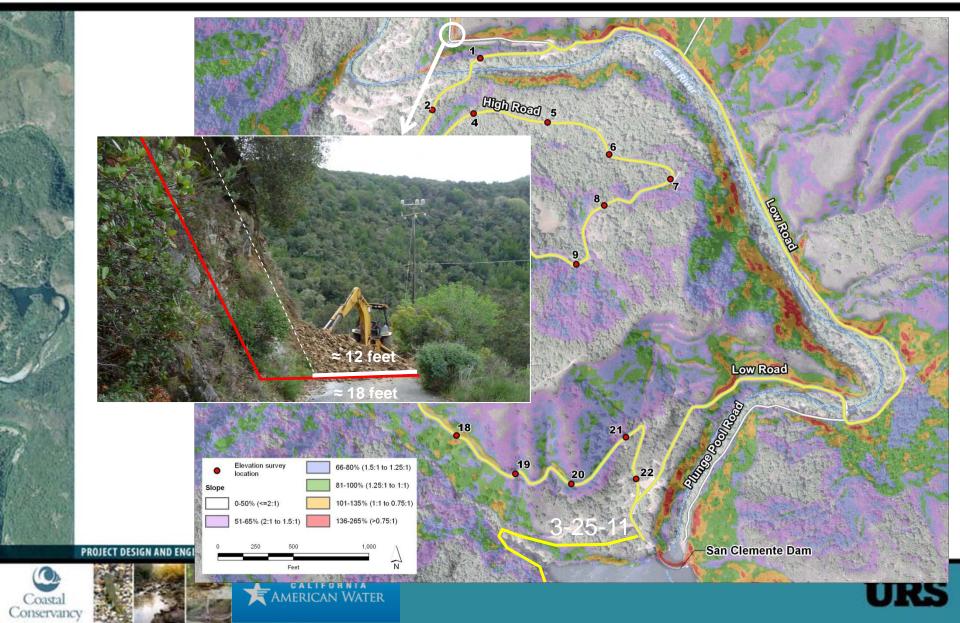




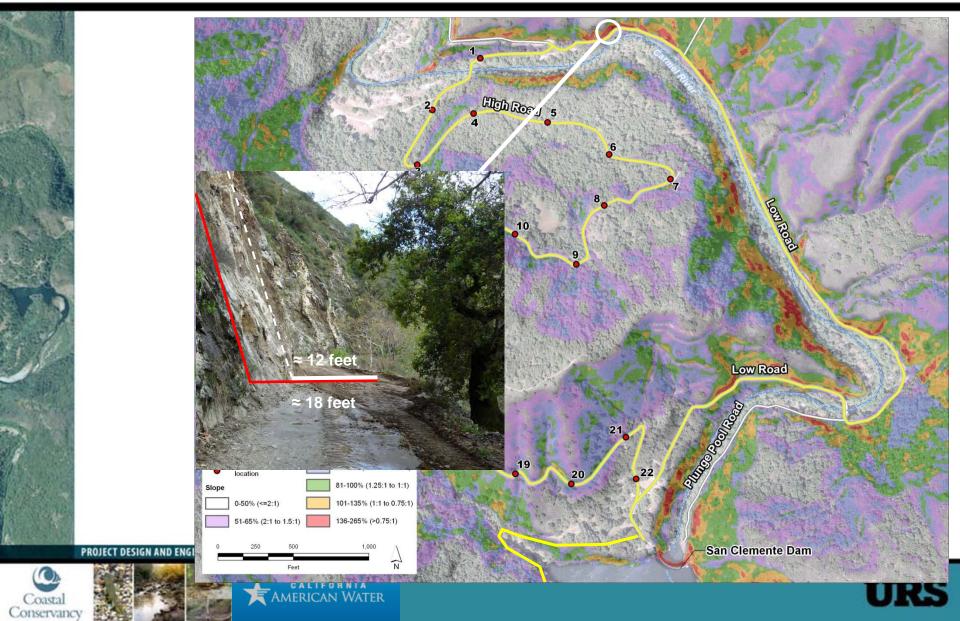




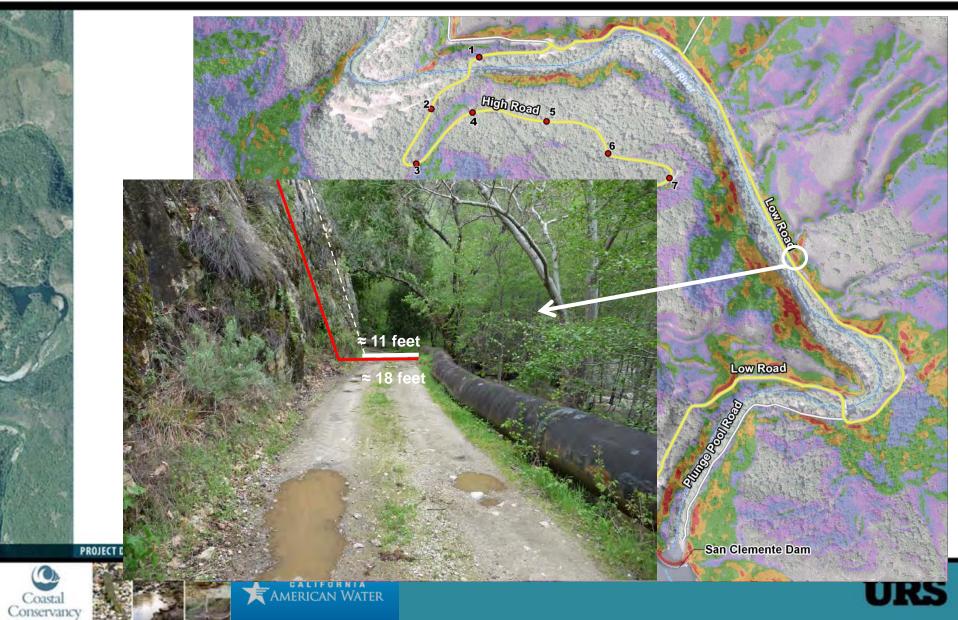
San Clemente Drive Rock Slopes



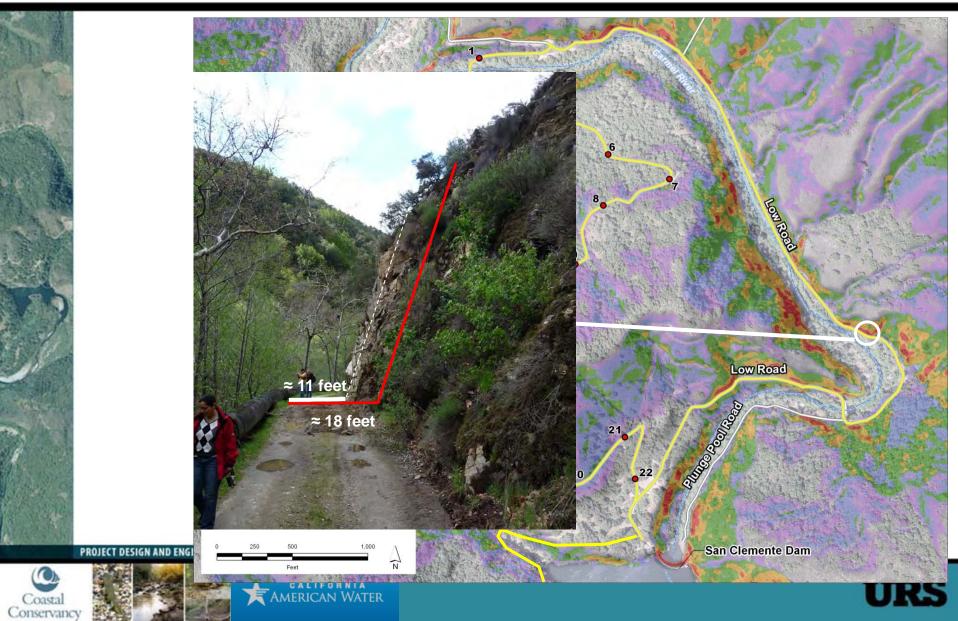
Low Road Rock Slopes



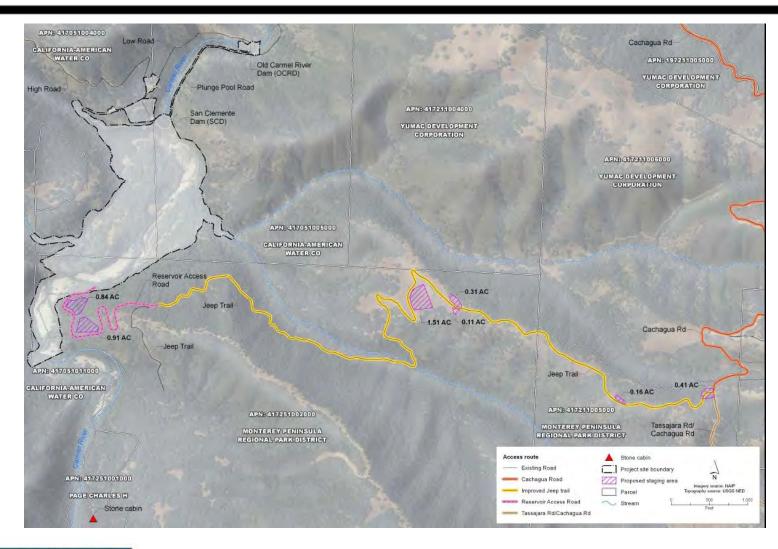
Low Road Rock Slopes



Low Road Rock Slopes



Jeep Trail Route











SC Drive Access Challenges

Jeep Trail – Typical x-section (for comparison)











Access Route Assessment

Reliability Comparison

	Jeep Trail	Low Road	High Road
Flooding	Low to no susceptibility	 Highest susceptibility Increased delays during construction Increased maintenance during/after construction 	 Medium susceptibility Increased delays during construction Increased maintenance during/after construction
Blockage by landslides	Low susceptibility	 Highest susceptibility Greatest safety risk Increased delays during construction Increased maintenance during/after construction 	 Medium susceptibility Safety risk Increased delays during construction Increased maintenance during/after construction
Reliability	- Reliable	- Unreliable	- Less reliable









Environmental Impacts

	Jeep Trail	High Road
Traffic and Circulation	Medium	Low
Improve existing roads	11,500 linear feet	14,300 linear feet
Construct new road	3,000 linear feet	3,000 linear feet
Area of disturbance	2.8 acres	7.3 acres
Existing bridge improvements	One	One
Construct new bridges	None	Two
Tree Removal	486 trees	729 trees









Estimated Cost

Jeep Trail Route (with Cachagua improvements)

High Road Route (with San Clemente Drive improvements

\$2.9 million

\$5-6 million









Access Route Comparison

	Jeep Trail	High Road
Constructability/Reliability	✓	
Less vulnerable to flooding/landslides (more reliable access)	✓	
Environmental – Traffic and Circulation		✓
Environmental – Habitat	✓	
Cost	✓	







Access Routes Summary

- Project site is difficult to reach
- Every access route has impacts Project must minimize the impacts
- Use different routes for different purposes
 - Tassajara-southern Cachagua large trailer vehicles mobilizing equipment and large materials
 - Northern Cachagua Personnel and most materials (10 wheel trucks)
 - San Clemente Drive Construction management and smaller trucks (sized to use existing road) for work occurring in front of the dam









Road Improvement Summary



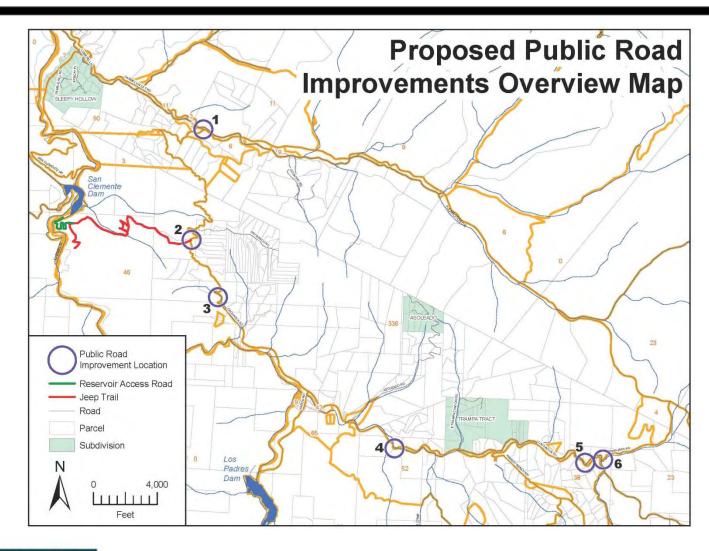








Public Road Improvements

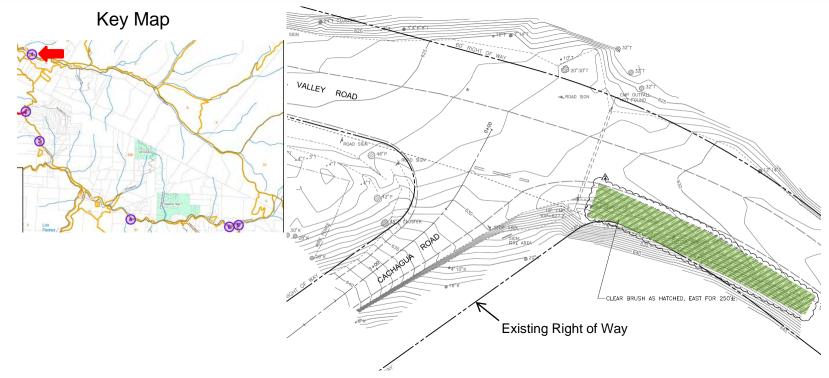








Public Road Improvements 1. Carmel Valley Road & Cachagua Road



Improvement Summary:

 Improve sight distance at intersection by clearing vegetation (green highlight) south of Carmel Valley Road and east of Cachagua Road

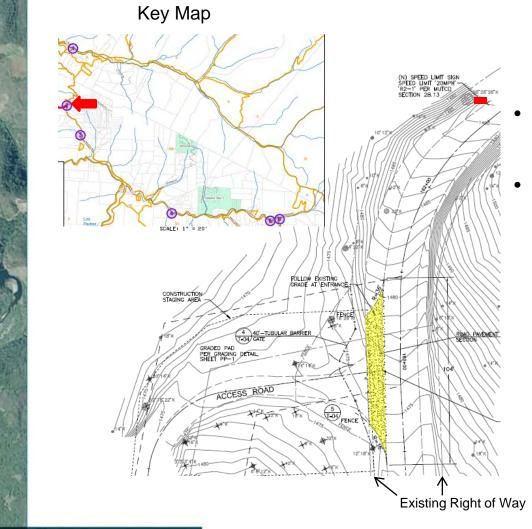








Public Road Improvements 2. Cachagua Road & Jeep Trail



Improvement Summary:

- Harden western shoulder of Cachagua Road at entrance to Jeep Trail (yellow highlight)
- Erect reduced speed limit sign (red highlight) for southbound traffic on Cachagua Road to mitigate limited sight distance due to hillslope east of Cachagua Road







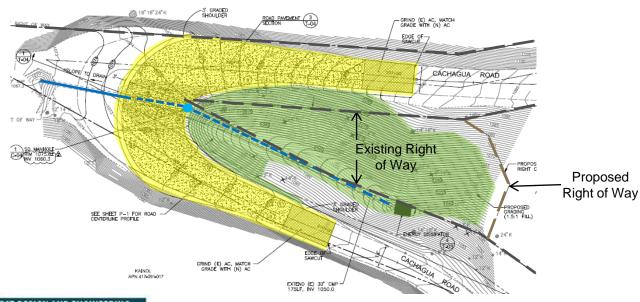


Public Road Improvements 3. Cachagua Road Switchback No. 1

Key Map

Improvement Summary:

- Extend existing culvert (solid blue line) with proposed culvert (dashed blue line), construct new manhole (blue dot) and discharge into rock energy dissipator.
- Place, grade and compact rockfill (green highlight) inside of existing switchback
- Replace existing asphalt concrete pavement with new pavement (yellow highlight) in proposed alignment



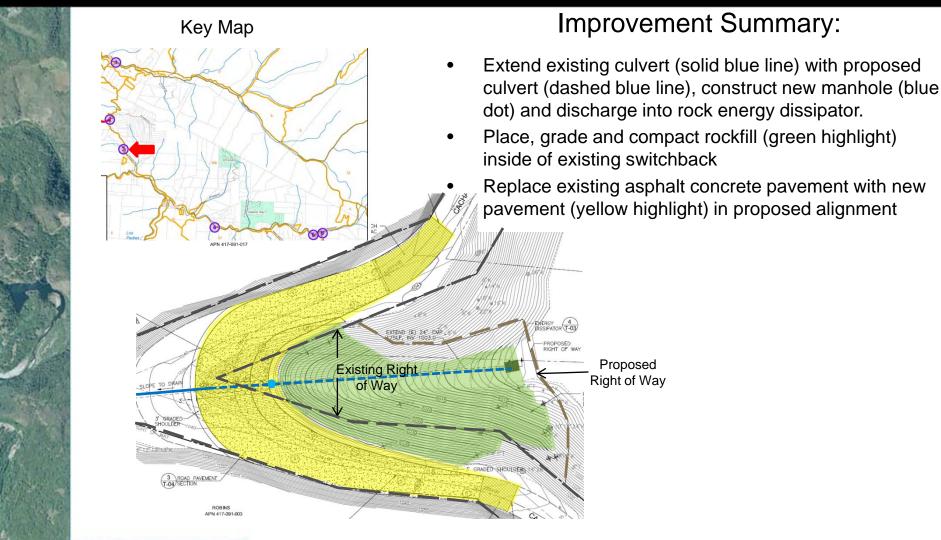








Public Road Improvements 3. Cachagua Road Switchback No. 2

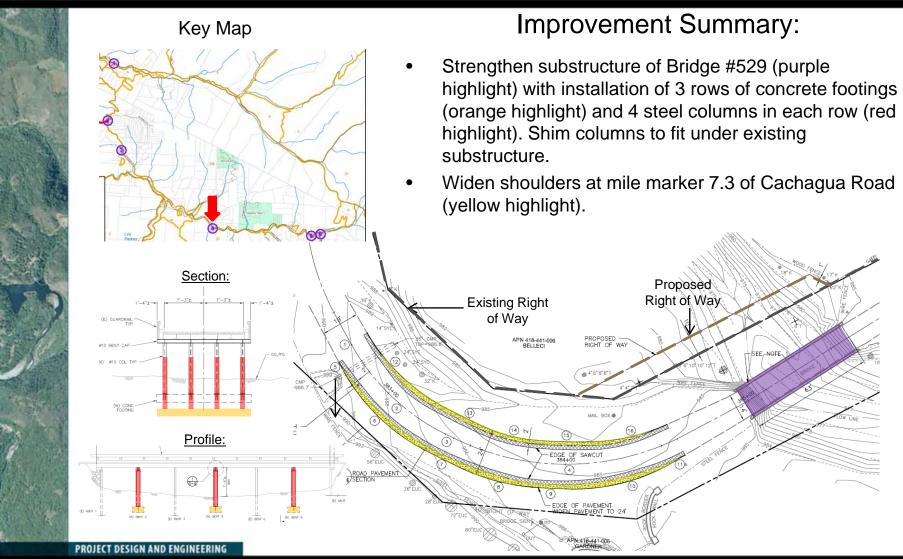








Public Road Improvements 4. Cachagua Road at Bridge #529

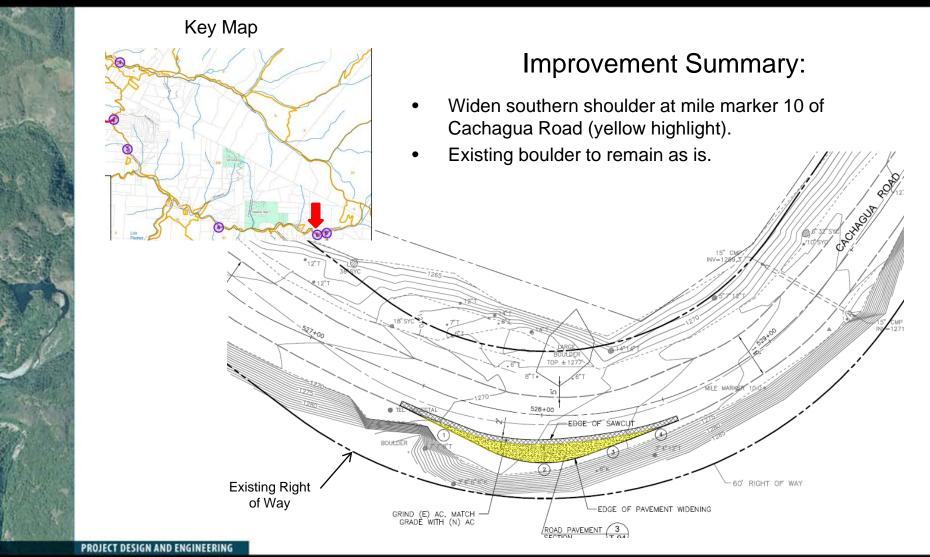








Public Road Improvements 5. Cachagua Road at Mile Marker 10

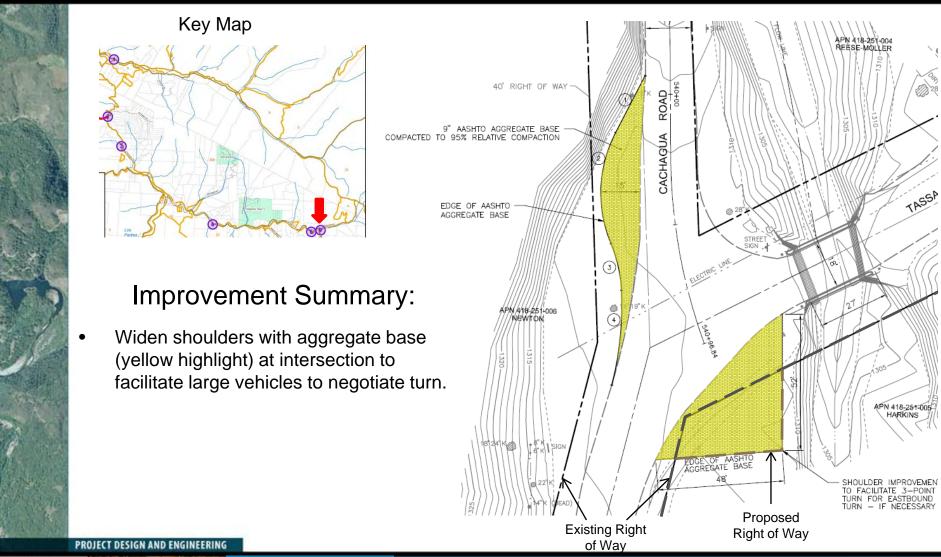








Public Road Improvements 6. Cachagua Road & Tassajara Road









Estimated Construction Traffic











Tassajara - Southern Cachagua Traffic Estimate

- Heavy Equipment Mobilization
 - Extended flatbed to bring in large equipment, crane or long material (diversion pipe); Mobile material processing plant.
- Trip Estimates:
 - Peak Period
 - Mobilization (April/May) and Demobilization (late October/November)
 - Average 1 truck per day. Estimated peak trips per day = ## trucks

Year	April/May	Late Oct-Nov
2013	25 trucks/mo	20 trucks/mo
2014	40 trucks/mo	45 trucks/mo
2015	30 trucks/mo	15 trucks/mo

Wine harvest season.
Coordination with

wineries required

Non-peak – average 0-5 trucks per month











Key Roadway Mitigation Measures

- Truck deliveries restricted to 9 am 3 pm on weekdays
- No truck deliveries on weekend or holidays
- Pilot cars
- Required to use turnouts
- Ongoing coordination with emergency service providers
- Coordinated to not conflict with school bus schedules
- Coordination with wineries, particularly in fall harvest season

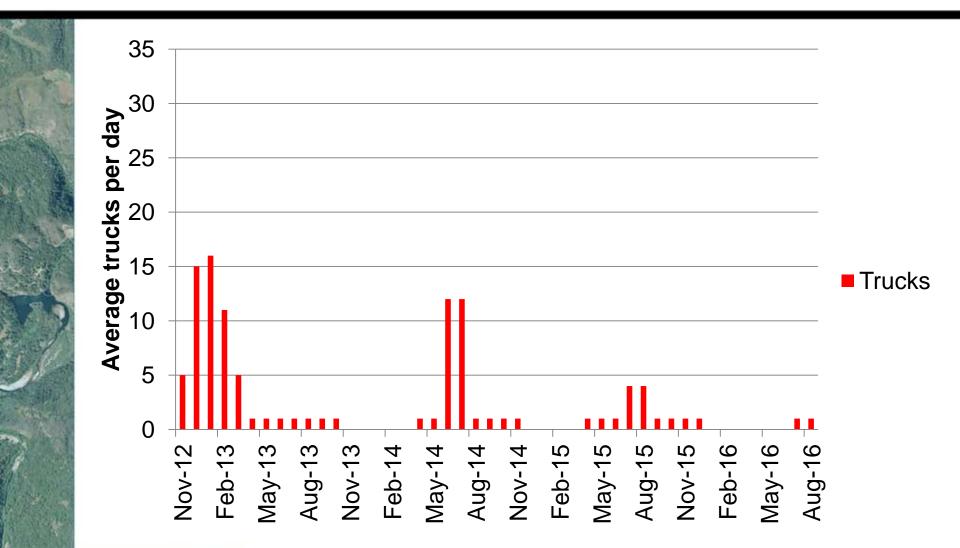








Northern Cachagua Traffic Estimate

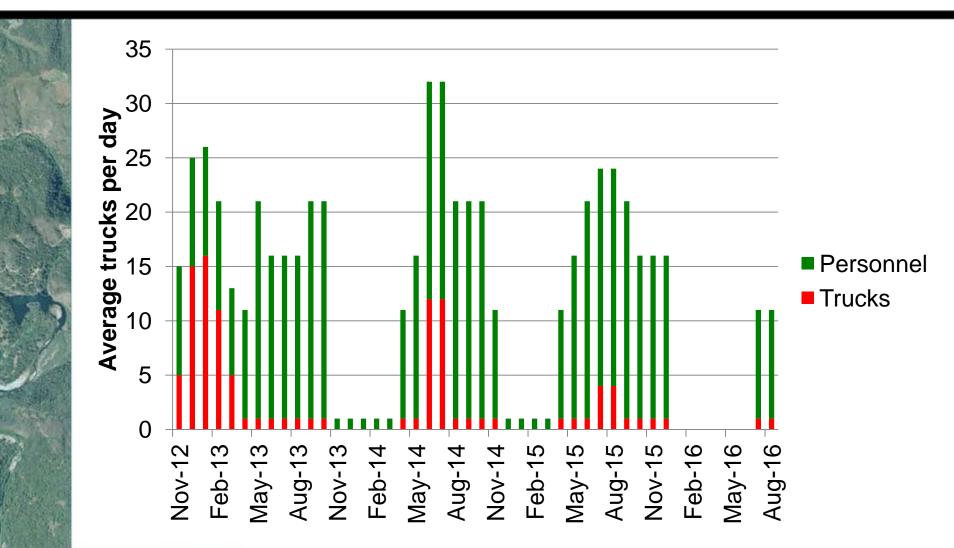








Northern Cachagua Traffic Estimate

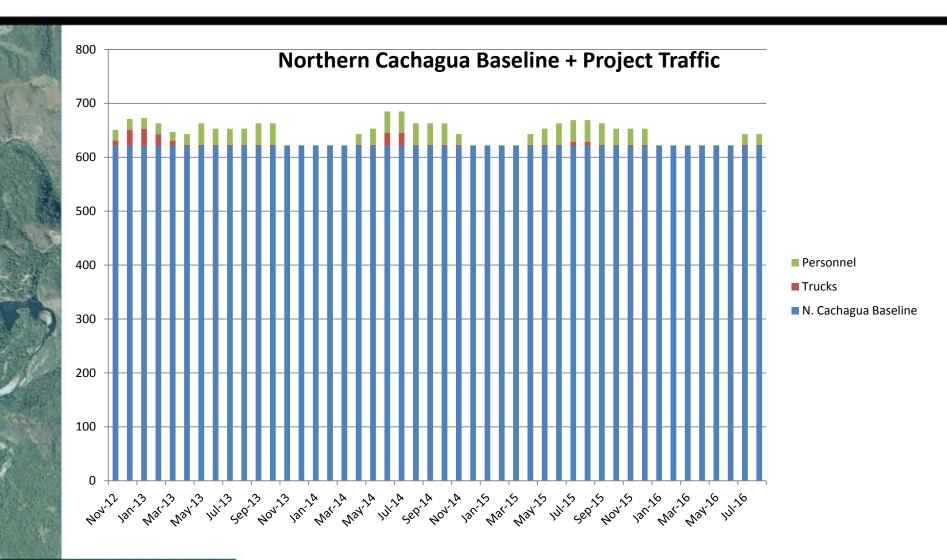








Traffic Impact

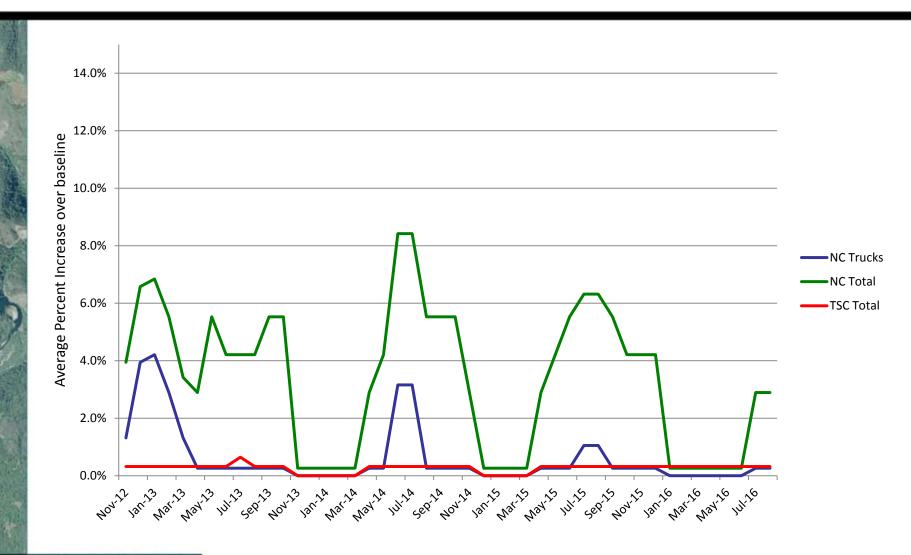








Traffic Impact









Mitigation Measures











Key Roadway Mitigation Measures

- Truck deliveries restricted to 9 am 3 pm on weekdays
- No truck deliveries on weekend or holidays
- Pilot cars
- Required to use turnouts
- Ongoing coordination with emergency service providers
- Coordinated to not conflict with school bus schedules
- Coordination with wineries, particularly in fall harvest season









Additional Mitigation Measures

- Communication
 - Traffic coordinator
 - Electronic signs
 - Website with information on specific estimated trucking schedules
 - Monthly meetings with the community ongoing identification of mitigation measures
- Road maintenance and post-construction road repair.
- No other closures or significant changes to road improvements without notification to the community and opportunity for input







Work In Progress

- Turnout study
- Plan for road maintenance and post-project road construction
- Additional coordination with emergency service providers
- Update route comparison with tree removal and disturbance area for jeep trail route
- Update route comparison with information on extra fuel/time costs for Jeep Trail route
- Use fire map as the base map







Questions?

- Website: <u>www.sanclementedamremoval.org</u>
- Contact
 - Jeff Szytel
 CAW project manager
 jszytel@wsc-inc.com
 805-457-8833 ext. 101
 - Trish Chapman
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