

EXHIBIT A
Selby Creek Restoration and Revegetation Project
STATEMENT OF WORK

Under direction of the Department of Fish and Game, and under the following conditions and terms, the Grantee will:

1. Improve spawning and rearing habitat by increasing habitat diversity, reducing fine sediment and improving riparian canopy for steelhead trout in a selected section of Dutch Henry Creek, known as Selby Creek, tributary to Napa River in Napa County. The objective is to increase the cover, increase the residual depth of the pools, improve bank stability, and reestablish the riparian corridor along 1.58 miles of Selby Creek.
2. Conduct work on Selby Creek from the Silerado Trail crossing downstream to the confluence of the Napa River. The project is located in Township 8N, Range 6W, Sections 3 and 10 of the Calistoga 7.5 Minute U.S.G.S. Quadrangle, as depicted in Exhibit C, Project Location Map, which is attached and made part of this agreement by this reference.
3. Install bioengineered and instream structures to stabilize banks, reduce erosion, expand floodplain and enhance habitat at 107 sites, along 8,333 feet of channel and over 16,600 feet of stream bank, as described in Exhibits D, Treatment Site Details, which is attached and made a part of this agreement by this reference.

Through the installment of various structures (such as live willow siltation baffles; opposing, alternating, and individual boulder wing deflectors; and cross-channel v-weirs), the Selby Creek project will narrow and define a low flow channel in this stretch, thus enhancing the continuity of surface flows and the structural bed characteristics required for fish passage. The enhancement of riparian canopy through native plantings and the installment of bioengineering structures (such as live willow siltation baffles, live willow brush mattress, live woven willow revetment walls, and boulder wing deflectors with live vegetation layers) will both increase shade cover and lower temperatures in Selby Creek, potentially restoring functional habitats to allow natural species to thrive.

The installment of various habitat structures (such as digger logs, boulder wing deflectors with root balls or logs, and cross-channel vortex weirs) will increase pool habitat/resting areas and the presence of in-channel large woody debris. Stream bank stabilization structures (such as boulder bank protection with live sprigging, live woven willow walls, live willow brush mattresses, boulder wing deflectors, and live willow cluster plantings) and structures that catch and store instream sediments (such as live willow siltation baffles, deep cluster planting, boulder wing deflectors, and cross-channel vortex weirs) will limit the amount of sediments entering the stream building and stabilizing terraces, thus increasing pool and gravel quality.

4. Work in flowing streams is restricted to June 15 through October 31. Actual project start and end dates, within this timeframe, are at the discretion of the Department of Fish and Game.
5. The Grantee will plant a minimum of 17,780 native plants over an area of 24 acres at 217 sites. The native seeds and seedlings shall include but are not limit to: trees, shrubs, and sub-shrubs/perennials. All necessary efforts, including, but not limited to, repeated organic liquid repellent applications and or installation of protective mesh collars will be used to protect the newly planted seedlings from deer browse.

6. Planting of tree seedlings will take place after December 1 or when sufficient rainfall has occurred to insure the best chance of survival of the seedlings. The standard for success is 80% survival of plantings, after a period of three years.
7. The Grantee shall notify the Grant Manager a minimum of five working days before any fish bearing stream reaches are dewatered and the stream flow diverted. The notification will provide a reasonable time for Department personnel to supervise the implementation of the water diversion plan and oversee the safe removal and relocation of salmonids and other aquatic species from the project area. If the project requires dewatering of the site, and the relocation of salmonids, the Grantee will implement the following measures to minimize harm and mortality to listed salmonids:
 - Fish relocation and dewatering activities shall only occur between June 15 and October 31 of each year.
 - The Grantee shall minimize the amount of wetted stream channel dewatered at each individual project site to the fullest extent possible.
 - All electrofishing shall be performed by a qualified fisheries biologist and conducted according to the National Marine Fisheries Service, *Guidelines for Electrofishing Waters Containing Salmonids Listed under the Endangered Species Act*, June 2000.
 - The Grantee will provide fish relocation data to the Grant Manager on a form provided by the Department of Fish and Game.
 - Additional measures to minimize injury and mortality of salmonids during fish relocation and dewatering activities shall be implemented as described in Part IX, pages 52 and 53 of the *California Salmonid Stream Habitat Restoration Manual*.
8. All habitat improvements will follow techniques described in the Third Edition, January 1998, of the *California Salmonid Stream Habitat Restoration Manual*, Flosi et al. and the *California Salmonid Stream Restoration Manual*, Third Edition, Volume II, Part XI, January 2004.
9. Upon completion of the project, the Grantee shall submit two hard copies of a final written report and one electronic, *Microsoft Word* compatible, copy on 3.5 inch floppy disk(s) or CD. If the project is not completed in the current year, the Grantee will submit a summary of the completed portion no later than December 31 and again each year until completed. The report shall include, but not necessarily be limited to the following information:
 - Grant number
 - Project name
 - Geographic area (e.g., watershed name)
 - Location of work – show project location using U.S.G.S. 7.5 minute topographical map or appropriately scaled topographical map
 - Geospatial reference/location (lat/long is preferred – defined as point, line, or polygon)
 - Project start and end dates and the number of person hours expended
 - Total of each fund source, by line item, expended to complete the project, breaking down Grant dollars, by line item, and any other funding, including type of match (cash or in-kind service)
 - Expected benefits to anadromous salmonids from the project
 - Labeled before and after photographs of any restoration activities and techniques
 - Specific project access using public and private roads and trails, with landowner name and address
 - Complete as built project description
 - Report measurable metrics for the project by responding to the restoration project metrics listed below.

Habitat Protection and Restoration Projects– Reporting Metrics (HI, HR, HS) (Report N/A to those that do not apply)

Habitat Projects: (all)

- Identify the watershed/sub-basin plan or assessment in which the project is identified as a priority.
- Name the priority habitat limiting factors identified in that plan that are addressed by the project
- Type of monitoring included in the project
 - Design spec achieved
 - Fish movement/abundance
- Number of stream miles treated/affected by the project within the project boundaries.

Instream Habitat Projects (HI)

- Description of instream treatments used, including site locations referenced to an established landmark, number of treatment sites, and any modifications to site/treatment design.

Riparian Habitat Projects (HR, HS)

- Number of miles treated (e.g., fenced)
- Number of acres treated (e.g., planted)
- Number of acres and type of invasive species controlled
- Species and size of trees planted
- Number of trees/density of plantings
- Feet of stream bank stabilized and treatments used.

Water Quality Projects

- Water quality limitations addressed by the project (e.g. 303(d), TMDL)

10. The Grantee will acknowledge the participation of the Department of Fish and Game, Fisheries Restoration Grant funds on any signs, flyers, or other types of written communication or notice to advertise or explain the Selby Creek Restoration and Revegetation Project.

EXHIBIT D
Selby Creek Restoration and Revegetation Project
Treatment Site Details

Left or Right streambank referenced facing downstream abbreviated LB and RB
0ft. Begins at Silverado Trail.

Site #	Station Dist. (ft.)	Existing Condition	Existing Exotic Plant Removal	Bioengineering Prescription	Revegetation
1	RB 0-40 P#1044	Vertical cut in streambank 4-10' high below culvert outlet at Silverado Trail. Evaluate culvert for fish passage.		Stabilize with 1/4-1/2 ton boulders (<u>Boulder Streambank Protection</u>) at base with Willow & Coyote Brush sprigging in interstices.	Seed Coyote Brush, Baccharis pilularis and Blue Wild Rye, Elymus glaucus onto soil areas between boulders.
2	RB 55	Grey Pine undercut.		Stabilize with <u>Boulder Wing Deflector</u> 13' base 13', height 3', 8' thick. (15 yds)	
3	LB 0-26 P#1045	Vertical cut in streambank 4-8' high.		26 feet <u>Boulder Streambank Protection</u> . Use 1/4-1/2 ton boulders with rooted cuttings in interstices.	Plant Coyote Brush rooted cuttings at bottom, Wild Rose in middle, Snowberry at top.
4	LB 52-60	Valley Oak undercut. If it falls, upper streambank and terrace erosion will occur.		<u>Boulder Wing Deflector</u> to protect tree and preserve streambank, built in a "V" shape with tree at center 8' base and sides of "V" 6' each. 2' high. (10 yds)	
5	LB 26-108 P#1048	Vegetation summary: in this section the top of bank is well vegetated, but the lower banks are cobbley and sparsely vegetated.	Remove Tree of Heaven, an invasive exotic plant from China, which suckers extensively and seeds prolifically.		Plant 3 Mountain Mahogany with Vine Honeysuckle , 5 California Fuchsia, 6 California Bricklebrush at toe with 200 Creeping Wild Rye plugs at 1' on center minimum.
6	RB 61-108 P#1046	Vertical cut streambank 6'.		<u>Boulder Streambank Protection</u> . 47' to a 4.5' height with rooted cuttings.	Wet season plantings of 15 rooted cuttings of Coyote Brush as pioneering species in toe with boulder protection. Use driwater cells for supplemental water. Pack in ample soil in placement. Use burlap bags to protect soil.
7	RB 55-108	Vegetation summary: in this section the top of bank is well vegetated, but the lower banks are cobbley and sparsely vegetated.			Plant 5 Ash near toe and seed Blue Wild
8	X 108	Longitudinal profile 1.14% Some large boulders in stream can be used in weir. Eroding streambanks. Two Oaks threatened.		Construct <u>Cross Channel V-Weir</u> between two Valley Oak trees (30 yds) to be cabled together.	1 year after bioengineering, establish 25 plugs Blue Rush at base of rock with 25 plugs Creeping Wild Rye at each end of weir structure in areas accruing sediment. Plant Bush Monkeyflower, Mountain Mahogany, California Fuchsia upper streambank ~3 each, both sides.
9	LB 108-166	Revegetation: in this section the top of bank is well vegetated, but the lower banks are cobbley and sparsely vegetated.			Plant Blue Rush and Creeping Wild Rye at toe and continue Bush Monkeyflower, Coyote Mint and California Fuchsia plantings upper streambank. Seed grasses for Oak under story at top of bank with 1 Coast Silk Tassel, 2 Mountain Mahogany.
10	RB 166 P#1050	Stump detached from streambank. Can force high flows into streambank.		Pull stump down into stream and cable to boulders as part of <u>Boulder Wing Deflector</u> . 12' base, 10' height, 3' thick. (10 yds)	
11	LB 166	Streambank erosion above low flow channel margin.		Stabilize with low profile <u>Boulder Wing Deflector</u> 8' base, 9' height, 2' thick. (10yds)	

12	RB 108-200	Vegetation Summary: Sparse vegetation on bank due to near vertical face and cobbly soils. Oaks and Pines at top of bank.		See above lines 6,8,10 for all Bioengineering this stretch of right streambank.	Use 12 OR False Goldenaster, 200 Blue Wild Rye plugs. Trial winter plantings of Deer Grass plugs to evaluate for future.
13	RB 221 P#1051	Stump in creek deflecting flows to opposite low boulder wall.		Stabilize large root ball with 5 yards of boulders.	
14	LB 223-234 P#1052	Extremely low rock wall. Eroding bank downstream.		Sprig existing boulder wall with live willow cuttings. Place Boulder Streambank Protection on 11-foot eroding bank just downstream.	Sprig upper Left Bank boulders with rooted cuttings of Coyote Brush.
15	LB 249-257 P#1053	Tree undercut.		<u>Boulder Wing Deflector at tree (5 yds).</u>	
16	RB 200-300	Vegetation Summary: Steep stoney streambank with Under Story Fern, Monkey flower, Wild Rye. Good Pine canopy establishing.	Remove Invasive Fennel.		Seed open areas after fennel removal with Phacelia, Blue Wild Rye, Calif. Brome. Plant Blue Rush after bioengineering stabilizes streambanks and creates sandy toe.
17	LB 200-300				Vegetate with Ribes calif., Wild Rose, Snowberry, Coyote Mint and Yerba Buena on midstream bank and Creeping Wild Rye plugs@ toe. Top of streambank, plant Bush Monkeyflower, California Primrose with California Fuchsia and seed Yarrow with Under Story Grass Mix.
18	RB+ LB 300-310 P#1054	Eroding streambanks on both sides. Right Bank Pine tree threatened.		Cross Channel V-Weir (central boulders at grade, cabled together) to protect tree, stabilize streambanks and increase channel diversity and sediment/ bed load transport ability (22 yds).	
19	RB 319-325 P#1055	Undercut Pine.		<u>Boulder Wing Deflector at Pine (5 yds).</u>	
20	X 367 P#1056	3 undercut Pines in a row on Right Bank starting at 367. Upper streambank will collapse if they fall.		<u>Boulder Wing Deflector on Right Bank (10 yds).</u>	
21	RB 367-419 P#1057	Eroding streambank. Existing Toyon and 2 Scrub Oak collapsing into streambank.		45 feet Boulder Streambank Protection. Cross Channel V-Weir at Valley Oak to connect to BSP (20 yds).	
22	LB 300-400	Vegetation summary: This bank has over story Oaks but the the understory is largely with non-natives.	Remove Fennel. Limit spread of invasive grasses with timed mowing/removal/prescribed burn.		
23	RB 300-400	Scrub Oak under Pines.	Remove Tree of Heaven. (Invasive exotic)		Plant Creeping Wild Rye at base. On upper bank plant 3 Scrub Oak 3 Toyon.
24	RB 419-460 P#1059	Eroding streambank.		<u>41 feet Boulder Streambank Protection to a 4 foot height.</u>	Seed boulders w/ acorns and buckeyes
25	LB 400-437 P#1060	4' eroding scarp.		<u>Live Willow Mattress, 37 feet, Boulder toe.</u>	
26	LB 440-500	Sparsely vegetated top of bank.			Plant 3 container or ball and burlap Valley Oaks 25' on center with Ceanothus cuneatus 8' on center and Chamise interspersed. Start Ash plantings low + mid bank 20' on center with Coyote Brush 9' on center.

27	X 517 P#1910	Transition to broad featureless channel begins here. Bed load and sediments drop out in this reach due to greater width/lower flow velocity.		Cross Channel V-Weir 24' long with streambank protection: 6' base, 8' height, 1.5' thick (30 yds). Weir to be cabled, central boulders placed at grade. The following series of V weirs will focus stream flow in channel center, protecting streambanks and increasing transport velocity.	
28	RB 460-800 P#1911	Fairly decent streambank section here with good representation of native trees and shrubs.			
29	LB 440-900 P#1912	Partially rip rapped streambank with concrete pieces and large boulders randomly placed. Existing Deer Broom Lotus which is a good indicator species of the chaparral edge.	Remove Thistle.	Re-organize boulder placement, regrade for planting. Build 10 small <u>Boulder Wing Deflectors</u> for Maples, Sycamore at toe with instream large boulders (3 yds per deflector).	Plant Maples and Ash 20' on center on lower third of streambank, Ash at toe with rock protection. Plant vineyard insectary border of Deer Grass, Ceanothus, California Fuchsia, Sage with seeded Needlegrass and Fescues, Yarrow, Phacelia and Deer Lotus for some to creep down over rocks with time. Protect Buckwheat and spread site collected seed into prepared seed beds. Establish Blue Wild Rye in pockets on lower bank, and Creeping Wild Rye between rocks at toe.
30	X 667	See Site 27		<u>Cross Channel V-Weir (40 yds), cabled, central boulders at grade.</u>	
31	RB 830-900 P#1913	3' scarp developing at streambank where thalweg hits toe.		<u>Pull back bank to a 2:1 slope, mulch, seed, jute net, and plant.</u>	Plant Oregon False Goldenaster in jute w/ Spreading rush as well as seed mix: Blue Wild Rye, Creeping Wild Rye, Red Fescue.
32	X 900 P#1914	See Site 27		<u>Cross Channel V-Weir, 40 yds rock, supplement with existing onsite rock. Attach to Left Bank 8' base, 10' height, 2' thick. Right Bank 10' base, 14' height, 2' thick. Cable together, central boulders at grade.</u>	
33	RB 900-1200 P#1915	Cobble from streambank has been pushed up on streambank to create an unstable, very hot and dry bank with zero canopy and little vegetation.		Seven <u>Boulder Wing Deflectors</u> with layered in cuttings or rooted plants, 50-60' on center. Move thalweg toward center.	Plant Valley Oak and Grey Pine 30' on center, large containers or ball and burlap with driwater cells. Establish Coyote Brush, OR False Goldenaster in <u>Boulder Wing Deflectors. One year later plant between deflectors Blue Wild Rye, Creeping Wild Rye, Oregon False Goldenaster, Coyote Bush</u>
34	LB 900-1200 P#1916	Small levee of graded cobbles, cutting off the floodplain and small secondary channel from main channel. This increases pressure on the opposite streambank and the Damske rip rap downstream.	Remove Fennel @ 1100-1200'.	Reconnect stream to floodplain and floodplain channel by lowering levee to create low terrace. See existing cross section. New cross section to be designed, designate disposal site for cut material.	Top of streambank plant four Valley Oak, and 6 Mountain Mahogany. Immediately after regrading (early fall) seed native grasses and wildflowers on regraded floodplain areas (Floodplain Grass Mix) and protect with coir netting. Preserve/enhance native Phacelia, Gallium, Mint, and Buckwheat.
35	RB 1200-1300	Gray Pine & 1 Coast Live Oak on upper dry bank with very rocky soils. Beginning of fill material in high, irregular levee.		Consider removal of upper portions of levee fill which is higher than opposite rip rap by several feet. To create terraced streambank that releases pressure on Left Bank.	Regrade streambank to remove excess fill while saving existing large trees. Further analysis of cut amount and site disposal location. Add to plantings: 3 Ceanothus, 3 Chamise; 1 Coast Live Oak, 12 Bush Monkeyflower, 50 Muhlenbergia, and seed Upland Grassland Mix.

36	LB 1200-1451 P#1917 P#1918	Rip rap armor 8' high; drops down to 4.5' low in center of reach. Fill site on Right Bank bench adds to streambank pressure in larger storm events.			Goal to increase shade on creek and vegetation over rocks to cool radiant heat effect. Stake Willow cuttings at toe. Drop Buckeye, Walnut, Acorns into rock interstices inside burlap sack w/ soil and pack around sack w/ soil/gravel mix.
37	LB 1320 P#1919	Boulder armor is undermined.		Place 1 yard of large toe rock beneath tree.	
38	RB 1345-1650	Large irregular fill on streambank, very cobbly in places, and 2-3 low spots with large existing trees. The berm created by the fill disconnects the creek from it's floodplain which is up to 40' wide and extends back to the vineyard avenue. This floodplain can be reconnected to the creek without endangering the vineyard, by pulling back berm to the fenceline and making the floodplain available to the creek for flood dissipation.		Create low flood plain terrace. Extend ~ 4-6' from toe of the bank and create 12" high terrace extending back 9' with slight gradient up to streambank. Grade rest of slope 3.5:1 and move rock pile levee back against fence.	During grading protect existing trees with temporary fencing barrier. Plant Chamise (7), Ceanothus (7), Mountain Mahogany (7) 12' on center Prior to planting use prescribed burn to eliminate non-native grasses. On re-graded bank establish Monkeyflower, California Fuchsia, and Coyote Mint (some shade) in clusters. Also seed Grassland Mix. At the toe of bank, where connects to low terrace, trench in rooted cuttings of Bush Monkeyflower and plugs of Creeping Wild Rye.
39	LB 1400 P#1920	Rip rap bank very hot and dry with zero free canopy.			Stake Willow cuttings at toe. Drop Buckeye, Walnut, Acorns into rock interstices with mulch/soil cover.
40	LB 1451-1600 P#1921	Large meadow habitat area with a toe scarp.		Series of 3 <u>Boulder Wing Deflectors (10 yds each)</u> ~18' in length from streambank to create a low flow channel 17' wide and then disperse greater flows onto Left Bank floodplain. Cross Channel V-Weir at downstream end of site (30 yds, cabled).	Hand grade out levee at top of bank. Seed collected wildflowers and grasses, preserve Brodiaea. Area is a priority for controlled burns and seeding to enhance native grasses and wildflowers. Grassland mix with modification for wetter/lower spots.
41	RB 1650-1740	Cobbly bank with many non natives and low density of vegetative cover.	Remove Fennel, Scotch Broom.		Cluster midbank plantings of California Fuchsia. Seed OR False Goldenaster, Calif. Phacelia. At the top of streambank plant 5 trees: of Coast Live, Oak Valley Oak, and Grey Pine w/ driwater cells.
42	LB 1600-1700 P#1922	Rocky, loosely piled streambank, good top of streambank vegetation, but poor streambank vegetation.			Streambank plantings of pioneering plants: Coyote Brush, Redbud, Bush Monkeyflower, Ceanothus cuneatus, Chamise. Plant trees/shrubs in burlap sack with rock to protect soil area. Seed native clovers and grasses on sterile gravel with Elegant Clarkia.
43	LB 1700-2000 P#1923	Stable streambank needs diverse shrub plantings. Small levee cuts off floodplain.		Remove small rock levee and incorporate materials into flood terrace. Stabilize with 15 willow Brushes, 12-18" high and 6' long.	Preserve existing bank wildflowers and herbs: Pearly Everlasting, California Poppies and Elegant Clarkia. Use control burn or timed mowing to establish native grasses and wildflowers. Plant 6-8 trees: Coast Live Oak, Valley Oak, and Big Leaf Maple at back edge of meadow to establish greater edge separation from vineyard

44	LB 1600-2050 P#1924	Diversity of vegetation indicates how other areas on the upper valley reaches may have looked prior to disturbance. Reconnect this area to periodic flooding to provide great recharge area. Some evidence of flood channel carving within woodland.	Remove Acacia.	Woodland area set back from streambank.	Remove Acacia and protect seedling trees and shrubs. Chip Acacia branches (high in N) and use as weed barrier around emerging Oaks. Plant bulbs, herbs, shrubs in beds and seed open areas with Upland Grass Mix asap to prevent weed invasion.
45	RB 1740-1958	Riprap on streambank.		Green up rip rap with strategic large tree plantings and shrub plantings at toe. Construct 5 <u>Deflectors</u> with cobble fill and boulder exterior layered with rooted cuttings 20-30' on center (15 yds each).	Plant on Oregon Ash 15' on center staggered along mid to top of streambank. Initially provide irrigation or driwater cells. Use degradable pots or burlap sacks to retain soils in high flows. Add Ceanothus species in rock interstices as nurse crop. Provide 2-3 yr. old Ponderosa Pine trees 15' on center beyond rip rap at top of streambank.
46	LB 1880	Secondary channel on left side, good flow in thalweg moving larger cobbles.			
47	LB 1900-2030, RB 1958-2030 P#1926	Left Bank streambank cobble levee leaves old flood plain largely disconnected. Secondary channel on interior Left Bank curve 1830-2030. Cobble building up between two channels, acceleration along right bank.		Starting at 1900 ft, LB, establish Six, 12' long <u>Baffles</u> with live materials on both sides. Push thalweg to center. Blend small levee material into streambank. On right bank, construct four baffles starting at 1958 ft.	Incorporate rooted cuttings into trenches/baffles: Coyote Brush, Bricklebush, Helenium, Willow. Add Clarkia, Poppies, Sisyrinchiums, native grasses to streambank.
48	RB 1958-2030 P#1925	End riprap, start streambank of piled bed load material.		In addition to Bioengineering prescribed above, remove levee materials above the necessary elevation and place this material at the furthest area of the upper bank terrace by the vineyard fence.	Revegetate the graded area with 1 each: Coast Live Oak, Valley Oak, Big Leaf Maple 30' on center. Establish Manzanita, Chamise and Ceanothus shrubs 9' on center. Seed Grassland Mix under Oaks with Gilias and Chinese Houses and plant clusters of Deer Grass plugs with Clarkia on bank below.
49	LB 2030 P#1927 P#1283 P#1928	Channels come together at 1st NRCS rock barb. Channel at Left Bank outside of curve.		Rock barb bottom rocks too small, moving, fabric exposed. Trench in below and replace with 3 big boulders in trench.	
50	RB 2030-2100 P#1286 P#1284	Streambank graded and seeded but losing toe material.		Excavate 4 baffles perpendicular to stream flow and plant rooted cuttings off revegetation list. Lay a few larger stones on upstream end of these baffles to protect toe plantings.	Establish rooted cuttings in trenches of False Goldenaster with Coyote Brush, and Ash with Creeping Wild Rye. On upper 1/2 of bank, plant 3 Big Leaf Maple 30' on center and 3 Mountain Mahogany 12' on center. Seed Purple and Foothill Needle Grass, Pine Blue Grass, California Brome and Clarkia, Poppies and Sisyrinchium.
51	RB 2196 P#1929	Maple with insufficient rock armor.		Cross Channel V-Weir at Maple (2196') (30 yds), to be cabled, with central boulders at grade.	
52	RB 2100-2200	Rock pile on bank made up of field cobbles separates streambank vegetation.			Pull back rock pile to vineyard avenue edge and plant trees and shrubs: 3 Valley Oak, 3 Mountain Mahogany, 3 Chamise, 3 Ceanothus, 15 Bush Monkeyflower and Grassland Seed mix.
53	LB 2229-2241	Erosion around tree roots.		<u>Boulder Wing Deflector</u> around Maple (6 yds) 12'base, 13'height to preserve tree and streambank.	Plant 25 Creeping Wild Rye plugs behind deflector after sands build up.

54	RB 2238-2246	Erosion around tree roots.		<u>Boulder Wing Deflector (4 yds)</u> . Armor roots between tree and streambank.	
55	RB 2235-2300	Decent riparian vegetation to enhance.			Add 2 Big Leaf Maple from onsite seed source and 3 Scrub Oak at top of streambank. Establish Bush Monkeyflower and California Fuchsia on mid-upper streambank.
56	RB 2289	2.5' eroding streambank scarp.		<u>Boulder Wing Deflector (5 yds)</u> 9' base, 9' height to move stream flow away from streambank	
57	LB 2200-2300	Decent riparian vegetation to enhance.			Add plantings: 1 Coast Live Oak, 6 Coyote Brush, 1 Valley Oak.
58	RB 2316	Exposed tree roots.		Protect Ash tree with <u>Boulder Armor (4 yds)</u>	Good tree recruitment this section mark/protect during bioengineering.
59	LB 2330 P#1288	Riprap streambank begins.		Create <u>Opposing Boulder Wing Deflectors (4 yds each)</u>	
60	LB 2355	Metal pipe on bank.			
61	LB 2300-2400	For a portion of this section the bank is covered in rip rap, but other sections are only somewhat erosive and just needing additional plantings.			Plant 3 Mountain Mahogany at top of bank. Selectively remove/replace rip rap to plant 5 Monkeyflower, 7 Buckwheat and 9 California Phacelia.
62	RB 2300-2400	Eroding streambank toe.	Remove Fennel.	-	Planting after streambank is stabilized: 2 Big Leaf Maples, 5 Ceanothus, 9 Bush Monkeyflower, 8 California Fuchsia.
63	RB 2412	Eroding streambank.		<u>Boulder Wing Deflector (8 yds)</u> 10' base, 9' height to move channel off streambank.	
64	LB 2400-2500	Section of bank well vegetated with trees.	Remove Fennel.		Add under story shrubs and grasses in an insectary hedgerow top of streambank include: Buckwheat, Ceanothus, Manzanita, Chamise, Deer Grass and Foothill Needle Grass.
65	RB 2412-2500 P#1287	4' scarp appears stable with nice terrace behind.			Plant Oaks, Grey Pines and Maples 20' on center and establish shrubs 12' on center: Chamise, Ceanothus, Monkeyflower. Time mowing and seeding to increase native grasses & wildflowers. Use Grassland Mix.
66	LB 2469 P#1289	Streambank erosion with exposed Maple tree roots.		<u>Boulder Wing Deflector</u> at Maple, 9' base, 12' height, 10 yds.	
67	RB 2500 - 2665	10-20' wide terrace needs plantings.	Remove Star Thistle.		Focus on native grass and wildflower establishment. Plant additional toe shrubs (Monkeyflower; Coyote Brush). Add tree plantings: 3 Valley Oak, 1 Coast Live Oak, 1 Big Leaf Maple at back of terrace 5' from vineyard avenue.
68	LB 2500-2600				Establish more native grasses and herbs/wildflowers on terrace (Floodplain Mix). On top of streambank plant: 3 Big Leaf Maple, 9 each California Fuchsia, Sage, Manzanita, 25 plugs Deer Grass.
69	LB 2600 P#1290	Large live fallen Grey Pine lying along streambank.	Remove Star Thistle	<u>Boulder Armor</u> roots to prevent stream flow from outflanking the tree and eroding streambank (10 yds) 6' base, 14' height, 2' thick.	Seed native grass and wildflower mix above rock installation. Under Story Mix with adjustment for Pine.

70	LB 2600-2730	Sparsely vegetated streambank.			Focus on restoring shrub and grassland components. Prior to planting do controlled burn in spring to reduce competition from non native grasses. Seed warm season grasses herbs and wildflowers. In fall plant Monkeyflower in streambank, with Mountain Mahogany at top of bank, Coyote Brush at toe. After planting seed cool season grasses with straw mulch.
71	RB 2730 P#1931	Grey Pine with soil eroding from roots.		Armor with <u>Boulder Wing Deflector</u> (12 yds). 15' base, 10' height.	
72	LB 2730-2900 P#1932	Well formed terrace with small levees continues to Left Bank 3187. Good opportunity for flood terrace restoration with native grasses, herbs, wildflowers.			For entire terrace, focus on enhancing terrace grasslands and shrub interface. Protect California Fuchsia, Buckwheat, Pearly Everlasting and spread. Establish Deer Grass with plugs on vineyard border to filter weed seed with native insectary: Manzanita, Coyote Brush, Evening Primrose, Monkeyflower, California Fuchsia Control burn and seed Idaho Fescue, Purple and Foothill Needle Grass, Annual Lupine, Poppies, Chinese Houses and Gilia in terrace grass areas. Plant Dutchman's Pipe Vine under existing Oaks.
73	RB 2800-2896 P#1291	Partially failed gabions.	Remove Himalayan Blackberry.	Creative cutting and re-wiring of gabions. Fill with rooted cuttings in burlap to protect root ball soil.	Regrade cobble levee beyond gabions, adding soil, amendments. Plant 6 large size Grey Pine with 9 Chamise, 9 Manzanita. Burn thistle and seed Purple and Foothill Needle Grass with Wildflower seed.
74	X 2900 P#1292 P#1501	Threatened Maple and Grey Pine on opposite streambanks.		Install <u>Cross Channel V-Weir</u> , 30 yds, cabled, central boulders at grade, 25' across to Grey Pine opposite Maple. 8' base, 6' height on Left Bank, 12' base, 8' height on Right Bank. Protect trees, center the flow, increase channel conveyence.	
75	RB 2900-3028	Levee 3' made of cobbles.			Plant 12 each California Phacelia, Bush Monkeyflower, and California Fuschia between gabions and levee with 3 large Valley Oak inside of levy and 5 Grey Pine outside of levee.
76	LB 2900-3000	2.5' Toe scarp.			Plant Monkeyflower, Coyote Brush and Blue Wild Rye at toe. Plant 3 Mountain Mahogany with clusters of Buckwheat.
77	X RB/LB 3028	Right Bank Maple undercut, start Left Bank levee 3.5'.		Install <u>Cross Channel V-Weir</u> (40 yds).	Note Buckwheat on bank. Spread!
78	RB 3028-3200	Levee with concrete chunks.			Plant Ash from creek selection along toe of levee 12' on center Plant trees directly downstream from Bricklebush. Grade out berm and seed Foothill Needle, and Pine Blue Grass with Elegant Clarkia.
79	LB 3000-3187	End of Left Bank terrace area.			Continue strategy of developing native grass/herbs/wildflowers with Mountain Mahogany and Buckwheat and Deer Grass closer to vineyard avenue.
80	LB 3187	Huge berm from highway construction materials 5' high by 18' wide.	Remove Acacia and chip onsite.		Protect existing shrubs and add 3 Ponderosa Pine and 3 Chamise and 20 Buckwheat, 24 Deer Grass.

81	RB 3173-3300	Right Bank flood terrace begins 8-12' high, vegetated with Horsemint. Levees on both sides. Without the levees the cross section would be fairly wide and flat across this channel reach causing the stream to flood the banks here.		<u>6 Live Willow Siltation Baffles</u> to stabilize terraces. Mix of Coyote Brush in with Willows.	Monkeyflower planted on terrace above baffles, and Ash in burlap sacks 30' on center. Seed Floodplain Mix lightly and use Creeping Wild Rye plugs in sand pockets.
82	LB 3173-3300	Small flood terrace on Left Bank as well.		Install 4 <u>Boulder Wing Deflectors</u> at 40' intervals (15 yds each).	Protect Monkeyflower in streambank. Plant 10 Ash trees ~20 on center and plant them just downstream of Horsemint plants to provide protection from strong flows.
83	LB 3250	End berm.			
84	3280 LB	Thalweg hits the streambank here. Cut vertical streambank with undercut Pine trees.		Construct <u>Boulder Wing Deflector (10 yds)</u> 8' base, 5' height, 15' thick, to move thalweg away from streambank and protect trees.	
85	3300 LB	Large leaning Pine tree with roots exposed.		Construct <u>Boulder Wing Deflector (10 yds)</u> 8' base, 4' height, 18' thick to move thalweg away from streambank and protect tree.	
86	RB 3300 - 3550	Large cobble pile from clearing under bridge. 200'x 12' at top.			Remove windrow of creek bank material as possible and regrade levee to optimal height/width. Plant Ponderosa Pine and Grey Pine with Ceanothus and Coyote Brush as pioneer species on reconfigured levee. Plant terrace in front of levee with Coyote Brush, Blue Wild Rye, and Monkeyflower. Phacelia further up bank.
87	RB 3200-3600	Good terrace forming here. Depositional with vegetation on the increase.			Continue plantings as line above.
88	LB 3300-3350	3 Pines vulnerable at toe of old levee fill.	After stabilizing toe, remove Acacia and revegetate area.	Reshape materials into three planted <u>Baffles</u> .	Plant Coyote Brush, Monkeyflower in baffles. Seed Phacelia, and Grasslands mix on berm.
89	LB 3350-3390	Bank has lost toe: 18" to 30" scarp.		Continue planted <u>Baffles (3 more)</u> 18' on center.	Plant 3 Mountain Mahogany, 3 Silktassel at top of bank. Plant Silver Lupines, Bush Monkeyflower, Primrose, Willow herb on bank. Preserve existing Snowberry and spread in shaded area using mulch and irrigation (temporary irrigation only.)
90	LB 3390-3500	3 large Poison Oak stands, 2 Grey Pine, Coast Silktassel.	Good place to do controlled burns on Eurotrash grasses to establish natives and wildflowers.		Control burn, plant 3 Silktassel, 9 Gooseberry, 200 Mulenbergia, and seed Dry Grassland Mix.
91	LB MID RB 3300 - 3600 P#1502	Channel is broad, flat and shallow to 3500'. The stream has gained power here (ft. 3500) to shape a low flow channel and terraces.		Use excavator or dozer along this reach to shape the channel to match the x section at ft. 3475. Maintain this configuration with a series of <u>Live Siltation Baffles</u> along both terraces at 40' intervals: 6 on LB, 6 on RB.	Use Willow as temporary planting in siltation structures with Coyote Brush, Monkeyflower, Blue Wild Rye and Big Squirreltail and plugs.
92	LB 3390-3500	Left Bank 3 large Poison Oak stands, 2 Grey Pine, Coast Silktassel.	Good place to do controlled burns on Eurotrash grasses to establish natives and wildflowers.		Plant 3 Silktassel, 25 Bush Monkeyflower, 200 Deer Grass plugs and seed wildflowers.

93	RB 3400-3500	Large berm with gabions in front, concrete piled on top. Straight section of thalweg.	Remove Fennel.		Grade berm to angle of repose. Cover with thin sheath of top soil. Plant Ceanothus 10' on center as a soil builder. Use plugs of Deer Grass along vineyard edge. Plant 5 Valley Oak large size container or ball and burlap with driwater cells, and seed Grasslands mix.
94	RB 3500-3600	Large levee berm continues.	Remove concrete at top of levee.		Check optimal levee height and spread out so levee can be planted. Use excavator to dig planting holes and start Ponderosa and Grey Pine and Valley Oak 35' on center.
95	LB 3500-3600	Inside bend.			Develop flood terrace grasses using control burn and then seeding with Flood Plain Grass Mix. Plant trees back at vineyard edge 5 Coast Live Oak, 6 Silktassel.
96	RB 3600-3800 P#1504	Outside of bend. Maple eroding at toe. Same levee but streambank more narrow.		Boulder Armor Maple (4 yds rock)	Plant 6 Maples, and 3 Cottonwoods at toe.
97	RB 3653 P#1503	Dumped concrete and bed springs.		Pull concrete and bed springs.	
98	LB 3600-3730	Well formed terrace needs planting.			Develop flood terrace grasses with control burn and seeding Flood Terrace Grass Mix. Plant trees at top of streambank: 3 Valley Oak, 2 Ash.
99	LB 3760	Boulder streambank protection ends here.		Hand rock tree on LB.	
100	3800	Starting point above bridge.			
101	RB 3800-3900	Inside bend. Terrace forming.			Grade to improve berm for planting. Floodplain grasses and forbs on terrace, Ceanothus and on both toes of levee, Grey and Ponderosa Pine trees 20' on center on top of levee.
102	LB 3800-4100	Three Boulder Deflectors			At each of three boulder deflectors, rip and amend soils to loosen clay at top of bank. Mulch with composted yard debris. Add to plantings: 3 Valley Oak, 6 Mountain Mahogany 23 Grey Pine, 3 Silktassel and seed combo Grassland/Under Story Oak Grass Mixes on top of bank.
103	LB 3813	Recently installed boulder deflector. Toe rock is moving in high flows.		Use a few larger boulders (2 yds) at the toe of these structures. Cut away exposed erosion control fabric and key tip boulders in below gradient.	
104	LB 3849	Recently installed boulder deflector. Toe rock is moving in high flows.		Use a few larger boulders (2 yds) at the toe of these structures. Cut away exposed erosion control fabric and key tip boulders in below gradient.	
105	LB 3888	Recently installed boulder deflector. Toe rock is moving in high flows.		Use a few larger boulders (2 yds) at the toe of these structures. Cut away exposed erosion control fabric and key tip boulders in below gradient.	
106	LB 3800	Armored with geotextile netting and seeded with erosion control mix.			
107	RB 3813-4100	Piled river cobble with indication of erosion. Native plants almost absent. 18" scarp developing 3950-4020. Left Bank deflectors are pushing flow against Right Bank.		Add 3 <u>Boulder Wing Deflectors on LB (12 yds each) downstream of previously placed BWD's.</u> Key into streambank and substrate. More stable than on erosion fabric. Add 6 BWD's to RB, on 40 ft intervals (12 yds each).	Reshape berm. Plant trees on vineyard side of berm: Valley Oak, Ponderosa Pine and Grey Pine 30' on center. Plant front of berm with Bush Monkeyflower, Phacelia, Coyote Brush, Deer Grass. Seed reshaped berm with Drylands Grass Mix.

108	RB 3970	Significant erosion; approximate 2' scar.		Right Bank <u>Boulder Wing Deflectors</u> will end this problem. With <u>Opposing Boulder Wing Deflectors</u> creating more confined center channel, expected increased flow velocities should help push bed load through bridge aperture.	
109	LB/RB 4008-4096	Erosion under geotextile fabric; fabric hanging loose, ending at bridge.		See site 107.	
110	4124 P#1429	Downstream side of bridge.			
111	RB 4124-4300 P#1428	Failing wire revetment with concrete chunks. Two existing Manzanita.	Remove Acacia.	Remove wire, reshape streambank, stabilize toe with boulders and wrap <u>Erosion Control Blanket</u> up streambank.	Plant 3 Valley Oak at top of streambank. Add 5 Manzanita. Plant mix of Ceanothus, Deer Grass, Coyote Mint, Sage.
112	LB 4124-4500	Bank entirely rip rapped with vineyard avenue close to top of bank. Only 3-5' wide planting strip on top of rip rap for top of bank plantings.			Plant Cottonwoods at toe 25' on center, Ash 40' on center slightly higher where holes in rocks. Establish Creeping Wild Rye with coir wrapped cobble/plug plantings. Plant California Fuchsia, Sage, Sedum between rocks. Use Grey Pine 35' on center at top of streambank with Common Manzanita, and Mountain Mahogany 12' on center. Use Buckwheat, Phacelia, Yarrow, Deer Grass, Evening Primrose, Bush Monkeyflower, and Sage to create an insectory row and weed barrier at top of bank.
113	RB 4124-4178	Wire fencing has failed. There is some erosion. Stability is due to concrete rubble.		Remove remaining wire fencing and concrete rubble. Replace with <u>Boulder Streambank Protection</u> to 4' elevation (54 ft). Rebuild upper streambank with channel bar material, stabilized with <u>Erosion Control Blanket</u> .	Plant boulder interstices with Ash and Cottonwood 20' on center. Revegetate area of erosion control blanket with California Fuchsia, Willow Herb. Seed Flood Plain Grass Mix with Clarkia.
114	LB 4124	Heavy rock armor.			Left streambank needs Ash and Cottonwood planted between rock gaps at water edge.
115	RB-LB 4178-4460	Right Bank wire revetment has stream cobble and gravel pushed against it.		Eight alternating <u>Boulder Wing Deflectors (7 yds each)</u> to protect streambanks, increase meanders, center the thalweg, accelerate bed load transport and create pool and shelter habitat for migrating salmonids. Four deflectors on each side, middle two deflectors to have digger logs installed (Cabled together). Cross Channel V-Weir at downstream end of site, cabled, low slung (1 ft height).	
116	RB 4300-4450		Remove Fennel.		Existing Wild Rye, Clarkia and Coast Live Oak seedlings need protection. In other areas blade back levee to create broader planting area. Use small excavator to create planting holes for Common Manzanita and Grey Pine at top of bank and seed Under Story Grass Mix plus Blue Pine Grass with Yarrow.
117	RB 4400	End of revetment wall.			
118	LB4400	Eroding cobble streambank.		This section covered by prescription at Site #116.	Plant Ash 30' on center and Blue Rush at toe interstices. Plant California Fuschia and Phacelia at top of bank to fall over rocks.

119	RB 4450-4490	Good vegetative cover with multi layers of existing plants.	Remove 2 Fennel clusters.		Preserve mixed California Fuschia and Coyote mint. Add Phacelia with plugs of Idaho Fescue and container plants of Silver Lupine around it.
120	LB 4450	Oregon Ash cluster present here indicates access to water table.			
121	RB 4400-4600	Streambank needs riparian trees. Poison Oak cluster 4515 to 4545.	Remove Fennel.		Plant trees at top of streambank: 3 Grey Pine, 3 Coast Live Oak, 3 Valley Oak, 4 Oregon Ash. Shrubs: 9 Common Manzanita. Use a control burn to deplete non native grasses and establish Grasslands seed mix.
122	LB 4500	Drainage enters creek.		Reorganize local rocks into weir structure.	Weir structure will spread flow and allow for plantings to address water quality (runoff). Establish Creeping Wild Rye and Blue Wild Rye at toe with Idaho Fescue at top of bank.
123	LB 4501-4800 P#1432	Heavy rock armor-6' elevation. Narrow top of bank area.			Plant riparian trees at toe and among boulder gaps where possible along this reach. Establish row of insectary plants at top of bank for habitat and to separate vineyard from stream with weed barrier. Plant Deer Grass plugs in clusters of 9-18 with Bush Monkeyflower. Other clusters of Buckwheat and Phacilia with Idaho Fescue. Seed Grassland Mix in other areas with Poppies, Evening Primrose and Yarrow.
124	RB 4501-4800	4' elevation.			
125	LB 4600 P#1432	Elevation 6'.			
126	RB 4600	Elevation 4'.			
127	RB 4700-4920 P#1430 P#1431	Failing wire fencing, stream flow is getting behind it. Streambank here is three feet lower than Left Bank. All flooding will be into Right Bank vineyard.		Replace fencing with <u>Live Willow Brush Mattress</u> (220 ft) set in boulder filled toe trench. This will stabilize/revegetate streambank and act as a filter to prevent debris from entering vineyard during floods. Cross Channel V-Weir at downstream end (20 yds rock, central boulders at grade, cabled) to hold grade.	Preserve/transplant natives in this section. Establish Valley Oak and Coast Live Oak such that there are over story trees approximately of 30' on center.
128	RB 4920	Thalweg directed against this streambank.		Reshape streambank; if possible preserve native plants. Remove fence and metal debris. Boulder Streambank Protection where necessary for a total of 50 feet (mainly in areas where metal rubble is removed), live planting in all interstices.	Preserve/transplant native plants when bank reshaped. Seed graded areas with Grassland Mix.
129	LB 4800	Armor ends; started at 4501; thalweg switches to Right Bank.			
130	LB 4800-5070	Small terrace at inside of bend.			Control burn and seed Floodplain Grass Mix with some Blue Rush and Creeping Wild Rye plugs. Add Coyote Brush and Monkey Flower on bank. On top of bank plant 3 Valley Oak and seed with Under Story Grass Mix. In open areas between Oaks plant 75 Deer Grass, 30 Bush Monkeyflower, 8 each Ceanothus, and 9 Common Manzanita.
131	RB 4930-5070 P#1433 P#1434	Streambank behind revetment wall is almost entirely metal rubble.	Remove Fennel, Scotch Broom.	See prescription for Site 128.	To Right Bank 5000 only: Plant Grey Pine, Coast Live Oak alternating 25' on center, and add shrubs: Ceanothus and Common Manzanita on the top of streambank 12' on center. Preserve or transplant Monkeyflower and Moss on bank.

132	RB 5000-5070	Revetment wall ends; thalweg switches to Left Bank.	Remove Fennel.		Slightly grade bank to smooth out levee. Seed Grassland mix on bank and plant: 1 Coast Live Oak. Protect existing Manzanita and especially the Dutchman's Pipe Vine on last three revetment posts. Preserve Miner's Lettuce as well.
133	LB 5070-5340 P#1435	Cobble filled revetment wall begins; bottom of wall is failing & cobble falling out.		<u>Six (6) Boulder Wing Deflectors</u> :7 yds each, 12' wide, 6' base, 4' streambank height; taper to tip rock keyed in @ gradient level. Place deflectors @ 5070, 5110,5150,5190,5230,5270.	Establish Creeping Wild Rye and Blue Rush in sand deposits between deflectors. Plant Valley Oak, Grey Pine, Coast Live Oak 30' on center at top of bank.
134	RB 5100-5225	18'w x 1-2'H terrace begins. Good planting location.	Remove Fennel.		Plant riparian trees 20' on center: 1 Valley Oak,1 Coast Live Oak, 2 Oregon Ash 1 California Buckeye, 1 Bay. Plant shrubs 8' on center inclusive of: Toyon, Coyote Brush, Ceanothus, Bush Monkeyflower. Burn off non-native grasses before planting and seed Floodplain Mix.
135	RB 5180	New species of Phacelia on streambank.			Collect for seed or starts.
136	RB 5225-5315	Creeping Wild Rye established in sandy toe.	Remove Nutsedge.		Use Creeping Wild Rye and Blue Rush in coir fabric wraps along toe to get established. Anchor with long pins, rock.
137	RB 5270			<u>Boulder Wing Deflector, 7 yds rock.</u>	
138	RB 5315				Protect little fern in streambank.
139	RB 5325	Coast Live Oak with Blue Elderberry.			
140	RB-LB 5340	Large Live Oak; streambank is eroded around Oak.		<u>Cross Channel V-Weir</u> at Oak tree to stabilize streambanks, protect tree and increase channel diversity. (25 yds rock, cabled)	Protect and increase existing Blue Rush and add Coyote Brush at toe.
141	LB 5350 P#1436 P1437	Failing fence to 5460'.		Pull fence, mulch, seed, jute net. Boulder Streambank Protection along toe (100 ft X 3 ft tall).	
142	LB 5340-5600	Narrow, rip rapped streambank has Creeping Wild Rye at the toe and Blue Rush.			Increase Blue Rush and enhance Wild Rye at toe. Plant Grey Pine with clusters of California Fuchsia and Deer Grass top of streambank with Primrose and seeded Grassland Mix. Establish mid streambank Cottonwood and Ash in boulder interstices but don't shade out Creeping Wild Rye at toe.
143	LB 5450	Streambank and root area erosion at Pine tree.		<u>Cross Channel V-Weir</u> at Pine tree to stabilize streambanks, protect tree and increase channel diversity. (25 yds rock)	
144	LB/RB 5400			Boulder Wing Deflector with Digger Log, 10 yds rock.	
145	RB 5400-5450	Erosion behind failed revetment wall; channel measures 25' wide x 10' top of streambank x 4.5' streambank height.			Protect existing California Fuchsia clump 3' x 10' @ 5400. Add 1 Valley Oak, Bush Monkeyflower, California Fuchsia, and Goldback fern. Plant Manzanita on outside of berm. Preserve Creeping Wild Rye, Blue Rush at toe.
146	RB 5450-5550 P#1438		Remove Fennel.		Preserve Coast Live Oak, transplant seedlings nearby. Preserve Moss, and Creeping Wild Rye at toe.
147	LB 5540	Wire revetment wall ends.			Preserve Creeping Wild Rye at toe and lower streambank.

148	LB 5568 - 5982 P31438	Boulder armor. 4' to top of streambank.			Plant Buckeye, Coast Live Oak and Ash among rock. Rock is mostly one boulder thick so pull medium size boulders, plant saplings and replace boulder.
149	RB 5568	Mostly stable with some vegetation.			
150	RB 5630	Cluster of small Live Oaks with exposed roots.		See prescription at ft. 5540m (Site147) to 5956 (Site 152)	
151	RB 5650-5750				Plant: 1 Coast Live Oak, 50 Bush Monkeyflower, 2 Buckeye, 50 Deer Grass, 20 Pearly Everlasting, 8 Manzanita, 9 California Fuchsia. Existing Poison Oak ok.
152	LB/RB 5540-5956	Measures 30' wide @ 5630. Very straight, flat cobble gravel channel with no geomorphic diversity	Remove Fennel, Dock.	Series of 15' alternating <u>Boulder Wing Deflectors</u> ending at 5956; approximately 50' apart; place one at 5630 on Right Bank to protect oaks. Eight total, 12 yds each.	Preserve/transplant Creeping Wild Rye, Blue Rush at toe. Right Bank 5575 Aquatic Brooklime.
153	LB 5800-5870	Boulder armored streambank.			Continue Cottonwood, Ash plantings 35' on center at toe with Creeping Wild Rye. Define top of streambank insectary: Deer Grass, Bush Monkeyflower, California Fuchsia, Long Petaled Iris, Phacelia.
154	RB 5800-5950		Remove Dock.		Plant Dutchman's Pipe Vine in shade under Oak and Monardella with Melic grass. Add 12 Bush Monkeyflower on streambank, 8 Oenothera on top. Creeping Wild Rye @ toe.
155	LB 5870-5970	Remove Dock.			Plant Blue Rush @ toe, 1 each Valley Oak, Coast Live Oak. Buckeye.
156	RB 5950-5988	Remove Tree of Heaven.			Plant Bush Monkeyflower on streambank with 3 Oregon Ash. Protect Miner's lettuce under trees.
157	RB 5988-6030		Remove Tree of Heaven when Miner's lettuce is dormant in late summer.	Remove levee here. Junction of Larkmead, BV farm avenues. Room to flood without damaging vineyard.	Plant lots of Deer Grass, Slender Hair Grass, Danthonia California. Create wet meadow, vernal spot.
158	LB 5975-6100		Remove Dock, Nut Sedge.		Plant row of 7 trees: Valley Oak, Grey Pine, Coast Live Oak. Spread Miner's lettuce under Oaks.
159	LB 6000 P#1439	Large cement slab.			Preserve Prunus Virginiana Demissa here.
160	LB 6027	Eroding Coast Live Oak.		Armor with <u>Boulder Wing Deflector</u> , 7 yds rock.	
161	RB 6050	1st Native Willow on stream.			
162	LB 6052	Large Oak growing in water. Massive erosion between trunk and streambank		<u>Boulder Wing Deflector</u> around eroding roots of Oak to stabilize streambank and maintain high quality habitat pool just past oak (7 yds).	
163	LB 6030-6125	Bare eroding streambank.		<u>Armor</u> bare eroding streambank between sites 162 and 164 with 18' x 6' <u>Live Willow Mattress with boulder toe (24 ft of mattress)</u> .	Preserve Oaks and preserve Iris 6085 and Bay seedling 6090.
164	LB 6076	Young Oak with streambank erosion.		<u>Boulder Wing Deflector at tree</u> , 5 yds.	
165	RB 6136-6400 P#1440	Pre-existing boulder streambank protection.			Plant Cottonwoods and Alders in space between boulders.
166	LB 6136-6400	2-3' cobble terrace.	Remove Fennel, Star Thistle.		Establish Creeping Wild Rye, Blue Wild Rye, Bush Monkeyflower, and Horsemint. Plant 5 Buckeye on top of streambank and insectary shrubs and grasses for vineyard buffer.
167	LB 6370	Grey Pine with California Fuschia, Monkeyflower, Clarkia.			Preserve this area.

168	RB 6400	Spreading Ash tree.	Shade out Arroyo/Silver Willow.		Establish Deer Grass patch 6410-25. Plant three Ash, California Fuschia on cobble streambank.
169	LB 6400-6460 P#1441	Terrace forming here with fine grained deposition.		Construct four 12' <u>Live Willow Siltation Baffles</u> to vegetate and stabilize terrace and prevent erosion of Cottonwood cluster just downstream.	
170	RB 6450-6500	Area with Buckeye and Creeping Wild Rye in sandy toe.	Remove Arroyo Willow, Poison Hemlock (Pierce's Disease host.)		Spread Red Fescue, protect Buckeye seedlings, replant Dutchman's Pipe Vine. Protect Coast Live Oak seedlings.
171	RB 6460	Vegetated with a variety of shrubs and willows.			Plant 5 Coast Live Oak.
172	RB 6520	Large Oak threatened by erosion around roots.		Replace lost soil with <u>Boulder and Cobble Armor</u> to preserve this canopy oak.	Plant shaded streambank with Snowberry, Santa Barbara Sedge, Creeping Wild Rye.
173	RB 6500-6700	Large flood terrace.	Remove Willow upstream tip. Remove Mustard, Broom, Blackberry.		Blue Wild Rye, Creeping Wild Rye look good on terrace edge. Establish more grasses with Fireweed. Add to hedgerow at avenue: Gooseberry, Monardella, Achillea, wildflowers, grasses from seed.
174	LB 6500-6540	Large Oak with streambank erosion.	Remove Nutsedge.	<u>Boulder Streambank Protection</u> for Oak (40 ft). 2' x 3' toe trench and up 3'. Excavator to place toe rock, hand rock above.	Remove Vinca on streambank (Pierce's vector). Replant area with Creeping Wild Rye, Blue Rush in coir wrap. Establish Snowberry, Dogwood and Wild Rose further up streambank.
175	LB 6540 - 6623	Streambank erosion to near vertical.		<u>Live Willow Brush Mattress (80 ft in length)</u> , boulder toe.	Add plantings under oaks this section of Melic grasses, Smilacina racemosa (or alternate), Snowberry, Coyote Mint, and Bee Balm.
176	LB 6623-6648	Failing woven willow wall.		Repair first 25' with quarry boulder toe trench. 1/4-1/2 ton boulders (5 yds). Hand rock with local cobble behind wall.	
177	LB 6648-6698	Woven willow wall too far gone to repair.		Replace with <u>Live Willow Brush Mattress (50 ft)</u> . Use in-channel gravel and cobble to rebuild streambank for mattress.	
178	LB 6700	Endangered Oak tree.		<u>Boulder Armor</u> roots of oak with boulder wing deflector; 10' base x 5' high (10 yds).	Preserve or replace top of bank Wild Rose and Snowberry.
179	LB 6697-6726	Streambank erosion.		Stabilize/revegetate with a <u>Live Woven Willow Wall (30 ft) after deflector</u> . Use local cobble for fill.	
180	LB 6789				
181	RB 6789-6829	Stream flow has begun to outflank old Willow.		<u>Deep Plant Willow Clusters</u> on 3' centers; plant in 10' band.	
182	LB 6790-6848	Eroding near vertical streambank.		<u>Live Woven Willow Wall (60 ft)</u> . Use local cobble for fill.	
183	LB 6848-6878	2 endangered Oaks with extensive eroded root systems.		<u>Boulder Streambank Protection</u> ; 30 ft long, 5' high x 3' thick. Fill in upper area of exposed roots with cobble.	
184	RB 6875	Ribes viburnifolium.			Remove Ribes viburnifolium (non-native). Add Creeping Wild Rye plugs under willows.
185	LB 6878-6903		Remove Nutsedge and Himalayan Blackberry.	<u>30 ft Live Willow Brush Mattress</u> and boulder toe trench.	Seed more wildflowers: Gilias, Chinese Houses, Lupines.
186	RB 6900-7025	Rip rap streambank.			Protect Coast Live Oak seedlings. Plant Willow and Cottonwood stakes at toe interstices. Plant California Fuschia, Coyote Mint mid-upper streambank interstices with Idaho Fescue, Purple Needle Grass, Yarrow, Poppy and Lupines.

187	LB 7000-7100		Remove Nutsedge, Himalayan Blackberry, Nightshade, Vinca.		Add Blue Rush to toe plants. Understory Grass Mix (50% shade). Plant 2 Buckeye
188	LB 7100-7130 P#1442	Endangered old canopy tree.		<u>Boulder Bank Protection 30'</u> to 5' high.	
189	RB 7145-7202	Old Willow canopy with eroding streambank.		<u>60 ft Live Willow Brush Mattress</u> ; 8' wide with boulder toe; end at old canopy and armor roots with Cross Channel V-Weir (30 yds, cabled).	7100-7200 3 Valley Oak @ top of streambank with Blue Wild Rye Under Story and Melic grass. Plant 3 Chokecherry.
190	LB 7165-7215 P#1445	Streambank erosion.		<u>50 ft Live Willow Brush Mattress</u> ; 4' wide with boulder toe.	
191	LB 7115-7380		Remove Arrowhead Weed, Vinca, Lawn Grass.		Plant lots of Snowberry, Wildrose, Dogwood (root cuttings from Larkmead plants), Manroot. Plant barrier to lawn grass along fence line: Toyon, and Dogwood.
192	RB 7200-7300	Little Oak grove.			Improve Under Story with plugs of Melic grass and plantings of Coyote Mint.
193	LB/RB 7245 P#1444	Left Bank erosion. Backyard and fence endangered. Monitor.		-	
194	RB 7300-7500	Large historical flood terrace.	Control burn Eurotrash Grasses.		Establish grass seed and plugs after control burn in old floodplain meadow, and plant perimeter California Black Walnut to create interior meadow environment. Plant sandy terrace and streambank full with rushes and Creeping Wild Rye
195	RB 7340-7400 P#1443	Long, shady terrace with 6' cut vertical streambank.		<u>Four 12'-15' Live Willow Siltation Baffles on RB terrace, placing last @ 7400.</u>	Plant Twinberry between baffles after siltation begins.
196	RB 7456-7486	30' W x 30' sandy bar before old ancient Willow.	Remove Fennel.		
197	LB 7400-7600	Blackberry possibly hiding erosion.	Remove Himalayan Blackberry.		Plant upper half of streambank with 8 Ash 25' on center. Plant mid and upper streambank with Creeping Wild Rye and Santa Barbara Sedge and 2 large Valley Oak at top of streambank.
198	LB 7470	Large old canopy Willow with multiple exposed roots.		Willow cluster plants 6' x 12' wide band to cause sediment deposition among the exposed roots.	
199	LB 7560	Mid-channel root ball dividing flow and forcing it against stream banks		Leave root ball in place. Build two Baffles between root ball and left bank to avoid back-cutting and build terrace.	Where culvert comes in use coir logs to stabilize toe with Blue Rush plantings and Creeping Wild Rye above.
200	RB 7594	Willow wall bare in spots.	Remove Himalayan Blackberry, Vinca.	Wall fairly stable. Cluster plant areas that lack vegetation.	Add to plantings above revetment: 5 Spice Bush, Blue Wild Ry from seed., Creeping Wild Rye plugs and Santa Barbara Sedge plugs. Protect Buckeye seedlings.
201	RB 7649	Old stump.		<u>Rock pack in root ball (by hand). Cross-channel V-weir (25 yds) to go between root ball and opposite bank. To be cabled.</u>	
202	RB 7705-7725 P#1446 P#1447	10' high vertical eroding streambank		Install <u>Boulder Streambank Protection to 9' height</u> . Shade tolerant species in interstices	Install rooted cuttings of Spicebush and Dogwood..
203	LB-RB 7735 P#1448	Fallen tree causing cross-channel debris jam.		Remove log, build <u>Boulder Wing Deflector</u> on Right Bank; 7 yds of 1/4-1/2 ton boulders.	
204	RB 7735 - 7875	Bare clay on lower streambanks.			

205	RB 7800	Bare streambank eroded to clay.		Build <u>Log and Boulder Wing Deflector</u> to move channel scour off the streambank. 7 yards 1/4-1/2 ton boulders; use wood from debris jam. Cross-channel V-weir to go 40' downstream of deflector (20 yds). To be cabled.	
206	LB 7600-7700	Massive Willow grove with encroaching Himalayan Blackberry.	Remove Himalayan Blackberry before it gets well established.		Plant tree and shrub hedgerow at top of streambank 7600-7950. 6-8 Valley Oak and Bay, lots of spicebush and Chokecherry. Bee Balm, Miner's lettuce, Santa Barbara Sedge.
207	LB 7700 - 7895	Well defined cobble and sand terrace, vegetated with Himalayan Blackberry.	Remove Himalayan Blackberry, Vinca.		Plant Black Fruited Sedge, Common Rush on terrace with Creeping Wild Rye. Plant Spicebush, Wild Rose, Dogwood, Snowberry on mid-upper streambank with False Solomon's Seal or other spreading herbaceous cover.
208	LB 7900 - 7930 P#1481 P#1482 P#1483 P#1485	Metal well casing from channel bottom to top of bank with severe bank erosion for 30' downstream.		<u>Boulder Streambank Protection</u> 30' long x 7' high with all interstices sprigged.	
209	MID 7915 P#1487	Fallen tree and trapped debris forcing flow against right streambank.		Remove mid-channel cluster. Cross-channel V-weir (25 yds). To be cabled.	
210	RB 7900 P#1484	Eroding root mass on vegetated point.		-	
211	RB 7930 P#1486	Thalweg against eroding streambank with considerable exposure of roots from upper riparian trees.		15' x 8' base <u>Boulder and Live Willow Log Deflector</u> to move flood flows off eroding streambank and create fish habitat (10 yds).	
212	MID 7985 P#1488	Mid channel live Willow rootball and trunk deflecting flows against right streambank.		Remove Willow and use live in construction at Right Bank 7930.	
213	LB 7930 - 8010	Well defined terrace covered in Blackberry.	Remove Himalayan Blackberry 80' x 60'.		Dogwood growing down in sandy terrace. Plant Santa Barbara Sedge, Creeping Wild Rye, Snowberry, Spicebush, Dogwood where invasives removed.
214	RB 8010	Severely eroding root mass of canopy trees on streambank point.		<u>Boulder Armor</u> lower root mass with 15 yds boulders and stabilize upper area with 3-20' <u>Live Willow Siltation Baffles</u> to prevent high flows from outflanking the root mass.	
215	LB 8015 - 8122 P#1489	15' vertical bare eroding streambank with endangered Oak cluster at 8060.		<u>Boulder Streambank Protection</u> to 4' high with sprigging in interstices.	
216	X 8060 P#1490	Eroding Oak cluster perched on stream bank. If toppled it will create large hole in streambank.		<u>Cross Channel Boulder V-Weir</u> 20 ft across and 10 x 5 up Left Bank, 5 x 5 on Right Bank. This will increase support for Oaks and encourage deposition of gravel behind the weir to cover scoured clay channel bottom (25 yds). To be cabled.	
217	RB 8010 - 8060	Large fallen Willow blocking channel.		Remove willow and use as live material in other structures.	Top of streambank area: plant Local Gooseberry selection, Red Fescue.
218	X 8125	Channel downcutting trend continues to and through clay.		<u>Cross Channel Boulder V-Weir</u> 25 ft across and 6 x 6 up Left Bank, 10 x 4 on Right Bank to reverse downcutting and recruit gravel (25 yds). To be cabled.	

219	LB 8173 P#1491	Fallen Bay tree with increased streambank erosion behind root ball.		<u>Cut bay tree out of creek. Boulder Streambank Protection on eroded bank (20' long to 7' height).</u>	
220	RB 8150-70		Remove Himalayan Blackberry 20' x 10'.		Replace with Santa Barbara Sedge, Dogwood, Spicebush, Snowberry, Miner's lettuce, Buckeye, Bay, Ash.
221	RB 8185 P#1492	Large Bay tree cluster with undercut eroding roots.	Remove Vinca on top of streambank.	Armor with <u>Live Woven Willow Wall: to be built in two tiers around tree, and one tier after tree. 115 ft of total wall to be built.</u>	Revegetate grove top of streambank with Snowberry, Santa Barbara Sedge.
222	RB 8235- 8255 P#1493	Bare eroding streambank.		Protect with <u>Live Willow Brush Mattress</u> 6' wide with boulder toe. Cross-channel V-weir just downstream of mattress (25 yds). To be cabled.	
223	LB 8335 P#1494	This area is messy and evolving with large amounts of drift debris and good vegetation. Stream flow drops into deep pool area of Napa River.	Remove plastic garbage.		Plant Alder at toe of streambank away from drift masses.
224	LB Upstream Napa River P#1495	8' cut streambank and dense mid channel vegetation.	Remove Black Locusts and Arundo Donax.	Install 3 <u>Live Willow Siltation Baffles</u> well keyed into vertical streambanks to deflect flow and build up lost terrace soils.	Large area to revegetate with Oaks, Bay and Under Story 1+ acre.

California Department of Fish and Game

Natural Diversity Database

Selected Elements by Common Name

POSSIBLE SPECIES WITHIN THE CALISTOGA AND SURROUNDING QUADS FOR:

SELBY CREEK RESTORATION AND REVEGETATION PROJECT

T8N. R6W, SEC 3 & 10; NAPA COUNTY

Common Name/Scientific Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Trachykele hartmani</i>	IICOLX6010			G1	S1	
2 <i>Vandykea tuberculata</i>	IICOLX7010			G1	S1	
3 American peregrine falcon <i>Falco peregrinus anatum</i>	ABNKD06071	Delisted	Endangered	G4T3	S2	
4 Baker's navarretia <i>Navarretia leucocephala ssp. bakeri</i>	PDPLM0C0E1			G4T2	S2.1	1B.1
5 California freshwater shrimp <i>Syncaris pacifica</i>	ICMAL27010	Endangered	Endangered	G1	S1	
6 California red-legged frog <i>Rana aurora draytonii</i>	AAABH01022	Threatened		G4T2T3	S2S3	SC
7 Calistoga ceanothus <i>Ceanothus divergens</i>	PDRHA04161			G2	S2.2	1B.2
8 Calistoga popcorn-flower <i>Plagiobothrys strictus</i>	PDBOR0V120	Endangered	Threatened	G1	S1.1	1B.1
9 Clara Hunt's milk-vetch <i>Astragalus claranus</i>	PDFAB0F240	Endangered	Threatened	G1	S1.1	1B.1
10 Coastal and Valley Freshwater Marsh	CTT52410CA			G3	S2.1	
11 Cobb Mountain lupine <i>Lupinus sericatus</i>	PDFAB2B3J0			G2	S2.2	1B.2
12 Colusa layia <i>Layia septentrionalis</i>	PDAST5N0F0			G2	S2.2	1B.2
13 Franciscan onion <i>Allium peninsulare var. franciscanum</i>	PMLIL021R1			G5T2	S2.2	1B.2
14 Freed's jewel-flower <i>Streptanthus brachiatus ssp. hoffmanii</i>	PDBRA2G071			G2T1	S1.2	1B.2
15 Hall's harmonia <i>Harmonia hallii</i>	PDAST650A0			G2	S2.2	1B.2
16 Jepson's leptosiphon <i>Leptosiphon jepsonii</i>	PDPLM09140			G2	S2.2	1B.2
17 Jepson's milk-vetch <i>Astragalus rattanii var. jepsonianus</i>	PDFAB0F7E1			G4T2	S2.2	1B.2
18 Kenwood Marsh checkerbloom <i>Sidalcea oregana ssp. valida</i>	PDMAL110K5	Endangered	Endangered	G5T1	S1.1	1B.1
19 Konocti manzanita <i>Arctostaphylos manzanita ssp. elegans</i>	PDERI04271			G5T2	S2.3	1B.3
20 Leech's skyline diving beetle <i>Hydroporus leechi</i>	IICOL55040			G1?	S1?	
21 Loch Lomond button-celery <i>Eryngium constancei</i>	PDAP10Z0W0	Endangered	Endangered	G1	S1.1	1B.1
22 Marin County navarretia <i>Navarretia rosulata</i>	PDPLM0C0Z0			G2?	S2?	1B.2
23 Marin checkerbloom <i>Sidalcea hickmanii ssp. viridis</i>	PDMAL110A4			G3T2	S2.2?	1B.3

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24 Napa blue grass <i>Poa napensis</i>	PMPOA4Z1R0	Endangered	Endangered	G1	S1.1	1B.1
25 Napa false indigo <i>Amorpha californica</i> var. <i>napensis</i>	PDFAB08012			G4T2	S2.2	1B.2
26 Napa western flax <i>Hesperolinon</i> sp. nov. " <i>serpentinum</i> "	PDLIN010D0			G2	S2.1	1B.1
27 Navarro roach <i>Lavinia symmetricus navarroensis</i>	AFCJB19023			G5T1T2	S1S2	SC
28 Northern Vernal Pool	CTT44100CA			G2	S2.1	
29 Ricksecker's water scavenger beetle <i>Hydrochara rickseckeri</i>	IICOL5V010			G1G2	S1S2	
30 Rincon Ridge ceanothus <i>Ceanothus confusus</i>	PDRHA041K0			G2	S2.2	1B.1
31 Rincon manzanita <i>Arctostaphylos stanfordiana</i> ssp. <i>decumbens</i>	PDERI041G4			G3T1	S1.1	1B.1
32 Russian River tule perch <i>Hysterocharpus traskii</i> <i>pomo</i>	AFCQK02011			G5T2	S2	SC
33 San Francisco lacewing <i>Nothochrysa californica</i>	IINEU12010			GNR	S1S3	
34 Sebastopol meadowfoam <i>Limnanthes vinculans</i>	PDLIM02090	Endangered	Endangered	G2	S2.1	1B.1
35 Serpentine Bunchgrass	CTT42130CA			G2	S2.2	
36 Snow Mountain buckwheat <i>Eriogonum nervulosum</i>	PDPGN08440			G2	S2.2	1B.2
37 Socrates Mine jewel-flower <i>Streptanthus brachiatus</i> ssp. <i>brachiatus</i>	PDBRA2G072			G2T1	S1.2	1B.2
38 Sonoma alopecurus <i>Alopecurus aequalis</i> var. <i>sonomensis</i>	PMPOA07012	Endangered		G5T1Q	S1.1	1B.1
39 Sonoma beardtongue <i>Penstemon newberryi</i> var. <i>sonomensis</i>	PDSCR1L483			G4T1	S1.3	1B.3
40 Sonoma ceanothus <i>Ceanothus sonomensis</i>	PDRHA04068			G2	S2.2	1B.2
41 Townsend's big-eared bat <i>Corynorhinus townsendii</i>	AMACC08010			G4T3T4	S2S3	SC
42 Valley Needlegrass Grassland	CTT42110CA			G1	S3.1	
43 Wildflower Field	CTT42300CA			G2	S2.2	
44 adobe-lily <i>Fritillaria pluriflora</i>	PMLILOV0F0			G2	S2.2	1B.2
45 bald eagle <i>Haliaeetus leucocephalus</i>	ABNKC10010	Threatened	Endangered	G5	S2	
46 bent-flowered fiddleneck <i>Amsinckia lunaris</i>	PDBOR01070			G2	S2.2	1B.2
47 black swift <i>Cypseloides niger</i>	ABNUA01010			G4	S2	SC

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48 double-crested cormorant <i>Phalacrocorax auritus</i>	ABNFD01020			G5	S3	SC
49 dwarf downingia <i>Downingia pusilla</i>	PDCAM060C0			G3	S3.1	2.2
50 few-flowered navarretia <i>Navarretia leucocephala</i> ssp. <i>pauciflora</i>	PDPLM0C0E4	Endangered	Threatened	G4T1	S1.1	1B.1
51 foothill yellow-legged frog <i>Rana boylei</i>	AAABH01050			G3	S2S3	SC
52 fringed myotis <i>Myotis thysanodes</i>	AMACC01090			G4G5	S4	
53 great blue heron <i>Ardea herodias</i>	ABNGA04010			G5	S4	
54 great egret <i>Ardea alba</i>	ABNGA05010			G5	S4	
55 green jewel-flower <i>Streptanthus breweri</i> var. <i>hesperidis</i>	PDBRA2G092			G5T2	S2.2	1B.2
56 holly-leaved ceanothus <i>Ceanothus purpureus</i>	PDRHA04160			G2	S2.2	1B.2
57 many-flowered navarretia <i>Navarretia leucocephala</i> ssp. <i>plieantha</i>	PDPLM0C0E5	Endangered	Endangered	G4T1	S1.2	1B.2
58 marsh checkerbloom <i>Sidalcea oregana</i> ssp. <i>hydrophila</i>	PDMAL110K2			G5T2?	S2?	1B.2
59 marsh microseris <i>Microseris paludosa</i>	PDAST6E0D0			G2	S2.2	1B.2
60 narrow-anthered California brodiaea <i>Brodiaea californica</i> var. <i>leptandra</i>	PMLIL0C090			G4?T2T3	S2S3.2	1B.2
61 narrow-leaved daisy <i>Erigeron angustatus</i>	PDAST3M5G0			G1	S1.2?	1B.2
62 northwestern pond turtle <i>Emys</i> (=Clemmys) <i>marmorata marmorata</i>	ARAAD02031			G3G4T3	S3	SC
63 oval-leaved viburnum <i>Viburnum ellipticum</i>	PDCPR07080			G5	S2.3	2.3
64 pallid bat <i>Antrozous pallidus</i>	AMACC10010			G5	S3	SC
65 pappose tarplant <i>Centromadia parryi</i> ssp. <i>parryi</i>	PDAST4R0P2			G4?T2	S2.2	1B.2
66 prairie falcon <i>Falco mexicanus</i>	ABNKD06090			G5	S3	SC
67 purple martin <i>Progne subis</i>	ABPAU01010			G5	S3	SC
68 saline clover <i>Trifolium depauperatum</i> var. <i>hydrophilum</i>	PDFAB400R5			G5T2?	S2.2?	1B.2
69 see individual subspecies! <i>Streptanthus morrisonii</i>	PDBRA2G0S0			G2	S2	

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70 serpentine cryptantha <i>Cryptantha clevelandii</i> var. <i>dissita</i>	PDBOR0A0H2			G5T1	S1.1	1B.1
71 sharp-shinned hawk <i>Accipiter striatus</i>	ABNKC12020			G5	S3	SC
72 showy indian clover <i>Trifolium amoenum</i>	PDFAB40040	Endangered		G1	S1.1	1B.1
73 slender silver-moss <i>Anomobryum julaceum</i>	NBMUS80010			G4	S1.3	2.2
74 small pincushion navarretia <i>Navarretia myersii</i> ssp. <i>deminuta</i>	PDPLM0C0X2			G1T1	S1.1	1B.1
75 small-flowered calycadenia <i>Calycadenia micrantha</i>	PDAST1P0C0			G2G3	S2S3.2	1B.2
76 steelhead-central California coast esu <i>Oncorhynchus mykiss irideus</i>	AFCHA0209G	Threatened		G5T2Q	S2	
77 tricolored blackbird <i>Agelaius tricolor</i>	ABPBXB0020			G2G3	S2	SC
78 two-carpellate western flax <i>Hesperolinon bicarpellatum</i>	PDLIN01020			G2	S2.2	1B.2
79 white-tailed kite <i>Elanus leucurus</i>	ABNKC06010			G5	S3	

122.5333333° W

122.5166666° W

122.5000000° W

Exhibit C
Selby Creek Restoration & Revegetation Project
Project Location Map
 T8N, R6W, Sec 3 & 10; Calistoga Quad
 Napa County

38.5833333° N

38.5833333° N

38.5666666° N

38.5666666° N

38.5500000° N

38.5500000° N

122.5333333° W

122.5166666° W

122.5000000° W

