

Final Recovery Plan for the Southern Oregon/ Northern California Coast Evolutionarily Significant Unit of Coho Salmon (*Oncorhynchus kisutch*)

2014

Photo courtesy Thomas Dunklin

Appendices

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Appendix A. Population Designation

The number of kilometers of habitat with Intrinsic Potential (IP-km) identified for some populations was updated from those values provided in Williams et al. (2008), due to previously unaccounted for natural barriers and other habitat-based information. Some of these updates resulted in changes to population classifications (i.e., functionally independent, potentially independent, dependent). Note that the updated IP-km values do not account for manmade barriers such as dams, which in some cases were considered when developing population spawner targets.

The amount of IP-km has been updated in nine of the populations since the public draft. The old and revised IP-km amounts are described in Table A-1, and the rationale for each change is explained in Section A.2.

Table A-1. Population-specific changes to IP-km due to natural barriers and population classification

Diversity Stratum	Population	Williams et al. (2008) IP-km with temperature mask	Updated IP-km	Williams et al. (2008) classification	Current classification
Northern Coastal	Elk River	62.64	-	F. Independent	F. Independent
	Mill Creek	7.25	0	Dependent	None
	Hubbard Creek	17.94	-	Ephemeral	Ephemeral
	Lower Rogue River	80.88	-	P. Independent	P. Independent
	Chetco River	135.19	-	F. Independent	F. Independent
	Winchuck River	56.5	-	P. Independent	P. Independent
	Brush Creek	5.68	-	Dependent	Dependent
	Mussel Creek	6.06	-	Dependent	Dependent
	Hunter Creek	14.63	-	Dependent	Dependent
	Euchre Creek	32.31	-	Ephemeral	Ephemeral
Pistol River	30.23	-	Dependent	Dependent	
Central Coastal	Smith River	385.71	324.84	F. Independent	F. Independent
	Lower Klamath River	204.69	-	F. Independent	F. Independent
	Redwood Creek	151.02	-	F. Independent	F. Independent
	McDonald Creek	5.44	2.77	Dependent	None
	Maple Creek/Big Lagoon	41.3	18.80	P. Independent	Dependent
	Little River	34.2	-	P. Independent	P. Independent
	Mad River	152.87	136.47	F. Independent	F. Independent
	Elk Creek	17.38	-	Dependent	Dependent
	Wilson Creek	18.8	-	Dependent	Dependent
	Strawberry Creek	5.71	6.95	Dependent	Dependent
Norton/Widow White Cr.	8.54	9.86	Dependent	Dependent	
Southern Coastal	Humboldt Bay tributaries	190.91	-	F. Independent	F. Independent
	Low. Eel/Van Duzen rivers	393.52	-	F. Independent	F. Independent
	Bear River	47.84	-	P. Independent	P. Independent
	McNutt Gulch	5.9	< 2.0	Dependent	None
	Mattole River	249.79	-	F. Independent	F. Independent
Guthrie Creek	14.16	13.82	Dependent	Dependent	
Interior – Rogue River	Illinois River	589.69	-	F. Independent	F. Independent
	Mid. Rogue/Applegate R.	758.58	683.16	F. Independent	F. Independent
	Upper Rogue River	915.43	900.9	F. Independent	F. Independent
Interior – Klamath River	Middle Klamath River	113.49	-	P. Independent	P. Independent
	Upper Klamath River	424.71	-	F. Independent	F. Independent
	Salmon River	114.8	113.48	P. Independent	P. Independent
	Scott River	440.87	250.53	F. Independent	F. Independent
	Shasta River	531.01	206.27	F. Independent	F. Independent
Interior – Trinity River	South Fork Trinity River	241.83	-	F. Independent	F. Independent
	Lower Trinity River	112.01	102.10	P. Independent	P. Independent
	Upper Trinity River	64.33	365	F. Independent	F. Independent
Interior – Eel River	South Fork Eel River	481.11	463.65	F. Independent	F. Independent
	Mainstem Eel River	143.9	68.35	P. Independent	P. Independent
	North Fork Eel River	53.87	-	P. Independent	P. Independent
	Mid. Fork Eel River	77.7	-	P. Independent	P. Independent
	Mid. Mainstem Eel River	255.5	231.53	F. Independent	F. Independent
Upper Mainstem Eel River	54.14	-	P. Independent	P. Independent	

A.1 Rationale for population-specific IP-km and classification changes

Northern Coastal Diversity Stratum

Mill Creek

A previously unaccounted for natural barrier at Garrison Lake excludes coho salmon from the watershed. Garrison Lake has a natural historic pattern of connection and disconnection to the ocean by a large sand bar. The watershed has been isolated from the ocean since sand dunes naturally migrated and filled the outlet stream in the mid-1900's (Maguire 2001). Anadromous fish do not currently occur in the Mill Creek watershed (Maguire 2001) and during periods of saltwater intrusion Garrison Lake likely has unsuitable conditions for juvenile rearing. Williams et al. (2006) determined that dependent populations must have at least 5 IP-km. After removing the IP-km in the lake and above it, the Mill Creek population has no IP-km and therefore does not meet the criterion for dependent populations.

Central Coastal Diversity Stratum

Smith River

Lake Earl and its associated stream network were removed from the Smith River IP calculations because the IP model was not intended for open water habitat. Williams et al. (2006) determined that independent populations must have at least 34 IP-km. After removing the IP habitat that occurs in Lake Earl and its associated stream network, the total amount of IP-km for the Smith River population remains high enough for it to qualify as an independent population.

McDonald Creek

Stone Lagoon was removed from the McDonald Creek IP-km calculations because the IP model was not intended for open water habitat. Williams et al. (2006) determined that dependent populations must have at least 5 IP-km. When the lagoon was accounted for, the amount of IP-km in the McDonald Creek population was reduced and did not meet the criteria for a dependent population.

Maple Creek/Big Lagoon

A previously unaccounted for natural barrier occurs 8,000 feet below the M-Line road crossing. A series of boulder rough falls form a 10-15% gradient and extend for 1,000 feet. No coho salmon have been found above the falls (Ryan Bourque, Green Diamond Resource Company, pers. comm. 9/26/13). When the IP-km for Maple Creek/Big Lagoon was decreased, the total amount of IP-km remained high enough for it to qualify as a dependent population.

Strawberry Creek

IP-km which should have been attributed to Strawberry Creek was previously attributed to the Mad River. Williams et al. (2006) determined that independent populations must have at least 34 IP-km. When the IP-km for Strawberry Creek was increased, it did not meet this criterion and so remained a dependent population.

Norton/Widow White Creek

IP-km which should have been attributed to Norton/Widow White Creek was previously attributed to the Mad River. Williams et al. (2006) determined that independent populations must have at least 34 IP-km. When the IP-km for Norton/Widow White Creek was increased, it did not meet this criterion and so remained a dependent population.

Mad River

IP-km which should have been attributed to Strawberry Creek and Norton/Widow White Creek was previously attributed to the Mad River. Williams et al. (2006) determined that independent populations must have at least 34 IP-km. When the IP-km for the Mad River was reduced, the total amount of IP-km for the Mad River population remains high enough for it to qualify as an independent population.

Southern Coastal Diversity Stratum

Guthrie Creek

Due to mapping errors the amount of IP-km originally attributed to Guthrie Creek was too high. Williams et al. (2006) determined that dependent populations must have at least 5 IP-km. When the IP-km for Guthrie Creek was decreased, the total amount of IP-km remained high enough for it to qualify as a dependent population.

McNutt Gulch

A previously unaccounted for 15-foot waterfall with bedrock canyon walls occurs 1.98 km upstream from the mouth of McNutt Gulch. The waterfall is the natural limit to anadromy (CalFish 2009) and is assumed to be the upstream limit of historic coho salmon occurrence in McNutt Gulch. When this natural barrier was accounted for, the amount of IP-km in the Middle McNutt Gulch population was reduced and did not meet the criterion for a dependent population.

Interior Rogue Diversity Stratum

Middle Rogue/Applegate Rivers

A previously unaccounted for waterfall occurs 1.7 miles upstream from the Applegate River at Little Applegate Falls. The falls appear to function as a complete barrier to adult coho salmon (Maiyo 2011). Williams et al. (2006) determined that independent populations must have at least 34 IP-km. When the IP-km for the Middle Rogue/Applegate Rivers population was reduced, the total amount of IP-km remained high enough for it to qualify as an independent population.

Upper Rogue River

IP-km previously attributed to the Upper Rogue River population area was removed because it occurred outside of the population boundary. Williams et al. (2006) determined that independent populations must have at least 34 IP-km. When the IP-km for the Upper Rogue River was

reduced, the total amount of IP-km remained high enough for it to qualify as an independent population.

Interior Trinity Diversity Stratum

Lower Trinity River

A previously unaccounted for boulder-roughs barrier occurs upstream of the Boise Creek confluence with Willow Creek. The barrier functions as a complete barrier to adult coho salmon (A. Collins, USFS, pers. comm.). Williams et al. (2006) determined that independent populations must have at least 34 IP-km. When the IP-km for the Lower Trinity River population was reduced, the total amount of IP-km remained high enough for it to qualify as an independent population.

Upper Trinity River

IP-km in the Upper Trinity River population was changed for two reasons: to account for the gradient of the stream under reservoirs, and because the temperature mask was not appropriate.

The IP model used the surface elevations of the reservoirs as the gradient for those areas of the basin, which artificially inflates the low risk spawner threshold. The historic channel gradient of the Upper Trinity was estimated, and revised IP-km was calculated for the area under the reservoirs. Williams et al. (2006) determined that independent populations must have at least 34 IP-km. After reducing the IP-km as a result of this reservoir analysis, the total amount of IP-km for the Upper Trinity River remained high enough for it to qualify as an independent population.

Because the temperature mask is based on air temperature, it does not account for snowmelt and other sources of cold water within the basin, including releases from Lewiston Dam. Numerous streams which are documented to presently support rearing coho salmon rearing occur under the temperature mask. Williams et al. (2006) recognized the potential limitations of the temperature mask approach in the Upper Trinity. The temperature mask was removed from the Upper Trinity River population, which increased the amount of IP-km in the Upper Trinity River population.

Interior Eel Diversity Stratum

South Fork Eel River and Mainstem Eel River

In response to co-manager comments submitted during the public comment period, NMFS considered 20 proposed natural barriers in the South Fork Eel River and 11 proposed natural barriers in the Mainstem Eel River. NMFS analyzed each proposed natural barrier and determined 24 of the 31 proposed natural barriers met NMFS' criteria. Williams et al. (2006) determined that independent populations must have at least 34 IP-km. After reducing the IP-km as a result of this analysis, the total amount of IP-km for the South Fork Eel River and the Mainstem Eel River population areas remained high enough for each to qualify as an independent population.

Upper Mainstem Eel River, Middle Mainstem Eel River, and Mainstem Eel River

In response to public comments regarding the intrinsic unsuitability of mainstem Eel River habitat for coho salmon, NMFS considered multiple factors that may have resulted in the prior inclusion of IP habitat that may be intrinsically unsuitable due to summer temperature. Factors considered included: 1) mean August air temperature data from Alderpoint, California; 2) the range of potential temperature masks considered in Williams et al. (2006); 3) solar heating due to river orientation; 4) natural valley width; 5) natural lack of riparian shade; 6) measured stream temperatures; and 7) lack of coho salmon presence in summer surveys. Based on the information provided, NMFS excluded the reach of the mainstem Eel River (excluding tributaries) extending from Cape Horn Dam to the westernmost extent of the 21.0 °C temperature mask identified in Williams et al. (2006) from spawner target calculations for each population.

Interior Klamath Diversity Stratum

Salmon River

In response to co-manager comments submitted during the public comment period, NMFS considered and accepted one previously unaccounted for natural barrier. Williams et al. (2006) determined that independent populations must have at least 34 IP-km. After reducing the IP-km as a result of this analysis, the total amount of IP-km for the Salmon River remained high enough for it to qualify as an independent population.

Scott River and Shasta River

In response to numerous comments regarding IP in the Scott River and Shasta River basins, NMFS evaluated IP designations for these populations on a reach-scale. NMFS followed three steps to evaluate IP in the Scott River and Shasta River basins: 1) compare reach-scale National Hydrography Dataset (NHD) stream locations to IP model results; 2) examine reference materials and the California Department of Fish and Wildlife's Calfish database to determine the current reach-scale distribution of anadromous salmonids (including coho salmon) and their habitat within the Shasta and Scott rivers; and, 3) visit sites in the field in these basins where IP has been questioned. The evaluation resulted in considerable changes to IP-km in both populations.

Step One: Comparing NHD and IP results

To compare the NHD dataset with IP model outputs, NMFS used the high-resolution version of the NHD dataset, and assumed that if the IP stream network output and NHD stream locations overlapped, or were found to be within 100-feet of each other, that they were in fact the same stream. This exercise identified areas in the IP stream network output that were inconsistent with stream locations described in the National Hydrography Dataset. Comparison between the NHD stream layers and IP stream network outputs found that, with the exception of the Shasta and Scott River, Independent Populations were consistent (overlapped) 94% on average (**Figure A-1**). The IP stream network output overlapped with the NHD stream layer well in confined areas, and tended to deviate more over the flat, low gradient areas that commonly provide high-quality rearing habitat for juvenile coho salmon. However, the overlap in the Shasta and Scott River basins was 53% and 69%, respectively. This low overlap between the NHD and IP occurred, in part, because these two basins have large low gradient valleys, often with multiple braiding

channels, and these channels were difficult to capture consistently between the two modeling exercises. The extent to which human alteration of historic stream channels is responsible for this deviation is difficult to discern.

Steps Two and Three: Considering references and field investigations

Once the degree of overlap between NHD and IP in the Scott River and Shasta River basins was identified (Figure A-2 and Figure A-3), NMFS evaluated whether to exclude certain stream reaches from IP based on whether a previously unidentified natural barrier exists. NMFS' analysis considered that natural barriers can exist due to a steep gradient, a physical blockage such as a boulder or gradient change, or the natural lack of sufficient flow in a reach. The latter may be caused not only by a lack of precipitation, but also by porous geology (Crandell 1989), volcanism, or major debris flows. As part of the evaluation of potential natural barriers, NMFS investigated the current distribution of coho salmon and their habitat (as an indicator of potential condition), as well as the degree of watershed disturbance influencing the reach, which is relevant to whether a barrier is of natural origin. Ultimately, NMFS' recommendation to remove some IP-km was based on evaluation of the best available scientific information, which includes NMFS' professional judgment.

NMFS' evaluation of these sources of information produced one of three outcomes at a reach scale:

- Complete or nearly complete alignment between IP and NHD;
- Lack of agreement between IP and NHD, based on small discrepancies that could be resolved with additional resources.
- Lack of agreement between IP and NHD that could not be resolved. In some cases, streams/stream reaches could not be resolved with a defensible determination of how IP should be adjusted. In those cases, NMFS removed IP where additional resources provided compelling justification to do so.

Examples of the first outcome include the eastside drainages in the Scott River, and the southeast and eastside drainages in the Shasta River. In these areas, there is neither the geology nor residual riparian habitat to sustain surface flow. In some instances, human activities have exacerbated such conditions (*e.g.*, eastside drainages of the Scott Basin). Where geologic and associated hydrologic limitations pose a natural barrier to coho salmon, NMFS removed these reaches from the IP stream network.

Examples of the second outcome are Moffett Creek in the Scott River and Parks Creek in the Shasta River. Though Moffett Creek is not currently considered a coho salmon stream, there is no physical evidence suggesting why it did not previously support coho salmon, and why it could not do so in the future. NMFS used available information to remove IP at a reach-scale in the upper Moffet Creek Basin. In Parks Creek, coho salmon have not recently been observed greater than a mile or two upstream from the I-5 crossing. However, as there is no natural barrier precluding coho salmon presence, NMFS elected to retain these areas within IP.

An example of the third outcome is Willow Creek (near Grenada) in the southwest portion of the Shasta River Basin. Irrigation infrastructure has rendered Willow Creek’s drainage network almost unrecognizable compared to historic conditions, though it’s late fall/winter surface flow is still occasionally considerable. NMFS removed a portion of IP in Willow Creek where agreement between IP and NHD diverged repeatedly.

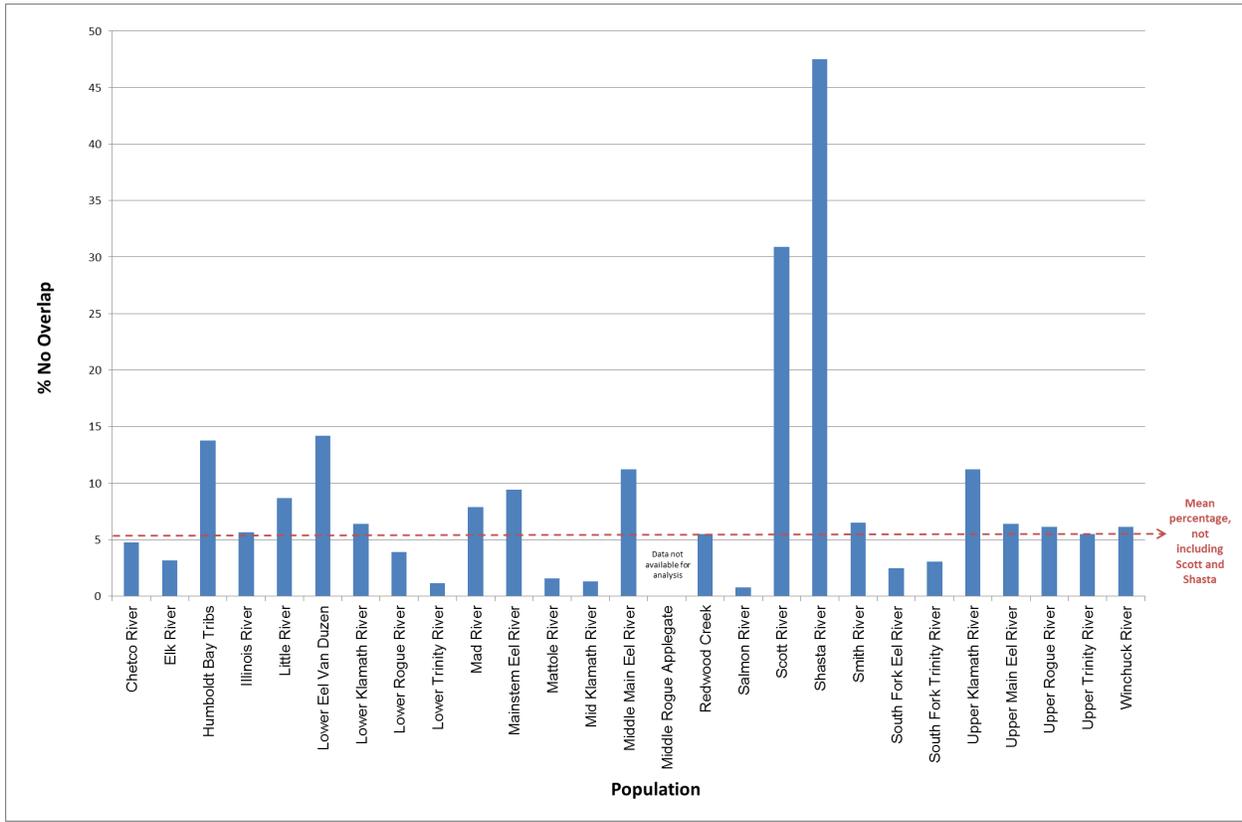


Figure A-1. Percentage of stream lengths for independent populations within the SONCC coho salmon evolutionarily significant unit (ESU) where the National Hydrography Dataset (NHD) of stream layers and Intrinsic Potential (IP) model outputs deviate from each other, indicating potential errors in the IP model output.

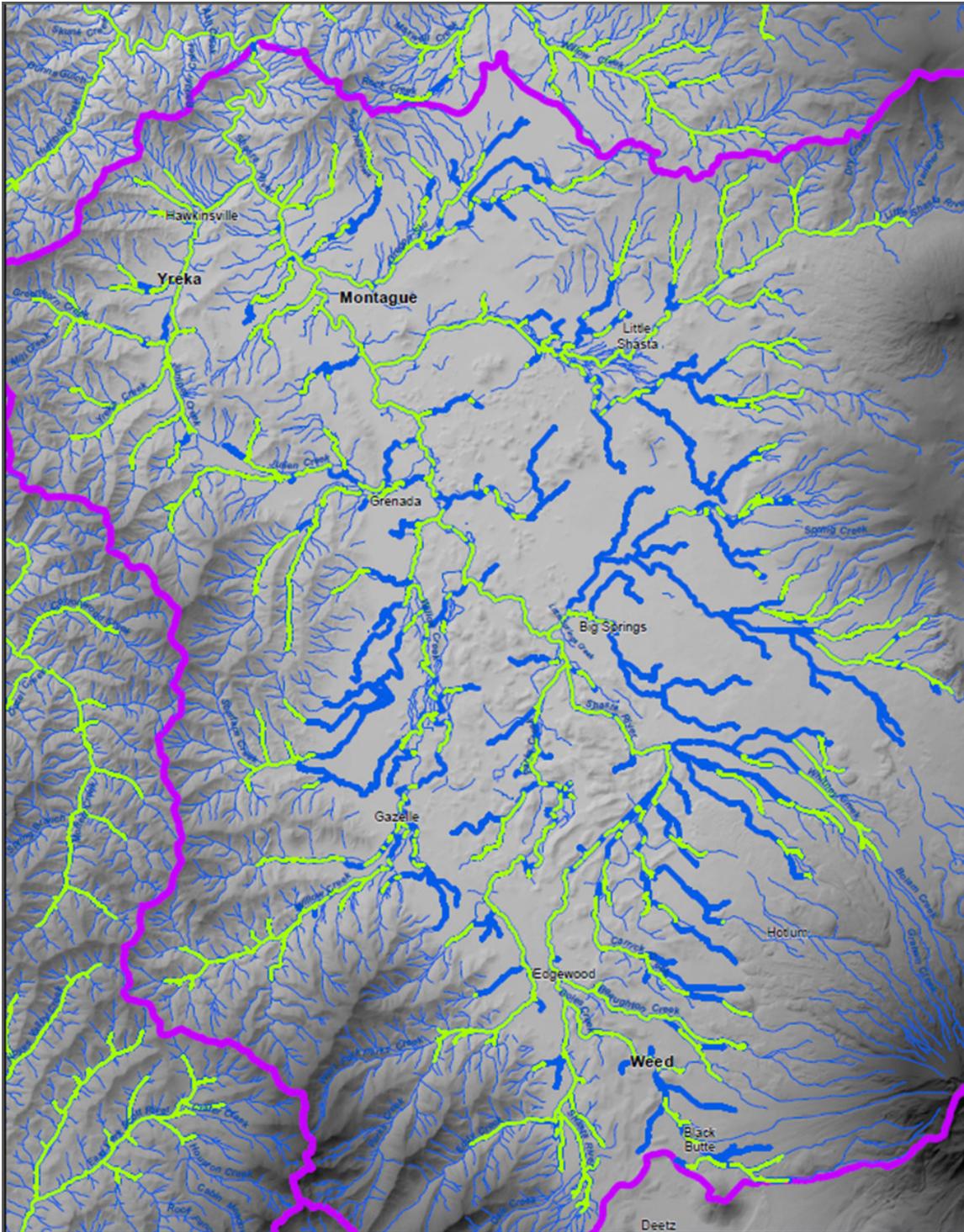


Figure A-2. Map of the Shasta River watershed depicting the results of the comparison between the NHD stream layers and Intrinsic Potential (IP) outputs for coho salmon. Green highlights show areas where IP outputs overlap, or are consistent with the NHD stream layer. Blue highlights depict areas where IP and NHD are inconsistent.

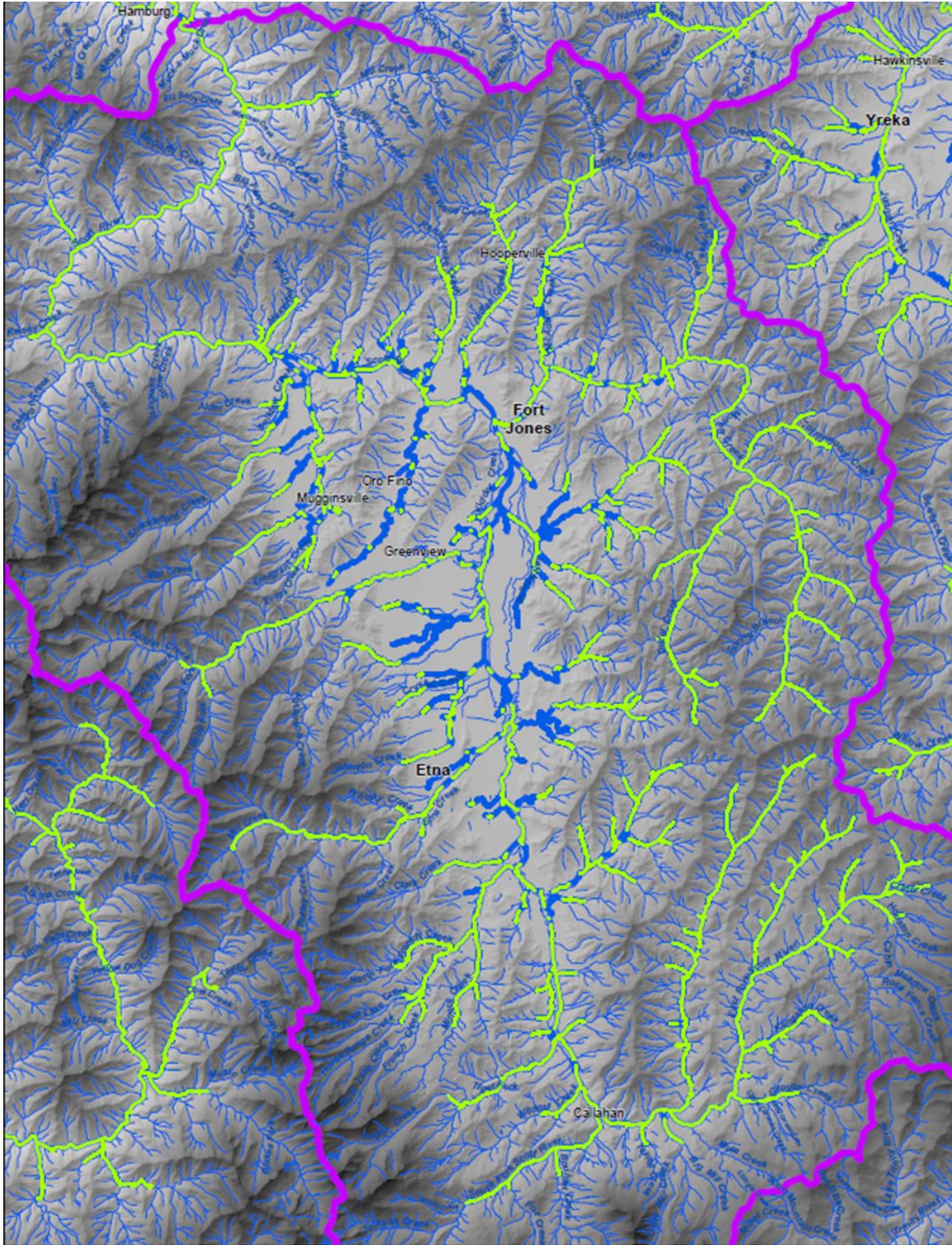


Figure A-3. Map of the Scott River watershed depicting the results of the comparison between the NHD stream layers and Intrinsic Potential (IP) outputs for coho salmon. Green highlights show areas where IP outputs overlap, or are consistent with the NHD stream layer. Blue highlights depict areas where IP and NHD are inconsistent.

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Appendix B. Stress and Threat Analysis Methodology

NMFS used several tools to develop and perform a threat and stress assessment, and to develop methods to score additional threat and stress categories. These tools included The Nature Conservancy's Conservation Action Planning (CAP) process, best professional judgment, climate change models and predictions, and empirical data. NMFS used these tools to ascertain current watershed condition, identify severity and scope of stresses, assess the contribution and irreversibility of identified threats, create additional threat and stress categories, and develop population profiles for each population in the SONCC coho salmon ESU. NMFS used the CAP process as a conceptual framework for the threats assessment. The threats assessment process spanned four years and the methodology evolved over time in response to new information, to incorporate new stresses and threats, and in recognition of the limitations of the initial tools (Table B-1).

The use of best professional judgment, in consideration of available data, underlies the entire threat and stress assessment process. Empirical data were acquired, compiled into a database, summarized, and then entered into an initial set of CAP workbooks. Stress and threat ratings in the CAP workbooks were then revised to include professional judgment for additional stresses and threats. NMFS then utilized best professional judgment to assess the accuracy and reliability of the resulting CAP summary tables, produce a comprehensive stress and threat assessment, and develop individual population profiles that detail the current condition of each population area.

The following sections summarize the components of the stress and threats methodology, including the development of the initial CAP workbooks, revision of the CAP workbooks, creation of GIS maps, refinement of the stress and threat summary tables, additional analyses conducted in response to public comment, and the development of additional stress and threat categories (climate change, estuary/mainstem condition, and fishing/collecting).

Table B-1. Methods used by NMFS to assess stresses.

Stress	Assessment Methods			
	Initial CAP	Revised CAP	Stress Summary Tables	
			2012 Draft Plan	Final Plan
Adverse Fishery-Related Effects	Not included	Not included	Professional judgment	Assessment framework with numeric indicators and professional judgment
Adverse Hatchery-Related Effects	Not included	Professional judgment	Professional judgment	Professional judgment
Altered Hydrologic Function	Qualitative indicators	Professional judgment, qualitative indicators	Professional judgment, qualitative indicators	Assessment framework with numeric indicators and professional judgment
Altered Sediment Supply	Numeric indicators	Numeric indicators, professional judgment	Numeric indicators, professional judgment	Numeric indicators, professional judgment
Barriers	Numeric indicators	Numeric indicators, professional judgment	Numeric indicators, professional judgment	Numeric indicators, professional judgment
Degraded Riparian Forest Conditions	Numeric & qualitative indicators	Numeric & qualitative indicators, professional judgment	Numeric & qualitative indicators, professional judgment	Numeric & qualitative indicators, professional judgment
Impaired Estuary/Mainstem Function	Not included	Not included	Professional judgment	Professional judgment
Impaired Water Quality	Numeric indicators	Numeric indicators, professional judgment	Numeric indicators, professional judgment	Numeric indicators, professional judgment
Increased Disease/Predation/Competition	Not included	Numeric indicators, professional judgment	Numeric indicators, professional judgment	Numeric indicators, professional judgment
Lack of Floodplain and Channel Structure	Numeric & qualitative indicators	Numeric & qualitative indicators, professional judgment	Numeric & qualitative indicators, professional judgment	Numeric & qualitative indicators, professional judgment

Table B-2. Methods used by NMFS to assess threats.

Threat	Assessment Methods			
	Initial CAP	Revised CAP	Threat Summary Tables	
			2012 Draft Plan	Final Plan
Agricultural Practices	GIS analyses	GIS analyses, professional judgment	GIS analyses, professional judgment	GIS analyses, professional judgment
Channelization/Diking	GIS analyses	GIS analyses, professional judgment	GIS analyses, professional judgment	GIS analyses, professional judgment
Climate Change	Not included	Professional judgment	Computer models, professional judgment	Computer models, professional judgment
Dams/Diversion	Not included	Professional judgment	Professional judgment	Assessment framework with numeric indicators and professional judgment
Fishing and Collecting	Not included	Professional judgment	Professional judgment	Assessment framework with numeric indicators and professional judgment
Hatcheries	Not included	Professional judgment	Professional judgment	Professional judgment
High Severity Fire	Not included	Professional judgment	Professional judgment	Professional judgment
Invasive Non-Native/Alien Species	Not included	Professional judgment	Professional judgment	Professional judgment
Mining/Gravel Extraction	Not included	Professional judgment	Professional judgment	Professional judgment
Roads	GIS analyses	GIS analyses, professional judgment	GIS analyses, professional judgment	GIS analyses, professional judgment
Road-Stream Crossing Barriers	Not included	Professional judgment	Professional judgment	Professional judgment
Timber Harvest	Not included	Professional judgment	Professional judgment	Assessment framework with numeric indicators, and professional judgment
Urban/Residential/Industrial	GIS analyses	GIS analyses, professional judgment	GIS analyses, professional judgment	GIS analyses, professional judgment

B.1 Background Information about the CAP Process

As part of the assessment of the viability and condition of SONCC coho salmon populations and their habitat in the SONCC ESU, NMFS performed a series of conservation planning and assessment exercises based upon the Nature Conservancy's Conservation by Design concept (TNC 2006). This concept utilizes Conservation Action Planning (CAP) tools and workbooks to develop a threat and stress assessment. The CAP process is designed to recognize the shifting nature of knowledge and the challenges that causes, by allowing for a regular, iterative process of successive approximations (TNC 2006). The CAP process provided NMFS with a tool to capture the best understanding of the current situation, and develop a set of recovery actions built on that understanding. This understanding included the use of NMFS' best professional judgment and other tools. NMFS utilized this process to identify conservation targets, assess the current status of the selected targets, identify critical threats and stresses occurring in the landscape, and develop a threat and stress assessment that described current population and environmental conditions across the landscape.

NMFS completed the following planning and assessment activities:

1. Identified conservation targets
2. Assessed the current status of conservation targets
3. Determined potential stresses and threats
4. Compiled available literature, empirical data, and best professional knowledge on the condition of the landscape
5. Rated these stresses and threats across the landscape
6. Developed recovery actions to decrease or eliminate the stresses and threats.

The first step in the process was to identify the conservation targets, which were the life stages of coho salmon in the SONCC coho salmon ESU. Next, NMFS assessed the current status of conservation targets by reviewing all available monitoring data on coho salmon population trends.

NMFS then used the best available information to identify the stresses affecting coho salmon populations and the sources of the stresses, also known as threats. Most stresses are caused by incompatible human uses of land, water and natural resources. Stresses destroy, degrade or impair conservation targets by impacting a key ecological attribute relating to their size, condition or landscape context (TNC 2006). Natural factors such as rainfall and marine productivity (ocean conditions, El Niño) were identified as factors for the decline of the SONCC coho salmon ESU (62 FR 24588; May 6, 1997). NMFS elected to not describe these natural factors as threats in this recovery plan for two reasons. First, SONCC ESU coho salmon evolved to live with natural variation in rainfall and marine productivity, and it was likely a combination of these factors with habitat degradation, fishing, and other human-caused threats that led to their decline. Populations that are fragmented or reduced in size and range are more vulnerable to

extinction by natural events (62 FR 24588, May 6, 1997), and NMFS chose to focus on the causes of population fragmentation and reduced size rather than natural factors. Second, there is little that recovery actions can do to affect change in natural factors such as rainfall or marine productivity. NMFS developed recovery actions to reduce the detrimental effects of the result of that rainfall (e.g., droughts and floods). For example, water resources can be managed to ensure sufficient water remains in waterways when coho salmon need it even during drought conditions, and land can be managed to promote bank stability and reduce the likelihood that floods will release large amounts of sediment into coho salmon habitat. Similarly, in years when marine productivity is expected to be poor, fishing effort can be moderated to allow sufficient spawner escapement, as described in the current management of ocean salmon fisheries (Sharr et al. 2000). In short, the recovery plan addresses the causes of population fragmentation and decline that can be improved by human actions. Therefore, stresses are the destruction, degradation or impairment of SONCC ESU coho salmon habitats and ecosystem processes caused directly or indirectly by human sources. A threat is the proximate cause of a stress. The stresses and threats considered are either current or have high potential to occur in the next ten years¹³ under current circumstances and management (TNC 2006). Ten years was chosen to capture reasonably foreseeable events in the near future. The threats and stresses selected for inclusion in the CAP workbooks are the same as those identified at the time of listing. Eight stresses and 11 threats were identified and analyzed using the CAP toolbox (Table B-1 and Table B-2). After completing the CAP exercises, three additional categories were created and assessed using the other tools available. More information on these additional threats and stresses are explained later.

After threats and stresses were selected, a large amount of data, literature, and other information were acquired to inform the assessment of stresses and threats. The CAP process uses a simple grading scale to assess the current status of threats and stresses –Very High, High, Medium, Low. This four-part ranking scale is based on over 20 years of similar application by natural heritage inventory programs throughout the United States (TNC 2003). It provides a sufficient degree of distinction among the four scores and allows for a reasonable confidence level, while recognizing the lack of the information that would be needed to provide more precise rankings (TNC 2003). The final step was to develop a list of recovery actions designed to decrease or eliminate the stresses and threats. These actions were prioritized to address the most important stresses and threats and to focus effort on the coho salmon populations with the most promising prospects for recovery.

B.2 Development of Initial CAP Workbooks Based on Data

The initial CAP workbooks were produced using only empirical data , with the exception of inclusion of pre-existing USFS and ODFW professional judgments.

For the six stresses included in the initial set of CAP workbooks, one or more indicators of aquatic habitat suitability were used to quantitatively assess each stress. To minimize data gaps, the list of indicators was tailored to match the specific data metrics widely available for populations in the SONCC coho salmon ESU, rather than a comprehensive list which would

¹³ 50 years was used for climate change given the longer-term nature of changes in its effects.

include indicators only available for some populations. For each indicator, NMFS developed a set of benchmarks for rating habitat suitability for coho salmon on a four-category scale (poor, fair, good, very good) based on the best available scientific literature (Kier Associates and NMFS 2008)(Table B-3). A few of the indicators reflect previous professional judgments by USFS and ODFW and so are not quantitative. In addition, some threats were quantitatively assessed using GIS analyses (Table B-4).

Table B-3. Indicators of aquatic habitat suitability for coho salmon, with reference values. Table adapted from Kier Associates and NMFS (2008).

Stress	Indicator	Poor	Fair	Good	Very Good
Altered Hydrologic Function	Flow Restoration Needs (ODFW judgment)	3.5-4	2.5-3.5	1.5-2.5	1-1.5
Altered Hydrologic Function	Water Quantity/Flow Regime (USFS judgment)	Altered	Partially Altered		Unaltered
Altered Sediment Supply	Embeddedness (%)	>45%	30.1-45%	25.1-30%	<=25 %
Altered Sediment Supply	Fines (Dry Sample) (% <1 mm)	>12.6%	11.1-12.6%	8.9-11.1%	<8.9%
Altered Sediment Supply	Fines (Wet Sample) (% <1 mm)	>17%	15-17%	12-15%	<12%
Altered Sediment Supply	Sand (Dry Sample) (% <6.4 mm)	>25.8%	21.5-25.8%	12.9-21.5%	<12.9%
Altered Sediment Supply	Sand (Wet Sample) (% <6.4 mm)	>30%	25-30%	15-25%	<15%
Altered Sediment Supply	Silt/Sand Surface (% riffle area)	>17	15-17	12-15	<12
Altered Sediment Supply	Turbidity (hours/year >25 FNU)	>720	361-720	120-360	<120
Altered Sediment Supply	VStar	>0.25	0.21-0.25	0.15 - 0.21	<0.15
Barriers	Fish Passage (% of Dry Habitat Types)	>5%	1-5%	<1%	0%
Degraded Riparian Forest Conditions	Canopy Cover (% Shade)	<60% shade	60-70% shade	70.1-80% shade	>80% shade
Degraded Riparian Forest Conditions	Canopy Type (% Open + Hardwood)	>40%	30-40%	20-30%	<20%
Degraded Riparian Forest Conditions	Riparian Condition (conifers >36" dbh / 1000ft)	<75	75.0-125	125-200	>200
Degraded Riparian Forest Conditions	Stream Corridor Vegetation (USFS judgment)	Impaired	Functioning At-risk		Properly Functioning
Impaired Water Quality	Aquatic Invertebrates (B-IBI NorCal)	<40	40-60	60.1-80	>80
Impaired Water Quality	Aquatic Invertebrates (EPT)	<=12	12.1-17.9	18-2523	>23

Stress	Indicator	Poor	Fair	Good	Very Good
Impaired Water Quality	Aquatic Invertebrates (Rich)	<25	25-30	30-40	>40
Impaired Water Quality	D.O. (COLD) (mg/l 7-DAMin)	<6.0 mg/l	6-6.5 mg/l	6.5-7.0 mg/l	>7.0 mg/L
Impaired Water Quality	D.O. (SPAWN) (mg/l 7-DAMin)	<9 mg/l	9-10 mg/l	10-11 mg/l	>11.0 mg/l
Impaired Water Quality	pH	>8.75	8.5-8.75	8.25-8.5	<8.25
Impaired Water Quality	pH (annual maximum)	>8.75	8.5-8.75	8.25-8.5	<8.25
Impaired Water Quality	Temperature (MWAT) (C)	>17°C	16-17°C	15-16°C	<15°C
Impaired Water Quality	Temperature (MWMT) (C)	>18.3°C	17-18.3°C	16-17°C	<16°C
Lack of Floodplain and Channel Structure	D50 (median particle size) (mm)	<38 or >128	38-50 or 110-128	50-60 or 95-110	60-95 mm
Lack of Floodplain and Channel Structure	Floodplain Connectivity (USFS judgment)	Impaired	Functioning At-risk		Properly Functioning
Lack of Floodplain and Channel Structure	Pool Depth (Ave. in Feet)	<2 Ft	2-3 ft	3-3.3 ft	> 3.3 ft.
Lack of Floodplain and Channel Structure	Pool Frequency (% by Area)	<10%	10-20%	20-35%	>35%
Lack of Floodplain and Channel Structure	Pool Frequency (% by Length)	<35%	35-40%	40-50%	>50
Lack of Floodplain and Channel Structure	Wood Frequency ODFW (key pieces/100m)	>1	1-2	2-3	>3
Lack of Floodplain and Channel Structure	Wood Frequency USFS: streams <20 ft. wide	>35 pieces/mi	35-53	54-84	<85
Lack of Floodplain and Channel Structure	Wood Frequency USFS: streams >30 ft. wide	>16 pieces/mi	16-33	33-60	<60
Lack of Floodplain and Channel Structure	Wood Frequency USFS: streams 20-30 ft	>25 pieces/mi	26-36	37-64	<65

Table B-4. Quantitative metrics used to assess threats. Table from Kier Associates and NMFS (2008).

Threat	Metric	Low	Medium	High	Very High
Timber Harvest	Harvested area, as percent of watershed	<10%	10-25%	25-35%	>35%
Agricultural Practices	Pasture/hay and cultivated crops, as a percent of watershed	<2%	2-5%	5-10%	>10%
Roads	Road Density (mi/sq. mi)	<1.6	1.6-2.5	2.5-3.0	>3.0
Urban/Residential/Industrial	Total impervious area, as a percent of watershed	<5%	5-10%	10-25%	>25%

Indicator and threat data were acquired, reformatted, and compiled into a Microsoft Access database. Data were tagged with stream name and either spatial coordinates or GIS-linked stream reach codes (LLID), so that summaries for SONCC CAP populations or other spatial units could be produced as needed.

Data were gathered from all available sources including grey literature, peer reviewed literature, monitoring and research efforts, and county and state planning efforts. Data contributors include the California Department of Fish and Wildlife (CDFW), Oregon Department of Fish and Wildlife (ODFW), U.S. Forest Service (USFS) Region 5 (R5) and Region 6 (R6), California State Water Resources Control Board (SWRCB), Oregon Department of Environmental Quality (ODEQ), California Department of Forestry and Fire Protection (CAL-FIRE), U.S. Environmental Protection Agency (EPA), the Bureau of Reclamation (Reclamation), the Bureau of Land Management (BLM), the U.S. Fish and Wildlife Service (USFWS), the Yurok Tribe, Karuk Tribe, Hoopa Valley Tribe, Resource Conservation Districts (RCDs), Utah State University’s (USU) Bug Lab, Klamath Resource Information System (KRIS), the Conservation Biology Institute, South Coast and Lower Rogue Watershed Councils, Mattole Restoration Council, Mattole Salmon Group, and other contributors. A complete list of datasets is included in Appendix C.

A master CAP workbook template was created. Then a set of custom Python computer programs was used to summarize information from the database to the population level and transfer the summaries into a separate CAP workbook for each population. This methodology ensured that all workbooks used the same criteria and setup, and avoided labor-intensive and error-prone manual data entry. The initial set of CAP workbooks for each population was created in June 2007.

B.3 Revised CAP workbooks Incorporating Professional Judgment

Data were lacking for some indicators and threats that are recognized as affecting coho salmon or their habitats. NMFS staff conducted an extensive review of literature for SONCC coho salmon population watersheds to derive values for those factors. Documents included federal agency watershed analyses, TMDL reports, restoration plans and locally-driven watershed assessments. These supplementary data were then incorporated into the Microsoft Access database and a revised set of CAP workbooks was created in November 2008. This set of workbooks considered NMFS professional judgment in addition to available empirical data. If available empirical data were incomplete, e.g., from only one side of the watershed, NMFS

applied its specialized knowledge of the area to determination the appropriate ratings for stresses and threats.

B.4 GIS Maps

NMFS also created GIS (Geographic Information System) maps using the instream monitoring and landscape data compiled for each population. These maps are available upon request from the SONCC recovery coordinator in Adobe Acrobat (PDF) format and are designed to be used as electronic documents, not printed. The many layers in the maps can be toggled on/off and users can zoom in to see more detail. There are two PDF maps included for each population. The main set of maps contains the stress and threat data, in addition to base layers such as coho IP and streams, and was completed in May 2010. The second set of maps was completed in December 2009 and includes canopy change over various time periods and tree size. These maps are described in Appendix I and were used to analyze and interpret habitat condition across the landscape. Additionally, boundary maps for each population unit showing land ownership, coho distribution, and IP habitat are included as the first figure in each population profile.

B.5 Creation of Stress and Threat Summary Tables for the 2012 Public Draft and Final Recovery Plan

The CAP workbooks produced summary tables that display the ranking for identified threats and stresses, the severity of the impact on each life stage (egg, juvenile, smolt, adult), and an overall ranking. One summary table for threats and one summary table for stresses are provided for each independent and dependent population (e.g., Table B-5 and Table B-6).

Table B-5. Example of summary table for identified stresses. Note: table contains ranks for stress Impaired Estuary/Mainstem Function that was not included in the CAP workbooks.

Stresses		Egg	Fry	Juvenile ¹	Smolt	Adult	Overall Stress Rank
1	Lack of Floodplain and Channel Structure ¹	High	High	Very High ¹	Very High	Very High	Very High
2	Impaired Water Quality ¹		High	Very High ¹	High	Low	High
3	Degraded Riparian Forest Conditions	-	High	High	High	Medium	High
4	Impaired Estuary/Mainstem Function	-	Low	Medium	High	Low	Medium
5	Altered Hydrologic Function	Low	Low	High	Medium	Medium	Medium
6	Altered Sediment Supply	Medium	Medium	Medium	Low	Medium	Medium
7	Barriers	-	Medium	Medium	Low	Medium	Medium
8	Adverse Hatchery-Related Effects	Low	Low	Low	Low	Low	Low
9	Increased Disease/Predation/Competition	Low	Low	Low	Low	Low	Low
10	Adverse Fishery- and Collection-Related Effects	-	-	Low	Low	Low	Low

¹Key limiting stresses and limited life stage.

Table B-6. Example of summary table for identified threats. Note: table contains ranks for the threats Fishing and Collecting and Climate Change that were not included in the CAP workbooks.

Threats		Egg	Fry	Juvenile ¹	Smolt	Adult	Overall Threat Rank
1	Agricultural Practices ¹	High	Very High	Very High ¹	Very High	Very High	Very High
3	Channelization/Diking ¹	High	High	High ¹	Medium	Medium	High
2	Dams/Diversions	Low	Medium	High	High	Medium	High
4	Road/Stream Crossing Barriers	-	Low	High	Medium	High	High
5	Roads	Low	Medium	Medium	Medium	Medium	Medium
6	Timber Harvest	Medium	Medium	Medium	Medium	Low	Medium
7	Invasive/Non-Native Alien Species	-	Medium	Medium	Medium	Medium	Medium
8	Climate Change	-	-	Medium	Medium	Medium	Medium
9	High Severity Fire	Low	Low	Low	Low	Low	Low
10	Hatcheries	Low	Low	Low	Low	Low	Low
11	Mining/Gravel Extraction	Low	Low	Low	Low	Low	Low
12	Urban/Residential/Industrial Dev.	Low	Low	Low	Low	Low	Low
13	Fishing and Collecting	-	-	Low	Low	Low	Low

¹Key limiting threats and limited life stage.

After the summary tables were developed, NMFS used best professional judgment to further assess the severity of the identified threats and stresses. Best professional judgment was employed to verify the CAP results, override results known to be erroneous, or include information where no current data are available. While empirical data are the preferred information with which to conduct population area condition assessments, develop indicator criteria, and evaluate threats and stresses in an area, these data are not always available or may be too old for current uses. This was the case in many areas in the SONCC coho salmon ESU. In such cases, NMFS used professional judgment to improve the accuracy of the threat and stress assessment. The summary tables were also revised in response to a subset of public comments.

B.5.1 Analyses of Stresses and Threats Added to Final Plan

To strengthen the technical basis for the recovery plan, and to respond to comments received on the public draft of the recovery plan, NMFS developed and implemented frameworks to re-evaluate several stresses and threats in a more quantitative and comprehensive fashion than had been conducted previously. These new analyses were performed on the stress of altered hydrologic function and the threats of dams/diversions and timber harvest. The following sections provide brief overviews of the analyses, with full details available in separate documents (Asarian 2014 and NMFS 2014).

Altered Hydrologic Function and Dams and Diversions

The stress of altered hydrologic function is strongly affected by the threat of dams and diversions; therefore, NMFS assessed them together in a combined analysis (Asarian 2014). The final products of the analysis were stress ranks for ‘altered hydrologic function’ and threat ranks for ‘dams and diversions’ for each coho salmon population and life stage. These ranks (i.e., very high, high, medium, or low) are professional judgments that are informed by a wide variety of information and detailed analyses, as summarized in Figure B-1. The resulting threat ranks were provided to NMFS staff for use in the recovery plan; however, NMFS allowed population profile authors to use professional judgment to over-ride these ranks, because the relatively coarse nature of this analysis does not take all relevant factors into account.

Various data sources were used to calculate indicators of the magnitude of the hydrologic alteration, as well as other effects of dams and diversions such as fish passage barriers. Some indicators were relatively simple to calculate while others required a series of complicated analytical steps. The diagram in Figure B-2 summarizes the data sources and calculation methods for each indicator. After indicators values were calculated, they were then rated on a four-category scale (very good, good, fair, poor), according to rules (i.e., category definitions) that were based on a combination of literature and professional judgment (Table B-7 and Table B-8). As an illustration of one example indicator, Figure B-3 maps the long-term (1953 to 2012) trend in minimum 30-day average streamflow. Besides the indicators listed in Figure B-2, supplemental analyses of streamflow and precipitation were also conducted and are presented in the report; however, these were only tangentially considered in the judgment process.

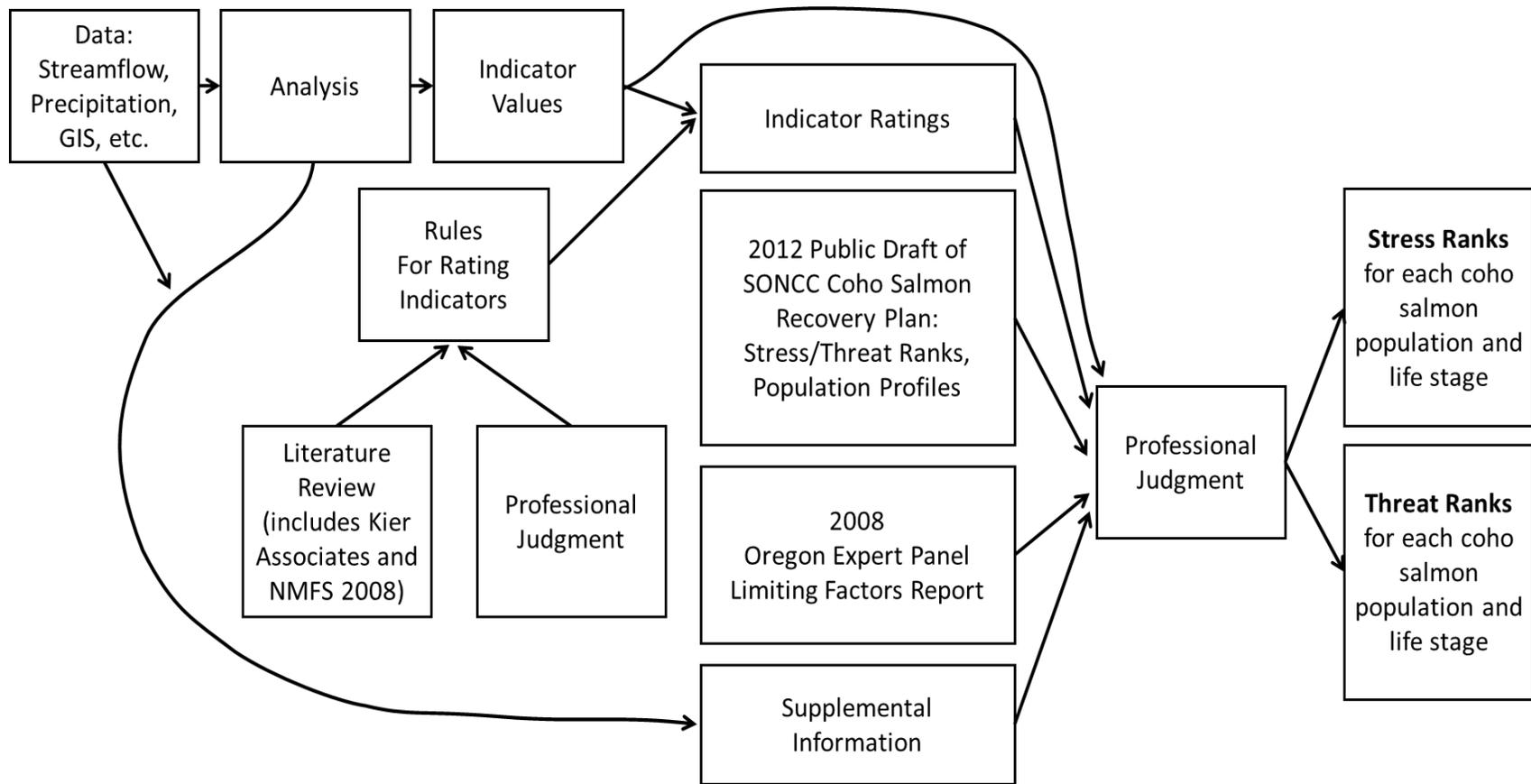


Figure B-1. Summary of process used to inform professional judgments and derive stress ranks for ‘altered hydrologic function’ and threat ranks for ‘dams and diversions’.

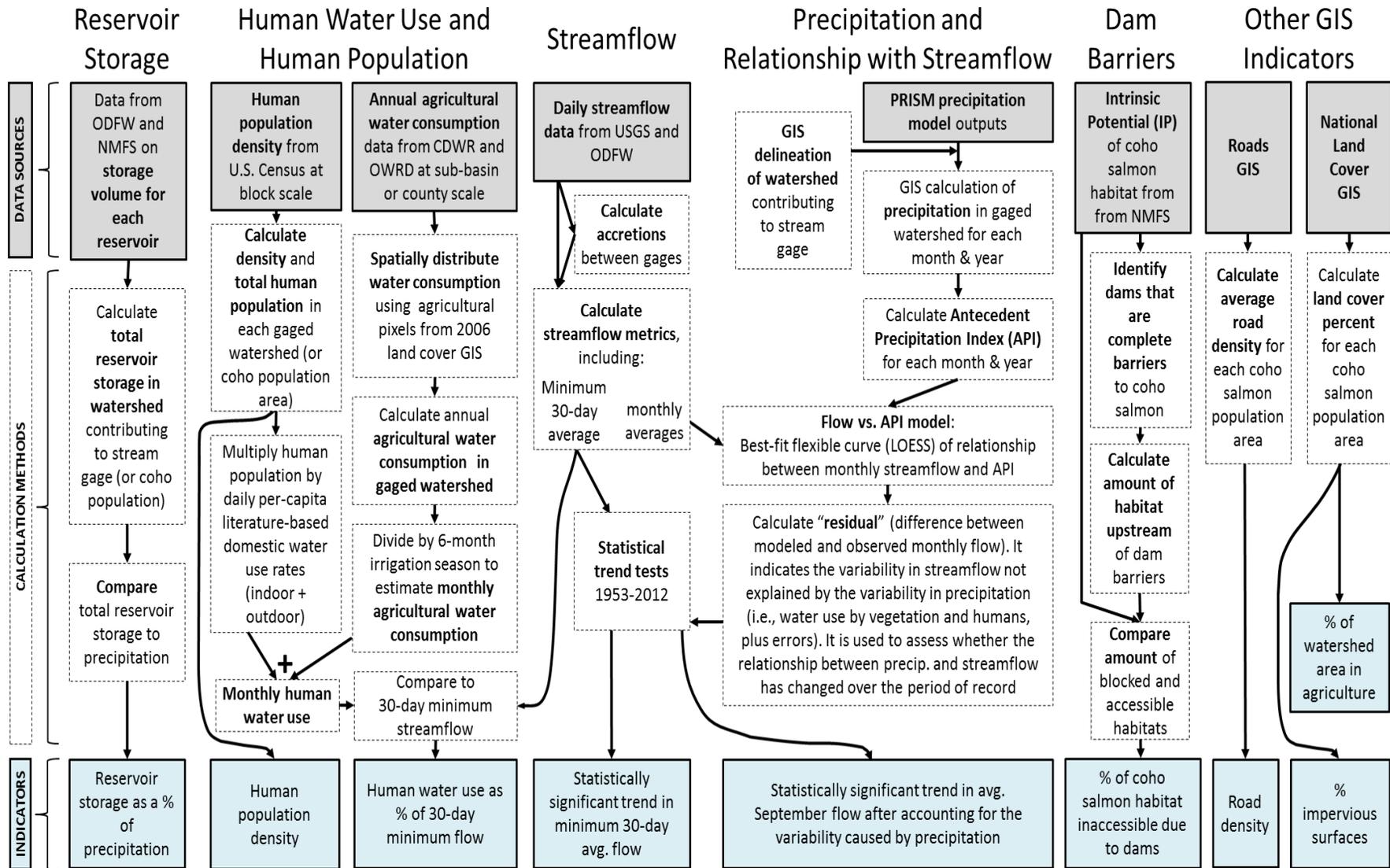


Figure B-2. Diagram summarizing the data sources (gray boxes at top) and calculation methods (hollow boxes in middle) used for each indicator (blue boxes at bottom).

Table B-7. Quantitative indicators for altered hydrologic function stress.

Indicator	Poor	Fair	Good	Very Good
Reservoir storage as a % of precipitation	>15%	>5-15%	0.5-5%	<0.5%
Statistically significant trend* in minimum 30-day average flow	>1%/yr decrease	>0.5-1.0%/yr decrease	0-0.5%/yr decrease	Increase or no significant trend
Statistically significant trend* in average September flow with the effect of precipitation accounted for	>1%/yr decrease	>0.5-1.0%/yr decrease	0-0.5%/yr decrease	Increase or no significant trend
Human water use (domestic plus agricultural) as a % of 30-day minimum flow	>50%	>20-50%	2-20%	<2%
Human population density	>25 persons/km. ²	>5-25 persons/km. ²	1-5 persons/km. ²	<1 persons/km. ²
% of watershed area in agriculture	>10%	>5-10%	2-5%	<2%
% impervious surfaces	>25%	>10-25%	5-10%	<5%
Road density	>3.0 mi/mi ²	>2.5-3.0 mi/mi ²	1.6-2.5 mi/mi ²	<1.6 mi/mi ²
<p>* Trends evaluated for the period 1953-2012. Percent is relative to the median of the entire period, not the start of period, so total change for the period would be the per-year trend slope multiplied by 30 (half the 60-year period). Threshold of statistical significance is $p < 0.10$.</p>				

Table B-8. Quantitative indicators for dams/diversions threat.

Indicator	Poor	Fair	Good	Very Good
% of coho salmon habitat inaccessible due to dams	>40%	>15-40%	1-15%	<1%
Reservoir storage as a % of precipitation	>15%	>5-15%	0.5-5%	<0.5%
Domestic water use as a % of 30-day minimum flow	>50%	>20-50%	2-20%	<2%
Agricultural water use as a % of 30-day minimum flow				
Human population density	>25 persons/km. ²	>5-25 persons/km. ²	1-5 persons/km. ²	<1 persons/km. ²
% of watershed area in agriculture	>10%	>5-10%	2-5%	<2%

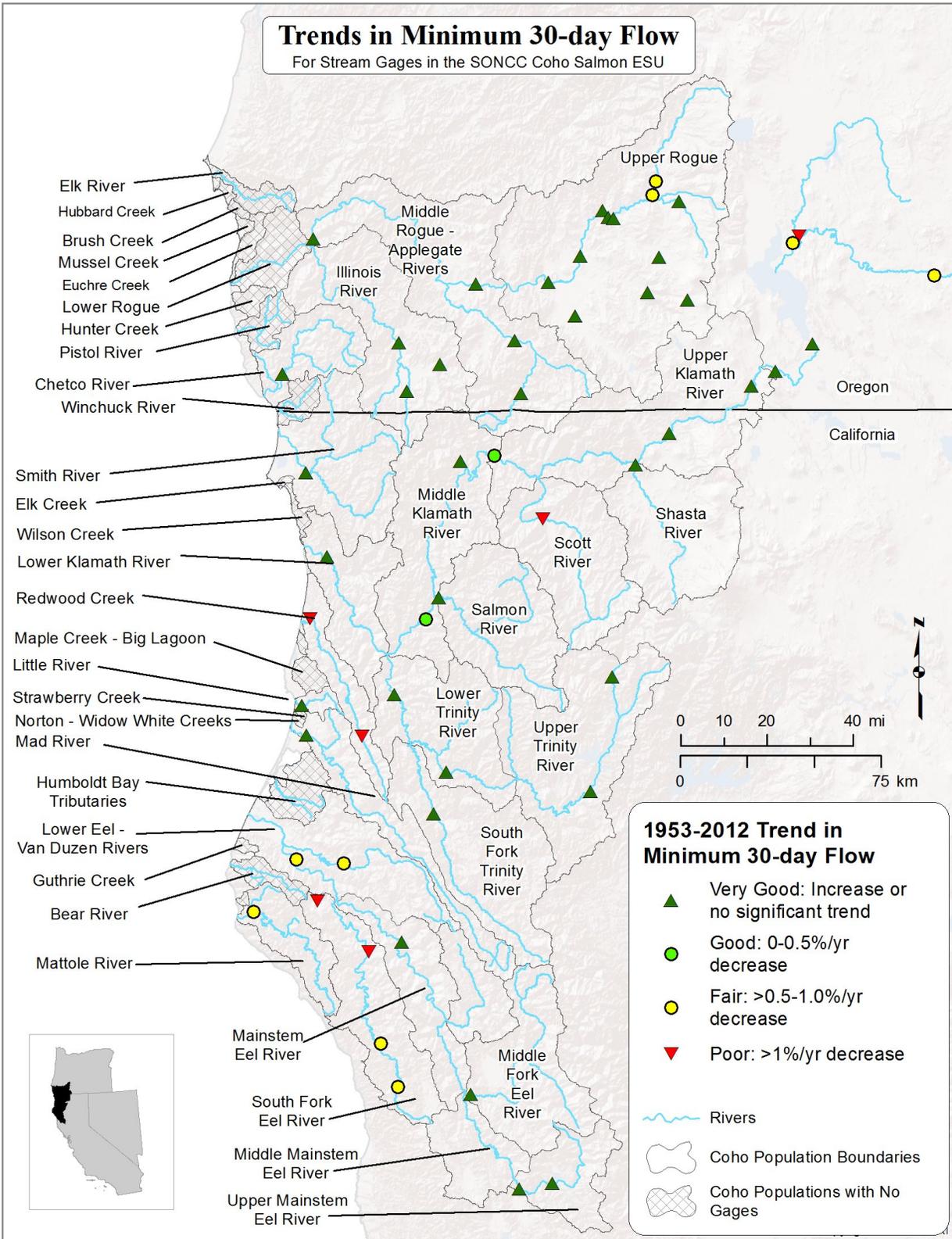


Figure B-3. Map of 1953-2012 trends in minimum 30-day streamflow. Gages are color-coded according to the rules in Table B-7.

Timber Harvest

NMFS evaluated the threat of ‘Timber Harvest’ within the next ten years (2014-2024) in the SONCC coho salmon ESU. Ten years was chosen to capture reasonably foreseeable events in the near future. The methods and results of the analysis are described in detail by NMFS (2014) and briefly described here. Three metrics are used in the assessment: 1) The Watercourse Management Area Index (WMAI) rates watercourse protection; 2) The Magnitude of Harvest (MH) rates the predicted harvest intensity; and 3) The Conservation Plan (CP) connotes whether timber harvest is guided by a conservation plan.

WMAI consists of four watercourse protection measures, each of which was assessed independently for Class I, Class II, and Class III streams: 1) Width of the Watercourse Management Area, 2) Width of the no-cut zone, 3) inner band canopy retention requirements, and 4) large tree retention requirements (Table B-9).

Rates of harvest were determined from ownership-specific management plans or monitoring reports, or from a literature review of harvest rates for ownership categories, and were then rated according to the rules in Table B-10.

Ownerships with an active conservation or restoration plan that has been approved by NMFS through applicable Endangered Species Act processes received points for the Conservation Plan (CP) metric, while ownerships that do not have a NMFS-approved conservation plan received no points.

The three metrics are summed together to obtain an ‘ownership score’ for each ownership (Table B-11). The overall threat score for each coho salmon population was determined by calculating an area-weighted average of the ownership scores, with the weight proportional to the percent of the forested area within a coho population area that an ownership covers. In populations with a low percentage (i.e., <75%) of forest area, to account for the reduced threat of timber harvest relative to other threats, an adjustment factor was applied based on the percent of forest area. Using a four-category scale (i.e., low, medium, high, and very high), a threat rank for timber harvest was then assigned according to the overall threat score.

The resulting threat ranks were provided to NMFS analysts for consideration in the recovery plan. However, the NMFS analysts contributing to the development of population profiles had an opportunity to consider other information that was not factored into the main assessment and apply professional judgment to “over-ride” these ranks.

Table B-9. Summary of the values used in the calculation of the Watercourse Management Area Index.

Class I Watercourse	Very Good (4)	Good (3)	Fair (2)	Poor (1)
Width of Watercourse Management Area (one side)	≥ 300'	150-299'	100-149'	< 100'
Width of No-Cut Zone (one side)	≥ 300	≥ 30'	15-29'	0-14'
Inner Band Overstory Canopy Retention (live trees, all species)	100%	70% (30-100' width)	50-69%	None enforceable
Large Tree Retention	100%	13 largest TPA ¹ (30-100 width')	15 conifers/acre >16" dbh within RMA. Some large trees protected by canopy retention and LWD recruitment requirements	L: 40 live conifer trees per 1000' >11" or M: 30 live conifer trees per 1000' >8"
Class II Watercourse	Very Good (4)	Good (3)	Fair (2)	Poor (1)
Width of Watercourse Management Area	≥ 150'	100'-150'	76'-100'	< 75'
Width of No-Cut Zone	≥ 150'	≥ 30'	15-29'	0-14'
Inner Band Overstory Canopy Retention (live trees, all species)	100%	70% (25% conifer)	50-69%	None enforceable
Large Tree Retention	100%	13 largest TPA ¹ (30-100 width')	≥ 20' no-cut buffer, plus L: 40 live conifer trees per 1000' >11" or M: 30 live conifer trees per 1000' >8".	Canopy retention requirements likely protect some large trees
Class III Watercourse	Very Good (4)	Good (3)	Fair (2)	Poor (1)
Width of Watercourse Management Area	≥ 100'	≥ 50' ELZ ²	30'-49' ELZ ²	<30' ELZ ²
Width of No-Cut Zone	≥ 100'	≥50'	0-49' and/or retain channel-stabilizing trees	None
Canopy Retention (live trees, all species)	100%	100% in inner zone, 50% in outer zone	Retain hardwoods, retain conifer to meet stocking, retain all trees in channel zone	Retain trees leaning over channel
¹ TPA = trees per acre. ² ELZ = equipment limitation zone with designated skid trail crossings.				

Table B-10. Values used for rating Magnitude of Harvest (MH) metric, expressed as the percent of the forested area (as clear-cut equivalent) harvested annually, or as a percent of timber inventory volume harvested annually.

	Very High (1.5 point)	High (3.0 point)	Medium (4.5 points)	Low (6.0 points)	None (7.5 points)
Percent Harvest	>2%	1-2%	0.5-0.99%	0.01-0.49%	0%
Ownership category	Private industrial timberland	Private non-industrial timberland	Hoopa Tribe, BLM OR (unreserved)	USFS (unreserved), BLM CA (unreserved)	USFS (reserved), BLM (reserved), States of CA and OR, NPS, Other

Table B-11. Watercourse Management Area Index (WMAI), Magnitude of Harvest (MH), and Conservation Plan (CP) values used to calculate ownership scores, and resulting category scores.

Ownership	Watercourse Management Area Index (WMAI)	Magnitude of Harvest (MH)	Conservation Plan (CP)	Ownership Score	Notes
National Park Service	12.0	7.5	2	21.5	No harvest
State: California	12.0	7.5	2	21.5	No harvest
State: Oregon	12.0	7.5	2	21.5	No harvest
Other	12.0	7.5	2	21.5	No harvest
USFS (reserved)	12.0	7.5	2	21.5	No harvest
BLM (reserved)	12.0	7.5	2	21.5	No harvest
BLM California (available)	12.0	6.0	2	20.0	Harvest only slightly >0
USFS (available)	12.0	6.0	2	20.0	
BLM Oregon (available)	12.0	4.5	2	18.5	
Hoopa Valley Tribe	9.3	4.5	2	15.8	
Private: Humboldt Redwood Co. - CA HCP	8.6	1.5	2	12.1	
Private: Green Diamond Resource Co. - CA HCP	8.3	1.5	2	11.8	
Private: other land in California	8.3	3.0	0	11.3	
Private: Fruit Growers Supply Co. - CA HCP	6.8	1.5	2	10.3	
Private: CA industrial timberland no HCP	8.3	1.5	0	9.8	
Private: other land in Oregon	3.8	3.0	0	6.8	
Private: OR industrial timberland no HCP	3.8	1.5	0	5.3	

Adverse Hatchery-Related Effects (Stress) and Hatcheries (threat)

The percent of observed adults of hatchery origin is used as an indicator of relative genetic risk to a coho salmon population. Use of less than 5 percent as the threshold for low risk is consistent with the approach described in Williams et al. (2008). Williams et al. (2008) does not provide guidance regarding the degree of risk above 5 percent. The status review for Oregon salmon and steelhead populations in the Willamette and Lower Columbia basins (McElhany et al. 2007) describes categories of genetic risk from hatcheries with break points at 10 percent and 30 percent, and this convention is adopted for all SONCC coho salmon life stages (Table B-12). Ecological effects of hatcheries are accounted for in the Medium stress and threat rank, which is assigned if there is a salmonid hatchery in the basin.

Table B-12. Criteria for ranking hatchery-related stress (Adverse Hatchery Effects) and threat (Hatcheries).

Rank	Definition
Low	Less than 5 percent of observed adults are of hatchery origin AND there is no salmonid hatchery in the basin.
Medium	Greater than or equal to 5 percent and less than or equal to 10 percent of observed adults are of hatchery origin OR there is a salmonid hatchery in the basin.
High	Greater than 10 percent and less than 30 percent of observed adults are of hatchery origin.
Very High	Greater than or equal to 30 percent of observed adults are of hatchery origin.

B.5.2 Additional Threat and Stress Categories

NMFS developed categories for additional threats and stresses that are currently impacting the SONCC coho salmon ESU. Some were not identified at the time of listing, but are considered to be affecting SONCC coho salmon populations currently. These categories were developed for Climate Change, Impaired Estuary and Mainstem Function, fishing-related stress and threat ("Adverse Hatchery-Related Effects" and "Fishing and Collecting"), and hatchery-related stress and threat ("Adverse Fishery-Related Effects" and "Fishing and Collecting"). Since no empirical data are available for these categories, NMFS utilized additional tools to perform the threat and stress assessment and ranking. NMFS did not utilize the CAP workbooks to predict ratings for these new threat and stress categories. NMFS utilized professional judgment when ranking and assessing the severity for each life stage for the Estuary and Mainstem Condition category. For Climate Change, NMFS utilized climate change models and predictors that assessed future changes in a variety of environmental conditions. See below for environmental variables selected for the Climate Change category.

Climate Change

Climate change has the potential to dramatically alter the recovery landscape and must be considered in assessing current and future conditions. The impacts that are most likely to affect SONCC coho salmon populations include increasing temperatures, changes in quantity and quality of snowpack, changes in precipitation, and rising sea level. NMFS assessed the climate change threat for each individual population using current conditions along with modeled future conditions based on projections for future greenhouse gas emissions. Current climate was derived from PRISM (Parameter-elevation Regressions on Independent Slopes Model), an analytical tool that uses point data, a digital elevation model, and other spatial data sets to generate gridded estimates of monthly, yearly, and event-based climatic parameters, such as precipitation, temperature, and dew point. Future climate data were derived from climate projections produced using a statistical downscaling method (Vertenstein et al. 2004). These projections were derived from the Community Climate System Model (CCSM-3) (Vertenstein et al. 2004). We chose the A2 emission pathways, which uses one of the highest rates of greenhouse gas (GHG) emission predictions and the GFDL model, which has a relatively high sensitivity to emissions compared to other Intergovernmental Panel on Climate Change (IPCC) global climate models (California Environmental Protection Agency (CEPA) 2006). Since recent trends in GHG emission are thought to be well above those used in any of the IPCC (2007) models, it is likely that even the "high emission" scenario may underestimate actual emission in the future (Raupach et al. 2007). We chose the time period of 2030 to 2050 to reflect expected short-term changes in climate. For this recovery plan, ten years is the time period assumed for other stresses and threats in the stress and threats assessment. Ten years was chosen to capture reasonably foreseeable events in the near future. NMFS expects that effects of climate change may take longer to manifest than effects of other stresses, and so chose a longer time period (50 years) in which to detect its effects.

To develop threat rankings for the climate change threat, NMFS analyzed the assigned risks to populations from the various climate change indices and overlaid known life history

requirements. Like other threats, the final threat level was based on application of NMFS' professional judgment in consideration of available data.

Current Minimum and Maximum Temperature

An assessment of current summer and winter temperatures provided insight into the vulnerability of populations to climate change. Those populations at or near the current thresholds for coho salmon are likely to have a greater threat from climate change based on the increases in temperature occurring. Current temperature regimes were assessed using PRISM data (PRISM Climate Group 2011) averaged for the time period from 1971 to 2000, which was the time period available through the PRISM Climate Group. The months of January and July were chosen for this analysis to represent winter and summer conditions.

Current Precipitation

Current summer and winter precipitation provided a baseline condition on which to assess future changes in climate. Low precipitation in the summer and high winter precipitation are factors which can increase the threat from climate change based on predicted and ongoing changes in climate (IPCC 2007) and on the environmental requirements of the SONCC coho salmon ESU during those time periods. Current precipitation regimes were assessed using PRISM data (PRISM Climate Group 2011) averaged for the time period from 1971 to 2000. The months of January and July were chosen for this analysis to represent winter and summer conditions. The average precipitation does not indicate the rates or types of precipitation, which is another climate factor that can influence coho salmon growth and survival.

Current snowpack

Changes in temperature and precipitation will ultimately affect the snowpack in Southern Oregon and Northern California. Areas that currently have little snowpack will likely have less in the future given the modeled changes in temperature and precipitation for the area (Gleick and Chalecki 1999, Lettenmeier and Gan 1990). Snowpack-driven systems are highly vulnerable to climate change and identification of these sensitive populations helps inform our assessment of the climate change threat. Information about current snowpack was derived from NRCS SNOTEL and Snow Course snow water equivalents for the month of January (NRCS 2011). These data are represented as a percentage of normal and averaged between 1971 and 2000. High risk was assigned to populations in areas that currently have a low snowpack and are snowpack dependent.

Modeled Future Temperature Change

Regional forecasts of temperature changes related to climate change were derived from the statistical downscaling method and Community Climate System Model (CCSM-3) (Vertenstein et al. 2004). The months of January and July are used to represent changes in the summer and winter in terms of mean daily temperature (Figure B-4 and Figure B-5). A high risk is assigned to populations where temperatures are already high and future increases in summer temperature are expected. High risk is also assigned to snowpack-dependent populations where increases in winter temperature are expected to decrease snowpack levels.

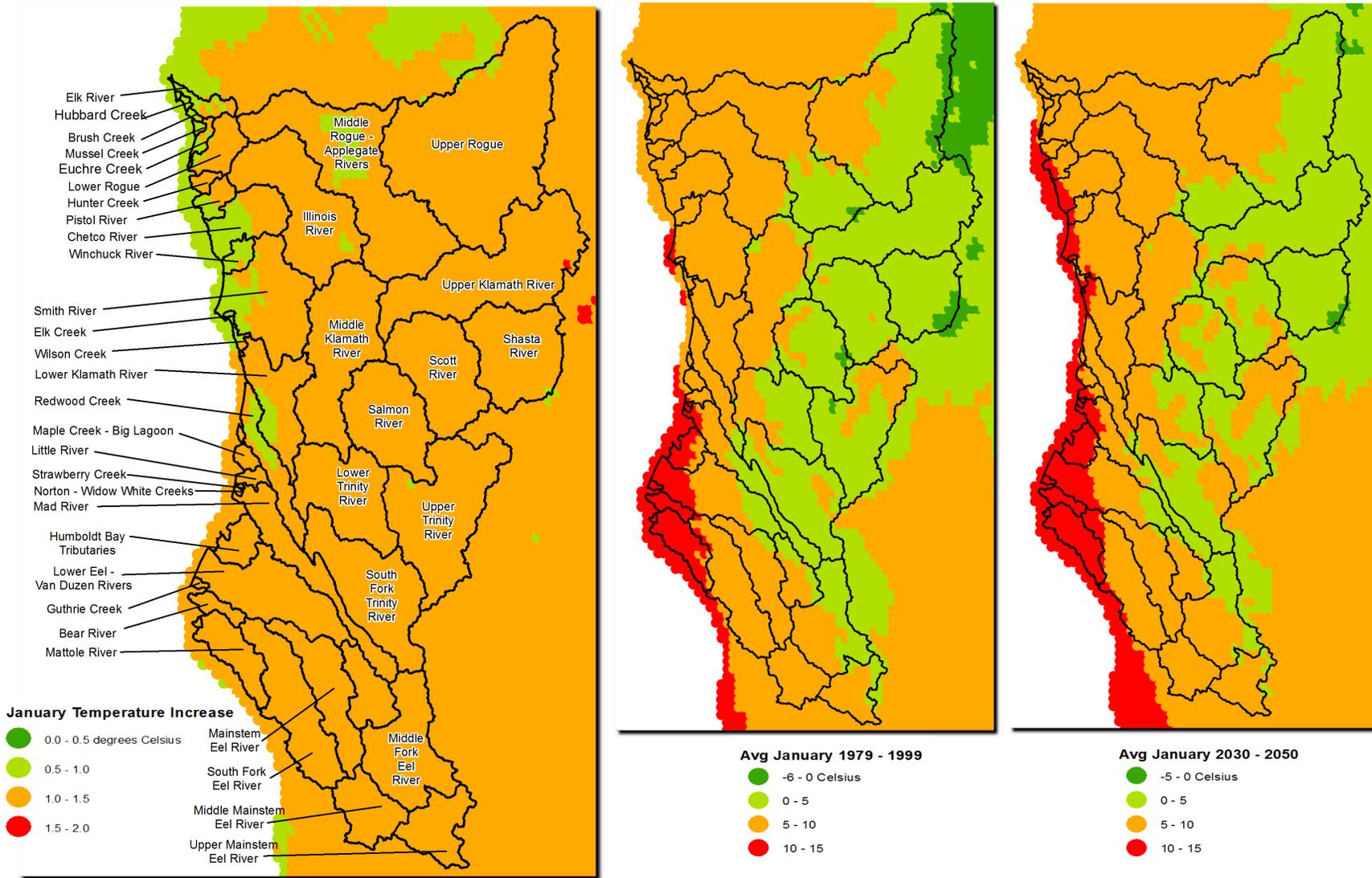


Figure B-4. Modeled average January temperatures for the years 1979 to 1999 (middle panel) and 2030 to 2050 (right panel), and the difference between the two time periods (left panel). Datasets generated by the Community Climate System Model (CCSM) model for the IPCC 4th Assessment Report, and were downloaded from <http://www.gisclimatechange.org/>. The 1979-1999 data are from the 20th Century Experiment and the 2030-2050 data are from emissions scenario A2. Boundaries of the coho salmon populations in the SONCC coho salmon ESU are also shown.

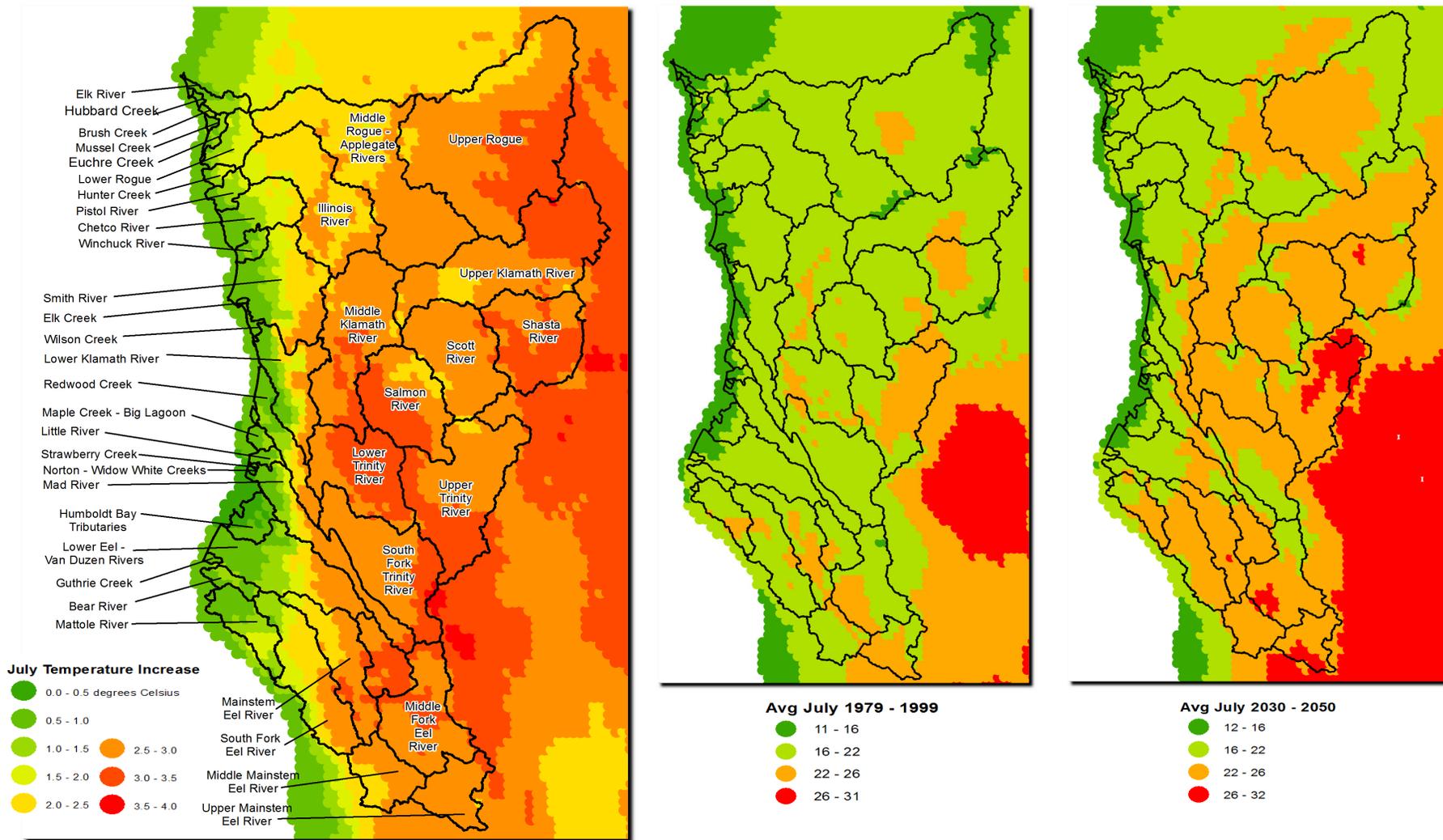


Figure B-5. Modeled average July temperatures for the years 1979 to 1999 (middle panel) and 2030 to 2050 (right panel), and the difference between the two time periods (left panel). Datasets generated by the Community Climate System Model (CCSM) model for the IPCC 4th Assessment Report, and were downloaded from <http://www.gisclimatechange.org/>. The 1979-1999 data are from the 20th Century Experiment and the 2030-2050 data are from emissions scenario A2. Boundaries of the coho salmon populations in the SONCC coho salmon ESU are also shown.

Modeled Future Precipitation Change

Regional forecasts of precipitation changes related to climate change are derived from projections of precipitation produced using a statistical downscaling method (Vertenstein et al. 2004). These projections are derived from the same A2 emission pathway and the Community Climate System Model (CCSM-3) (Vertenstein et al. 2004). The same time period is used to create model output. We used the general trends of the predicted changes in precipitation (i.e., increasing, decreasing, or stable) instead of the exact predicted values. High risk is assigned to populations where precipitation was already low and the expected trend was for decreasing precipitation over the next 20 years.

Modeled Sea Level Rise

Sea level rise has the potential to have a dramatic impact on salmon habitat in some SONCC coho salmon populations. To assess this aspect of climate change we use a coastal vulnerability index (CVI) provided by the U.S. Geological Survey (Thieler and Hammar-Klose 2000). This classification is based upon the variables geomorphology, regional coastal slope, tide range, wave height, relative sea-level rise, and shoreline erosion and accretion rates. The combination of these variables and the association of these variables to each other furnish a broad overview of regions where physical changes are likely to occur due to sea-level rise (Figure B-6).

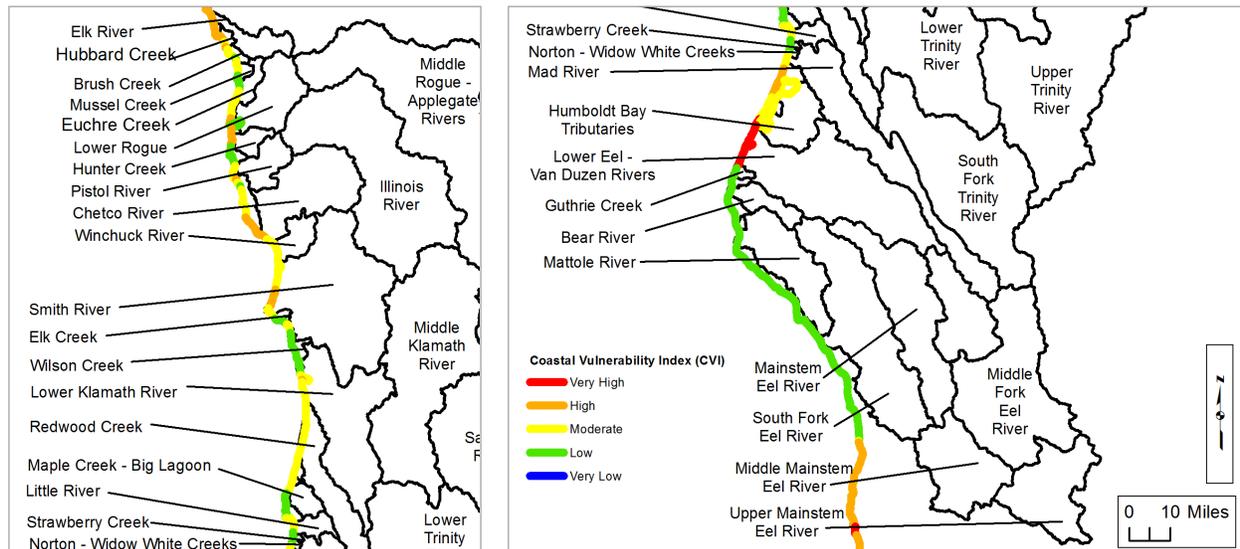


Figure B-6. Coastal Vulnerability Index (CVI) and boundaries of coho salmon populations in the northern (left panel) and southern (right panel) portions of the SONCC coho salmon ESU. CVI data from Thieler and Hammer-Klose (2000).

Impaired Estuary and Mainstem Function

Due to the lack of numeric data that covered the entire ESU, no numeric values or categories were used to develop rankings for this stress. Instead, professional judgment was used based on a series of information about the current state of estuarine or mainstem habitat and environmental

conditions. Important considerations included the extent of development in the estuarine floodplain; known or presumed former extent of estuary habitat, availability of diverse and well-connected off-channel, pond, and wetland estuary and mainstem habitat; water quality; presence of dams and other obstacles to migration; and the extent of diking and ditching in the estuary. Life stage specific factors were also considered to contribute to this stress level. For fry, the stress level was elevated if there was a known fry migrant life history or the occurrence of fry migrants in the populations. For juveniles, the occurrence of estuarine life history types, accessibility issues (such as barriers that block access to tributary rearing habitat), the extent and quality of rearing habitat, and water quality issues were all used in developing stress rankings. Smolts were considered to be impacted by this stress if there were predation issues in the mainstem or estuary, poor migratory conditions (such as exposure to stressful water quality conditions, parasites, or diseases) that could reduce survival and growth, a lack of refugia or holding habitat in the mainstem and/or estuary, or ocean accessibility issues (such as a seasonal berm). The adult life stage was ranked based on the accessibility of the watershed, poor migratory conditions in the estuary and/or mainstem which could reduce survival, and the availability of holding habitat in the estuary.

Adverse Fishery and Collection-Related Effects (stress) and Fishing and Collecting (threat)

Fishing Scoring System

NMFS developed a scoring framework that estimates the combined annual ocean and freshwater fishing exploitation for the adult life stage of each population. The framework incorporates an extinction risk status adjustment that increases the score if the population is at moderate or high extinction risk in relation to depensation.

The adult life-stage fishing ratings were determined using the bins in Table B-13. For example, a population with 8% adult exploitation and a status adjustment value of 2 (below depensation and therefore high risk)(Table B-14) would score a 16 or “medium”, and a population with 6% adult exploitation and a status adjustment value of 1.5 (moderate risk) would score a 9 or “low.” After each life-stage was rated, an “overall” rating was determined using the Conservation Action Planning (CAP) methodology.

Table B-13. Bins used to rate the stress and threat for fishing.

Low	0-14.99
Medium	15-29.99
High	30-39.99
Very High	>=40

Table B-14. Extinction-risk status adjustment.

Status Adjustment Value	Population Status
1	Low risk of extinction
1.5	Moderate risk of extinction
2	High risk of extinction

Determination of Ocean Exploitation

The ocean exploitation rate used for all populations was the average ocean exploitation rate as reported by the Pacific Fisheries Management Council, from 1997 to 2013. The PFMCC exploitation methodology uses Rogue River and Klamath River hatchery stocks as indicators for the SONCC coho salmon ESU. This rating system assumes SONCC coho salmon populations are exploited at the same rate as the hatchery indicator stocks.

Determination of Estuarine/Freshwater Exploitation

Due to a lack of data documenting population-level estuary/freshwater fishing impacts, NMFS estimated the percent exploitation for each population using the best available information (e.g., “catch-card” data in Oregon; tribal harvest data in the Klamath River) and professional judgment. Exploitation estimates for most California populations relied on rough estimates of coho salmon bycatch due to overlap of run timing with known inland fisheries for other salmonids (e.g., South Fork Eel River steelhead fishery).

Determination of Rating for Collecting Stress and Threat

NMFS authorizes scientific collection activities through ESA section 10(a)(1)(A) research permits and ESA section 4(d) programs. The authorized activities must not operate to the disadvantage of the listed species and must provide a bona fide and necessary or desirable scientific purpose or enhance the propagation or survival of the listed species. In addition, NMFS must determine whether the scientific collection is likely to jeopardize the continued existence of any listed species or result in the destruction or adverse modification of critical habitat. These provisions, along with the assumption all existing collection activities have been authorized, resulted in the determination that the stress and threat from collection activities is low for all populations.

Adverse Hatchery-Related Effects (stress) and Hatcheries (threat)

The percent of observed adults of hatchery origin is used as an indicator of relative genetic risk to a coho salmon population. Use of less than 5 percent as the threshold for low risk is consistent with the approach described in Williams et al. (2008). Williams et al. (2008) does not provide guidance regarding degree of risk above 5 percent. The status review for Oregon salmon and steelhead populations in the Willamette and Lower Columbia basins (McElhany et al. 2007) describes categories of genetic risk from hatcheries with break points at 10 percent and 30 percent, and this convention was adopted. Ecological effects of hatcheries are accounted for in the Medium stress and threat rank, which is assigned if there is a salmonid hatchery in the basin.

Table B - 1. Criteria for ranking hatchery-related stress (Adverse Hatchery-Related Effects) and threat (Hatcheries).

Rank	Definition
Low	Less than 5 percent of observed adults are of hatchery origin.
Medium	Greater than or equal to 5 percent and less than or equal to 10 percent of observed adults are of hatchery origin OR there is a salmonid hatchery in the basin.
High	Greater than 10 percent and less than 30 percent of observed adults are of hatchery origin.
Very High	Greater than or equal to 30 percent of observed adults are of hatchery origin.

B.6 Stress Analysis

Stresses are the physical, biological, or chemical conditions and associated ecological processes that may impede SONCC ESU coho salmon recovery. When particular conditions are not present, individuals can suffer reduced growth, mortality, or inhibited fertility. Some common examples of stresses are insufficient food, impaired water quality, predation, and insufficient shelter. When habitat required by a species is in short supply, a bottleneck results and this habitat becomes limiting (Reeves et al. 1989).

NMFS utilized the CAP workbooks and summary tables, and professional judgment to determine stress ratings, and developed a narrative to document the results. The results of these exercises were then considered when developing recovery actions. Key limiting stresses and threats were identified as the stresses and threats most affecting current population viability. NMFS identified two key limiting stresses and two key limiting threats in the stress and threat summary tables, and developed a population-specific narrative to explain them. One factor in the assignment of priorities to recovery actions was whether the recovery action would address a key limiting stress or key limiting threat for the particular population. If it would, the recovery action could be eligible for a higher priority compared to if it would not address a key limiting stress or key limiting threat.

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Appendix C. Datasets Utilized in the Stress and Threat Analysis

Table C-1. Data type, state, year, and reference for data to inform GIS maps, CAP workbooks, and resultant summary tables. Datasets were generally used only if similar information was widely available across the SONCC coho salmon ESU.

Data Type	State/year	Reference
Professional judgment of limiting factors	Oregon	Oregon Department of Fish and Wildlife (ODFW). 2008. Draft Limiting Factors and Threats to the Recovery of Oregon Coho Populations in the Southern Oregon-Northern California Coast (SONCC) Evolutionarily Significant Unit: Results of Expert Panel Deliberations. Draft circulated beginning September 13, 2008. By Jeff Rodgers, ODFW, Corvallis, OR. 38 p
Amount of Impervious Surfaces	California and Oregon	Homer, C. C. Huang, L. Yang, B. Wylie and M. Coan. 2004. Development of a 2001 National Landcover Database for the United States. Photogrammetric Engineering and Remote Sensing, Vol. 70, No. 7, pp 829-840
Agricultural Practices	California and Oregon	Homer, C. C. Huang, L. Yang, B. Wylie and M. Coan. 2004. Development of a 2001 National Landcover Database for the United States. Photogrammetric Engineering and Remote Sensing, Vol. 70, No. 7, pp 829-840
Road Density	California - inland areas	LEGACY-The Landscape Connection Long Range Strategy: Creating a Biodiversity Conservation Network. Released April 29, 1999 by Curtice Jacoby, Noel Soucy, Daniel Boiano, Steven Day, Shayne Green, KayDee Simon, Keith Slauson, and Chris Trudel Produced by LEGACY – The Landscape Connection
	California - coastal areas	CalFire Forest Practices GIS for coastal areas.
Road Density	Oregon	Southwest Oregon Province (SWOP). 1998. Unpublished data released on a CD of GIS Data.
Timber Harvest	California	CalFire Forest Practices GIS - only harvest on non-public lands and harvest not conducted as part of Non-Industrial Timber Management Plans.
	Oregon	Bredensteiner, K., K. Palacios, and J. Strittholt. 2003. Assessment of Aquatic Habitat Monitoring Data in the Rogue River Basin and Southern Oregon Coastal Streams. Performed under grant from David and Lucille Packard Foundation by the Conservation Biology Institute, Corvallis, OR. 42 p. Chapter 1-5. Chapter 6. Chapter 7. Chapter 8 + Appendices.
Timber Harvest	California and Oregon	National Marine Fisheries Service. 2014. Assessment of the Threat of Timber Harvest to Southern Oregon/Northern California Coast Coho Salmon. NOAA/National Marine Fisheries Service, Arcata, CA.

Data Type	State/year	Reference
Land Use and Land Ownership	California and Oregon	U.S. Forest Service and U.S. Fish and Wildlife Service. 2009. Northwest Forest Plan (NWFP) Land Use Allocations (LUA) 2009. U.S. Forest Service Region 6 and U.S. Fish and Wildlife Service Region 1. Available online at: http://www.reo.gov/monitoring/data-maps/general-data-maps.shtml
	California	GreenInfo Network. 2012. California Protected Areas Database v1.8. GreenInfo Network, San Francisco, CA. Available online at: https://projects.atlas.ca.gov/frs/?group_id=115&release_id=5411
Hydrology, Dams, and Diversions	California and Oregon	Asarian, E. 2014. Assessment of altered hydrologic function, dams, and diversions within the Southern Oregon/Northern California Coast evolutionarily significant unit of coho salmon. Prepared for the NOAA Fisheries, Arcata Office. 72 p. plus appendices.
Precipitation	California and Oregon	Daly, C., W. P. Gibson, M. Doggett, J. Smith, and G. Taylor, 2004. Up-to-date monthly climate maps for the conterminous United States. Preprints, 14th Conf. on Applied Climatology, Seattle, WA, Amer. Meteor. Soc., CD-ROM, P5.1. http://prism.oregonstate.edu/pub/prism/docs/appclim04-uptodate_monthly_climate_maps-daly.pdf
Streamflow	California and Oregon	U.S. Geological Survey. 2013. National Water Information System. Digital streamflow data downloaded 2/13/2013. U.S. Department of the Interior, U.S. Geological Survey.
	Oregon	Oregon Water Resources Department (OWRD). Near Real-time Streamflow and Lake Level Data and Historical Streamflow and Lake Level Data. Digital streamflow data downloaded 12/2/2012. Oregon Water Resources Department, Salem, OR.
Agricultural Water Use	California	California Department of Water Resources. 2001. Agricultural Land & Water Use Estimates. California Department of Water Resources, Sacramento, CA.
	Oregon	HDR Inc. 2008. Statewide Water Needs Assessment Oregon Water Supply and Conservation Initiative. Prepared for Oregon Water Resources Department by HDR. Available from: http://www.oregon.gov/owrd/law/docs/owsci/owrd_demand_assessment_report_final_september_2008.pdf

Data Type	State/year	Reference
Domestic Water Use	California and Oregon	State of California. 2010. 20x2020 Water Conservation Plan. Prepared by the California Department of Water Resources, State Water Resources Control Board, California Bay-Delta Authority, California Energy Commission, California Department of Public Health, California Public Utilities Commission, and California Air Resources Board with assistance from the California Urban Water Conservation Council and U. S. Bureau of Reclamation. 60 pp. Available at: http://www.water.ca.gov/wateruseefficiency/sb7/docs/20x2020plan.pdf
Human Population density	California and Oregon	Radeloff VC, R.B. Hammer, S.I. Stewart, J.S. Fried, S.S. Holcomb, and J.F. McKeefry. 2005. The wildland-urban interface in the United States. <i>Ecological applications</i> 15:799–805.
Dams	California	Goslin, M. 2005. Creating a comprehensive dam dataset for assessing anadromous fish passage in California. US Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Southwest Fisheries Science Center, Santa Cruz Laboratory Available from: http://docs.lib.noaa.gov/noaa_documents/NMFS/SWFSC/TM_NMFS_SWFSC/NOAA-TM-NMFS-SWFSC-376.pdf
	Oregon	Oregon Water Resources Department. 2010. Oregon_Dams. Digital dataset. Oregon Water Resources Department, Salem, OR. Downloaded 2/7/2013 from http://spatialdata.oregonexplorer.info/geoportal/catalog/download/download.page
Barriers	California - Mendocino, Humboldt, Del Norte, Trinity, and Siskiyou County	Five Counties Salmonid Conservation Program. 2008. Five Counties Salmonid Conservation Program (5C) Final Report. Contract P0510327. California Department of Fish and Game, Fisheries Restoration Grant Program March 2007 – July 2008.
	California	Pacific States Marine Fisheries Commission. 2013. California Fish Passage Assessment Database, September 2013 version. Pacific States Marine Fisheries Commission, Sacramento, CA. Available online at: http://www.calfish.org .
	Oregon	Oregon Department of Fish and Wildlife. 2012. Oregon Fish Passage Barriers, 6/22/2012 version. Oregon Dept. of Fish and Wildlife, Salem, Oregon. Available online at https://nrimp.dfw.state.or.us/nrimp/default.aspx?pn=fishbarrierdata

Data Type	State/year	Reference
		Oregon Department of Fish and Wildlife. 2013. ODFW 2013 Statewide Fish Passage Priority List. Oregon Dept. of Fish and Wildlife, Salem, Oregon. Available online at http://www.dfw.state.or.us/fish/passage/docs/2013_Statewide_Fish_Passage_Priority_List.xls
Coho Distribution	California	California Department of Fish and Game. 2012. Coho Distribution, July 2012 Version. Available online at: http://www.calfish.org
	Oregon	Oregon Department of Fish and Wildlife. Oregon Fish Habitat Distribution - Current and Historical Coho. Oregon Dept. of Fish and Wildlife, Salem, Oregon. Available online at: https://nrimp.dfw.state.or.us/DataClearinghouse/default.aspx?p=202&XMLname=8.xml
SONCC coho salmon intrinsic potential	California and Oregon	Williams, T. H. and others. 2008. Framework for Assessing Viability of Threatened Coho Salmon in the Southern Oregon/Northern California Evolutionary Significant Unit. Southwest Fisheries Science Center. Santa Cruz, CA.
Coho brood year information	California	California_Coho_Status_Review_Brood_Year_Investigation.shp, version 11/3/2009, received 11/2/2009 from CDFG. Supplemental information: Atlas_Hydro_SONCC.shp, version 10/22/2009, received 11/3/2009 from CDFG.
	California	California Department of Fish and Game (CDFG). 2002a. North Coast California Coho Salmon Investigation.
Change Scene and tree size data	California only	Tree size data downloaded from: http://www.reo.gov/monitoring/reports/10yr-report/map-data/index.shtml
	California and Oregon	Methods for tree size and change scene data: Moeur, M., T.A. Spies, M. Hemstrom, J.R. Martin, J. Alegria, J. Browning, J. Cissel, W.B. Cohen, T.E. Demeo, S. Healey, and R. Warbington. 2005. Northwest Forest Plan- the first 10 years (1994 to 2003): status and trend of late-successional and old-growth forest. Gen. Tech. Rep. PNW-GTR-646. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 142 p.
Aquatic Invertebrates (B-IBI NorCal)	2000	Rehn, A.C. and P.R. Ode. 2005. Draft Development of a Benthic Index of Biotic Integrity (B-IBI) for Wadeable Streams in Northern Coastal California and its Application to Regional 305(b) Assessment. CDFG Aquatic Bioassessment Laboratory, Rancho Cordova, CA. 24 p.
Aquatic Invertebrates (EPT)	1980 -1998	PL [Pacific Lumber Company]. 1998. Sustained yield/Habitat Conservation Plan for the properties of The Pacific Lumber Company, Scotia Pacific Holding Company, and Salmon Creek Corporation. Public Review Draft.

Data Type	State/year	Reference
Aquatic Invertebrates (EPT)	California	Salmon River Restoration Council (SRRC). 1994. Unpublished data of macroinvertebrate samples for the year 1994 in tributaries of the Salmon River: Salmon River Macroinvertebrate Reconnaissance Study. Data included in the "Aquatic Inverts: EPT Richness Index Three Salmon River Tribs Fall 1994" topic of the Klamath Resource Information System. Salmon River Restoration Council, Somes Bar, CA.
Aquatic Invertebrates (Rich)	1980-1996	PL [Pacific Lumber Company]. 1998. Sustained yield/Habitat Conservation Plan for the properties of The Pacific Lumber Company, Scotia Pacific Holding Company, and Salmon Creek Corporation. Public Review Draft.
Canopy Cover (% Shade)	1991	California Department of Fish and Game (CDFG). 2007. Unpublished data from a database of stream habitat surveys in Northwestern California for the years 1991-2003, acquired from Ron Rogers in 2007. California Department of Fish and Game, Sacramento, CA.
Canopy Cover (% Shade)	1994	California Department of Fish and Game (CDFG). 2009. Unpublished data from a database of stream habitat surveys in Northwestern California for the years 1994-2008, acquired from Karen Wilson in 2009. California Department of Fish and Game, Sacramento, CA.
Canopy Cover (% Shade)	2002-2003	Mattole Salmon Group (MSG). 2003. Final Report: Mattole Basin Channel Monitoring 2002-2003. Petrolia, CA.
Canopy Cover (% Shade)	2005	Mattole Restoration Council (MRC). 2008. Unpublished spreadsheet of stream habitat information for the Mattole River for the years 2005-2007, acquired from Nathan Queener on 5/15/2008. Mattole Restoration Council, Petrolia, CA.
Canopy Type (% Open + Hardwood)	1991-2003	California Department of Fish and Game (CDFG). 2007. Unpublished data from a database of stream habitat surveys in Northwestern California for the years 1991-2003, acquired from Ron Rogers in 2007. California Department of Fish and Game, Sacramento, CA.
Canopy Type (% Open + Hardwood)	1994-2008	California Department of Fish and Game (CDFG). 2009. Unpublished data from a database of stream habitat surveys in Northwestern California for the years 1994-2008, acquired from Karen Wilson in 2009. California Department of Fish and Game, Sacramento, CA.
D.O. (COLD) (mg/l 7-DAMin)	1995	U.S. Fish and Wildlife Service. 1995. Unpublished Klamath River water quality data for the year 1995. Data are included in the "Temperature: Salmonid Stress Klamath River at Blue Creek 1995" topic of the Klamath Resource Information System (KRIS) Klamath-Trinity. U.S. Fish and Wildlife Service, Arcata, CA.

Data Type	State/year	Reference
D.O. (COLD) (mg/l 7-DAMin)	1994-2003	Asarian, E. and J. Kann. 2006. Klamath River Nitrogen Loading and Retention Dynamics, 1996-2004 (Appendix C: updated version of Klamath TMDL water quality database). Kier Associates Final Technical Report to the Yurok Tribe Environmental Program, Klamath, California. 56pp + appendices.
D50 (mm)	1998 -2000	Dresser, A. T., C. Cook, and M. Smith. 2001. Long Term Trend Monitoring Program for the South Fork Trinity River watershed. Data are included in the "Sediment: Median Particle Size (3) - Hyampom (1998, 2000)" topic of the Klamath Resource Information System (KRIS) Klamath-Trinity
D50 (mm)	1992	Knopp, C. 1993. Testing indices of cold water fish habitat. Final report for development of techniques for measuring beneficial use protection and inclusion into the North Coast Region's Basin Plan by Amendment of the.....Activities, September 18, 1990. Data are included in the " Sediment: V* by NCRWQCB, 1992" topic of the Klamath Resource Information System (KRIS) Mattole. North Coast Regional Water Quality Control Board in cooperation with California Department of Forestry. 57 pp.
D50 (mm)	2001-2003	Mattole Salmon Group (MSG). 2003. Final Report: Mattole Basin Channel Monitoring 2002-2003. Petrolia, CA.
D50 (mm)	1979-1995	Redwood National and State Parks. 2002. Unpublished particle size distribution data for Redwood Creek at locations of gaging stations from 1979 to 1995. Data included in the "Sediment: D50 from Cross-Sections at Redwood Creek at Gauging Stations" topic of the Klamath Resource Information System (KRIS) Redwood. Redwood National and State Parks, Orick, CA.
D50 (mm)	2000-2008	Aquatic and Riparian Effectiveness Monitoring Program (AREMP). 2009. Unpublished database of aquatic habitat monitoring and temperature data for Northern California and Southern Oregon for the years 2000-2008, collected as part of the Northwest Forest Plan Interagency Regional Monitoring Program, acquired from Mark Isley on 12/4/2009. United States Forest Service, Corvallis, OR.
Embeddedness (%)	2002-2003	Mattole Salmon Group (MSG). 2003. Final Report: Mattole Basin Channel Monitoring 2002-2003. Petrolia, CA.
Embeddedness (%)	1991-2003	California Department of Fish and Game (CDFG). 2007. Unpublished data from a database of stream habitat surveys in Northwestern California for the years 1991-2003, acquired from Ron Rogers in 2007. California Department of Fish and Game, Sacramento, CA.

Data Type	State/year	Reference
Embeddedness (%)	1994-2008	California Department of Fish and Game (CDFG). 2009. Unpublished data from a database of stream habitat surveys in Northwestern California for the years 1994-2008, acquired from Karen Wilson in 2009. California Department of Fish and Game, Sacramento, CA.
Embeddedness (%)	2005-2007	Mattole Restoration Council (MRC). 2008. Unpublished spreadsheet of stream habitat information for the Mattole River for the years 2005-2007, acquired from Nathan Queener on 5/15/2008. Mattole Restoration Council, Petrolia, CA.
Fines (Dry Sample) (% <1 mm)	2002	Trinity County Resource Conservation District (TCRCD). 2003. South Fork Trinity River Water Quality Monitoring Project - Agreement No. P0010340 Final Report. Data included in the "Sediment: SF Trinity - Cumulative Percent Fines <0.85 mm, GMA 2002" topic of the Klamath Resource Information System (KRIS) Klamath-Trinity .Prepared for California Department of Fish and Game by TCRCD, with assistance from Graham Matthews. Weaverville, CA. 77 pp.
Fines (Dry Sample) (% <1 mm)	1983-1995	North Coast Regional Water Quality Control Board. 2002. Unpublished fine sediment data for the Redwood Creek Basin for the years 1983-1995. Data included in the "Sediment: Percent Fines <1mm at Redwood Creek Mainstem Sites" topic of the Klamath Resource Information System (KRIS) Redwood. North Coast Regional Water Quality Control Board, Santa Rosa, CA.
Fines (Wet Sample) (% <1 mm)	1967-1996	PL [Pacific Lumber Company]. 1998. Sustained yield/Habitat Conservation Plan for the properties of The Pacific Lumber Company, Scotia Pacific Holding Company, and Salmon Creek Corporation. Public Review Draft. Salmon Creek, 1994" topic of the Klamath Resource Information System (KRIS) Humboldt Bay. Arcata CA. 81 pp. without appendices.
Fines (Wet Sample) (% <1 mm)	1967-1996	Barnard, K. 1992. Physical and Chemical Conditions in Coho Salmon (<i>Oncorhynchus kisutch</i>) Spawning Habitat in Freshwater Creek, Northern California. Master's Thesis. Humboldt State University. Some data included in the "Sediment: Fines <0.85mm".
Fines (Wet Sample) (% <1 mm)	1992	Hoopa Valley Tribe Fisheries Department. 1997. Pine Creek Sediment Monitoring Project. Grey literature report submitted to USFWS Yreka, in fulfillment of a Klamath Task Force funded evaluation report of restoration in Pine Creek. Some data included in the "Sediment: Pine Creek Coho Expected Emergence, 1992-1993" topic of the Klamath Resource Information System (KRIS) Klamath Trinity Hoopa Valley Tribe Fisheries Department, Hoopa, CA.

Data Type	State/year	Reference
Fines (Wet Sample) (% <1 mm)	1990	Preston, L. 2002. Unpublished data of wet sieve McNeil samples from Lost Man Creek and seven mainstem Mattole sites in 1990 by Larry Preston. Data included in the "Sediment: Fines <4.7 mm Mattole South Subbasin, 1990" topic of the Klamath Resource Information System (KRIS) Mattole. California Department of Fish and Game, Eureka, CA.
Fines (Wet Sample) (% <1 mm)	1974	North Coast Regional Water Quality Control Board. 2002. Unpublished fine sediment data for the Redwood Creek Basin for the years 1983-1995. Data included in the "Sediment: Percent Fines <1mm at Redwood Creek Mainstem Sites" topic of the Klamath Resource Information System (KRIS) Redwood North Coast Regional Water Quality Control Board, Santa Rosa, CA.
Fish Passage (% of Dry Habitat Types)	1991-2003	California Department of Fish and Game (CDFG). 2007. Unpublished data from a database of stream habitat surveys in Northwestern California for the years 1991-2003, acquired from Ron Rogers in 2007. California Department of Fish and Game, Sacramento, CA.
Fish Passage (% of Dry Habitat Types)	1994-2008	California Department of Fish and Game (CDFG). 2009. Unpublished data from a database of stream habitat surveys in Northwestern California for the years 1994-2008, acquired from Karen Wilson in 2009. California Department of Fish and Game, Sacramento, CA.
Floodplain Connectivity (USFS judgment)	2000	U.S. Forest Service. 2000. Rating Watershed Condition: Reconnaissance Level Assessment for the National Forest of the Pacific Southwest Region in California. U.S.D.A. Forest Service, Region 5, San Francisco, CA. 31 p.
Flow Restoration Needs (ODFW judgment)	1998	Oregon Department of Fish and Wildlife (ODFW). 1998. Stream Flow Restoration Priority GIS Data for the Rogue and South Coast Basins. Oregon Department of Fish and Wildlife, Salem, OR.
pH (Annual Maximum)	1995	U.S. Fish and Wildlife Service. 1995. Unpublished Klamath River water quality data for the year 1995. Data are included in the "Temperature: Salmonid Stress Klamath River at Blue Creek 1995" topic of the Klamath Resource Information System (KRIS) Klamath-Trinity U.S. Fish and Wildlife Service, Arcata, CA.
pH (Annual Maximum)	1990-2003	Asarian, E. and J. Kann. 2006. Klamath River Nitrogen Loading and Retention Dynamics, 1996-2004 (Appendix C: updated version of Klamath TMDL water quality database). Kier Associates Final Technical Report to the Yurok Tribe Environmental Program, Klamath, California. 56pp + appendices.

Data Type	State/year	Reference
pH (Annual Maximum)	1995-2004	Oregon Department of Environmental Quality (ODEQ). 1997. Unpublished water quality data from the ODEQ Laboratory Analytical Storage and Retrieval (LASAR) database, exported and acquired from Robb Keller, 4/17/2007. Oregon Department of Environmental Quality, Salem, OR.
Pool Depth (Ave. in Feet)	1991-2003	California Department of Fish and Game (CDFG). 2007. Unpublished data from a database of stream habitat surveys in Northwestern California for the years 1991-2003, acquired from Ron Rogers in 2007. California Department of Fish and Game, Sacramento, CA.
Pool Depth (Ave. in Feet)	1994-2008	California Department of Fish and Game (CDFG). 2009. Unpublished data from a database of stream habitat surveys in Northwestern California for the years 1994-2008, acquired from Karen Wilson in 2009. California Department of Fish and Game, Sacramento, CA.
Pool Depth (Ave. in Feet)	2005-2007	Mattole Restoration Council (MRC). 2008. Unpublished spreadsheet of stream habitat information for the Mattole River for the years 2005-2007, acquired from Nathan Queener on 5/15/2008. Mattole Restoration Council, Petrolia, CA.
Pool Depth (Ave. in Feet)	1990-2003	Oregon Department of Fish and Wildlife (ODFW). 2007. Unpublished geo-referenced stream survey data "Aquatic Inventories Project Habitat and Reach Data", downloaded from ODFW's statewide database. Oregon Department of Fish and Wildlife, Salem, OR.
Pool Depth (Ave. in Feet)	1990-1995	United States Forest Service. 1995. Unpublished geo-referenced stream survey data for the Rogue River-Siskiyou National Forest for the years 1989-1995, acquired from the Conservation Biology Institute (who compiled the data from multiple files). Rogue River-Siskiyou National Forest, Medford, OR.
Pool Depth (Ave. in Feet)	1995-2006	United States Forest Service. 2006. Unpublished geo-referenced stream survey data for the Rogue River-Siskiyou National Forest for the years 1995-2006, acquired from the Rogue River-Siskiyou National Forest. Rogue River-Siskiyou National Forest, Medford, OR.
Pool Depth (Ave. in Feet)	2000-2008	Aquatic and Riparian Effectiveness Monitoring Program (AREMP). 2009. Unpublished database of aquatic habitat monitoring and temperature data for Northern California and Southern Oregon for the years 2000-2008, collected as part of the Northwest Forest Plan Interagency Regional Monitoring Program, acquired from Mark Isley on 12/4/2009. United States Forest Service, Corvallis, OR.

Data Type	State/year	Reference
Pool Frequency (% by Area)	1990	Oregon Department of Fish and Wildlife (ODFW). 2007. Unpublished geo-referenced stream survey data "Aquatic Inventories Project Habitat and Reach Data", downloaded from ODFW's statewide database. Oregon Department of Fish and Wildlife, Salem, OR.
Pool Frequency (% by Area)	1990-1995	United States Forest Service. 1995. Unpublished geo-referenced stream survey data for the Rogue River-Siskiyou National Forest for the years 1989-1995, acquired from the Conservation Biology Institute (who compiled the data from multiple files). Rogue River-Siskiyou National Forest, Medford, OR.
Pool Frequency (% by Area)	1995-2006	United States Forest Service. 2006. Unpublished geo-referenced stream survey data for the Rogue River-Siskiyou National Forest for the years 1995-2006, acquired from the Rogue River-Siskiyou National Forest. Rogue River-Siskiyou National Forest, Medford, OR.
Pool Frequency (% by Length)	1991-2003	California Department of Fish and Game (CDFG). 2007. Unpublished data from a database of stream habitat surveys in Northwestern California for the years 1991-2003, acquired from Ron Rogers in 2007. California Department of Fish and Game, Sacramento, CA.
Pool Frequency (% by Length)	1994-2008	California Department of Fish and Game (CDFG). 2009. Unpublished data from a database of stream habitat surveys in Northwestern California for the years 1994-2008, acquired from Karen Wilson in 2009. California Department of Fish and Game, Sacramento, CA.
Pool Frequency (% by Length)	2005-2007	Mattole Restoration Council (MRC). 2008. Unpublished spreadsheet of stream habitat information for the Mattole River for the years 2005-2007, acquired from Nathan Queener on 5/15/2008. Mattole Restoration Council, Petrolia, CA.
Riparian Condition (conifers >36" dbh / 1000ft)	1990-2003	Oregon Department of Fish and Wildlife (ODFW). 2007. Unpublished geo-referenced stream survey data "Aquatic Inventories Project Habitat and Reach Data", downloaded from ODFW's statewide database. Oregon Department of Fish and Wildlife, Salem, OR.

Data Type	State/year	Reference
Sand (Dry Sample) (% <6.4 mm)	2002	Trinity County Resource Conservation District (TCRCD). 2003. South Fork Trinity River Water Quality Monitoring Project - Agreement No. P0010340 Final Report. Data included in the "Sediment: SF Trinity - Cumulative Percent Fines <0.85 mm, GMA 2002" topic of the Klamath Resource Information System (KRIS) Klamath-Trinity (available online at http://krisweb.com/krisklamathtrinity/krisdb/webbuilder/st_c49.htm). Prepared for California Department of Fish and Game by TCRCD, with assistance from Graham Matthews. Weaverville, CA. 77 pp.
Sand (Dry Sample) (% <6.4 mm)	1983-1995	North Coast Regional Water Quality Control Board. 2002. Unpublished fine sediment data for the Redwood Creek Basin for the years 1983-1995. Data included in the "Sediment: Percent Fines <1mm at Redwood Creek Mainstem Sites" topic of the Klamath Resource Information System (KRIS) Redwood. North Coast Regional Water Quality Control Board, Santa Rosa, CA.
Sand (Wet Sample) (% <6.4 mm)	1967-1996	PL [Pacific Lumber Company]. 1998. Sustained yield/Habitat Conservation Plan for the properties of The Pacific Lumber Company, Scotia Pacific Holding Company, and Salmon Creek Corporation. Public Review Draft.
Sand (Wet Sample) (% <6.4 mm)	1967-1996	Barnard, K. 1992. Physical and Chemical Conditions in Coho Salmon (<i>Oncorhynchus kisutch</i>) Spawning Habitat in Freshwater Creek, Northern California. Master's Thesis. Humboldt State University. Some data included in the "Sediment: Fines <0.85mm Salmon Creek, 1994" topic of the Klamath Resource Information System (KRIS) Humboldt Bay. Arcata CA. 81 pp. without appendices.
Sand (Wet Sample) (% <6.4 mm)	1992	Hoopa Valley Tribe Fisheries Department. 1997. Pine Creek Sediment Monitoring Project. Grey literature report submitted to USFWS Yreka, in fulfillment of a Klamath Task Force funded evaluation report of restoration in Pine Creek. Some data included in the "Sediment: Pine Creek Coho Expected Emergence, 1992-1993" topic of the Klamath Resource Information System (KRIS) Klamath Trinity Hoopa Valley Tribe Fisheries Department, Hoopa, CA.
Sand (Wet Sample) (% <6.4 mm)	1990	Sommarstrom, S., E. Kellogg and J. Kellogg. 1990. Scott River watershed granitic sediment study: Report for Siskiyou Resource Conservation District, 152 p. plus appendices.

Data Type	State/year	Reference
Sand (Wet Sample) (% <6.4 mm)	1990	Preston, L. 2002. Unpublished data of wet sieve McNeil samples from Lost Man Creek and seven mainstem Mattole sites in 1990 by Larry Preston. Data included in the "Sediment: Fines <4.7 mm Mattole South Subbasin, 1990" topic of the Klamath Resource Information System (KRIS) Mattole. California Department of Fish and Game, Eureka, CA.
Silt/Sand Surface (% riffle area)	Oregon 1990-2003	Oregon Department of Fish and Wildlife (ODFW). 2007. Unpublished geo-referenced stream survey data "Aquatic Inventories Project Habitat and Reach Data", downloaded from ODFW's statewide database. Oregon Department of Fish and Wildlife, Salem, OR.
Stream Corridor Vegetation (USFS judgment)	2000	U.S. Forest Service. 2000. Rating Watershed Condition: Reconnaissance Level Assessment for the National Forest of the Pacific Southwest Region in California. U.S.D.A. Forest Service, Region 5, San Francisco, CA. 31 p.
Temperature (MWAT) (C)	1995-1996	PL [Pacific Lumber Company]. 1998. Sustained yield/Habitat Conservation Plan for the properties of The Pacific Lumber Company, Scotia Pacific Holding Company, and Salmon Creek Corporation. Public Review Draft.
Temperature (MWAT) (C)	1997-2002	Klamath National Forest. 2003. Unpublished water temperature data for the Middle Klamath River watershed in 1997-2002, compiled by Klamath National Forest's Mark Reichert. Data included in the "Temperature: MWAT at Many Mainstem Klamath Sites by Year 1997-2002", "Temperature: MWAT at Many Mainstem Klamath Sites by Year 1997-2002", and "Temperature: MWAT at Many Scott R Sub-basin, by Year 1997-2002" topics of the Klamath Resource Information System (KRIS) Klamath-Trinity
Temperature (MWAT) (C)	2002-2003	Mattole Salmon Group (MSG). 2003. Final Report: Mattole Basin Channel Monitoring 2002 - 2003. Petrolia, CA.
Temperature (MWAT) (C)	1995-2001	North Coast Regional Water Quality Control Board (NCRWQCB). 2002. Unpublished water temperature data for the Mattole River watershed in 1995-2001. Data included in the "Temperature: MWATs of Mainstem Mattole River (Celsius)" topic of the Klamath Resource Information System (KRIS) Mattole North Coast Regional Water Quality Control Board, Santa Rosa, CA.

Data Type	State/year	Reference
Temperature (MWAT) (C)	1974-2001	North Coast Regional Water Quality Control Board (NCRWQCB). 2002. Unpublished water temperature data for the Redwood Creek watershed in 1974-2001. Data included in the "Temperature: MWATs at All Mainstem Redwood Creek Sites (1994-2001)" topic of the Klamath Resource Information System (KRIS) Redwood. North Coast Regional Water Quality Control Board, Santa Rosa, CA.
Temperature (MWAT) (C)	1999-2003	Friedrichsen, G. 2003. Eel River Baseline Temperature Final Report. Performed for the California Department of Fish and Game under Agreement No. P0110546. Humboldt County Resources Conservation District. Eureka, CA. 32 pp.
Temperature (MWAT) (C)	1990-1998	Lewis, T. E., D. W. Lamphear, D. R. McCanne, A. S. Webb, J. P. Krieter, and W. D. Conroy. 2000. Executive Summary: Regional Assessment of Stream Temperatures Across Northern California and Their Relationship to Various Landscape-Level and Site-Specific Attributes. Forest Science Project. Humboldt State University Foundation. Arcata, CA. 14 pp.
Temperature (MWMT) (C)	1994-2008	Green Diamond Resource Company. 2009. Unpublished water temperature data from Green Diamond's northern California land holdings for the years 1994-2008, acquired from David Lamphear. Green Diamond Resource Company, Korb, CA.
Temperature (MWMT) (C)	1998-2006	Oregon Department of Environmental Quality (ODEQ). 1997. Unpublished water quality data from the ODEQ Laboratory Analytical Storage and Retrieval (LASAR) database, exported and acquired from Robb Keller, 4/17/2007. Oregon Department of Environmental Quality, Salem, OR.
Temperature (MWMT) (C)	1990-1997	Southwest Oregon Province (SWOP). 1998. Unpublished water temperature data released on a CD of GIS Data.
Turbidity (hours >25 FNU)	2001-2007	Kier Associates. 2007. Unpublished turbidity data from multiple data sources within the SONCC coho salmon ESU, derived from various tables in the Klamath Resource Information System (KRIS). Kier Associates, Arcata, CA.
Turbidity (hours >25 FNU)	2003-2005	Klein, R., W. Trush, M. Buffleben. 2008. Watershed condition, turbidity, and implications for anadromous salmonids in northern coastal California streams. A Report to the California North Coast Regional Water Quality Control Board. Redwood National and State Parks, McBain and Trush, and California Regional Water Quality Control Board North Coast Region: Arcata and Santa Rosa, CA. 89 pp + appendices.

Data Type	State/year	Reference
Vstar	1992-1999	Halligan, D. and J. P. Fisher. 2001. Appendix F: Freshwater Creek Watershed Analysis - Fisheries Assessment. Review DRAFT. Prepared for Pacific Lumber Company (PALCO). Scotia, CA. 95 pp.
Vstar	1992-2001	Redwood Sciences Lab (RSL). 2001. Unpublished data regarding the proportions of pools filled by fine sediment (Vstar) in several creeks in the Klamath-Trinity watershed measured by Redwood Sciences lab crews in 1992-2001. Data included in the "Sediment: V* Horse Linto Creek 1992-2000" topic of the Klamath Resource Information System (KRIS) Klamath-Trinity. Redwood Sciences Lab, Arcata, CA.
Vstar	1994	Redwood Sciences Lab (RSL). 1994. Unpublished data regarding the proportions of pools filled by fine sediment (Vstar) in several creeks in the Scott watershed measured by Redwood Sciences lab crews in 1994. Data included in the "Sediment: Proportion in Pools (V*) French Creek by Reach 1994" topic of the Klamath Resource Information System (KRIS) Klamath-Trinity. Redwood Sciences Lab, Arcata, CA.
Vstar	1991-1993	Knopp, C. 1993. Testing indices of cold water fish habitat. Final report for development of techniques for measuring beneficial use protection and inclusion into the North Coast Region's Basin Plan by Amendment of the.....Activities, September 18, 1990. Data are included in the "Sediment: V* by NCRWQCB, 1992" topic of the Klamath Resource Information System (KRIS) Mattole North Coast Regional Water Quality Control Board in cooperation with California Department of Forestry. 57 pp.
Vstar	2000	Mattole Salmon Group (MSG). 2001. Unpublished data regarding the proportions of pools filled by fine sediment (Vstar) in the 2000 in the tributaries of the Mattole River. Data included in the "Sediment: V* Averages by Mattole Salmon Group for All Reaches, 2000" topic of the Klamath Resource Information System (KRIS) Mattole. Mattole Salmon Group, Petrolia, CA.
Vstar	2000-2003	Mattole Salmon Group (MSG). 2003. Final Report: Mattole Basin Channel Monitoring 2002 - 2003. Petrolia, CA.
Vstar	1992-2001	Redwood Sciences Lab (RSL). 2001. Unpublished data regarding the proportions of pools filled by fine sediment (Vstar) in the 1991-2001 for Little Lost Man Cr, Bridge Creek and the Mainstem of Redwood Creek at Emerald Cr. Data included in the "Sediment: V* From Little Lost Man Creek, 1992-2001" topic of the Klamath Resource Information System (KRIS) Redwood. Redwood Sciences Lab, Arcata, CA.

Data Type	State/year	Reference
Water Quantity/ Flow Regime (USFS judgment)	2000	U.S. Forest Service. 2000. Rating Watershed Condition: Reconnaissance Level Assessment for the National Forest of the Pacific Southwest Region in California. U.S.D.A. Forest Service, Region 5, San Francisco, CA. 31 p.
Wood Frequency ODFW (key pieces/mile)	1990-2003	Oregon Department of Fish and Wildlife (ODFW). 2007. Unpublished geo-referenced stream survey data "Aquatic Inventories Project Habitat and Reach Data", downloaded from ODFW's statewide database. Oregon Department of Fish and Wildlife, Salem, OR.
Wood Frequency USFS (score by stream width)	1990-1995	United States Forest Service. 1995. Unpublished geo-referenced stream survey data for the Rogue River-Siskiyou National Forest for the years 1989-1995, acquired from the Conservation Biology Institute (who compiled the data from multiple files). Rogue River-Siskiyou National Forest, Medford, OR.
Wood Frequency USFS (score by stream width)	1995-2006	United States Forest Service. 2006. Unpublished geo-referenced stream survey data for the Rogue River-Siskiyou National Forest for the years 1995-2006, acquired from the Rogue River-Siskiyou National Forest. Rogue River-Siskiyou National Forest, Medford, OR.

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Appendix D. Methods Used to Select Core Populations

NOAA's National Marine Fisheries Service (NMFS) considers the role each population is expected to play in a recovered Evolutionarily Significant Unit (ESU) to determine population abundance and juvenile occupancy targets for all the populations in the SONCC coho salmon ESU. Independent populations are evaluated using a modified Bradbury et al. (1995) framework. This evaluation produces a set of biological and habitat scores for each independent population which informs development of demographic targets for each independent population. NMFS' objective is to develop scientifically sound demographic targets that reflect each population's capacity for coho salmon production and potential for meeting demographic and threat abatement recovery criteria. Professional judgment is relied upon to rate biological integrity parameters.

D.1 Demographic Population Targets

NMFS identified five population categories and the method to establish demographic targets for each category (Table D-1). The rationale for NMFS' choice of each population's recovery role, and associated demographic targets, is described in Exhibits 1 to 7.

Table D-1. Population type (as determined by Williams et al. 2006), category, demographic target, and life stage used to measure progress toward target.

Type	Recovery Role	Demographic Target	Life Stage
Dependent	Dependent	Juvenile occupancy (80 percent of habitat occupied in years following spawning of brood years with high marine survival)	Juvenile
Independent	Non-Core 2		
	Non-Core 1	Moderate risk threshold (depensation threshold multiplied by four)	Spawner
	Core	≥ Low risk threshold	

Extirpated Populations

Some populations in the SONCC coho salmon ESU may be extirpated. To determine whether each extirpated population should have a recovery target, NMFS considers several questions related to coho salmon absence and potential for recovery.

Evidence of coho salmon absence

Have there been surveys that document the absence of coho salmon? How extensive have they been? How recently were they completed? Is there documented past presence or absence of coho salmon? How much uncertainty surrounds the information?

Prospects of coho salmon use

Are there characteristics of the watershed which suggest it will likely not support coho salmon in the future? What is the current condition of accessible habitat? What are the prospects for improvement of accessible habitat? What are the prospects for threat abatement?

Connectivity

Would designation as an extirpated population create a gap of more than 30 km (Williams et al. 2008) between population river mouths along the coastline? If so, a target of juvenile occupancy is required.

Dependent populations

All populations identified as dependent by Williams et al. (2006) are assigned the juvenile occupancy demographic target. If NMFS determines a dependent population is extirpated, it has no juvenile occupancy requirement.

Independent populations

To determine the appropriate target for each independent population, NMFS considers the current condition of the population and its habitat, as well as the role that population is expected to play in a recovered ESU (i.e., core, non-core).

Method used to score characteristics of independent populations

NMFS developed a framework to describe characteristics of each independent population, starting with a model provided by Bradbury et al. (1995). This model uses three groupings of criteria for ranking watersheds for Pacific salmon restoration prioritization: 1) biological and ecological resources (Biological Importance); 2) watershed integrity and salmonid extinction risk (Integrity and Risk); and 3) potential for restoration (Optimism and Potential). Some of the ranking criteria proposed under these categories are also used in the NMFS method, and NMFS developed additional criteria. Scores given to each criterion are based on information in the population profiles and professional judgment. Other factors that pertain to the potential success of restoration (e.g., economic, social, or political) are considered, and although they are not scored, they may influence the final choice of population category and demographic targets for independent populations. These other factors are described in Exhibits 1 through 7.

Biological Importance

Scores for Biological Importance are based on the concept of viable salmonid populations (VSP) (McElhany et al. 2000), and are used to describe the current status of the population – population size, productivity, spatial structure, and diversity. Almost all populations are information limited, so perceived differences between populations in population size, productivity, spatial structure, and diversity could be due to a lack of data rather than true differences. These limitations are described in Exhibits 1 to 7.

Population Size and Productivity

Coho salmon typically follow a three year life cycle, producing three cohorts. NMFS' rating of the current population size and productivity of populations is based on the number of cohorts present, the consistency of runs, and trends over time. The number of individuals (population size) and growth rate (productivity) of a population are interrelated risk factors that affect population viability over time. Small populations are subject to numerous risks due to low

abundance, whereas large populations are more resilient to the same risks. Productivity refers to production over the entire life cycle. The trends in abundance reflect the long-term population growth rate (McElhany et al. 2000).

The following metrics, described in Table D-2 through Table D-7, are especially important because a coho salmon population that drops to extremely low levels of abundance and productivity represent greater challenges for restoration and recovery. Scores are determined based on the following guidance.

Population Size

Table D-2. Metric used to assess population size parameter.

Score	Description
0	No coho salmon are produced by any cohort, AND any adults are likely strays.
1	Number of spawners is consistently (multiple generations) < 50 percent of the depensation threshold.
2	Number of spawners is consistently (multiple generations) ≥ 50 percent of the depensation threshold.
3	Number of spawners is consistently (multiple generations) > the depensation threshold.

Population Productivity

Table D-3. Metric used to assess population productivity parameter.

Score	Description
0	No coho salmon are produced in any cohort, AND any adults are likely strays.
1	At least one naturally-spawned cohort is absent, or close to absent, AND the other cohorts are not consistently present (at least six consecutive years) or show decreasing trends in abundance.
2	Three cohorts are consistently present (at least six consecutive years) AND all cohorts show decreasing trends in abundance.
3	Three cohorts are consistently present (at least six consecutive years) AND at least one cohort shows no change in trend in abundance or an increasing trend in abundance.

Spatial Structure and Diversity

NMFS expects that populations that are well distributed have a diverse array of life history traits and maintain greater genetic diversity. NMFS expects such populations will be more resilient and have higher potential for recovery than populations with diminished spatial structure and diversity.

Spatial Structure

The spatial structure of a population depends on habitat quality and spatial configuration, and the dynamics and dispersal characteristics of individuals in the population (McElhany et al. 2000).

The spatial structure rating is based on the current spatial extent of the population compared with the potential juvenile habitat, as described by a model of intrinsic habitat potential (IP).

Table D-4. Metric used to assess spatial structure parameter.

Score	Description
0	No coho salmon are present from any cohort, and any adults are likely strays.
1	Coho salmon occur in 0-25 percent of the IP habitat outside the temperature mask*.
2	Coho salmon occur in ≥ 25 but ≤ 50 percent of the IP habitat outside the temperature mask*.
3	Coho salmon occur in > 50 percent of IP habitat outside the temperature mask*.

*The temperature mask (Williams et al. 2006) was applied to the IP model results to exclude areas with high air temperatures from calculation of spawner targets.

Diversity

This parameter was made up of 50 percent Life History Diversity and 50 percent Genetic Diversity. Genetic Diversity included two equally-weighted elements: Hatchery Influence and Small Population Dynamics (depensation).

Life History Diversity

Within and among populations, coho salmon exhibit diverse life history traits which have the potential to enhance growth and survival of individuals in a spatially and temporally variable environment. Because populations are made up of individuals, maintaining diverse life history traits (1) allows for individuals to utilize a wide range of habitats; (2) protects species against short term spatial and temporal changes in habitat; and (3) increases the likelihood that some individuals will survive and reproduce. The diversity of life history traits expressed by individuals, and the availability of a diversity of habitats, spreads any risk to population viability over space and time (Weitkamp et al. 1995, Spence et al. 1996, McElhany et al. 2000).

Life history traits are phenotypic and genotypic characteristics which provide the potential for individuals to utilize multiple habitats in order to enhance growth and survival. These traits include: adult age, size, fecundity, run and spawning timing, and spawning behavior; egg size and developmental rate; juvenile physiology and behavior; smolt size, age, and outmigration timing; disease resistance; and ocean distribution patterns (Weitkamp et al. 1995, Spence et al. 1996, McElhany et al. 2000).

Table D-5. Metrics used to assess life history diversity parameter.

Score	Description
0.5	Diverse habitat types are not present, so potential for expression of atypical life history traits is not apparent, AND there is no evidence of expression of atypical life history traits.
1	Diverse habitat types are present, suggesting potential for expression of atypical life history traits, AND there is no evidence of expression of atypical life history traits.
1.5	Diverse habitat types are present, suggesting potential for expression of atypical life history traits, AND there is evidence of expression of atypical life history traits.

Hatchery Influence

Table D-6. Metrics used to assess hatchery influence parameter.

Score	Description
0.25	The proportion of hatchery strays in the spawning population is high (Proportion of Natural Influence [PNI] <0.3) in >50 percent of years, and these strays support the population.
0.5	The proportion of hatchery strays in the spawning population is moderate (PNI >0.5) in >50 percent of years, and these strays do not support the population.
0.75	The proportion of hatchery strays in the spawning population is low or zero (PNI >0.7) in >50 percent of years, and these strays do not support the population.

Small Population Dynamics (Depensation)

Small populations tend to have less genetic diversity than large ones. The depensation threshold is used to define a small population. The score for small population dynamics as it relates to genetic diversity can be calculated by multiplying the population's score for population size (Table D-2) by 0.25.

Table D-7. Metrics used to assess small population dynamics parameter.

Score	Description
0	No coho salmon are produced by any cohort AND any adults are likely strays.
0.25	Number of spawners is consistently (multiple generations) < 50 percent of depensation threshold.
0.5	Number of spawners is consistently (multiple generations) 51 percent to 100 percent of depensation threshold.
0.75	Number of spawners is consistently (multiple generations) greater than depensation threshold.

Habitat Integrity and Risks

The Habitat Integrity and Risks parameter describes the relative habitat integrity (lack of human-caused disturbance; Bradbury et al. 1995) and relative risk to current biological and ecological resources (Bradbury et al. 1995) in each population. The following metrics were chosen to assess Habitat Integrity and Risks because they were related to the parameter, and because numeric data describing them were readily available.

Road Density

This metric is the average density (miles per square mile) of roads in the population area. It is based on the rationale that areas with high road densities are more prone to unnatural levels of disturbance and relatively high rates of chronic sedimentation, while areas with lower road densities have a higher integrity and less risk. Scores were based on a frequency distribution of road density data from the populations in the ESU divided into roughly equal thirds and scored as 3 for the lowest third (road density 1.6-2.5), 2 for the middle third (2.6-3.0), and 1 for the highest third (3.24-12.59).

Number of Stresses Ranked High or Very High

This metric is the total number of high or very high stresses indicated in the stress summary tables from population profiles. It is based on the rationale that numerous high-level stresses are an indication of a lower ecological integrity and higher degree of risks. Scores were based on a frequency distribution of the number stresses for each population in the ESU divided into roughly equal thirds and scored as 3 for the lowest third (0-3), 2 for the middle third (4-6), and 1 for the highest third (7-9).

Slope

This metric is the proportion of the watershed with a percentage of slope ≥ 55 percent based on GIS analysis of 30-meter digital elevation model. It is based on the rationale that populations within a stratum with more high-gradient area are more likely to experience large-scale disturbance (e.g., mass-wasting), whereas areas with a less high-gradient habitat are likely to experience these disturbances on a smaller scale within the landscape. Scores were based on a frequency distribution of proportion watershed with slope ≥ 55 percent for each population divided into roughly equal thirds and scored as 3 for the lowest third (proportion 0.04-0.09), 2 for the middle third (0.11-0.24), and 1 for the highest third (0.26-0.51).

Forest Integrity

This metric is based on the percentage of large trees (>30" or >20" depending on location) and change scene detection (percent harvested, percent change due to other impacts). Both are GIS-based and determined from LandSat imagery. This metric was chosen based on the rationale that areas that have a higher degree of mature forest and/or have been less impacted by timber harvest have a higher resiliency and more ecological integrity. Large tree scores were based on a frequency distribution of data from the ESU divided into roughly equal thirds and scored as 0.5 for the lowest third, 1 for the middle third, and 1.5 for the highest third. Harvest scores were based on a frequency distribution of data from the ESU divided into roughly equal thirds and scored as 1.5 for the lowest third, 1 for the middle third, and 0.5 for the highest third. These two scores were then combined for the overall score.

Optimism and Potential

The Optimism and Potential parameter describes the relative degree of optimism that freshwater or estuarine ecosystems can be protected or restored and the potential benefits to populations if protection and restoration are effective (Bradbury et al. 1995). The following metrics were chosen to assess Optimism and Potential because they are related to the parameter, and numeric data is readily available.

Public Land

This metric is the percent of land within the population that is in public ownership. Populations within a stratum with more public land are assumed to benefit from higher standards of management and greater ease of implementation of recovery measures. Individual scores were based on a frequency distribution of data from the ESU divided into roughly equal thirds and scored as 1 for the lowest third, 2 for the middle third, and 3 for the highest third.

California State Recovery Priority

The California Department of Fish and Game (CDFG) Coho Recovery Strategy (CDFG 2004) used a prioritization model to predict restoration and management potential based on the existing population status, risks, and watershed condition. This metric, which is based on the CDFG scores of restoration and management potential, indicates which areas the state of California believes have the greatest likelihood for successful coho recovery. A similar metric is not available for Oregon populations. Scores were based on a frequency distribution of scores for each population in the ESU divided into roughly equal thirds and scored as 1 for the lowest third (score 1.0-1.5), 2 for the middle third (2.0-3.2), and 3 for the highest third (3.3-5.0).

Number of Threats Ranked High or Very High

This metric is the total number of high or very high threats as shown in the threat summary tables from population profiles. It is based on the rationale that numerous high-level threats means there likely is a lower ecological integrity, higher degree of risk, and a reduced potential for success. Scores were based on a frequency distribution of the number of high/very high threats for each population in the ESU and were divided into roughly equal thirds and scored as 3 for the lowest third (0-3), 2 for the middle third (4-6), and 1 for the highest third (7-9).

Number of Other Listed Anadromous Salmonid Species

This metric is the number of other NMFS-listed anadromous species (e.g., Chinook salmon, steelhead) that occur within the population area. It is based on the rationale that a population with more listed species is more likely to be high priority for restoration and will likely attract more restoration effort. Scores were based on a frequency distribution of number species for each population in the ESU divided into roughly equal thirds and scored as 1 for the lowest third, 2 for the middle third, and 3 for the highest third.

Number of Other Non-Listed Anadromous Salmonid Species

This metric is the number of non-listed anadromous salmonid species that occupy the population area. It is based on the rationale that populations with other anadromous salmonid species maintain some of the habitat features that are critical for supporting coho salmon populations. Scores were based on a frequency distribution of number salmonid species for each population in the ESU divided into roughly equal thirds and scored as 1 for the lowest third (0-2 species), 2 for the middle third (3-4), and 3 for the highest third (5-6).

Using Ratings to Choose Core Populations

NMFS considers the population ratings to inform the choice of core populations. Consistent with Bradbury et al. (1995), NMFS places most importance on the Biological Importance (BI) score. The BI scores, and other BI-related considerations, play a strong role in the decision because they are relevant to how quickly a population can improve from its current state. Populations with the highest BI scores are likely in the best condition and are expected to recover more quickly than populations with lower BI scores. The scores for the other two categories are considered if the BI scores do not support a clear choice.

Using Ratings to Determine Targets for Non-Core Populations

There are a range of possible targets for non-core populations, and reasons why a particular target may be chosen. NMFS considers two factors when setting these targets: 1) What are the prospects for recovery in a particular population? NMFS uses the scores described in the appropriate sections (i.e., D.1 through D.7) to answer this question; and 2) Given what was learned for factor 1, what role does each population need to play in a recovered ESU? Is the population more or less important as a source to recolonize areas? The rationale for selection of particular targets for each population is explained in the appropriate section below (i.e., D.1 through D.7).

Non-Core 2

The target for populations in this category is 80 percent of habitat occupied in years following spawning of brood years with high marine survival (Table 4-1). NMFS chooses this target if the chance of recovery of a coho salmon population in a basin is very low, but it is feasible that some habitat could be restored to support all life stages of coho salmon. If strays were to arrive, the basin would be able to support all life stages, and juveniles may be observed in some years. A population with this target would not be relied upon to provide a source of colonists for other populations.

Non-Core 1

The target for populations in this category is the four spawners per IP-km (see Section 2.3.2). NMFS chooses this target if the population is likely to ultimately produce considerably more than the depensation threshold, but less than the low risk threshold.

Core

The target for populations in this category is the low risk threshold. NMFS chooses this target for a population after considering its current condition, its geographic location in the ESU, its low risk threshold compared to the number of spawners needed for the entire stratum, and other factors. The rationale for selection of particular core populations is explained in the appropriate section below (i.e., D.1 through D.7).

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D.2 Northern Coastal Stratum Population Targets

Application of the method used to select each population's recovery role (i.e., core, non-core 1, non-core 2, extirpated) and identification of appropriate population adult spawner abundance or juvenile occupancy targets resulted in the following Biological Importance (BI), Integrity and Risks (IR), and Optimism and Potential (OP) scores; discussion of other related considerations such as cost; and conclusion. Unless otherwise noted, results are based on information presented in Northern Coastal Stratum population profiles.

Table D-8. Biological Importance (BI) Score for Northern Coastal Populations.

Biological Importance Score							
Population				Diversity			Total
	Abundance	Productivity	Spatial	Life History	Hatchery	Depensation	
Chetco River	2	2	2	1	0.75	0.25	8
Elk River	2	2	2	1	0.75	0.25	8
Lower Rogue River	2	2	1	1	0.5	0.5	7
Winchuck River	1	1	1	1	0.75	0.25	5

Available data indicate the Winchuck River population abundance is currently well below the depensation threshold, while the Elk River, Chetco River, and Lower Rogue River populations have at least one year class that is likely above the depensation threshold. Coho salmon in the Chetco River and Elk River populations are believed to occupy a higher percentage of the IP habitat in their basins, while the Lower Rogue River population is believed to be constrained to a few tributaries.

The extent of life history diversity is rated the same for all populations due to similar coastal and estuary condition. Hatchery influence is of low concern in the Chetco River, Elk River, and Winchuck populations. However, stray coho salmon from the Cole Rivers hatchery are known to occasionally spawn in the Lower Rogue River. The Lower Rogue River population supports more coho salmon than the others, so it is less affected by depensatory effects.

Table D-9. Integrity and Risks (IR) Scores for Northern Coastal Populations.

Integrity and Risks Score					
Population	Road	Stress	Slope	Forest	Total
Chetco River	3	2	1	3	9
Elk River	3	3	1	3	10
Lower Rogue River	1	2	2	2	7
Winchuck River	3	2	1	2	8

Road density is higher in the Lower Rogue River than in the other populations. There were no scored differences in the number of high or very high stresses across populations. The Lower Rogue River has a lower incidence of steep slopes compared to the other populations.

Populations with more high-gradient areas may be more vulnerable to large-scale disturbance than areas with less high-gradient areas. The forest integrity of the Chetco and Elk rivers was rated higher than that of the other population area, suggesting more mature forest and more resiliency and ecological integrity in the Chetco River and Elk River populations.

Table D-10. Optimism and Potential (OP) Scores for Northern Coastal Populations.

Optimism and Potential						
Population	Federal Land	CDFG	Listed Species	Species	Threat	Total
Chetco River	3	NA	0	2	2	7
Elk River	3	NA	0	2	2	7
Lower Rogue River	2	NA	0	3	2	7
Winchuck River	3	NA	0	2	2	7

The proportion of publicly-owned land is greater in the Chetco River, Elk River, and Winchuck River populations than in the Lower Rogue River population. Populations with more public land are assumed to benefit from higher standards of management and greater ease of implementation of recovery measures. There are more salmonid species in the Lower Rogue River than in the other populations. A population with more salmonid species may maintain more of the habitat features critical for supporting coho salmon populations than a population with less salmonid species. There are less highly-ranked threats in the Elk River and Winchuck River than the other populations, possibly indicating greater ecological integrity and a greater potential for success in restoring coho salmon.

The Elk River has great potential for recovery due to an ongoing public effort to protect and restore salmon habitat, as well as the management of a large portion of the watershed as Wilderness or a Late Successional Reserve. All population areas possess suitable private land which could contribute toward restoration if state, federal, or private funding was available.

Other Considerations

Cost

Preliminary results indicate the total cost of recovery actions needed in each potential core population is as follows:

- Elk River – \$20 million
- Lower Rogue River - \$30 million
- Chetco River - \$27 million
- Winchuck River - \$14 million

The cost estimates reflect the recovery role for each population. Therefore, the cost estimates for recovery actions identified for non-core populations do not include recovery actions that may be necessary were they made core populations. Cost estimates are often based on the size of a watershed, or length of IP, making costs to produce nearly equal number of spawners disproportionately large for small population areas, and vice versa.

Preliminary cost estimates reveal the cost of recovery actions identified for the Lower Rogue River population is higher than the cost for the other populations. This result is due to extensive road treatment and decommissioning actions, as well as estuarine restoration, in the Lower Rogue River. Although the Lower Rogue River is not proposed as a core population, the estuarine restoration actions there are needed by other populations in the Rogue basin. If the Chetco River was not selected as a core population, then the remaining three populations would have to be selected in order to meet the stratum 50% abundance threshold. This scenario would result in a more costly scenario.

Table D-11. Score Summary for Northern Coastal Populations.

Population	BI	IR	OP	Total	Low Risk Spawner Threshold
Chetco River	8	9	7	24	4,500
Elk River	8	10	7	25	2,400
Lower Rogue River	7	7	7	21	3,000
Winchuck River	5	8	7	20	2,200
Number spawners needed to meet stratum requirement (50% of total)					6,050

Table D-12. Spawner Targets for Northern Coastal Populations.

Population	Recovery Role	Target
Chetco River	Core	4,500
Elk River	Core	2,400
Lower Rogue River	Non-Core 1	320
Winchuck River	Non-Core 1	230
		Total Core : 6,900 Spawners

The Chetco River and Elk River populations are the best choices for core populations in this stratum primarily because the coho salmon populations found there are in the best condition. In addition, their IR scores are the highest, indicating greater watershed integrity. The core population targets would result in a low risk of extinction. The Lower Rogue River and Winchuck River targets would result in a moderate risk of extinction.

D.3 Interior Rogue Stratum Population Targets

Application of the method used to select each population's recovery role (i.e., core, non-core 1, non-core 2, extirpated) and identification of appropriate population adult spawner abundance or juvenile occupancy targets resulted in the following Biological Importance (BI), Integrity and Risks (IR), and Optimism and Potential (OP) Scores; discussion of other related considerations such as cost; and conclusion. Unless otherwise noted, results are based on information presented in Interior Rogue River Stratum population profiles.

Table D-13. Biological Importance (BI) Score for Interior Rogue Populations.

Biological Importance Score							
Population				Diversity			Total
	Abundance	Productivity	Spatial	Life History	Hatchery	Depensation	
Upper Rogue River	3	2	2	1	0.5	0.75	9.25
Middle Rogue/Applegate	3	2	1	1	0.75	0.75	8.5
Illinois River	3	2	2	1	0.75	0.75	9.5

The number of adults in each population is consistently greater than the depensation threshold, and all populations have three cohorts consistently present. The Illinois and Upper Rogue have more adult coho salmon than the Middle Rogue/Applegate River.

Juvenile coho salmon are better distributed in the Upper Rogue River and Illinois River population areas than in the Middle Rogue/Applegate population areas (between 25 and 50 percent of IP occupied, compared to 0 to 25 percent occupied). Juvenile density is higher in the Upper Rogue River and Illinois River populations than in the Middle Rogue/Applegate River.

Diversity measures are the same across all populations, except hatchery influence is greater in the Upper Rogue River than in the other two populations.

Table D-14. Integrity and Risks (IR) Scores for Interior Rogue Populations.

Integrity and Risks Score					
Population	Road	Stress	Slope	Forest	Total
Upper Rogue River	1	1	3	3	8
Middle Rogue/Applegate	1	1	1	2	5
Illinois River	2	1	1	2	6

The road density is lower in the Illinois River than in the other two populations. There were no scored differences in the number of high or very high stresses in the three populations. The Upper Rogue River has a lower incidence of steep slopes than seen in the other two populations. Populations with more high-gradient areas may be more vulnerable to large-scale disturbance

than areas with less high-gradient areas. The forest integrity of the Upper Rogue River was rated higher than that of the Middle Rogue/Applegate and Illinois Rivers, indicating there is more mature forest and so more resiliency and ecological integrity in the Upper Rogue River.

The natural hydrograph of the Illinois River is still in place and not affected by dams as are the Upper Rogue (William L. Jess Dam) and Middle Rogue/Applegate Rivers (William L. Jess and Applegate dams).

Table D-15. Optimism and Potential (OP) Scores for Interior Rogue Populations.

Optimism and Potential Score						
Population	Public Land	CDFG	Listed Species	Species	Threat	Total
Upper Rogue River	2	NA	0	3	1	6
Middle Rogue/Applegate	3	NA	0	3	1	7
Illinois River	3	NA	0	3	1	7

The proportion of publicly-owned land is greater in the Middle Rogue/Applegate River and Illinois Rivers than in the Upper Rogue River. Populations with more public land may benefit from higher standards of management and greater ease of implementation of recovery measures. More public land is owned by the U.S. Forest Service than BLM in the Illinois River basin. The U.S. Forest Service and BLM currently manage land under the Northwest Forest Plan. All three populations host at least five salmonid species. A population with more salmonid species may maintain more of the habitat features critical for supporting coho salmon populations than a population with less salmonid species. The threat rating for the Upper Rogue River was less than for the other two populations, possibly indicating greater ecological integrity and a greater potential for success in restoring coho salmon.

Recent removal of mainstem dams on the Upper Rogue River has restored passage to much of the basin. Much of the Middle Rogue River is too steep for coho salmon, and many of the lower gradient areas are highly impacted and do not present a great opportunity for restoration. The Applegate is less impacted, but has less recovery potential than the Illinois River. All population areas possess suitable private land which could contribute toward restoration if state, federal, or private funding was available.

Other Considerations

Cost

Preliminary results indicate the total cost of recovery actions needed in each potential core population is as follows:

- Illinois River – \$251 million
- Upper Rogue River - \$509 million
- Middle Rogue/Applegate River - \$455 million

The cost estimates reflect the recovery role for each population. Therefore, the cost estimates for recovery actions identified for non-core populations do not include recovery actions that may be necessary were they made core populations. Cost estimates are often based on the size of a watershed, or length of IP, making costs to produce nearly equal number of spawners disproportionately large for small population areas, and vice versa.

Table D-16. Score Summary for Interior Rogue Populations.

Population	BI	IR	OP	Total	Low Risk Spawner Threshold
Upper Rogue River	9.25	8	6	23.25	18,000
Middle Rogue/Applegate	8.5	5	7	20.5	14,700
Illinois River	9.5	6	7	22.5	11,800
Number spawners needed to meet stratum requirement (50% of total)					22,250

Table D-17. Spawner Targets for Interior Rogue Populations.

Population	Recovery Role	Target
Upper Rogue River	Core	13,800
Middle Rogue/Applegate	Non-Core 1	2,400
Illinois River	Core	11,800
		Total Core : 25,600 Spawners

The Upper Rogue River and Illinois River populations are the best choices for core populations in this stratum, primarily because the coho salmon populations found there are in the best condition. In addition, the Upper Rogue has more mature forest and the lowest number of threats compared to the other population areas, and the Illinois has greater recovery potential than the Middle Rogue because it is less urbanized. The core population targets would result in a low risk of extinction. The Middle Rogue/Applegate River target would result in a moderate risk of extinction.

D.4 Central Coastal Stratum Population Targets

NMFS applied the modified Bradbury et al. (1995) framework to the Central Coastal Stratum to select each population's recovery role (i.e., core, non-core 1 or 2, extirpated) and to identify the population spawner abundance or juvenile occupancy targets. Application of the framework resulted in the following Biological Importance (BI), Integrity and Risk (IR), and Optimism and Potential (OP) scores for each independent population in the stratum. The BI score for this stratum represents the mean of four staff scores, which are largely based upon best professional judgment given the paucity of data within the stratum. Otherwise, results are based on information presented in the Central Coastal Stratum population profiles.

Table D-18. Biological Importance (BI) Scores for Central Coastal Populations.

Biological Importance							
Population	Abundance Score	Productivity Score	Spatial Score	Life History	Hatchery	Depensation	BI Score
Little River	3	3	3	1	0.75	0.75	11.5
Lower Klamath R.	2	2	3	1.5	0.5	0.5	9.5
Mad River	2	2	2	1.5	0.75	0.5	8.75
Redwood Creek	3	2	2	1.5	0.75	0.75	10
Smith River	2	2	2	1.5	0.75	0.5	8.75

Population abundance is uncertain as surveys are few and results are variable. Data from Redwood Creek are some of the most robust within the stratum, with data sets spanning 12 years. However, the most robust data on spawner abundance is from Prairie Creek, a tributary to Redwood Creek. Data indicate that spawner escapement in Prairie Creek is highly variable between years, ranging from 680 spawners in 2002 to a low of 28 adults in 2010. Within the five-year period from 2007 to 2011, three of five years the spawner estimates for Prairie Creek exceeded the depensation threshold of 151 spawners calculated for Redwood Creek watershed, although during one of those years the estimate was very close to depensation. Prairie Creek is a stronghold for coho salmon in Redwood Creek, whereas very little production is documented elsewhere in the watershed. In contrast, data are limited for the Little River, Mad River, and Smith River. Based upon NMFS' professional judgment, Little River likely produces equal to or greater than the depensation threshold (34), whereas population abundance in the Mad and Smith rivers are likely below depensation (153 and 325, respectively). Finally, NMFS debated whether the data from the Lower Klamath was reliable. While the data suggest that the Lower Klamath is likely above the depensation threshold, staff members were concerned that the use of juvenile data may poorly reflect abundance and distribution of the population due to the presences of juveniles from upper basin populations (non-natal rearing).

Table D-19. Integrity and Risks (IR) Scores for Central Coastal Populations.

Integrity and Risks					
Population	Roads Score	Stress Score	Slope Score	Forest Score	IR Score
Little River	1	3	3	2	9
Lower Klamath River	1	2	2	2	7
Mad River	1	2	2	2	7
Redwood Creek	1	2	3	3	9
Smith River	1	2	1	2	6

Road density is of concern throughout the stratum, and as such, each basin scored a one for road density. Populations differ, however, according to the remainder of the metrics that make up the Integrity and Risk score. The larger of the basins in this stratum, the Lower Klamath, Smith, and Mad rivers, and Redwood Creek scored as a two for high-level stresses. The Smith River scored low in the slope metric due to the proportion of the basin contained in high gradient reaches; however, the metric oversimplifies the relationship between slope and the risk of mass wasting. While the Smith River may have a higher proportion of steep slopes than other watersheds within the stratum, the underlying geology is inherently different between the Smith River and the other basins within the stratum. The Smith River basin contains more competent rocks (primarily Josephine Ophiolite sequence) and produces coarser grain landslides that tend to be less detrimental to fish and their habitat, and can contribute to the formation and maintenance of spawning habitat. In contrast, other basins within the stratum consist primarily of sedimentary rocks, which produce finer grain landslides that can severely damage salmonid habitat. Consequently, NMFS considered the final IR scores for each population in concert with relative strength of each metric in arriving at the final recommendation for the core populations for the stratum.

Table D-20. Optimism and Potential (OP) Scores for Central Coastal Populations.

Optimism and Potential						
Population	Land Score	CDFG Score	Listed Species Score	Species Score	Threat Score	OP Score
Little River	1	3	2	2	3	11
Lower Klamath River	2	3	1	3	2	11
Mad River	2	3	3	3	2	13
Redwood Creek	2	3	3	3	3	14
Smith River	3	3	1	3	2	12

The three highest scoring populations for Optimism and Potential (OP) are the Mad River, Smith River, and Redwood Creek. The number of listed anadromous fish species influences this score with the Mad River and Redwood Creek occurring within the range of all listed anadromous fish within the stratum. That is, although Pacific eulachon are listed within the Central Coastal stratum, they are generally relegated to larger watersheds such as the Lower Klamath, Smith, and Mad rivers. In contrast, the Northern California steelhead DPS and the California Coastal

Chinook salmon ESU are limited to watersheds south of the Klamath River. Thus, the Mad River and Redwood Creek contain the highest number of listed anadromous fish species. The final OP score for the Smith River also reflects the fact that this basin has the highest proportion of lands within public ownership.

Other Considerations

Climate change

The anticipated effect of future climate change influenced the final core populations selected for this stratum. NMFS expects that projected temperature increases and changes in precipitation patterns from climate change models would have a relatively smaller effect on coho salmon and their habitat in the Smith River basin than other watersheds within the stratum. Because the headwaters of the Smith River originate on US Forest Service land, which is managed to protect water quality and quantity, and water quantity and water temperatures are not currently limiting coho salmon in the Smith River, the Smith River population may be more buffered from the effects of climate change. NMFS expects that climate change would not decrease the availability of suitable habitat for coho salmon in the Smith River, or if suitable habitat were to decline due to climate changes, then we would expect such declines to be less severe than the declines that would occur in neighboring basins.

Cost

Preliminary results indicate the total cost of recovery actions needed in each potential core population of this stratum is as follows:

Smith River - \$136 million
Lower Klamath River - \$158 million
Redwood Creek - \$139 million
Mad River - \$116 million
Little River – \$23 million

The cost estimates reflect the recovery role for each population. Therefore, the cost estimates for recovery actions identified for non-core populations do not include recovery actions that may be necessary were they made core populations. Cost estimates are often based on the size of a watershed, or length of IP, making costs to produce nearly equal number of spawners disproportionately large for small population areas, and vice versa.

Table D-21. Score summary for Central Coastal Populations.

Population	BI Score	IR Score	OP Score	Total Score	Low Risk Spawner Threshold
Little River	11.5	9	11	31.5	1,400
Lower Klamath River	9.5	7	11	27.5	5,900
Mad River	8.75	7	13	28.75	4,500
Redwood Creek	10	9	14	33	4,900
Smith River	8.75	6	12	26.75	6,800
Number spawners needed to meet stratum requirement (50% of total)					12,550

Given the paucity of data to inform the scoring methodology, NMFS spent considerable time deliberating the merits of choosing the populations with the highest overall scores. According to above BI scores the Smith River and Mad River tied for the third highest scoring population. After much deliberation, NMFS decided the Lower Klamath River, Redwood Creek, and Smith River should be designated as core populations. Rationale for recommendation:

Lower Klamath River – CORE

- Abundance likely above depensation threshold
- Estuarine habitat is considered some of the highest quality in the stratum
- Supports upstream populations in the Interior Klamath Stratum and the Interior Trinity Stratum, five of which are core populations
- Currently coho salmon are widely distributed

Smith River – CORE

- Northern expression within stratum, key basin for seeding dependent populations nearby and maintaining metapopulation structure with populations in most northern extent of SONCC ESU coho salmon range (northern coastal stratum)
- Unique geology (Siskiyou bioregion)
- Cold water tributaries originate in Siskiyou Mountains; within stratum considered basin most resilient to climate change; water temperatures likely least impacted within stratum
- Hydrology considered less impacted than other basins within stratum; no large hydroelectric dams, headwaters contained within wilderness or other public land
- Steep geology, possibly more springs than other basin
- Currently coho salmon are widely distributed

Redwood Creek – CORE

- Abundance likely below depensation threshold
- Only basin in stratum with documented 2 year freshwater rearing of juveniles
- Lower watershed managed by Redwood National and State Parks, which has goals that include recovering listed species
- Currently coho salmon are suspected to have a limited distribution

Mad River – Non-Core 1

- Neighboring basin to south coastal stratum; would assist in seeding and maintaining metapopulation dynamics
- Optimism increasing; increasing interest in disperse parties for restoring/making improvements; most urban development within stratum
- Currently coho salmon are moderately distributed

Little River – Non-Core 1

- Abundance likely above depensation threshold; however, population considered too small to contribute substantially to the 50% target for stratum viability
- Presently considered “potentially independent” population; genetic studies needed to determine if supports a unique population or clusters with neighboring basin
- Majority of watershed in Green Diamond ownership and covered by AHCP; fate of population highly dependent upon Green Diamond management practices.
- Estuarine habitat degraded by grazing practices
- High spawner requirement likely difficult to meet

Table D-22. Spawner Targets for Central Coastal Populations.

Population	Category	Target
Little River	Non-Core 1	140
Lower Klamath River	Core	5,900
Mad River	Non-Core 1	550
Redwood Creek	Core	4,900
Smith River	Core	6,800
		Total Core : 17,600 spawners

The Lower Klamath River, Redwood Creek, and Smith River are considered the best candidates to serve as the core populations in this stratum because these populations represent the populations that NMFS believes have the highest likelihood of persisting as strongholds in the face of climate change. With the exception of Redwood Creek, these basins also currently contain the widest in-basin distribution of coho salmon, which suggests that these basins are more resilient to stochastic events and within basin re-seeding can occur. Although the distribution of coho salmon within Redwood Creek is limited, Redwood Creek, in particular Prairie Creek, is an important stronghold within the stratum at present and is expected to persist due to the protections afforded the watershed by Redwood National and State Parks. Similarly, the Smith River contains a considerable amount of protected habitat because much of the watershed is contained within US Forest Service lands and the Redwood National and State Parks.

Literature Cited

Bradbury, B., W. Nehlsen, T.E. Nickelson, K.M.S. Moore, R.M. Huges, D. Heller, J. Nicholas, D.L. Bottom, W.E. Weaver, R.L. Beschta. 1995. Handbook for prioritizing watershed protection and restoration to aid recovery of native salmon. 56 p.

D.5 Interior Klamath Population Targets

Application of the method used to select each population's recovery role (i.e., core, non-core 1, non-core 2, extirpated) and identification of appropriate population adult spawner abundance or juvenile occupancy targets resulted in the following Biological Importance (BI), Integrity and Risks (IR), and Optimism and Potential (OP) Scores; summary of findings; discussion of other related considerations such as cost; and conclusion. Unless otherwise noted, results are based on information presented in Interior Klamath Stratum population profiles.

Table D-23. Biological Importance (BI) Score for Interior Klamath populations.

Population	Abundance Score	Productivity Score	Spatial Score	Life History Score	Hatchery Score	Depensation Score	BI Score
Mid-Klamath	3	2	3	1	0.75	0.75	10.5
Salmon	1	2	1	0.5	0.75	0.25	5.5
Scott	3	2	3	1	0.5	0.75	10.25
Shasta	1	1	1	1.5	0.25	0.25	5
Upper Klamath	2	2	1	1	0.25	0.5	6.75

Table D-24. Integrity and Risks (IR) Scores for Interior Klamath populations.

Population	Roads Score	Stress Score	Slope Score	Forest Score	IR Score
Mid-Klamath	3	1	1	3	8
Salmon	3	3	1	3	10
Scott	2	2	2	3	9
Shasta	3	1	3	3	10
Upper Klamath	2	1	2	3	8

Table D-25. Optimism and Potential (OP) Scores for Interior Klamath populations.

Population	Land Score	CDFG Score	Listed Species Score	Species Score	Threat Score	OP Score
Mid-Klamath	3	2	0	3	3	11
Salmon	3	2	0	3	3	11
Scott	2	3	0	2	1	8
Shasta	2	3	0	2	2	9
Upper Klamath	2	3	0	2	1	8

Summary of Population Profile Findings

Scott River Population

- High natural production in recent history.
- Current distribution of coho salmon in the Scott River is widespread.
- Exhibits a wide variety of habitats and life histories.
- Limiting factors that currently limit production are well understood.
- Potential for high production given the high IP, and large runs of Chinook.
- One strong brood year.
- Strong monitoring program exists.

Shasta River Population

- Low numbers of abundance contrast with high value of Integrity and Optimism.
- High production of Chinook salmon currently exists, indicating production value for coho could exist if limiting factors are addressed.
- Diversify of habitat features (e.g., spring flow dominated hydrology) and life history traits contribute to the overall adaptability and resiliency of the stratum to combat future climate effects and catastrophic events.
- Stressors are well understood, as are the identification of effective restoration priorities.
- Location allows for strays to support other populations.
- Recent success in acquiring more than 6,000 acres within the Big Springs Complex increases optimism for long term recovery.
- Large quantity of high IP habitat.
- Strong monitoring program exists.

Upper Klamath Population

- Optimism high given the KHSA/KBRA.
- Population comprised of a series of small streams, some intermittent.

- High quality habitat above Iron Gate Dam will be made available upon fish passage. Cold water tributaries will provide refugia from climate effects.
- Selection as core allows for full extent and range of occupied habitat to be restored, enhancing the spatial structure of the ESU.
- Location allows for strays to support other populations.
- Moderate monitoring program exists (Bogus Creek, Iron Gate Hatchery).

Middle Klamath Population

- Population may be above depensation threshold.
- Provides non-natal rearing habitat and migratory habitat.
- Comprised of a series of low production tributaries with generally monotypic habitat features.
- Formation of low gradient coho habitat systems is constrained by the geology of the Klamath Mountain geomorphic province (particularly the northern range). Deep soils, steep slopes, high precipitation and sediment yields are natural factors controlling the geomorphology within the Middle Klamath population unit. This geomorphology naturally confines coho distribution and abundance.
- Habitat condition is currently good relative to Shasta and Scott.
- High amount of public land ownership
- Concern that recovery actions will not result in population response to the degree necessary to meet the low risk threshold.
- Poor monitoring program exists.

Salmon River Population

- Geology is rocky and does not provide a lot of high IP habitat
- Carrying capacity of the sub-basin is likely lower than other populations in stratum

Other Considerations

Co-manager comments

Co-manager comments included recommendations to (1) re-consider the Shasta population as a core population and replace the selection with the Middle Klamath population; and (2) re-evaluate depensation threshold targets for non-core populations.

We did not find compelling evidence to re-configure the original recommendation to select Upper Klamath, Shasta River, and Scott River as core populations for the Klamath Interior stratum. The decision to select the Shasta River population is based on the factors described above including: a clear understanding of limiting factors and restoration priorities, a high potential for production value, a diversity of life history strategies and habitat features, and a long term data and strong monitoring program. No new information was discovered that warranted changing the selections of the Scott and Upper Klamath populations as core.

Revised IP

The amount of IP above Dwinnell Dam in the Shasta River was calculated and removed from the IP value used to calculate the population’s spawner target, but was included in the calculation for the population’s low-risk spawner threshold which contributes to the 50% stratum viability target.

IP was revised due to previously unaccounted for natural barriers in the Salmon, Scott, and Shasta river population areas. These revisions are described in Appendix A.

Cost

Preliminary results indicate the total cost of recovery actions needed in each potential core population is as follows:

- Upper Klamath - \$668 million
- Shasta River - \$203 million
- Scott River - \$296 million
- Mid-Klamath - \$50 million
- Salmon River - \$25 million

The cost estimates reflect the recovery role for each population. Therefore, the cost estimates for recovery actions identified for non-core populations do not include recovery actions that may be necessary were they made core populations. Cost estimates are often based on the size of a watershed, or length of IP, making costs to produce nearly equal number of spawners disproportionately large for small population areas, and vice versa.

Table D-26. Score Summary for Interior Klamath populations.

Population	BI Score	IR Score	OP Score	Total Score	Low Risk Spawner Threshold
Mid-Klamath	10.5	8	11	29.5	3,900
Salmon	5.5	10	11	26.5	3,900
Scott	10.25	9	8	27.25	6,500
Shasta	5	10	9	24	5,900
Upper Klamath	6.75	8	8	22.75	8,500
Number spawners needed to meet stratum requirement (50% of total)					14,350

Table D-27. Spawner Targets for Interior Klamath populations.

Population	Recovery Role	Target
Scott	Core	6,500
Shasta	Core	4,700¹
Upper Klamath	Core	8,500
Middle Klamath	Non-Core 1	450
Salmon	Non-Core 1	450
		Total Core: 19,700 Spawners
¹ IP-km above Dwinnell Dam not included in calculation of population spawner target. See Chapter 4 for explanation of spawner target methodology.		

Three core populations, the Upper Klamath, Shasta River, and Scott River populations were chosen for this diversity stratum. This combination allows for the largest amount of IP habitat, spatial diversity, greatest production potential, most appropriate habitat, and unique life history traits to be restored and will achieve the goal of 50% stratum abundance. Non-core population targets represent a four-fold increase in abundance over depensation thresholds.

D.6 Interior Trinity River Population Targets

Application of the method used to select each population's recovery role (i.e., core, non-core 1, non-core 2, extirpated) and identification of appropriate population adult spawner abundance or juvenile occupancy targets resulted in the following Biological Importance (BI), Integrity and Risks (IR), and Optimism and Potential (OP) scores; discussion of other related considerations such as cost; and conclusion. Unless otherwise noted, results are based on information presented in the Interior Trinity River Stratum population profiles.

Table D-28. Biological Importance (BI) Scores for Interior Trinity Populations.

Biological Importance							
Population	Abundance Score	Productivity Score	Spatial Score	Life History Score	Hatchery Score	Depensation Score	BI Score
Lower Trinity River	2	3	3	1	0.25	0.5	9.75
South Fork Trinity River	2	2	1	0.5	0.25	0.5	6.25
Upper Trinity River	3	3	3	1.5	0.25	0.75	9.5

The two highest scoring populations for Biological Importance (BI) are the Lower Trinity and the Upper Trinity. Of great concern across the stratum is the high proportion of hatchery fish within the Trinity watershed. This concern is greatest for the Upper Trinity population where hatchery fish dominate the run (typically, greater than 85% with some years as high as 97% hatchery fish comprising the run [see the year 2000, in Table 2 of the Upper Trinity River population profile]). Population abundance is uncertain for all three populations because surveys are few throughout the basin, although estimates are most robust for Upper Trinity population due to the survey efforts at the Willow Creek weir. Based on this effort, it appears that in some years naturally spawning coho salmon to the Upper Trinity River may exceed the low risk spawner threshold. In contrast, best available information suggests that the South Fork Trinity River and the Lower Trinity River are not likely meeting the population's depensation thresholds.

Table D-29. Integrity and Risks (IR) Scores for Interior Trinity Populations.

Integrity and Risks					
Population	Roads Score	Stress Score	Slope Score	Forest Score	IR Score
Lower Trinity River	3	2	1	2	8
South Fork Trinity River	1	2	2	2	7
Upper Trinity River	3	2	1	3	9

Table D-30. Optimism and Potential (OP) Scores for Interior Trinity Populations.

Optimism and Potential						
Population	Land Score	CDFG Score	Listed Species Score	Species Score	Threat Score	OP Score
Lower Trinity River	3	2	0	3	2	10
South Fork Trinity River	3	2	0	3	2	10
Upper Trinity River	3	2	0	2	2	9

Other Considerations

Cost

Preliminary results indicate the total cost of recovery actions needed in each potential core population of this stratum is as follows:

- Lower Trinity River—\$68 million
- South Fork Trinity River—\$123 million
- Upper Trinity River—\$33 million

The cost estimates reflect the recovery role for each population. Therefore, the cost estimates for recovery actions identified for non-core populations do not include recovery actions that may be necessary were they made core populations. Cost estimates are often based on the size of a watershed, or length of IP, making costs to produce nearly equal number of spawners disproportionately large for small population areas, and vice versa.

Table D-31. Score Summary for Interior Trinity Populations.

Population	BI Score	IR Score	OP Score	Total Score	Low Risk Spawner Threshold
Lower Trinity River	9.75	8	10	27.75	3,600
South Fork Trinity River	6.25	7	10	23.25	6,400
Upper Trinity River	9.5	9	9	27.5	7,300
Number spawners needed to meet stratum requirement (50% of total)					8,800

Table D-32. Spawner Targets for Interior Trinity Populations.

Population	Category	Target
Lower Trinity River	Core	3,600
South Fork Trinity River	Non-core 1	970
Upper Trinity River	Core	5,800
		Total Core : 9,700 Spawners

The Lower Trinity and Upper Trinity River populations are considered the best candidates to serve as the core populations in this stratum for several reasons. Chief among these is a concern that the IP model likely overestimates the current production potential of the South Fork, given the severe degradation that has occurred within the basin as a result of historic flooding. In addition, only a small portion of the tributaries in the South Fork is likely to support coho salmon or their reintroduction in the near future. In comparison, the Lower Trinity and Upper Trinity have nearly three times the number of tributaries that could support coho salmon (See also CDFG 2004). Moreover, according to the Trinity River Flow Evaluation document (USFWS and HVT 1999) about 80 percent of the best coho salmon habitat within the basin historically occurred upstream of the dams.

Literature Cited

California Department of Fish and Game (CDFG). 2004. Recovery strategy for California coho salmon. Report to the California Fish and Game Commission. 594 p. Available from: http://www.dfg.ca.gov/fish/Resources/Coho/SAL_CohoRecoveryRpt.asp

U.S. Fish and Wildlife Service (USFWS) and Hoopa Valley Tribe (HVT). 1999. Trinity River Flow Evaluation Final Report. Report to the Secretary, U.S. Department of the Interior. Washington, D.C. Available from: <http://www.fws.gov/arcata/fisheries/reportsDisplay.html>. Accessed October 2008.

D.7 Southern Coastal Stratum Population Targets

Application of the method used to select each population's recovery role (i.e., core, non-core 1, non-core 2, extirpated) and identification of appropriate population adult spawner abundance or juvenile occupancy targets resulted in the following Biological Importance (BI), Integrity and Risks (IR), and Optimism and Potential (OP) Scores; discussion of other related considerations such as cost; and conclusion. Unless otherwise noted, results are based on information presented in Southern Coastal Stratum population profiles.

Table D-33. Biological Importance (BI) Score for Southern Coastal Populations.

Biological Importance Score							
Population				Diversity			Total
	Abundance	Productivity	Spatial	Life History	Hatchery	Depensation	
Bear River	0	0	0	0.5	0.75	0	1.25
Humboldt Bay Tribs	3	2	3	1.5	0.75	0.75	11
Lower Eel / Van Duzen	2	2	1	1.5	0.75	0.50	7.75
Mattole River	1	2	1	1	0.75	0.25	6

Population abundance is uncertain as surveys are few and the results are variable. The Bear River population has a conspicuous absence of coho salmon. Surveyed streams in the Humboldt Bay Tributaries population indicate regular adult abundance greater than depensation (191), while the adult abundance is likely below depensation in the Lower Eel/Van Duzen and Mattole Rivers populations. All populations show evidence of decline in all three cohorts, except for Bear River which has no evidence of coho salmon being present.

Coho salmon are found well-distributed throughout the Humboldt Bay tributaries and estuary. However, they are found in less than a quarter of IP habitat in the Mattole River and Lower Eel / Van Duzen River populations – likely as a result of degraded or inaccessible habitat or lack of survey effort. In 2008, coho salmon adult spawners were found in just one Mattole River tributary.

Diversity across the stratum can be influenced by many factors, including life history strategies, hatcheries, and abundance proximity to depensation. The amount of environmental diversity in an area can indicate the degree of potential diversity that same area can support. Life history strategies are greater in Humboldt Bay Tributaries and Lower Eel/Van Duzen Rivers populations where greater environmental and habitat variability exists. The Humboldt Bay Tributaries population includes life history strategies that take advantage of relatively stable temperature and estuarine and bay habitat. The Lower Eel/Van Duzen Rivers population likely possesses many of the same life history strategies as found in the Humboldt Bay Tributaries population, plus strategies that succeed in warmer and dryer conditions farther inland.

Table D-34. Integrity and Risks (IR) Scores for Southern Coastal Populations.

Integrity and Risks Score					
Population	Road	Stress	Slope	Forest	Total
Bear River	1	2	2	2	7
Humboldt Bay Tributaries	1	2	3	1	7
Lower Eel / Van Duzen	1	2	2	2	7
Mattole River	2	2	1	2	7

Water in the mainstem Eel River is closely regulated in accordance with provisions identified in NMFS’ biological opinion addressing the Potter Valley Project diversion, including opportunity to annually augment flow by 2,500 acre-feet. Water diversion in all other streams is largely unregulated or uncontrolled.

Humboldt Bay Tributaries and Lower Eel/Van Duzen Rivers populations are comprised of much low-grade slope areas, often associated with a delta or valley. Road densities on low-grade slopes likely produce less erosion and sedimentation than those on steep slopes or inherently unstable geologic material.

Principle stresses in the Lower Eel/Van Duzen Rivers population are altered sediment supply and impaired estuary function, compared to the Mattole River population where they are impaired water quality and altered hydrologic function. Cooling and increasing the volume of water in the Mattole River population is challenging, and severely influences survival. Decreasing sediment and improving estuary function in the Lower Eel/Van Duzen Rivers population appears feasible.

Much of the forest in the Humboldt Bay Tributaries population area has been harvested. However, several decades have passed since most harvest activity, resulting in mid-mature forests which provide more suitable habitat elements than less mature forest. A large portion of the Humboldt Bay Tributaries population area is managed under a federal aquatic habitat conservation plan or by federal agencies with salmonid conservation goals. Other forested areas in the Humboldt Bay Tributaries population area, and other population areas, are primarily regulated by the California Forest Practice Rules.

Table D-35. Optimism and Potential (OP) Scores for Southern Coastal Populations.

Optimism and Potential Score						
Population	Federal Land	CDFG	Listed Species	Species	Threat	Total
Bear River	1	2	1	1	3	8
Humboldt Bay Tributaries	1	3	3	2	2	11
Lower Eel / Van Duzen	2	3	3	2	1	11
Mattole River	2	3	3	2	2	12

There is high non-government organization (NGO) interest in salmon recovery in all populations, except Bear River. The Humboldt Bay Tributaries population is located in the heart

of Humboldt County's hub, near Arcata and Eureka, California. Generating interest and support for restoring habitats in highly visible watersheds such as the Humboldt Bay Tributaries and Lower Eel/Van Duzen Rivers population areas is generally much easier than rural sites. However, some rural locations, such as in the Mattole River population, have created a culture centered on salmon restoration and conservation.

Moderate amounts of federal land managed with salmon conservation goals in the Lower Eel/Van Duzen Rivers and Mattole River populations provide enhanced opportunity for restoration opportunities. All population areas possess suitable private land which can contribute toward restoration through development, or implementation, of a federal habitat conservation plan, or are eligible for receipt of federal or state grant funding.

The number of threat categories that rank high or very high is a function of threat opportunity. The Lower Eel/Van Duzen Rivers scores low due to a larger array of different environs and thus human activity. For instance, the Lower Eel/Van Duzen Rivers population area may have more opportunity for agricultural threat because a large portion of the area is conducive to farming, in contrast to the Mattole River population area where little traditional farming opportunities exist. Threat opportunity may be linked to the size of the population area – potentially explaining why the large Lower Eel/Van Duzen Rivers population area received a low threat score.

In addition, the larger population areas with the greatest amount of IP habitat may equate to more opportunity for active and passive restoration.

Other Considerations

Cost

Preliminary results indicate the total cost of recovery actions needed in each potential core population is as follows:

Bear River - \$21 million
Humboldt Bay Tributaries - \$99 million
Lower Eel / Van Duzen - \$567 million
Mattole River - \$81 million

The cost estimates reflect the recovery role for each population. Therefore, the cost estimates for recovery actions identified for non-core populations do not include recovery actions that may be necessary were they made core populations. Refer to chapter 6 for additional information about cost.

Cost estimates are often based on the size of a watershed, or length of IP, making costs to produce nearly equal number of spawners disproportionately large for small population areas, and vice versa.

Table D-36. Score Summary for Southern Coastal Populations.

Population	BI	IR	OP	Total	Low Risk Spawner Threshold
Bear River	1.25	7	8	16.25	1,900
Humboldt Bay Tributaries	11	7	11	29	5,700
Lower Eel / Van Duzen	7.75	7	11	25.75	7,900
Mattole River	6	7	12	25	6,500
Number spawners needed to meet stratum requirement (50% of total)					11,000

Table D-37. Spawner Targets for Southern Coastal Populations.

Population	Recovery Role	Target
Bear River	Non-Core 2	Juvenile occupancy
Humboldt Bay Tributaries	Core	5,700
Lower Eel / Van Duzen	Core	7,900
Mattole River	Non-Core 1	1,000
		Total Core : 13,600 Spawners

The Humboldt Bay Tributaries and Lower Eel/Van Duzen Rivers populations are the best candidates to efficiently serve as core populations in this stratum because they have the total highest BI scores, and their collective adult spawner abundance target exceeds the minimum stratum requirement. IR scores are nearly equal for all populations.

Targets for the Humboldt Bay Tributaries and Lower Eel/Van Duzen Rivers populations reflect the adult spawner abundance required for a low risk of extinction. The Mattole River population spawner abundance target is a product of the depensation threshold multiplied by four, because it is serving a non-core 1 role. The Bear River population target is juvenile occupancy, because it is serving as a non-core 2 population.

D.8 Interior Eel River Stratum Population Targets

Application of the method used to select each population's recovery role (i.e., core, non-core 1, non-core 2, extirpated) and identification of appropriate population adult spawner abundance or juvenile occupancy targets resulted in the following Biological Importance (BI), Integrity and Risks (IR), and Optimism and Potential (OP) Scores; discussion of other related considerations such as cost; and conclusion. Unless otherwise noted, results are based on information presented in Interior Eel River Stratum population profiles.

Table D-38. Biological Importance (BI) Score for Interior Eel River Populations.

Biological Importance Score							
Population				Diversity			Total
	Abundance	Productivity	Spatial	Life History	Hatchery	Depensation	
Mainstem Eel River	1	1	1	1	0.75	0.25	5
Middle Mainstem Eel River	1	1	1	1	0.75	0.25	5
Upper Mainstem Eel River	0	0	0	0.5	0.75	0	1.25
North Fork Eel River	0	0	0	0.5	0.75	0	1.25
Middle Fork Eel River	0	0	0	0.5	0.75	0	1.25
South Fork Eel River	3	3	2	1	0.75	0.75	10.5

Population abundance is uncertain as surveys are few and the results are variable. Limited surveys of the Upper Mainstem Eel River, Middle Fork Eel River, and North Fork Eel River sub-basins suggest that they do not support coho salmon consistently. The South Fork Eel River population abundance is likely above depensation (i.e., 460) in some years. All populations show evidence of decline in all three cohorts, particularly for the Upper Mainstem Eel, Middle Fork Eel, and North Fork Eel populations, which may have lost all three year classes.

Coho salmon distribution is largely un-documented in the populations within this stratum and is rated as very limited in all areas except the South Fork Eel River population. In the South Fork Eel River, coho salmon occur in 25 to 50 percent of Intrinsic Potential (IP) habitat, primarily in the western tributaries such as Hollow Tree Creek. In the western tributaries of the South Fork Eel River population, coho salmon are well distributed and occupy the majority (>90%) of IP habitat.

Diversity across the stratum is influenced by many factors, including life history strategies and abundance which is often below the depensation threshold. The rating for life history diversity

assigned to all populations indicates they contain diverse habitat types which could support atypical life history strategies. Most populations in this stratum could be considered “long run” given the distance adult fish must migrate to their natal spawning grounds from the ocean, which constitutes a unique life history strategy. All populations rated the same for hatchery influence, with a presumed low proportion of hatchery strays in the spawning populations. All populations except the South Fork Eel River received a low score for depensation, because the number of spawners is likely significantly less than the depensation threshold.

Table D-39. Integrity and Risks (IR) Scores for Interior Eel River Populations.

Integrity and Risks Score					
Population	Road	Stress	Slope	Forest	Total
Mainstem Eel River	1	1	2	2	6
Middle Mainstem Eel River	1	1	2	3	7
Upper Mainstem Eel River	2	2	2	3	9
Middle Fork Eel River	2	2	2	2	8
North Fork Eel River	2	1	2	2	7
South Fork Eel River	1	1	2	2	6

Water in the mainstem Eel River is closely regulated in accordance with provisions identified in NMFS’ biological opinion addressing the Potter Valley Project diversion, including opportunity to augment flow which may assist in reducing issues with water quality during periods of extremely low flows or muted spring flow. Water diversion in all other streams is largely unregulated or uncontrolled.

In the Upper Mainstem Eel River, Middle Fork Eel River, and North Fork Eel River, much of the high IP habitat is located under the temperature mask, indicating water temperature within these populations is likely intrinsically inhospitably warm.

The highest road densities occur in the Mainstem, Middle Mainstem, and Middle Fork Eel River populations. Principle stresses in most populations are sediment, degraded riparian condition, and floodplain and channel structure. The Upper Mainstem Eel River principal stresses, in contrast, are barriers obstructing passage and impaired water quality. These stresses in these populations may be more difficult to resolve than those in the other populations. All populations are comprised of primarily mid to low gradient stream reaches, often associated with a delta or valley. Forest integrity in the Middle Mainstem Eel River and Upper Mainstem Eel River populations was rated higher than other populations primarily due to lower harvest rates.

Table D-40. Optimism and Potential (OP) Scores for Interior Eel River Populations.

Optimism and Potential Score						
Population	Federal Land	CDFG	Listed Species	Species	Threat	Total
Mainstem Eel River	1	2	2	2	2	9
Middle Mainstem Eel River	2	3	1	2	1	9
Upper Mainstem Eel River	3	1	2	1	2	9
Middle Fork Eel River	2	1	3	2	2	10
North Fork Eel River	2	1	3	2	2	10
South Fork Eel River	1	3	3	2	1	10

There is a high level of interest in the South Fork Eel River population area, and it hosts the most abundant and stable spawning cohorts in the stratum. One of the most significant tributaries, Hollow Tree Creek, has consistent presence of all three cohorts of coho salmon. Out-migrant trapping efforts indicate that Hollow Tree Creek can produce more than 35,000 smolts per season. There is a draft federal aquatic Habitat Conservation Plan (HCP) throughout most of the Hollow Tree Creek watershed. The HCP, when finalized, would reduce sediment and improve habitat complexity in the near future. Several long-standing and well-supported non-government organizations, as well as state, federal and tribal entities regularly express interest in conserving salmon and aquatic habitat within the Eel River basin.

The Eel River estuary is located within the Lower Eel/Van Duzen Rivers population area (downstream of the Interior Eel River stratum) and has great potential for restoration because the estuary remains functional and there is high opportunity for increasing the size and availability of the floodplain and off channel habitats. The Eel River estuary likely serves as essential non-natal juvenile rearing habitat. Impaired estuarine function is a stress to all populations in this stratum. All population areas possess suitable private land which can contribute toward restoration through development, or implementation, of a federal HCP. Much of the private land is eligible for receipt of federal or state grant funding.

Other Considerations

Cost

Preliminary results indicate the total cost of recovery actions needed in each potential core population is as follows:

Mainstem Eel River - \$130 million
 Middle Mainstem Eel River - \$126 million
 Upper Mainstem Eel River - \$36 million
 Middle Fork Eel River - \$163 million
 South Fork Eel River - \$251 million

The cost estimates reflect the recovery role for each population. Therefore, the cost estimates for recovery actions identified for non-core populations do not include recovery actions that may be

necessary were they made core populations. Cost estimates are often based on the size of a watershed, or length of IP, making costs to produce nearly equal number of spawners disproportionately large for small population areas, and vice versa.

Table D-41. Score Summary for Interior Eel River Populations.

Population	BI	IR	OP	Total	Low Risk Spawner Threshold
Mainstem Eel River	5	6	9	20	2,600
Middle Mainstem Eel River	5	7	9	21	6,300
Upper Mainstem Eel River	1.25	9	9	19.25	2,100
Middle Fork Eel River	1.25	8	10	19.25	2,900
North Fork Eel River	1.25	7	10	18.25	2,100
South Fork Eel River	10.5	6	10	26.5	9,300
Number spawners needed to meet stratum requirement (50% of total)					12,650

Table D-42. Spawner Targets for Interior Eel River Populations.

Population	Recovery Role	Target
Mainstem Eel River	Core	2,600 spawners
Middle Mainstem Eel River	Core	6,300 spawners
Upper Mainstem Eel River	Non-Core 2	Juvenile occupancy
Middle Fork Eel River	Non-Core 2	Juvenile occupancy
North Fork Eel River	Non-Core 2	Juvenile occupancy
South Fork Eel River	Core	9,300 spawners
		Total Core : 18,200 Spawners

The Mainstem Eel River, Middle Mainstem Eel River, and South Fork Eel River populations are the best candidates to efficiently serve as core populations in this stratum because they have the total highest BI scores, and their collective adult spawner abundance target exceeds the minimum stratum requirement. Equally important, the other three populations – Upper Mainstem Eel River, Middle Fork Eel River, and North Fork Eel River – have inherently extremely low potential to produce coho salmon and several anthropogenic-derived challenges.

Targets for the Mainstem Eel River, Middle Mainstem Eel River, and South Fork Eel River populations reflect the adult spawner abundance required for core populations. Targets for core populations were set to achieve a low risk of extinction.

The target for the Middle Fork Eel River and North Fork Eel River populations is juvenile occupancy, which is the target for non-core 2 populations. This is based on the lack of coho salmon in these populations over the last several decades.

Over a period of several decades, the Upper Mainstem Eel River population has had very few observations of coho salmon at the fish counting station at Van Arsdale. Although recent observations in the last decade appear promising, the Upper Mainstem Eel River population

remains unoccupied during almost all years on record. Furthermore, all of the IP habitat which is not covered by the temperature mask is located upstream of the Scott Dam. When IP habitats upstream of the dam or under the temperature mask are removed, it leaves this population with only 0.5 km of IP habitat (which is not enough lineal habitat to be considered as a population). Given the extremely episodic nature of coho salmon observations in the Upper Mainstem Eel River population, the non-core 2 population target for juvenile occupancy is the most reasonable target.

Appendix E. Recovery Action Cost Methodology

To determine recovery action costs for the SONCC coho salmon ESU, a systematic and consistent methodology is applied. In general, cost estimates are derived from previous, similar projects or tasks (Tables E-2 to E-51). Each recovery action cost estimate is limited to the monetary expenditure required to physically perform the task, and therefore does not include secondary costs (e.g., administrative, overhead) or economic costs or benefits (e.g., fishing, tourism, lost opportunity) that may result from action implementation. In order to facilitate the short-term and mid-term costs of the recovery actions, costs are presented in five year intervals out to 25 years (i.e., 0-5, 5-10, 15-20, 20-25), with one value estimated for costs beyond 25 years (i.e., 26+ years). Cost estimates are not calculated for those actions determined not essential for recovery (“NA” priority).

Factors such as project scale and location are accounted for when possible, and costs are calculated accordingly. For example, county and population-specific data is used to inform the cost of actions that occur in those particular areas. Additionally, the costs of past projects used to inform recovery action cost estimates are adjusted for inflation. The scale of a recovery action is often unknown. In these cases an assumption is made regarding the amount or extent of work needed to achieve the recovery objective. For example, if the amount of roads in need of decommissioning in a given population is unknown, the assumption is to reduce the amount of roads to a level equal to a “medium” threat. Table E-18 indicates the cost to decommission one mile of road in the Humboldt Bay watershed is \$39,878. If 85 miles of road need to be decommissioned, the estimated cost is \$3,389,630 (\$39,878 multiplied by 85 miles).

Some recovery actions involve policy changes, coordination, or other activities that rely primarily on staff time. The cost of these actions may either be “0” or the cost of staff salary. When the cost is calculated as “0,” the action was assumed to be cost of doing business. This would include an administrative action such as regulation change or a task that is part of an existing work load. When an action requires a staff person to go above and beyond their existing duties, the cost is calculated by multiplying the annual salary (Table E-2) of the occupation most likely to complete the task by the amount of time anticipated to complete the task. For example, an action to educate stakeholders regarding water conservation practices may require six months of a professional biologist’s time. (Table E-2) indicates a professional biologist’s time costs \$68,030 a year. In this case, the estimated cost is \$34,015 (\$68,030 multiplied by 0.5 years).

Recovery action costs are calculated for each action-step level and calculated in spreadsheets containing population specific data (e.g., watershed acreage, amount of IP habitat, road density) and recovery action cost information. A sample spreadsheet outlining the process for calculating recovery action costs can be found in Table E-1.

Table E-1. Sample of the cost estimation spreadsheet.

Action Step	Explanation	Factor 1	Factor 2	Cost (years 1-5)
Assess and prioritize road-stream connection, and identify appropriate treatment to meet objective	Road inventory in Mattole * 878 miles total roads in watershed	635	878	\$557,530
Decommission roads, guided by assessment	Road decom. in California * 286 miles (to obtain 2mi/mi ² density)	39,878	286	\$11,405,108
Upgrade roads, guided by assessment	Road upgrade in Mattole * 59.4 miles (10% of remaining roads after decom)	32,857	59.4	\$1,951,706
Maintain roads, guided by assessment	Gravel road maintenance * 594 (# of road miles remaining after decom)	2,389	594	\$1,419,066

Table E-2. Information used to estimate cost of staff time.

Staff Time			
Occupation	Hourly Wage (seasonals)	Annual Wage (FTE)	Source
Biologist	33	68,030	Bureau of Labor Statistics 2009
Biologist Technician	20	40,900	
Fish and Game Warden	27	56,030	
Police/Sheriff Patrol Officers	25	52,810	
Forest Fire Inspectors/Prevention	18	36,400	
Forest and Conservation Workers	13	26,110	
Urban and Regional Planners	30	62,400	
Physical Scientists (all others)	44	91,850	
Engineers (all others)	43	89,080	
Hydrologist	36	73,540	

Table E-3. Information used to estimate cost of lining a ditch.

Ditch Lining		
Type of Liner	\$/ft	Source
Plain Concrete	21	NMFS 2008, pg. 46
Flexible Membrane	15	
Galvanized Steel	21	

Table E-4. Information used to estimate cost of irrigation pipe.

Piping		
Type	\$/ft*	Source
Aluminum Pipeline	16	NMFS 2008, pg. 47

*When number of feet of pipe is unknown, assume 1% of privately owned land is in agriculture (population stats worksheet). Assume 50% of those acres are irrigated and 1 ft per acre of land will be piped.

Table E-5. Information used to estimate cost of headgates.

Install Headgates		
Size of Headgate	\$/Diversion	Source
<3 cfs	5,156	NMFS 2008, pg. 47
>3 cfs	10,309	

Table E-6. Information used to estimate cost of storm drain retrofits.

Storm Drain Retrofit		
Action	\$/filter or program	Source
Catch Basin/Filter Installation	98	Kosciusko County 2002
Annual Maintenance Program	6,452	

Table E-7. Information used to estimate cost of stream flow gate installation and maintenance.

Stream Flow Gage Installation & Maintenance		
Action	\$/gage or year	Source
Installation of State/Private Gage	26,136	Rhode Island DEM-WRB 2004
Installation of USGS Gage	29,545	
Annual Maintenance of State/Private Gage	7,955	
Annual Maintenance of USGS Gage	3,409	

Table E-8. Information used to estimate cost of tidegate restoration.

Tidegate Restoration		
Activity	\$/Tidegate	Source
Replace Tidegate	120,114	NMFS 2008, pg. 20
Retrofit Tidegate	28,571	

Table E-9. Information used to estimate cost of tailwater management.

Tailwater Management		
Area Covered by System (acres)	Cost (\$)	Source
1-50	10,309	NMFS 2008, pg. 45
51-100	20,618	
101-200	30,928	
201-300	41,237	
301-400	61,856	
401-500	82,474	

Table E-10. Information used to estimate cost of a forbearance program.

Forbearance Program		
Part of Program	\$/landowner, \$/year	Source
Avg. cost for installation & agreements	70,000	Tasha McKee Sanctuary Forest, pers. comm. 2010
Avg. cost for compliance & flow monitoring	500	

Table E-11. Information used to estimate cost of installing or maintaining engineered beaver ponds.

Engineered Beaver Ponds		
Activity Type	\$/pond, \$/year	Source*
Installation of Pond	15,000	Tasha McKee Sanctuary Forest, pers. comm. 2010
Maintenance of Ponds	25,000	

*Recommends 10 years of maintenance following installation.

Table E-12. Information used to estimate cost of fish passage improvement.

Fish Passage Improvement (\$/Project)					
Stream Crossing	Land Use				Source
<i>Tributary</i>	Forest	Agriculture	Suburban	Urban	CDFG 2004, pg I-16
Total Barrier	63,636	159,090	318,181	556,818	
Partial/Temporal Barrier	31,818	79,545	159,090	278,409	
<i>Stream</i>					
Total Barrier	159,090	381,818	556,818	795,454	
Partial/Temporal Barrier	79,545	190,909	278,409	397,727	

Table E-13. Information used to estimate cost of dam removal.

Dam Removal		
Size of Dam	\$/ \$/ft	Source
one cost estimate for <15ft dam	568,181	CDFG 2004, pg I.11
>15 ft high -cost/ft	17,045	
one estimate - unknown height; complete barrier	1,022,727	
one estimate - unknown height; partial/temporal or unknown barrier	511,363	

Table E-14. Information used to estimate cost of bridge construction.

Bridge Construction		
Bridge Type	\$/sq. ft. of decking	Source
RC Slab	191	California DOT 2008
RC Box Girder	170	
CIP/PS Slab	168	
CIP/PS Box Girder	298	
PC/PS "I" Girder	231	
PC/PS Bulb "T" Girder	239	
Average	216	

Table E-15. Information used to estimate cost of arch/box culvert replacement.

Replacing a Culvert w/ a New Type of Structure		
New Type of Crossing	Avg. Cost (\$)	Source
Bridge <40ft	51,546	NMFS 2008, pg 11-15
Bridge >40ft	103,093	
Bottomless/Open Bottom Arch	193,961	
Natural Bottom Pipe Arch	215,776	
Box Culvert	248,352	

Table E-16. Information used to estimate cost of road construction.

Road Construction (for relocation purposes)		
Type of Road	\$/mile	Source
Non paved: two directional 12' shared path	175,000	DOT 2010
Undivided 2 lane rural road w/ 5' paved shoulders	1,713,000	

Table E-17. Information used to estimate cost of road upgrade.

Road Upgrade		
Location	\$/mi*	Source
California	18,104	NMFS 2008, pg. 43-44
Mendocino County	34,278	
Siskiyou County	50,119	
Klamath River	29,186	
Salmon River	41,453	
Smith River	53,068	
Eel River	32,658	
Mattole River	32,857	
SONCC	14,535	
Russian River	95,275	
Garcia River	32,528	

*If number of miles unknown, assume 10% of road miles remaining in watershed after decommissioning to the level of 2 mi/mi².

Table E-18. Information used to estimate cost of road decommissioning.

Road Decommissioning		
Location	\$/mi*	Source
Average Cost of Local Decom. Projects (Humboldt Bay, Klamath, Mendocino, Trinity, Salmon River)	39,878	NMFS 2008, pg. 42

*when number of miles unknown, reduce watershed road density to 2 mi/mi²

Table E-19. Information used to estimate cost of road maintenance.

Average Road Maintenance Cost		
Type*	\$/mi*	Source
Gravel Roads	2,389	Jahren et al. 2005
Bituminous Roads	2,639	

*If type and number of miles is unknown, assume 'gravel roads' and total number of miles of road in the watershed after decommissioning to a level of 2mi/mi².

Table E-20. Information used to estimate cost of installing a fish ladder.

New Fish Ladder		
Size of Waterway	\$/Ladder	Source
Large Waterway	1,022,727	NMFS 2008, pg 9
Small Waterway	568,181	

Table E-21. Information used to estimate cost of gate installation.

Average Cost of Gate and Installation		
Gate	\$/gate	Source
Aluminum Gate (5ft tall, 10ft wide) + installation	880	www.pro fenceworks.com (site accessed March 4, 2011)

Table E-22. Information used to estimate cost of culvert replacement.

Culvert Replacement (\$/Culvert)					
Size of Waterway	Road Type				Source
	Forest Road	Minor 2 Lane	Major 2 Lane	Hwy 4+ Lane	
Small (0-10')	31,976	87,209	174,419	319,767	NMFS 2008, pg. 10
Medium (10-20')	87,209	220,930	319,767	436,047	
Large (20-30')	133,721	267,442	406,977	813,953	

*if number and type of barriers is unknown, assume 1 barrier per 5 miles of high IP miles and type is 'small' and 'forest road'.

Table E-23. Information used to estimate cost of tributary and floodplain reconnection.

Floodplain and Tributary Reconnection (\$/acre)				
Materials	Extent of Earth Moving			Source
	Minimal	Moderate	Substantial	
Minimal	8,721	17,442	40,698	NMFS 2008, pg 26
Moderate	17,442	29,070	58,140	
Substantial	40,698	58,140	81,395	

Table E-24. Information used to estimate cost of side channel reconnection projects.

Side Channel Reconnection (\$/acre)				
Extent of Earthmoving	Energy of Waterway			Source
	Low	Medium	High	
Minimal/Near	34,884	63,953	87,209	NMFS 2008, pg 26
Moderate/Avg. Distance	58,140	98,837	174,419	
Substantial/Far	93,023	191,860	290,698	

Table E-25. Information used to estimate cost of supplementing spawning gravel.

Spawning Gravel Supplementation	
\$/cubic yard	Source
28	NMFS 2008, pg. 25

Table E-26. Information used to estimate cost of placing large woody debris structures.

LWD Structure Placement	
Avg. \$/mi*	Source
547,850	NMFS 2008, pg 23-24

*If length unknown, assume 25% of high IP miles, unless this results in less than 1, then use total IP miles.

Table E-27. Information used to estimate cost of channel restoration.

Channel Restoration		
Type	\$/mi	Source
Large scale reach restoration	4,217,623	NMFS 2008, pg 27

Table E-28. Information used to estimate cost of creating off channel ponds.

Creation of Off Channel Pond	
\$/project*	Source
102,258	Bob Pagliuco: NOAA RC pers. comm. 2010; averaged from proposed projects: Lower Terwer Creek and Salt Creek

*If number of projects is unknown, assume 1 project/mi. in 25% of total high IP miles, unless this results in less than 1, then use 25% of total IP miles.

Table E-29. Information used to estimate cost of reintroducing beavers.

Beaver Reintroduction	
\$/beaver family translocation*	Source
10,000	Michael Pollock NMFS, personal communication Feb. 2011

*If numbers are unknown, assume 1 per mi in 5% of high IP miles.

Table E-30. Information used to estimate cost of riparian planting.

Riparian Planting (\$/acre)				
Materials/Site Accessibility	Level of Site Preparation*			Source
	Flat/Light Clearing	Avg. Slope/Avg. Clearing	Steep/Heavy Clearing	
Low Cost	17,442	40,698	93,023	NMFS 2008, pg 32
Medium Cost	26,163	63,954	110,465	
High Cost	46,512	78,488	1,366,279	

*If type of riparian thinning is unknown, assume 'flat/light clearing' and 'low cost'.

*If number of acres is unknown, assume 80 acres per mile will need to be treated in 15% of high IP miles.

Table E-31. Information used to estimate cost of thinning upslope riparian areas.

Upslope Riparian Thinning		
Type	\$/acre*	Source
Mechanical	876	NMFS 2008, pg. 64
Hand 15-30% slope 40-60% cover	928	
Hand 30-50% slope 60-90% cover	1,237	
Chemical	155	
Average	799	

*If number of acres is unknown, assume 80 acres/mi will be thinned within 15% of high IP habitat miles.

Table E-32. Information used to estimate cost of bank stabilization.

Bank Stabilization*		
Distance From Road (mi)	\$/ft*	Source
0.25-0.5	284	NMFS 2008, pg. 38
0.5-1	313	
1-2	341	
2-3	369	
>3	398	

*If number of feet is unknown, assume 1% of IP miles will be treated.

Table E-33. Information used to estimate cost of wetland restoration.

Wetland Restoration		
Type	\$/acre	Source
Seasonal Wetland (large scale)	11,111	NMFS 2008, pg. 28
Wetland Enhancement (reveg, exotic spp. removal, modest management)	1,235	
Restore Tidal Action to Salt Pond	1,266	
Levee Construction/Repair, Extensive Dredging	34,177	
Highly Engineered, Large Soil Volume, Channel Excavation, Low Berms	70,886	

Table E-34. Information used to estimate cost of livestock management.

Livestock Management		
Fencing Activity	\$/ft	Source
Riparian Fencing - Conventional*	3.09	NMFS 2008, pg. 29
Riparian Fencing and Planting	18.69	
Riparian Fencing w/ Water Relocation	9	

*If number of feet is unknown, assume 5% of high IP miles.

Table E-35. Information used to estimate cost of landslide/gully stabilization.

Landslide/Gully Stabilization	
\$/Acre	Source
2,609	NMFS, 2008 pg. 44

Table E-36. Information used to estimate cost of estuary restoration.

Estuary Restoration		
Type of Project	\$/acre	Source
Small- Tidegate removal, culvert upgrade; restore tidal salt marsh	6,000	Coastal Resources Management Council 2010
Medium- Automated tidegates, culverts, 500 ft new dikes	67,000	
Large- Automated tidegates, excavation of fill, re-vegetation	20,000	

Table E-37. Information used to estimate cost of setting back or breaching levees.

Levee Setback and Breach		
Type of Project	\$/linear foot*, \$/breach**	Source
Setback, includes construction of new levee and restoration of wetlands inside levee	31.7	Bob Pagliuco: NOAA RC pers. comm. 2010; from proposed project, McDaniel Slough
Breach	30,000	

*If number of feet is unknown, assume 1% of high IP miles.

**If number of breaches is unknown, assume 1/mile of 1% of high IP miles.

Table E-38. Information used to estimate cost of water development away from streams.

Water Development Away from Streams		
Materials	\$/ft, \$	Source
Piping*	0.4	USEPA 1990
Tank**	407	

*If length of piping is unknown, assume 500 ft/project.

**If number of projects (tanks) is unknown, assume 1 per mile in 5% of high IP miles.

Table E-39. Information used to estimate cost of day-lighting a stream section.

Stream Day-lighting	
\$/lineal foot*	Source
886	Leah Mahan: NOAA RC pers. comm. Dec. 2010; average from projects, Madrona Park Creek and Ravenna Creek

*If number of feet is unknown assume 5,280 (1 mi).

Table E-40. Information used to estimate cost of creating a conservation easement.

Conservation Easement		
Region	\$/acre	Source
Wolverton Gulch, Van Duzen River, Humboldt County, Monterey County, Arroyo Seco River	1,992	NMFS 2008, pg. 55
South Coast, Santa Barbara	65,000	
San Joaquin River	6,867	
Battle Creek	395	
North Fork Cosumnes River	1,101	
Mill Creek/Deer Creek	223	
Tuolumne River	6,282	
San Joaquin Delta	3,205	
Mill Creek/Deer Creek - Sac River	5,385	
Sacramento River	1,646	
Lower Tuolumne/San Joaquin	1,646	
CA	534	

Table E-41. Information used to estimate cost of performing a road inventory.

Road Inventories		
Location	\$/mi	Source
Humboldt County	829	NMFS 2008, pg. 61
Eel River	538	
Mattole River	635	
Russian River	936	
Salmon Creek	1068	
Gualala River	837	
Avg. all Inventories	807	

Table E-42. Information used to estimate cost of performing an erosion assessment.

Erosion Assessments		
Location	\$/acre*	Source
Humboldt County	9.5	NMFS 2008, pg 61
Del Norte County	11.9	
Average all assessments in CA**	10.7	

*When number of acres unknown, assume 25% of total watershed acres.

**Average does not include figure of \$3,157/acre.

Table E-43. Information used to estimate cost of conducting a fuels management program.

Fuel Management Program		
Type of Program*	\$/acre*	Source
Prescribed burn: brush/grass	35	USDA Forest Service 2004
Prescribed burn: ponderosa pine	98	
Prescribed burn: mixed conifer	198	
Prescribed burn: Douglas fir	14	
Mechanical Treatment: Low intensity	426	FRFTP 2006
Mechanical Treatment: High Intensity	851	

*If type of program and number of acres is unknown, assume 25% of high IP habitat will be treated w/ mechanical thinning and 25% will be treated with burning. Treat IP miles as square miles and convert to acres.

Table E-44. Information used to estimate cost of running a lifecycle monitoring station.

Life Cycle Monitoring Station	
\$/Monitoring Station	Source
204,000	NMFS 2008

Table E-45. Information used to estimate cost of removing invasive plants.

Removal of Invasive Plant Species		
Species	\$/acre*	Source
<i>Arundo</i>	29,762	Neil 2002
Himalayan Blackberry	990	Bennet 2007 (avg)
Purple Loosestrife and Water Chestnut	361	USFWS 2001
Pepperweed and Giant Reed	1,000	Northern California Conservation Center 2010
Average (excluding outlier of <i>Arundo</i>)	784	

*If number of acres is unknown, assume 80 acres per mile will be treated in 5% of high IP miles.

Table E-46. Information used to estimate cost of eradicating pikeminnow.

Pikeminnow Eradication	
\$/Fish	Source
6.65	NMFS 2008, pg. 67

*Cost averaged from rewards in a bounty program.

Table E-47. Information used to estimate cost of installing fish screens.

Fish Screens		
Size of Tributary	\$/Screen*	Source
Large Trib	45,454	NMFS 2008, pg 16
Small Trib	11,364	

*If number and type of screens is unknown, assume 'small trib' and 1 screen per mile in 5% of the high IP miles.

Table E-48. Information used to estimate cost of maintaining fish screens.

Fish Screen Maintenance	
\$/Screen/yr	Source
1,566	NMFS 2008, pg. 68

Table E-49. Information used to estimate cost of education and outreach programs.

Education and Outreach Programs		
Type	\$/program	Source
General Education and Outreach	76,136	CDFG, 2004 pg I.42
Coho Specific Education	55,682	

Table E-50. Information used to estimate cost of all aspects of running a conservation hatchery.

Conservation Hatchery		
Type of Operation	\$/year	Source
General Operation	120,000	pers. comm. Jeff Jahn 2010; estimate from Monterey County Conservation Hatchery
Robust Monitoring and Evaluation Program to Support Program	250,000	pers. comm. Jeff Jahn 2010; estimate from Russian River monitoring program
Genetic Component (samples, assessments)	50,000	pers. comm. Jeff Jahn 2010; estimate from Russian River genetic program

Table E-51. Information used to estimate cost of converting a production hatchery to a conservation hatchery.

Conversion to Conservation Hatchery		
Extent of Retrofit	\$/type	Source
No retrofit needed, facilities in place	0	pers. comm. Jeff Jahn 2010; estimated based on heavy retrofitting in the Russian River Conservation Hatchery
Light retrofit (a few extra tanks, etc.)	50,000	
Medium retrofit	150,000	
Heavy retrofitting with extensive new infrastructure	500,000	

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Appendix F. Conservation Partners

	Elk R	Hubbard Ck	Brush Ck	Mussel Ck	Euchre Ck	Lower Rogue R	Hunter Ck	Pistol R	Chetco R	Winchuck R	Smith R	Elk Ck	Wilson Ck	Lower Klamath R	Redwood Ck	Maple Ck	Little R	Strawberry Ck	Norton/Widow White Ck	Mad R	Humboldt Bay Tribs	Lower Eel/Van Duzen	Guthrie Ck	Bear R	Mattole R	Illinois R	Middle Rogue/Applegate	Upper Rogue R	Middle Klamath R	Upper Klamath R	Salmon R	Scott R	Shasta R	Lower Trinity R	Upper Trinity R	South Fork Trinity R	South Fork Eel R	Mainstem Eel R	Middle Fork Eel R	Upper Mainstem Eel R	Upper Mainstem Eel R														
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Appendix F. Conservation Partners

	Elk R	Hubbard Ck	Brush Ck	Mussel Ck	Euchre Ck	Lower Rogue R	Hunter Ck	Pistol R	Chetco R	Winchuck R	Smith R	Elk Ck	Wilson Ck	Lower Klamath R	Redwood Ck	Maple Ck	Little R	Strawberry Ck	Norton/Widow White Ck	Mad R	Humboldt Bay Tribs	Lower Eel/Van Duzen	Guthrie Ck	Bear R	Mattole R	Illinois R	Middle Rogue/Applegate	Upper Rogue R	Middle Klamath R	Upper Klamath R	Salmon R	Scott R	Shasta R	Lower Trinity R	Upper Trinity R	South Fork Trinity R	South Fork Eel R	Mainstem Eel R	Middle Fork Eel R	Upper Mainstem Eel R																	
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Appendix F. Conservation Partners

	Elk R	Hubbard Ck	Brush Ck	Mussel Ck	Euclre Ck	Lower Rogue R	Hunter Ck	Pistol R	Chetco R	Winchuck R	Smith R	Elk Ck	Wilson Ck	Lower Klamath R	Redwood Ck	Maple Ck	Little R	Strawberry Ck	Norton/Widow White Ck	Mad R	Humboldt Bay Tribs	Lower Eel/Van Duzen	Guthrie Ck	Bear R	Mattole R	Illinois R	Middle Rogue/Applegate	Upper Rogue R	Middle Klamath R	Upper Klamath R	Salmon R	Scott R	Shasta R	Lower Trinity R	Upper Trinity R	South Fork Trinity R	South Fork Eel R	Mainstem Eel R	Middle Fork Eel R	Upper Mainstem Eel R	Upper Mainstem Eel R									
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Appendix F. Conservation Partners

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Middle Fork Eel R	<input type="checkbox"/>
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South Fork Eel R	<input type="checkbox"/>
South Fork Trinity R	<input checked="" type="checkbox"/>
Upper Trinity R	<input checked="" type="checkbox"/>
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Salmon R	<input checked="" type="checkbox"/>
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Middle Klamath R	<input checked="" type="checkbox"/>
Upper Rogue R	<input type="checkbox"/>
Middle Rogue/Applegate	<input type="checkbox"/>
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Mattole R	<input type="checkbox"/>
Bear R	<input type="checkbox"/>
Guthrie Ck	<input type="checkbox"/>
Lower Eel/Van Duzen	<input type="checkbox"/>
Humboldt Bay Tribs	<input type="checkbox"/>
Mad R	<input type="checkbox"/>
Norton/Widow White Ck	<input type="checkbox"/>
Strawberry Ck	<input type="checkbox"/>
Little R	<input type="checkbox"/>
Maple Ck	<input type="checkbox"/>
Redwood Ck	<input type="checkbox"/>
Lower Klamath R	<input checked="" type="checkbox"/>
Wilson Ck	<input type="checkbox"/>
Elk Ck	<input type="checkbox"/>
Smith R	<input type="checkbox"/>
Winchuck R	<input type="checkbox"/>
Chetco R	<input type="checkbox"/>
Pistol R	<input type="checkbox"/>
Hunter Ck	<input type="checkbox"/>
Lower Rogue R	<input type="checkbox"/>
Eucre Ck	<input type="checkbox"/>
Mussel Ck	<input type="checkbox"/>
Brush Ck	<input type="checkbox"/>
Hubbard Ck	<input type="checkbox"/>
Elk R	<input type="checkbox"/>

Yurok Tribal Fisheries Program

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Appendix G. Cost and Potential Lead for Recovery Actions

G.1 Cost of Recovery

This appendix contains an estimated cost for all recovery actions, as well as the potential lead for each recovery action. The methods used to calculate cost are described in Appendix D. No cost was estimated for actions rated priority BR, as these actions, although helpful, are not considered necessary to achieve ESA recovery of the SONCC coho salmon ESU. Cost is estimated in accordance with the year the action would occur relative to when implementation of this plan begins (year 1). Costs are broken into five-year increments (i.e., 1-5, 6-10, 11-15, 16-20, and 21-25) except for the last category, 26+, which includes all costs after year 25. The calculation of cost estimates does not imply funding availability.

The summarized cost of SONCC coho salmon recovery actions is presented by population and diversity stratum in Table G-1.

Table G-1. Summary of estimated cost of recovery actions for each population and diversity stratum.

Stratum	Population	Recovery Role	Cost for Recovery Actions
Southern Coast	Mattole River	Independent; Non-Core 1	\$82,281,985
	Bear River	Potentially Independent, Non-Core 2	\$20,752,335
	Lower Eel/Van Duzen rivers	Independent; Core	\$565,862,528
	Humboldt Bay Tributaries	Independent; Core	\$97,948,038
	Guthrie Creek	Dependent	\$6,875,130
<i>Stratum Total</i>			<i>\$773,720,015</i>
Interior Eel	Mainstem Eel River	Potentially Independent, Core	\$128,010,151
	Middle Mainstem Eel River	Potentially Independent, Core	\$162,780,123
	Upper Mainstem Eel River	Potentially Independent, Non-Core 2	\$35,579,288
	South Fork Eel River	Independent, Core	\$249,938,315
	Middle Fork Eel River	Independent, Non-Core 2	\$162,780,123
	North Fork Eel River	Independent, Non-Core 2	\$24,329,957
<i>Stratum Total</i>			<i>\$763,417,956</i>

Appendix G. Cost and Potential Lead for Recovery Actions

Stratum	Population	Recovery Role	Cost for Recovery Actions
Central Coast	Smith River	Independent, Core	\$135,806,107
	Lower Klamath River	Independent, Core	\$157,651,770
	Redwood Creek	Independent, Core	\$139,011,838
	Maple Creek/Big Lagoon	Dependent	\$25,991,878
	Little River	Potentially Independent, Non-Core 1	\$23,482,027
	Mad River	Independent, Non-Core 1	\$116,004,701
	Elk Creek	Dependent	\$13,750,603
Central Coast	Wilson Creek	Dependent	\$10,788,489
	Strawberry Creek	Dependent	\$6,974,869
	Norton/Widow White creeks	Dependent	\$6,874,280
<i>Stratum Total</i>			\$636,336,562
Trinity	Upper Trinity River	Independent, Core	\$32,712,356
	Lower Trinity River	Independent, Core	\$68,418,044
	South Fork Trinity River	Independent, Non-Core 1	\$122,568,350
<i>Stratum Total</i>			\$223,698,750
Interior Klamath	Upper Klamath River	Independent, Core	\$667,538,879
	Middle Klamath River	Potentially Independent, Non-Core 1	\$49,891,616
	Salmon River	Potentially Independent, Non-Core 1	\$24,953,023
	Shasta River	Independent, Core	\$203,230,901
	Scott River	Independent, Core	\$296,222,569
<i>Stratum Total</i>			\$1,241,836,987
Interior Rogue	Illinois River	Independent, Core	\$251,749,457
	Middle Rogue/Applegate rivers	Independent, Non-Core 1	\$454,638,891
	Upper Rogue River	Independent, Core	\$509,141,079
<i>Stratum Total</i>			\$1,215,529,427
Northern Coast	Elk River	Independent, Core	\$19,804,725
	Lower Rogue River	Potentially Independent, Non-Core 1	\$30,470,952
	Chetco River	Independent, Core	\$27,412,139
	Winchuck River	Potentially Independent, Non-Core 1	\$14,035,354
	Brush Creek	Dependent	\$5,406,057
	Mussel Creek	Dependent	\$6,502,511
	Hunter Creek	Dependent	\$10,038,866
	Pistol River	Dependent	\$12,234,024
<i>Stratum Total</i>			\$125,904,627
ESU Total			\$4,949,689,924

G.2 Explanation of fields

Recovery Action Step Number

The unique recovery action step identifier, composed of the recovery action number followed by an additional number which refers to the sequential order of the action step (e.g., 1, 2, 3, or 4). E.g., recovery action number SONCC-HBT.2.2, recovery action step number SONCC-HBT.2.2.1 refers to first recovery action step of that recovery action number). The recovery action step number is provided in Appendix F so the reader can cross reference information about a particular recovery action between the tables in the profiles and Appendix F.

Potential Lead

The “Potential Lead” is the entity most likely to carry out a recovery action based on its authority, expertise, or other factors. Identification of a candidate “Potential Lead” does not require the identified party to implement an action or to secure funding for such, nor does it preclude any other party from implementing the action or obtaining funds to do so.

5 Year Cost

The 5 year cost is the estimated cost to carry out the subject action in years 1 to 5. The method used to estimate cost is described in Section G.1 and Appendix D.

10 Year Cost

The 10 year cost is the estimated cost to carry out the subject action in years 6 to 10. The method used to estimate cost is described in Section G.1 and Appendix D.

15 Year Cost

The 15 years cost is the estimated cost to carry out the subject action in years 11 to 15. The method used to estimate cost is described in Section G.1 and Appendix D.

20 Year Cost

The 20 year cost is the estimated cost to carry out the subject action for years 16 to 20. The method used to estimate cost is described in Section G.1 and Appendix D.

25 Year Cost

The 25 year cost is the estimated cost to carry out the subject action for years 21 to 25. The method used to estimate cost is described in Section G.1 and Appendix D.

26+ Year Cost

The 26+ year cost is the estimated cost to carry out the subject action for years 26 and after. The method used to estimate cost is described in Section G.1 and Appendix D.

Total Cost

The total cost is the estimated cost to carry out the subject action over all years. The method used to estimate cost is described in Section G.1 and Appendix D.

Appendix G Cost and Potential Lead for Recovery Actions

Table G-2. Recovery action cost schedule

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Population: Bear River									
SONCC-BeaR.7.1.7									
	SONCC-BeaR.7.1.7.1	\$0						\$0	CDF
	Action Total:	\$0						\$0	
SONCC-BeaR.2.1.1									
	SONCC-BeaR.2.1.1.1	\$17,008						\$17,008	CDFW
	SONCC-BeaR.2.1.1.2	\$547,850						\$547,850	CDFW
	Action Total:	\$564,858						\$564,858	
SONCC-BeaR.2.1.41									
	SONCC-BeaR.2.1.41.1	\$17,008						\$17,008	CDFW
	SONCC-BeaR.2.1.41.2	\$547,850						\$547,850	CDFW
	Action Total:	\$564,858						\$564,858	
SONCC-BeaR.2.2.25									
	SONCC-BeaR.2.2.25.1	\$17,008						\$17,008	CDFW
	SONCC-BeaR.2.2.25.2	\$102,258						\$102,258	CDFW
	Action Total:	\$119,266						\$119,266	
SONCC-BeaR.2.2.42									
	SONCC-BeaR.2.2.42.1	\$17,008						\$17,008	CDFW
	SONCC-BeaR.2.2.42.2	\$102,258						\$102,258	CDFW
	Action Total:	\$119,266						\$119,266	
SONCC-BeaR.8.1.2									
	SONCC-BeaR.8.1.2.1	\$163,728						\$163,728	CDFW
	SONCC-BeaR.8.1.2.2	\$4,546,092						\$4,546,092	CDFW
	SONCC-BeaR.8.1.2.3	\$151,169						\$151,169	CDFW
	SONCC-BeaR.8.1.2.4	\$199,482				\$199,482		\$398,963	CDFW
	Action Total:	\$5,060,470				\$199,482		\$5,259,951	
SONCC-BeaR.8.1.44									
	SONCC-BeaR.8.1.44.1	\$163,728						\$163,728	CDFW
	SONCC-BeaR.8.1.44.2	\$4,546,092						\$4,546,092	CDFW
	SONCC-BeaR.8.1.44.3	\$151,169						\$151,169	CDFW
	SONCC-BeaR.8.1.44.4	\$199,482				\$199,482		\$398,963	CDFW
	Action Total:	\$5,060,470				\$199,482		\$5,259,951	
SONCC-BeaR.7.1.6									
	SONCC-BeaR.7.1.6.1	\$0						\$0	County
	SONCC-BeaR.7.1.6.2	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-BeaR.7.1.27									
	SONCC-BeaR.7.1.27.1	\$34,015						\$34,015	NRCS/RCD
	SONCC-BeaR.7.1.27.2	\$1,702,339						\$1,702,339	NRCS/RCD
	SONCC-BeaR.7.1.27.3	\$572,098						\$572,098	NRCS/RCD
	Action Total:	\$2,308,452						\$2,308,452	
SONCC-BeaR.7.1.5									
	SONCC-BeaR.7.1.5.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-BeaR.7.1.5.2	\$17,008						\$17,008	NRCS/RCD

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-BeaR.7.1.5.3	SONCC-BeaR.7.1.5.3	\$64,383						\$64,383	NRCS/RCD
	Action Total:	\$98,398						\$98,398	
SONCC-BeaR.7.1.43	SONCC-BeaR.7.1.43.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-BeaR.7.1.43.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-BeaR.7.1.43.3	\$64,383						\$64,383	NRCS/RCD
	Action Total:	\$98,398						\$98,398	
SONCC-BeaR.2.2.32	SONCC-BeaR.2.2.32.1	\$34,015						\$34,015	CDFW
	SONCC-BeaR.2.2.32.2	\$170,075	\$170,075	\$170,075	\$170,075	\$170,075	\$170,075	\$1,020,450	CDFW
	SONCC-BeaR.2.2.32.3	\$10,000						\$10,000	CDFW
	Action Total:	\$214,090	\$170,075	\$170,075	\$170,075	\$170,075	\$170,075	\$1,064,465	
SONCC-BeaR.2.2.36	SONCC-BeaR.2.2.36.1	\$0						\$0	CDFW
	Action Total:	\$0						\$0	
SONCC-BeaR.8.1.3	SONCC-BeaR.8.1.3.1	\$2,267						\$2,267	County
	Action Total:	\$2,267						\$2,267	
SONCC-BeaR.10.2.28	SONCC-BeaR.10.2.28.1	\$45,925						\$45,925	CDFW
	SONCC-BeaR.10.2.28.2	\$114,813						\$114,813	CDFW
	Action Total:	\$160,738						\$160,738	
SONCC-BeaR.10.2.39	SONCC-BeaR.10.2.39.1	\$45,925						\$45,925	CDFW
	SONCC-BeaR.10.2.39.2	\$114,813						\$114,813	CDFW
	Action Total:	\$160,738						\$160,738	
SONCC-BeaR.10.7.38	SONCC-BeaR.10.7.38.1	\$8,504						\$8,504	CDFW
	SONCC-BeaR.10.7.38.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-BeaR.10.7.40	SONCC-BeaR.10.7.40.1	\$8,504						\$8,504	CDFW
	SONCC-BeaR.10.7.40.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-BeaR.1.2.26	SONCC-BeaR.1.2.26.1	\$34,015						\$34,015	CDFW
	SONCC-BeaR.1.2.26.2	\$34,015						\$34,015	CDFW
	SONCC-BeaR.1.2.26.3	\$6,000						\$6,000	CDFW
	Action Total:	\$74,030						\$74,030	
SONCC-BeaR.16.1.10	SONCC-BeaR.16.1.10.1	\$34,015						\$34,015	NMFS
	SONCC-BeaR.16.1.10.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-BeaR.16.1.11	SONCC-BeaR.16.1.11.1	\$34,015						\$34,015	NMFS
	SONCC-BeaR.16.1.11.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-BeaR.16.2.12									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-BeaR.16.2.12.1	\$34,015						\$34,015	NMFS
	SONCC-BeaR.16.2.12.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-BeaR.16.2.13									
	SONCC-BeaR.16.2.13.1	\$34,015						\$34,015	NMFS
	SONCC-BeaR.16.2.13.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-BeaR.10.1.33									
	SONCC-BeaR.10.1.33.1	\$0						\$0	RWQCB
	SONCC-BeaR.10.1.33.2	\$0						\$0	RWQCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-BeaR.27.2.24									
	SONCC-BeaR.27.2.24.1	\$68,030						\$68,030	CDFW
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-BeaR.27.2.29									
	SONCC-BeaR.27.2.29.1	\$76,292		\$76,292		\$76,292		\$228,876	CDFW
	Action Total:	<i>\$76,292</i>		<i>\$76,292</i>		<i>\$76,292</i>		<i>\$228,876</i>	
SONCC-BeaR.27.2.30									
	SONCC-BeaR.27.2.30.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-BeaR.27.2.35									
	SONCC-BeaR.27.2.35.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-BeaR.27.2.17									
	SONCC-BeaR.27.2.17.1	\$136,060						\$136,060	CDFW
	SONCC-BeaR.27.2.17.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	<i>\$136,060</i>	<i>\$81,800</i>		<i>\$81,800</i>		<i>\$81,800</i>	<i>\$381,460</i>	
SONCC-BeaR.27.2.18									
	SONCC-BeaR.27.2.18.1	\$76,292		\$76,292		\$76,292		\$228,876	CDFW
	Action Total:	<i>\$76,292</i>		<i>\$76,292</i>		<i>\$76,292</i>		<i>\$228,876</i>	
SONCC-BeaR.27.2.19									
	SONCC-BeaR.27.2.19.1	\$76,292		\$76,292		\$76,292		\$228,876	CDFW
	Action Total:	<i>\$76,292</i>		<i>\$76,292</i>		<i>\$76,292</i>		<i>\$228,876</i>	
SONCC-BeaR.27.2.21									
	SONCC-BeaR.27.2.21.1	\$76,292		\$76,292		\$76,292		\$228,876	CDFW
	Action Total:	<i>\$76,292</i>		<i>\$76,292</i>		<i>\$76,292</i>		<i>\$228,876</i>	
SONCC-BeaR.27.2.22									
	SONCC-BeaR.27.2.22.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-BeaR.27.2.37									
	SONCC-BeaR.27.2.37.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-BeaR.27.1.23									
	SONCC-BeaR.27.1.23.1	\$34,015						\$34,015	NMFS
	SONCC-BeaR.27.1.23.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-BeaR.27.1.15									
	SONCC-BeaR.27.1.15.1	\$23,921	\$23,921	\$23,921	\$23,921	\$23,921	\$23,921	\$143,526	CDFW
	Action Total:	<i>\$23,921</i>	<i>\$23,921</i>	<i>\$23,921</i>	<i>\$23,921</i>	<i>\$23,921</i>	<i>\$23,921</i>	<i>\$143,526</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-BeaR.27.1.16	SONCC-BeaR.27.1.16.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-BeaR.27.4.34	SONCC-BeaR.27.4.34.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-BeaR.3.1.8	SONCC-BeaR.3.1.8.1							\$0	SWRCB
	SONCC-BeaR.3.1.8.2							\$0	SWRCB
	Action Total:							<i>\$0</i>	
SONCC-BeaR.3.1.9	SONCC-BeaR.3.1.9.1							\$0	SWRCB
	SONCC-BeaR.3.1.9.2							\$0	SWRCB
	Action Total:							<i>\$0</i>	
SONCC-BeaR.8.1.4	SONCC-BeaR.8.1.4.1							\$0	CCC
	SONCC-BeaR.8.1.4.2							\$0	CCC
	Action Total:							<i>\$0</i>	
Population Total:		<i>\$15,990,463</i>	<i>\$769,629</i>	<i>\$1,027,012</i>	<i>\$769,629</i>	<i>\$1,425,975</i>	<i>\$769,629</i>	<i>\$20,752,335</i>	
Population: Brush Creek									
SONCC-BruC.2.1.29	SONCC-BruC.2.1.29.1	\$17,008						\$17,008	OSP
	SONCC-BruC.2.1.29.2	\$175,312						\$175,312	OSP
	Action Total:	<i>\$192,320</i>						<i>\$192,320</i>	
SONCC-BruC.19.1.2	SONCC-BruC.19.1.2.1	\$68,030						\$68,030	ODF
	SONCC-BruC.19.1.2.2	\$0						\$0	ODF
	SONCC-BruC.19.1.2.3	\$0						\$0	ODF
	SONCC-BruC.19.1.2.4	\$0						\$0	ODF
	SONCC-BruC.19.1.2.5	\$0						\$0	ODF
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-BruC.2.1.1	SONCC-BruC.2.1.1.1	\$17,008						\$17,008	OSP
	SONCC-BruC.2.1.1.2	\$175,312						\$175,312	OSP
	Action Total:	<i>\$192,320</i>						<i>\$192,320</i>	
SONCC-BruC.28.2.11	SONCC-BruC.28.2.11.1	\$36,770						\$36,770	OSP
	Action Total:	<i>\$36,770</i>						<i>\$36,770</i>	
SONCC-BruC.2.1.18	SONCC-BruC.2.1.18.1	\$0						\$0	ODFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-BruC.2.2.9	SONCC-BruC.2.2.9.1	\$17,008						\$17,008	ODFW
	SONCC-BruC.2.2.9.2	\$51,129						\$51,129	ODFW
	Action Total:	<i>\$68,137</i>						<i>\$68,137</i>	
SONCC-BruC.2.2.3	SONCC-BruC.2.2.3.1	\$17,008					\$17,008	OSP	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-BruC.2.2.3.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-BruC.2.2.3.3	\$10,000						\$10,000	OSP
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-BruC.2.2.30									
	SONCC-BruC.2.2.30.1	\$17,008						\$17,008	OSP
	SONCC-BruC.2.2.30.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-BruC.2.2.30.3	\$10,000						\$10,000	OSP
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-BruC.2.2.31									
	SONCC-BruC.2.2.31.1	\$17,008						\$17,008	ODFW
	SONCC-BruC.2.2.31.2	\$51,129						\$51,129	ODFW
	Action Total:	<i>\$68,137</i>						<i>\$68,137</i>	
SONCC-BruC.28.2.20									
	SONCC-BruC.28.2.20.1	\$0						\$0	County
	SONCC-BruC.28.2.20.2	\$0						\$0	County
	SONCC-BruC.28.2.20.3	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-BruC.8.1.10									
	SONCC-BruC.8.1.10.1	\$13,719						\$13,719	NGO
	SONCC-BruC.8.1.10.2	\$199,390						\$199,390	NGO
	SONCC-BruC.8.1.10.3	\$17,442						\$17,442	NGO
	SONCC-BruC.8.1.10.4	\$28,668						\$28,668	NGO
	Action Total:	<i>\$259,219</i>						<i>\$259,219</i>	
SONCC-BruC.8.1.33									
	SONCC-BruC.8.1.33.1	\$13,719						\$13,719	NGO
	SONCC-BruC.8.1.33.2	\$199,390						\$199,390	NGO
	SONCC-BruC.8.1.33.3	\$17,442						\$17,442	NGO
	SONCC-BruC.8.1.33.4	\$28,668						\$28,668	NGO
	Action Total:	<i>\$259,219</i>						<i>\$259,219</i>	
SONCC-BruC.7.1.19									
	SONCC-BruC.7.1.19.1	\$0						\$0	County
	SONCC-BruC.7.1.19.2	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-BruC.7.1.6									
	SONCC-BruC.7.1.6.1	\$34,015						\$34,015	OSP
	SONCC-BruC.7.1.6.2	\$7,271						\$7,271	OSP
	SONCC-BruC.7.1.6.3	\$13,954						\$13,954	OSP
	Action Total:	<i>\$55,240</i>						<i>\$55,240</i>	
SONCC-BruC.5.1.7									
	SONCC-BruC.5.1.7.1	\$22,270						\$22,270	OSP
	SONCC-BruC.5.1.7.2	\$79,940						\$79,940	OSP
	Action Total:	<i>\$102,210</i>						<i>\$102,210</i>	
SONCC-BruC.5.1.32									
	SONCC-BruC.5.1.32.1	\$22,270						\$22,270	OSP
	SONCC-BruC.5.1.32.2	\$79,940						\$79,940	OSP
	Action Total:	<i>\$102,210</i>						<i>\$102,210</i>	
SONCC-BruC.10.7.27									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-BruC.10.7.27.1	\$8,504						\$8,504	ODFW
	SONCC-BruC.10.7.27.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-BruC.10.7.28									
	SONCC-BruC.10.7.28.1	\$8,504						\$8,504	ODFW
	SONCC-BruC.10.7.28.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-BruC.10.2.17									
	SONCC-BruC.10.2.17.1	\$0						\$0	ODEQ
	SONCC-BruC.10.2.17.2	\$0						\$0	ODEQ
	Action Total:	\$0						\$0	
SONCC-BruC.27.2.13									
	SONCC-BruC.27.2.13.1	\$1,077		\$1,077		\$1,077		\$3,231	ODFW
	Action Total:	\$1,077		\$1,077		\$1,077		\$3,231	
SONCC-BruC.27.2.14									
	SONCC-BruC.27.2.14.1	\$1,077		\$1,077		\$1,077		\$3,231	ODFW
	Action Total:	\$1,077		\$1,077		\$1,077		\$3,231	
SONCC-BruC.27.2.25									
	SONCC-BruC.27.2.25.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-BruC.27.2.26									
	SONCC-BruC.27.2.26.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-BruC.27.2.8									
	SONCC-BruC.27.2.8.1	\$136,060						\$136,060	ODFW
	SONCC-BruC.27.2.8.2			\$81,800			\$81,800	\$163,600	ODFW
	Action Total:	\$136,060		\$81,800			\$81,800	\$299,660	
SONCC-BruC.27.1.12									
	SONCC-BruC.27.1.12.1	\$2,842	\$2,842	\$2,842	\$2,842	\$2,842	\$2,842	\$17,052	ODFW
	Action Total:	\$2,842	\$2,842	\$2,842	\$2,842	\$2,842	\$2,842	\$17,052	
SONCC-BruC.27.1.15									
	SONCC-BruC.27.1.15.1	\$34,015						\$34,015	NMFS
	SONCC-BruC.27.1.15.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-BruC.27.1.24									
	SONCC-BruC.27.1.24.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-BruC.27.4.21									
	SONCC-BruC.27.4.21.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-BruC.27.4.22									
	SONCC-BruC.27.4.22.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-BruC.27.4.23									
	SONCC-BruC.27.4.23.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
	Population Total:	\$2,245,576	\$598,515	\$682,469	\$598,515	\$600,669	\$680,315	\$5,406,057	

Population: Chetco River

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-CheR.2.8.4	SONCC-CheR.2.8.4.1	\$68,030						\$68,030	ODF
	SONCC-CheR.2.8.4.2	\$0						\$0	ODF
	SONCC-CheR.2.8.4.3	\$0						\$0	ODF
	SONCC-CheR.2.8.4.4	\$0						\$0	ODF
	SONCC-CheR.2.8.4.5	\$0						\$0	ODF
	Action Total:		<i>\$68,030</i>						<i>\$68,030</i>
SONCC-CheR.2.4.9	SONCC-CheR.2.4.9.1	\$17,008						\$17,008	ODFW
	SONCC-CheR.2.4.9.2	\$167,500						\$167,500	ODFW
	Action Total:		<i>\$184,508</i>					<i>\$184,508</i>	
SONCC-CheR.2.4.69	SONCC-CheR.2.4.69.1	\$17,008						\$17,008	ODFW
	SONCC-CheR.2.4.69.2	\$167,500						\$167,500	ODFW
	Action Total:		<i>\$184,508</i>					<i>\$184,508</i>	
SONCC-CheR.22.2.43	SONCC-CheR.22.2.43.1	\$36,770						\$36,770	OWRD
	SONCC-CheR.22.2.43.2	\$36,770						\$36,770	OWRD
	SONCC-CheR.22.2.43.3	\$0						\$0	OWRD
	SONCC-CheR.22.2.43.4	\$0						\$0	OWRD
	Action Total:		<i>\$73,540</i>					<i>\$73,540</i>	
SONCC-CheR.2.5.8	SONCC-CheR.2.5.8.1	\$22,270						\$22,270	ODFW
	SONCC-CheR.2.5.8.2	\$10,049						\$10,049	ODFW
	Action Total:		<i>\$32,319</i>					<i>\$32,319</i>	
SONCC-CheR.2.5.70	SONCC-CheR.2.5.70.1	\$22,270						\$22,270	ODFW
	SONCC-CheR.2.5.70.2	\$10,049						\$10,049	ODFW
	Action Total:		<i>\$32,319</i>					<i>\$32,319</i>	
SONCC-CheR.7.1.75	SONCC-CheR.7.1.75.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-CheR.7.1.75.2	\$85,038						\$85,038	NRCS/RCD
	SONCC-CheR.7.1.75.3	\$85,038						\$85,038	NRCS/RCD
	Action Total:		<i>\$187,083</i>					<i>\$187,083</i>	
SONCC-CheR.7.1.46	SONCC-CheR.7.1.46.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-CheR.7.1.46.2	\$85,038						\$85,038	NRCS/RCD
	SONCC-CheR.7.1.46.3	\$85,038						\$85,038	NRCS/RCD
	Action Total:		<i>\$187,083</i>					<i>\$187,083</i>	
SONCC-CheR.7.1.3	SONCC-CheR.7.1.3.1	\$0						\$0	County
	SONCC-CheR.7.1.3.2	\$0						\$0	County
	Action Total:		<i>\$0</i>					<i>\$0</i>	
SONCC-CheR.2.1.44	SONCC-CheR.2.1.44.1	\$470,000						\$470,000	USFS
	Action Total:		<i>\$470,000</i>					<i>\$470,000</i>	
SONCC-CheR.2.1.6									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-CheR.2.1.6.1	\$17,008						\$17,008	USFS
	SONCC-CheR.2.1.6.2	\$438,280						\$438,280	USFS
	Action Total:	<i>\$455,288</i>						<i>\$455,288</i>	
SONCC-CheR.2.1.66									
	SONCC-CheR.2.1.66.1	\$17,008						\$17,008	USFS
	SONCC-CheR.2.1.66.2	\$438,280						\$438,280	USFS
	Action Total:	<i>\$455,288</i>						<i>\$455,288</i>	
SONCC-CheR.2.2.32									
	SONCC-CheR.2.2.32.1	\$17,008						\$17,008	ODFW
	SONCC-CheR.2.2.32.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-CheR.2.2.32.3	\$10,000						\$10,000	ODFW
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-CheR.2.2.5									
	SONCC-CheR.2.2.5.1	\$17,008						\$17,008	USFS
	SONCC-CheR.2.2.5.2	\$81,806						\$81,806	USFS
	Action Total:	<i>\$98,814</i>						<i>\$98,814</i>	
SONCC-CheR.2.2.67									
	SONCC-CheR.2.2.67.1	\$17,008						\$17,008	ODFW
	SONCC-CheR.2.2.67.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-CheR.2.2.67.3	\$10,000						\$10,000	ODFW
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-CheR.2.2.68									
	SONCC-CheR.2.2.68.1	\$17,008						\$17,008	USFS
	SONCC-CheR.2.2.68.2	\$81,806						\$81,806	USFS
	Action Total:	<i>\$98,814</i>						<i>\$98,814</i>	
SONCC-CheR.22.5.10									
	SONCC-CheR.22.5.10.1	\$73,540						\$73,540	Watershed Cnsl
	SONCC-CheR.22.5.10.2	\$17,077						\$17,077	Watershed Cnsl
	Action Total:	<i>\$90,617</i>						<i>\$90,617</i>	
SONCC-CheR.7.1.36									
	SONCC-CheR.7.1.36.1	\$34,015						\$34,015	USFS
	SONCC-CheR.7.1.36.2	\$222,263						\$222,263	USFS
	Action Total:	<i>\$256,278</i>						<i>\$256,278</i>	
SONCC-CheR.22.3.48									
	SONCC-CheR.22.3.48.1	\$0						\$0	County
	SONCC-CheR.22.3.48.2	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-CheR.2.1.42									
	SONCC-CheR.2.1.42.1	\$17,008						\$17,008	ODFW
	SONCC-CheR.2.1.42.2	\$0						\$0	ODFW
	SONCC-CheR.2.1.42.3	\$38,068						\$38,068	ODFW
	SONCC-CheR.2.1.42.4	\$0						\$0	ODFW
	Action Total:	<i>\$55,076</i>						<i>\$55,076</i>	
SONCC-CheR.2.1.7									
	SONCC-CheR.2.1.7.1	\$0						\$0	County
	SONCC-CheR.2.1.7.2	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-CheR.22.1.45	SONCC-CheR.22.1.45.1	\$76,136						\$76,136	ODEQ
	SONCC-CheR.22.1.45.2	\$0						\$0	ODEQ
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	
SONCC-CheR.22.1.49	SONCC-CheR.22.1.49.1	\$0						\$0	County
	SONCC-CheR.22.1.49.2	\$0						\$0	County
	SONCC-CheR.22.1.49.3	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-CheR.26.1.62	SONCC-CheR.26.1.62.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-CheR.2.2.58	SONCC-CheR.2.2.58.1	\$0						\$0	ODFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-CheR.3.1.11	SONCC-CheR.3.1.11.1	\$17,008						\$17,008	OWRD
	SONCC-CheR.3.1.11.2	\$18,385						\$18,385	OWRD
	SONCC-CheR.3.1.11.3	\$38,068						\$38,068	OWRD
	Action Total:	<i>\$73,461</i>						<i>\$73,461</i>	
SONCC-CheR.3.1.72	SONCC-CheR.3.1.72.1	\$17,008						\$17,008	OWRD
	SONCC-CheR.3.1.72.2	\$18,385						\$18,385	OWRD
	SONCC-CheR.3.1.72.3	\$38,068						\$38,068	OWRD
	Action Total:	<i>\$73,461</i>						<i>\$73,461</i>	
SONCC-CheR.10.2.16	SONCC-CheR.10.2.16.1	\$0						\$0	EPA
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-CheR.2.1.65	SONCC-CheR.2.1.65.1	\$17,008						\$17,008	ODFW
	SONCC-CheR.2.1.65.2	\$0						\$0	ODFW
	SONCC-CheR.2.1.65.3	\$38,068						\$38,068	ODFW
	SONCC-CheR.2.1.65.4	\$0						\$0	ODFW
	Action Total:	<i>\$55,076</i>						<i>\$55,076</i>	
SONCC-CheR.7.1.33	SONCC-CheR.7.1.33.1	\$0						\$0	BLM
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-CheR.7.1.47	SONCC-CheR.7.1.47.1	\$170,075						\$170,075	USFS
	Action Total:	<i>\$170,075</i>						<i>\$170,075</i>	
SONCC-CheR.5.1.37	SONCC-CheR.5.1.37.1	\$34,015						\$34,015	BLM
	SONCC-CheR.5.1.37.2	\$654,068						\$654,068	BLM
	Action Total:	<i>\$688,083</i>						<i>\$688,083</i>	
SONCC-CheR.5.1.74	SONCC-CheR.5.1.74.1	\$17,008						\$17,008	County
	SONCC-CheR.5.1.74.2	\$327,034						\$327,034	County
	Action Total:	<i>\$344,042</i>						<i>\$344,042</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-CheR.5.1.12	SONCC-CheR.5.1.12.1	\$17,008						\$17,008	County
	SONCC-CheR.5.1.12.2	\$327,034						\$327,034	County
	Action Total:	<i>\$344,042</i>						<i>\$344,042</i>	
SONCC-CheR.3.1.51	SONCC-CheR.3.1.51.1	\$0						\$0	OWRD
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-CheR.3.1.73	SONCC-CheR.3.1.73.1	\$0						\$0	OWRD
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-CheR.3.1.61	SONCC-CheR.3.1.61.1	\$36,770						\$36,770	OWRD
	Action Total:	<i>\$36,770</i>						<i>\$36,770</i>	
SONCC-CheR.28.1.13	SONCC-CheR.28.1.13.1	\$271,959						\$271,959	USFS
	SONCC-CheR.28.1.13.2	\$677,926						\$677,926	USFS
	SONCC-CheR.28.1.13.3	\$14,535						\$14,535	USFS
	SONCC-CheR.28.1.13.4	\$191,120					\$191,120	\$382,240	USFS
	Action Total:	<i>\$1,155,540</i>					<i>\$191,120</i>	<i>\$1,346,660</i>	
SONCC-CheR.28.1.71	SONCC-CheR.28.1.71.1	\$271,959						\$271,959	USFS
	SONCC-CheR.28.1.71.2	\$677,926						\$677,926	USFS
	SONCC-CheR.28.1.71.3	\$14,535						\$14,535	USFS
	SONCC-CheR.28.1.71.4	\$191,120					\$191,120	\$382,240	USFS
	Action Total:	<i>\$1,155,540</i>					<i>\$191,120</i>	<i>\$1,346,660</i>	
SONCC-CheR.10.2.41	SONCC-CheR.10.2.41.1	\$22,963						\$22,963	ODFW
	SONCC-CheR.10.2.41.2	\$38,068						\$38,068	ODFW
	Action Total:	<i>\$61,031</i>						<i>\$61,031</i>	
SONCC-CheR.10.2.63	SONCC-CheR.10.2.63.1	\$22,963						\$22,963	ODFW
	SONCC-CheR.10.2.63.2	\$38,068						\$38,068	ODFW
	Action Total:	<i>\$61,031</i>						<i>\$61,031</i>	
SONCC-CheR.10.7.60	SONCC-CheR.10.7.60.1	\$8,504						\$8,504	ODFW
	SONCC-CheR.10.7.60.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-CheR.10.7.64	SONCC-CheR.10.7.64.1	\$8,504						\$8,504	ODFW
	SONCC-CheR.10.7.64.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-CheR.1.2.31	SONCC-CheR.1.2.31.1	\$34,015						\$34,015	ODFW
	SONCC-CheR.1.2.31.2	\$34,015						\$34,015	ODFW
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-CheR.16.1.17	SONCC-CheR.16.1.17.1	\$34,015						\$34,015	NMFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-CheR.16.1.17.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-CheR.16.1.18									
	SONCC-CheR.16.1.18.1	\$34,015						\$34,015	NMFS
	SONCC-CheR.16.1.18.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-CheR.16.2.19									
	SONCC-CheR.16.2.19.1	\$34,015						\$34,015	NMFS
	SONCC-CheR.16.2.19.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-CheR.16.2.20									
	SONCC-CheR.16.2.20.1	\$34,015						\$34,015	NMFS
	SONCC-CheR.16.2.20.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-CheR.10.2.15									
	SONCC-CheR.10.2.15.1	\$76,136						\$76,136	OWRD
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	
SONCC-CheR.27.2.34									
	SONCC-CheR.27.2.34.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-CheR.27.2.35									
	SONCC-CheR.27.2.35.1	\$34,015		\$34,015		\$34,015		\$102,045	ODFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-CheR.27.2.40									
	SONCC-CheR.27.2.40.1	\$68,030						\$68,030	ODFW
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-CheR.27.2.57									
	SONCC-CheR.27.2.57.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-CheR.27.2.59									
	SONCC-CheR.27.2.59.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-CheR.27.2.25									
	SONCC-CheR.27.2.25.1	\$136,060						\$136,060	ODFW
	SONCC-CheR.27.2.25.2		\$81,800		\$81,800		\$81,800	\$245,400	ODFW
	Action Total:	<i>\$136,060</i>	<i>\$81,800</i>		<i>\$81,800</i>		<i>\$81,800</i>	<i>\$381,460</i>	
SONCC-CheR.27.2.26									
	SONCC-CheR.27.2.26.1	\$609,211		\$609,211		\$609,211		\$1,827,633	ODFW
	Action Total:	<i>\$609,211</i>		<i>\$609,211</i>		<i>\$609,211</i>		<i>\$1,827,633</i>	
SONCC-CheR.27.2.27									
	SONCC-CheR.27.2.27.1	\$609,211		\$609,211		\$609,211		\$1,827,633	ODFW
	Action Total:	<i>\$609,211</i>		<i>\$609,211</i>		<i>\$609,211</i>		<i>\$1,827,633</i>	
SONCC-CheR.27.2.28									
	SONCC-CheR.27.2.28.1	\$609,211		\$609,211		\$609,211		\$1,827,633	ODFW
	Action Total:	<i>\$609,211</i>		<i>\$609,211</i>		<i>\$609,211</i>		<i>\$1,827,633</i>	
SONCC-CheR.27.2.29									
	SONCC-CheR.27.2.29.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	ODFW
	Action Total:	<i>\$65,911</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$264,786</i>	
SONCC-CheR.27.2.30									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-CheR.27.2.30.1	\$34,015		\$34,015		\$34,015		\$102,045	ODFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-CheR.27.1.38									
	SONCC-CheR.27.1.38.1	\$34,015						\$34,015	NMFS
	SONCC-CheR.27.1.38.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-CheR.27.1.39									
	SONCC-CheR.27.1.39.1	\$34,015						\$34,015	ODFW
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-CheR.27.1.52									
	SONCC-CheR.27.1.52.1	\$67,595	\$67,595	\$67,595	\$67,595	\$67,595	\$67,595	\$405,570	ODFW
	Action Total:	<i>\$67,595</i>	<i>\$67,595</i>	<i>\$67,595</i>	<i>\$67,595</i>	<i>\$67,595</i>	<i>\$67,595</i>	<i>\$405,570</i>	
SONCC-CheR.27.1.21									
	SONCC-CheR.27.1.21.1	\$202,785	\$202,785	\$202,785	\$202,785	\$202,785	\$202,785	\$1,216,710	ODFW
	Action Total:	<i>\$202,785</i>	<i>\$202,785</i>	<i>\$202,785</i>	<i>\$202,785</i>	<i>\$202,785</i>	<i>\$202,785</i>	<i>\$1,216,710</i>	
SONCC-CheR.27.1.22									
	SONCC-CheR.27.1.22.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	ODFW
	Action Total:	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$6,120,000</i>	
SONCC-CheR.27.1.23									
	SONCC-CheR.27.1.23.1	\$68,030		\$68,030		\$68,030		\$204,090	ODFW
	Action Total:	<i>\$68,030</i>		<i>\$68,030</i>		<i>\$68,030</i>		<i>\$204,090</i>	
SONCC-CheR.27.1.24									
	SONCC-CheR.27.1.24.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-CheR.27.4.53									
	SONCC-CheR.27.4.53.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-CheR.27.4.54									
	SONCC-CheR.27.4.54.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-CheR.27.4.55									
	SONCC-CheR.27.4.55.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-CheR.27.4.56									
	SONCC-CheR.27.4.56.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-CheR.7.1.2									
	SONCC-CheR.7.1.2.1							\$0	USFS
	SONCC-CheR.7.1.2.2							\$0	USFS
	Action Total:							<i>\$0</i>	
	Population Total:	<i>\$12,120,438</i>	<i>\$2,229,135</i>	<i>\$4,111,028</i>	<i>\$2,229,135</i>	<i>\$4,111,028</i>	<i>\$2,611,375</i>	<i>\$27,412,139</i>	
Population: Elk Creek									
SONCC-EIkC.7.1.15									
	SONCC-EIkC.7.1.15.1	\$15,673						\$15,673	City
	Action Total:	<i>\$15,673</i>						<i>\$15,673</i>	
SONCC-EIkC.7.1.35									
	SONCC-EIkC.7.1.35.1	\$15,673						\$15,673	NGO
	Action Total:	<i>\$15,673</i>						<i>\$15,673</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-EIkC.2.1.1	SONCC-EIkC.2.1.1.1	\$17,008						\$17,008	CDFW
	SONCC-EIkC.2.1.1.2	\$616,331						\$616,331	CDFW
	Action Total:	<i>\$633,339</i>						<i>\$633,339</i>	
SONCC-EIkC.2.1.31	SONCC-EIkC.2.1.31.1	\$17,008						\$17,008	CDFW
	SONCC-EIkC.2.1.31.2	\$616,331						\$616,331	CDFW
	Action Total:	<i>\$633,339</i>						<i>\$633,339</i>	
SONCC-EIkC.2.2.3	SONCC-EIkC.2.2.3.1	\$17,008						\$17,008	CDFW
	SONCC-EIkC.2.2.3.2	\$581,400						\$581,400	CDFW
	Action Total:	<i>\$598,408</i>						<i>\$598,408</i>	
SONCC-EIkC.2.2.32	SONCC-EIkC.2.2.32.1	\$17,008						\$17,008	CDFW
	SONCC-EIkC.2.2.32.2	\$581,400						\$581,400	CDFW
	Action Total:	<i>\$598,408</i>						<i>\$598,408</i>	
SONCC-EIkC.7.1.16	SONCC-EIkC.7.1.16.1	\$34,015						\$34,015	City
	SONCC-EIkC.7.1.16.2	\$34,015						\$34,015	City
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-EIkC.7.1.17	SONCC-EIkC.7.1.17.1	\$0						\$0	County
	SONCC-EIkC.7.1.17.2	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-EIkC.5.1.20	SONCC-EIkC.5.1.20.1	\$44,540						\$44,540	County
	SONCC-EIkC.5.1.20.2	\$159,880						\$159,880	County
	Action Total:	<i>\$204,420</i>						<i>\$204,420</i>	
SONCC-EIkC.5.1.21	SONCC-EIkC.5.1.21.1	\$79,940						\$79,940	County
	Action Total:	<i>\$79,940</i>						<i>\$79,940</i>	
SONCC-EIkC.5.1.34	SONCC-EIkC.5.1.34.1	\$79,940						\$79,940	County
	Action Total:	<i>\$79,940</i>						<i>\$79,940</i>	
SONCC-EIkC.3.1.4	SONCC-EIkC.3.1.4.1	\$73,540						\$73,540	CDFW
	SONCC-EIkC.3.1.4.2	\$0						\$0	CDFW
	Action Total:	<i>\$73,540</i>						<i>\$73,540</i>	
SONCC-EIkC.3.2.9	SONCC-EIkC.3.2.9.1	\$0						\$0	County
	SONCC-EIkC.3.2.9.2	\$18,335						\$18,335	County
	Action Total:	<i>\$18,335</i>						<i>\$18,335</i>	
SONCC-EIkC.3.2.33	SONCC-EIkC.3.2.33.1	\$0						\$0	County
	SONCC-EIkC.3.2.33.2	\$18,335						\$18,335	County
	Action Total:	<i>\$18,335</i>						<i>\$18,335</i>	
SONCC-EIkC.8.1.12	SONCC-EIkC.8.1.12.1	\$52,455						\$52,455	County

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-EikC.8.1.12.2	\$2,253,107						\$2,253,107	County
	SONCC-EikC.8.1.12.3	\$15,388						\$15,388	County
	SONCC-EikC.8.1.12.4	\$20,307					\$20,307	\$40,613	County
	Action Total:	<i>\$2,341,257</i>					<i>\$20,307</i>	<i>\$2,361,563</i>	
SONCC-EikC.8.1.36									
	SONCC-EikC.8.1.36.1	\$52,455						\$52,455	County
	SONCC-EikC.8.1.36.2	\$2,253,107						\$2,253,107	County
	SONCC-EikC.8.1.36.3	\$15,388						\$15,388	County
	SONCC-EikC.8.1.36.4	\$20,307					\$20,307	\$40,613	County
	Action Total:	<i>\$2,341,257</i>					<i>\$20,307</i>	<i>\$2,361,563</i>	
SONCC-EikC.10.2.18									
	SONCC-EikC.10.2.18.1	\$22,963						\$22,963	RWQCB
	SONCC-EikC.10.2.18.2	\$2,108,812						\$2,108,812	RWQCB
	Action Total:	<i>\$2,131,774</i>						<i>\$2,131,774</i>	
SONCC-EikC.10.2.29									
	SONCC-EikC.10.2.29.1	\$22,963						\$22,963	RWQCB
	SONCC-EikC.10.2.29.2	\$2,108,812						\$2,108,812	RWQCB
	Action Total:	<i>\$2,131,774</i>						<i>\$2,131,774</i>	
SONCC-EikC.10.7.30									
	SONCC-EikC.10.7.30.1	\$8,504						\$8,504	CDFW
	SONCC-EikC.10.7.30.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-EikC.10.7.28									
	SONCC-EikC.10.7.28.1	\$8,504						\$8,504	CDFW
	SONCC-EikC.10.7.28.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-EikC.27.2.22									
	SONCC-EikC.27.2.22.1	\$136,060						\$136,060	CDFW
	SONCC-EikC.27.2.22.2			\$81,800			\$81,800	\$163,600	CDFW
	Action Total:	<i>\$136,060</i>		<i>\$81,800</i>			<i>\$81,800</i>	<i>\$299,660</i>	
SONCC-EikC.27.2.24									
	SONCC-EikC.27.2.24.1	\$10,069		\$10,069		\$10,069		\$30,207	CDFW
	Action Total:	<i>\$10,069</i>		<i>\$10,069</i>		<i>\$10,069</i>		<i>\$30,207</i>	
SONCC-EikC.27.2.26									
	SONCC-EikC.27.2.26.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-EikC.27.1.23									
	SONCC-EikC.27.1.23.1	\$31,320	\$31,320	\$31,320	\$31,320	\$31,320	\$31,320	\$187,920	CDFW
	Action Total:	<i>\$31,320</i>	<i>\$31,320</i>	<i>\$31,320</i>	<i>\$31,320</i>	<i>\$31,320</i>	<i>\$31,320</i>	<i>\$187,920</i>	
SONCC-EikC.27.1.25									
	SONCC-EikC.27.1.25.1	\$34,015						\$34,015	NMFS
	SONCC-EikC.27.1.25.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-EikC.7.1.14									
	SONCC-EikC.7.1.14.1							\$0	NRCS/RCD
	SONCC-EikC.7.1.14.2							\$0	NRCS/RCD
	SONCC-EikC.7.1.14.3							\$0	NRCS/RCD

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-EIkC.7.1.14.4							\$0	NRCS/RCD
	SONCC-EIkC.7.1.14.5							\$0	NRCS/RCD
	Action Total:							\$0	
SONCC-EIkC.2.2.2									
	SONCC-EIkC.2.2.2.1							\$0	CDFW
	SONCC-EIkC.2.2.2.2							\$0	CDFW
	SONCC-EIkC.2.2.2.3							\$0	CDFW
	Action Total:							\$0	
SONCC-EIkC.1.2.10									
	SONCC-EIkC.1.2.10.1							\$0	CDFW
	SONCC-EIkC.1.2.10.2							\$0	CDFW
	Action Total:							\$0	
SONCC-EIkC.3.1.5									
	SONCC-EIkC.3.1.5.1							\$0	NGO
	Action Total:							\$0	
SONCC-EIkC.3.1.6									
	SONCC-EIkC.3.1.6.1							\$0	SWRCB
	SONCC-EIkC.3.1.6.2							\$0	SWRCB
	Action Total:							\$0	
SONCC-EIkC.3.1.8									
	SONCC-EIkC.3.1.8.1							\$0	SWRCB
	Action Total:							\$0	
SONCC-EIkC.2.2.27									
	SONCC-EIkC.2.2.27.1							\$0	CDFW
	Action Total:							\$0	
SONCC-EIkC.8.1.11									
	SONCC-EIkC.8.1.11.1							\$0	CDFW
	Action Total:							\$0	
SONCC-EIkC.10.2.19									
	SONCC-EIkC.10.2.19.1							\$0	RWQCB
	Action Total:							\$0	
	Population Total:	\$12,399,200	\$218,608	\$310,477	\$218,608	\$228,677	\$341,021	\$13,716,588	
Population: Elk River									
SONCC-EIkR.12.1.41									
	SONCC-EIkR.12.1.41.1	\$0						\$0	ODA
	SONCC-EIkR.12.1.41.2	\$0						\$0	ODA
	SONCC-EIkR.12.1.41.3	\$0						\$0	ODA
	SONCC-EIkR.12.1.41.4	\$0						\$0	ODA
	SONCC-EIkR.12.1.41.5	\$0						\$0	ODA
	Action Total:	\$0						\$0	
SONCC-EIkR.2.8.4									
	SONCC-EIkR.2.8.4.1	\$68,030						\$68,030	ODF
	SONCC-EIkR.2.8.4.2	\$0						\$0	ODF
	SONCC-EIkR.2.8.4.3	\$0						\$0	ODF
	SONCC-EIkR.2.8.4.4	\$0						\$0	ODF
	SONCC-EIkR.2.8.4.5	\$0						\$0	ODF
	Action Total:	\$68,030						\$68,030	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-EiKR.2.7.3	SONCC-EiKR.2.7.3.1	\$34,015						\$34,015	FSA
	SONCC-EiKR.2.7.3.2	\$34,015						\$34,015	FSA
	SONCC-EiKR.2.7.3.3	\$219,248						\$219,248	FSA
	SONCC-EiKR.2.7.3.4	\$7,416						\$7,416	FSA
	SONCC-EiKR.2.7.3.5	\$607						\$607	FSA
	Action Total:		\$295,301						\$295,301
SONCC-EiKR.2.1.51	SONCC-EiKR.2.1.51.1	\$17,008						\$17,008	USFS
	SONCC-EiKR.2.1.51.2	\$621,810						\$621,810	USFS
	Action Total:		\$638,817						\$638,817
SONCC-EiKR.2.1.6	SONCC-EiKR.2.1.6.1	\$17,008						\$17,008	USFS
	SONCC-EiKR.2.1.6.2	\$621,810						\$621,810	USFS
	Action Total:		\$638,817						\$638,817
SONCC-EiKR.2.2.53	SONCC-EiKR.2.2.53.1	\$17,008						\$17,008	NGO
	SONCC-EiKR.2.2.53.2	\$116,063						\$116,063	NGO
	Action Total:		\$133,070						\$133,070
SONCC-EiKR.2.2.5	SONCC-EiKR.2.2.5.1	\$17,008						\$17,008	NGO
	SONCC-EiKR.2.2.5.2	\$116,063						\$116,063	NGO
	Action Total:		\$133,070						\$133,070
SONCC-EiKR.10.2.15	SONCC-EiKR.10.2.15.1	\$0						\$0	EPA
	Action Total:		\$0						\$0
SONCC-EiKR.10.1.37	SONCC-EiKR.10.1.37.1	\$0						\$0	OWRD
	Action Total:		\$0						\$0
SONCC-EiKR.2.2.52	SONCC-EiKR.2.2.52.1	\$17,008						\$17,008	ODFW
	SONCC-EiKR.2.2.52.2	\$116,063						\$116,063	ODFW
	Action Total:		\$133,071						\$133,071
SONCC-EiKR.2.2.49	SONCC-EiKR.2.2.49.1	\$17,008						\$17,008	ODFW
	SONCC-EiKR.2.2.49.2	\$116,063						\$116,063	ODFW
	Action Total:		\$133,071						\$133,071
SONCC-EiKR.2.7.1	SONCC-EiKR.2.7.1.1	\$34,015						\$34,015	USFS
	SONCC-EiKR.2.7.1.2	\$627,912						\$627,912	USFS
	Action Total:		\$661,927						\$661,927
SONCC-EiKR.2.1.38	SONCC-EiKR.2.1.38.1	\$34,015						\$34,015	NRCS/RCD
	SONCC-EiKR.2.1.38.2	\$170,075						\$170,075	NRCS/RCD
	SONCC-EiKR.2.1.38.3	\$170,075						\$170,075	NRCS/RCD
	Action Total:		\$374,165						\$374,165
SONCC-EiKR.2.2.29									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-EiKR.2.2.29.1	\$34,015						\$34,015	ODFW
	SONCC-EiKR.2.2.29.2	\$170,075	\$170,075	\$170,075	\$170,075	\$170,075	\$170,075	\$1,020,450	ODFW
	SONCC-EiKR.2.2.29.3	\$20,000						\$20,000	ODFW
	Action Total:	<i>\$224,090</i>	<i>\$170,075</i>	<i>\$170,075</i>	<i>\$170,075</i>	<i>\$170,075</i>	<i>\$170,075</i>	<i>\$1,074,465</i>	
SONCC-EiKR.10.2.36									
	SONCC-EiKR.10.2.36.1	\$76,136						\$76,136	ODEQ
	SONCC-EiKR.10.2.36.2	\$0						\$0	ODEQ
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	
SONCC-EiKR.10.2.40									
	SONCC-EiKR.10.2.40.1	\$0						\$0	County
	SONCC-EiKR.10.2.40.2	\$0						\$0	County
	SONCC-EiKR.10.2.40.3	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-EiKR.26.1.48									
	SONCC-EiKR.26.1.48.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-EiKR.2.2.45									
	SONCC-EiKR.2.2.45.1	\$0						\$0	ODFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-EiKR.2.4.8									
	SONCC-EiKR.2.4.8.1	\$34,015						\$34,015	ODFW
	SONCC-EiKR.2.4.8.2	\$335,000						\$335,000	ODFW
	Action Total:	<i>\$369,015</i>						<i>\$369,015</i>	
SONCC-EiKR.10.4.50									
	SONCC-EiKR.10.4.50.1	\$17,008						\$17,008	OWRD
	SONCC-EiKR.10.4.50.2	\$18,385						\$18,385	OWRD
	Action Total:	<i>\$35,393</i>						<i>\$35,393</i>	
SONCC-EiKR.10.4.12									
	SONCC-EiKR.10.4.12.1	\$17,008						\$17,008	OWRD
	SONCC-EiKR.10.4.12.2	\$18,385						\$18,385	OWRD
	Action Total:	<i>\$35,393</i>						<i>\$35,393</i>	
SONCC-EiKR.10.4.13									
	SONCC-EiKR.10.4.13.1	\$76,136						\$76,136	ODEQ
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	
SONCC-EiKR.2.7.30									
	SONCC-EiKR.2.7.30.1	\$0						\$0	BLM
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-EiKR.2.7.2									
	SONCC-EiKR.2.7.2.1	\$0						\$0	County
	SONCC-EiKR.2.7.2.2	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-EiKR.2.2.28									
	SONCC-EiKR.2.2.28.1	\$34,015						\$34,015	ODFW
	SONCC-EiKR.2.2.28.2	\$34,015						\$34,015	ODFW
	SONCC-EiKR.2.2.28.3	\$34,015						\$34,015	ODFW
	Action Total:	<i>\$102,045</i>						<i>\$102,045</i>	
SONCC-EiKR.5.1.54									
	SONCC-EiKR.5.1.54.1	\$22,270						\$22,270	Watershed Cnsl

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-EiKR.5.1.54.2	\$218,023						\$218,023	Watershed Cnsl
	Action Total:	\$240,293						\$240,293	
SONCC-EiKR.5.1.11									
	SONCC-EiKR.5.1.11.1	\$22,270						\$22,270	Watershed Cnsl
	SONCC-EiKR.5.1.11.2	\$218,023						\$218,023	Watershed Cnsl
	Action Total:	\$240,293						\$240,293	
SONCC-EiKR.7.1.39									
	SONCC-EiKR.7.1.39.1	\$0						\$0	County
	SONCC-EiKR.7.1.39.2	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-EiKR.8.1.55									
	SONCC-EiKR.8.1.55.1	\$79,490						\$79,490	USFS
	SONCC-EiKR.8.1.55.2	\$219,329						\$219,329	USFS
	SONCC-EiKR.8.1.55.3	\$7,995						\$7,995	USFS
	SONCC-EiKR.8.1.55.4	\$222,177					\$222,177	\$444,354	USFS
	Action Total:	\$528,990					\$222,177	\$751,167	
SONCC-EiKR.8.1.9									
	SONCC-EiKR.8.1.9.1	\$79,490						\$79,490	USFS
	SONCC-EiKR.8.1.9.2	\$219,329						\$219,329	USFS
	SONCC-EiKR.8.1.9.3	\$7,995						\$7,995	USFS
	SONCC-EiKR.8.1.9.4	\$222,177					\$222,177	\$444,354	USFS
	Action Total:	\$528,990					\$222,177	\$751,167	
SONCC-EiKR.10.2.35									
	SONCC-EiKR.10.2.35.1	\$45,925						\$45,925	ODFW
	SONCC-EiKR.10.2.35.2	\$76,136						\$76,136	ODFW
	Action Total:	\$122,061						\$122,061	
SONCC-EiKR.10.2.14									
	SONCC-EiKR.10.2.14.1	\$76,136						\$76,136	OWRD
	Action Total:	\$76,136						\$76,136	
SONCC-EiKR.16.1.16									
	SONCC-EiKR.16.1.16.1	\$34,015						\$34,015	NMFS
	SONCC-EiKR.16.1.16.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-EiKR.16.1.17									
	SONCC-EiKR.16.1.17.1	\$34,015						\$34,015	NMFS
	SONCC-EiKR.16.1.17.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-EiKR.16.2.18									
	SONCC-EiKR.16.2.18.1	\$34,015						\$34,015	NMFS
	SONCC-EiKR.16.2.18.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-EiKR.16.2.19									
	SONCC-EiKR.16.2.19.1	\$34,015						\$34,015	NMFS
	SONCC-EiKR.16.2.19.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-EiKR.1.4.7									
	SONCC-EiKR.1.4.7.1	\$0						\$0	County

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-EiKR.1.4.7.2	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-EiKR.10.7.47									
	SONCC-EiKR.10.7.47.1	\$17,008						\$17,008	ODFW
	SONCC-EiKR.10.7.47.2	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	\$119,258	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$630,508	
SONCC-EiKR.27.2.32									
	SONCC-EiKR.27.2.32.1	\$130,792		\$130,792		\$130,792		\$392,376	ODFW
	Action Total:	\$130,792		\$130,792		\$130,792		\$392,376	
SONCC-EiKR.27.2.34									
	SONCC-EiKR.27.2.34.1	\$68,030						\$68,030	ODFW
	Action Total:	\$68,030						\$68,030	
SONCC-EiKR.27.2.23									
	SONCC-EiKR.27.2.23.1	\$136,060						\$136,060	ODFW
	SONCC-EiKR.27.2.23.2		\$81,800		\$81,800		\$81,800	\$245,400	ODFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-EiKR.27.2.24									
	SONCC-EiKR.27.2.24.1	\$130,792		\$130,792		\$130,792		\$392,376	ODFW
	Action Total:	\$130,792		\$130,792		\$130,792		\$392,376	
SONCC-EiKR.27.2.25									
	SONCC-EiKR.27.2.25.1	\$130,792		\$130,792		\$130,792		\$392,376	ODFW
	Action Total:	\$130,792		\$130,792		\$130,792		\$392,376	
SONCC-EiKR.27.2.26									
	SONCC-EiKR.27.2.26.1	\$130,792		\$130,792		\$130,792		\$392,376	ODFW
	Action Total:	\$130,792		\$130,792		\$130,792		\$392,376	
SONCC-EiKR.27.2.27									
	SONCC-EiKR.27.2.27.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	ODFW
	Action Total:	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	
SONCC-EiKR.27.2.46									
	SONCC-EiKR.27.2.46.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-EiKR.27.1.31									
	SONCC-EiKR.27.1.31.1	\$31,320	\$31,320	\$31,320	\$31,320	\$31,320	\$31,320	\$187,920	ODFW
	Action Total:	\$31,320	\$31,320	\$31,320	\$31,320	\$31,320	\$31,320	\$187,920	
SONCC-EiKR.27.1.33									
	SONCC-EiKR.27.1.33.1	\$34,015						\$34,015	NMFS
	SONCC-EiKR.27.1.33.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-EiKR.27.1.44									
	SONCC-EiKR.27.1.44.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	ODFW
	Action Total:	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	
SONCC-EiKR.27.1.20									
	SONCC-EiKR.27.1.20.1	\$93,960	\$93,960	\$93,960	\$93,960	\$93,960	\$93,960	\$563,760	ODFW
	Action Total:	\$93,960	\$93,960	\$93,960	\$93,960	\$93,960	\$93,960	\$563,760	
SONCC-EiKR.27.1.21									
	SONCC-EiKR.27.1.21.1	\$68,030		\$68,030		\$68,030		\$204,090	ODFW
	Action Total:	\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-EiKR.27.1.22									
	SONCC-EiKR.27.1.22.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-EiKR.27.4.42									
	SONCC-EiKR.27.4.42.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-EiKR.27.4.43									
	SONCC-EiKR.27.4.43.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
Action Total:		\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
Population Total:		\$8,687,762	\$1,930,763	\$2,440,161	\$1,930,763	\$2,440,161	\$2,375,117	\$19,804,725	
Population: Example									
SONCC-Exam.29.2.24									
	SONCC-Exam.29.2.24.1	\$17,008						\$17,008	NMFS
Action Total:		\$17,008						\$17,008	
SONCC-Exam.29.2.25									
	SONCC-Exam.29.2.25.1							\$0	
Action Total:								\$0	
SONCC-Exam.29.2.17									
	SONCC-Exam.29.2.17.1	\$17,008						\$17,008	CDFW
	SONCC-Exam.29.2.17.2	\$0						\$0	CDFW
Action Total:		\$17,008						\$17,008	
SONCC-Exam.29.1.1									
	SONCC-Exam.29.1.1.1	\$17,008						\$17,008	CDFW
	SONCC-Exam.29.1.1.2	\$17,008						\$17,008	CDFW
Action Total:		\$34,015						\$34,015	
SONCC-Exam.29.1.2									
	SONCC-Exam.29.1.2.1	\$17,008						\$17,008	NMFS
Action Total:		\$17,008						\$17,008	
SONCC-Exam.29.1.3									
	SONCC-Exam.29.1.3.1	\$5,670						\$5,670	NMFS
	SONCC-Exam.29.1.3.2	\$5,670						\$5,670	NMFS
Action Total:		\$11,340						\$11,340	
SONCC-Exam.29.1.4									
	SONCC-Exam.29.1.4.1	\$0						\$0	CDFW
	SONCC-Exam.29.1.4.2	\$17,008						\$17,008	CDFW
Action Total:		\$17,008						\$17,008	
SONCC-Exam.29.1.5									
	SONCC-Exam.29.1.5.1	\$17,008						\$17,008	CDFW
	SONCC-Exam.29.1.5.2	\$17,008						\$17,008	CDFW
Action Total:		\$34,015						\$34,015	
SONCC-Exam.29.1.6									
	SONCC-Exam.29.1.6.1	\$17,008						\$17,008	CDFW
Action Total:		\$17,008						\$17,008	
SONCC-Exam.29.1.7									
	SONCC-Exam.29.1.7.1	\$5,670						\$5,670	CDFW
	SONCC-Exam.29.1.7.2	\$5,670						\$5,670	CDFW
	SONCC-Exam.29.1.7.3	\$34,015						\$34,015	CDFW
Action Total:		\$45,355						\$45,355	
SONCC-Exam.29.1.8									
	SONCC-Exam.29.1.8.1	\$5,670						\$5,670	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-Exam.29.1.8.2	\$5,670						\$5,670	CDFW
	SONCC-Exam.29.1.8.3	\$5,670						\$5,670	CDFW
	Action Total:	<i>\$17,010</i>						<i>\$17,010</i>	
SONCC-Exam.29.1.9									
	SONCC-Exam.29.1.9.1	\$5,670						\$5,670	CDFW
	SONCC-Exam.29.1.9.2	\$5,670						\$5,670	CDFW
	Action Total:	<i>\$11,340</i>						<i>\$11,340</i>	
SONCC-Exam.29.1.10									
	SONCC-Exam.29.1.10.1	\$5,670						\$5,670	CDFW
	SONCC-Exam.29.1.10.2	\$5,670						\$5,670	CDFW
	Action Total:	<i>\$11,340</i>						<i>\$11,340</i>	
SONCC-Exam.29.1.11									
	SONCC-Exam.29.1.11.1	\$5,670						\$5,670	CDFW
	SONCC-Exam.29.1.11.2	\$5,670						\$5,670	CDFW
	Action Total:	<i>\$11,340</i>						<i>\$11,340</i>	
SONCC-Exam.29.1.12									
	SONCC-Exam.29.1.12.1	\$5,670						\$5,670	ODFW
	SONCC-Exam.29.1.12.2	\$5,670						\$5,670	ODFW
	SONCC-Exam.29.1.12.3	\$34,015						\$34,015	ODFW
	Action Total:	<i>\$45,355</i>						<i>\$45,355</i>	
SONCC-Exam.29.1.13									
	SONCC-Exam.29.1.13.1	\$5,670						\$5,670	NMFS
	SONCC-Exam.29.1.13.2	\$5,670						\$5,670	NMFS
	SONCC-Exam.29.1.13.3	\$5,670						\$5,670	NMFS
	Action Total:	<i>\$17,010</i>						<i>\$17,010</i>	
SONCC-Exam.29.1.18									
	SONCC-Exam.29.1.18.1	\$17,008						\$17,008	CDFW
	Action Total:	<i>\$17,008</i>						<i>\$17,008</i>	
SONCC-Exam.29.3.14									
	SONCC-Exam.29.3.14.1	\$17,008						\$17,008	NMFS
	Action Total:	<i>\$17,008</i>						<i>\$17,008</i>	
SONCC-Exam.29.3.15									
	SONCC-Exam.29.3.15.1	\$17,008						\$17,008	NMFS
	Action Total:	<i>\$17,008</i>						<i>\$17,008</i>	
SONCC-Exam.29.3.16									
	SONCC-Exam.29.3.16.1	\$5,670						\$5,670	CDFW
	Action Total:	<i>\$5,670</i>						<i>\$5,670</i>	
SONCC-Exam.29.3.19									
	SONCC-Exam.29.3.19.1	\$17,008						\$17,008	CDFW
	SONCC-Exam.29.3.19.2	\$0						\$0	CDFW
	Action Total:	<i>\$17,008</i>						<i>\$17,008</i>	
SONCC-Exam.29.3.20									
	SONCC-Exam.29.3.20.1	\$17,008						\$17,008	CDFW
	SONCC-Exam.29.3.20.2	\$0						\$0	CDFW
	Action Total:	<i>\$17,008</i>						<i>\$17,008</i>	
SONCC-Exam.29.3.21									
	SONCC-Exam.29.3.21.1	\$17,008						\$17,008	CDFW
	SONCC-Exam.29.3.21.2	\$0						\$0	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$17,008						\$17,008	
SONCC-Exam.29.3.22									
	SONCC-Exam.29.3.22.1	\$17,008						\$17,008	CDFW
	SONCC-Exam.29.3.22.2	\$34,015						\$34,015	CDFW
Action Total:		\$51,023						\$51,023	
SONCC-Exam.29.3.23									
	SONCC-Exam.29.3.23.1	\$17,008						\$17,008	CDFW
Action Total:		\$17,008						\$17,008	
Population Total:		\$498,904						\$498,904	
Population: Guthrie Creek									
SONCC-GutC.12.1.20									
	SONCC-GutC.12.1.20.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-GutC.12.1.20.2	\$17,053						\$17,053	NRCS/RCD
	SONCC-GutC.12.1.20.3	\$39,385						\$39,385	NRCS/RCD
Action Total:		\$73,445						\$73,445	
SONCC-GutC.12.1.1									
	SONCC-GutC.12.1.1.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-GutC.12.1.1.2	\$17,053						\$17,053	NRCS/RCD
	SONCC-GutC.12.1.1.3	\$39,385						\$39,385	NRCS/RCD
Action Total:		\$73,445						\$73,445	
SONCC-GutC.2.1.14									
	SONCC-GutC.2.1.14.1	\$17,008						\$17,008	NGO
	SONCC-GutC.2.1.14.2	\$328,710						\$328,710	NGO
Action Total:		\$345,718						\$345,718	
SONCC-GutC.2.1.21									
	SONCC-GutC.2.1.21.1	\$17,008						\$17,008	NGO
	SONCC-GutC.2.1.21.2	\$328,710						\$328,710	NGO
Action Total:		\$345,718						\$345,718	
SONCC-GutC.8.1.24									
	SONCC-GutC.8.1.24.1	\$15,766						\$15,766	NGO
	SONCC-GutC.8.1.24.2	\$371,046						\$371,046	NGO
	SONCC-GutC.8.1.24.3	\$38,068						\$38,068	NGO
Action Total:		\$424,880						\$424,880	
SONCC-GutC.8.1.3									
	SONCC-GutC.8.1.3.1	\$15,766						\$15,766	NGO
	SONCC-GutC.8.1.3.2	\$371,046						\$371,046	NGO
	SONCC-GutC.8.1.3.3	\$38,068						\$38,068	NGO
Action Total:		\$424,880						\$424,880	
SONCC-GutC.7.1.11									
	SONCC-GutC.7.1.11.1	\$0						\$0	CDF
Action Total:		\$0						\$0	
SONCC-GutC.2.2.13									
	SONCC-GutC.2.2.13.1	\$17,008						\$17,008	NGO
	SONCC-GutC.2.2.13.2	\$61,355						\$61,355	NGO
Action Total:		\$78,363						\$78,363	
SONCC-GutC.2.2.22									
	SONCC-GutC.2.2.22.1	\$17,008						\$17,008	NGO

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-GutC.2.2.22.2	\$61,355						\$61,355	NGO
	Action Total:	\$78,363						\$78,363	
SONCC-GutC.8.1.10									
	SONCC-GutC.8.1.10.1	\$36,719						\$36,719	NGO
	SONCC-GutC.8.1.10.2	\$977,011						\$977,011	NGO
	SONCC-GutC.8.1.10.3	\$37,113						\$37,113	NGO
	SONCC-GutC.8.1.10.4	\$48,975				\$48,975		\$97,949	NGO
	Action Total:	\$1,099,817				\$48,975		\$1,148,792	
SONCC-GutC.8.1.23									
	SONCC-GutC.8.1.23.1	\$36,719						\$36,719	NGO
	SONCC-GutC.8.1.23.2	\$977,011						\$977,011	NGO
	SONCC-GutC.8.1.23.3	\$37,113						\$37,113	NGO
	SONCC-GutC.8.1.23.4	\$48,975				\$48,975		\$97,949	NGO
	Action Total:	\$1,099,817				\$48,975		\$1,148,792	
SONCC-GutC.8.1.25									
	SONCC-GutC.8.1.25.1	\$37,720						\$37,720	NGO
	SONCC-GutC.8.1.25.2	\$79,625						\$79,625	NGO
	Action Total:	\$117,345						\$117,345	
SONCC-GutC.8.1.4									
	SONCC-GutC.8.1.4.1	\$37,720						\$37,720	NGO
	SONCC-GutC.8.1.4.2	\$79,625						\$79,625	NGO
	Action Total:	\$117,345						\$117,345	
SONCC-GutC.10.7.19									
	SONCC-GutC.10.7.19.1	\$8,504						\$8,504	CDFW
	SONCC-GutC.10.7.19.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-GutC.10.7.18									
	SONCC-GutC.10.7.18.1	\$8,504						\$8,504	CDFW
	SONCC-GutC.10.7.18.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-GutC.7.1.2									
	SONCC-GutC.7.1.2.1	\$348,840						\$348,840	NRCS/RCD
	Action Total:	\$348,840						\$348,840	
SONCC-GutC.27.2.7									
	SONCC-GutC.27.2.7.1	\$6,684		\$6,684		\$6,684		\$20,052	CDFW
	Action Total:	\$6,684		\$6,684		\$6,684		\$20,052	
SONCC-GutC.27.2.5									
	SONCC-GutC.27.2.5.1	\$136,060						\$136,060	CDFW
	SONCC-GutC.27.2.5.2			\$81,800			\$81,800	\$163,600	CDFW
	Action Total:	\$136,060		\$81,800			\$81,800	\$299,660	
SONCC-GutC.27.2.17									
	SONCC-GutC.27.2.17.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-GutC.27.1.6									
	SONCC-GutC.27.1.6.1	\$7,080	\$7,080	\$7,080	\$7,080	\$7,080	\$7,080	\$42,480	CDFW
	Action Total:	\$7,080	\$7,080	\$7,080	\$7,080	\$7,080	\$7,080	\$42,480	
SONCC-GutC.27.1.8									
	SONCC-GutC.27.1.8.1	\$34,015						\$34,015	NMFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-GutC.27.1.8.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-GutC.27.1.16									
	SONCC-GutC.27.1.16.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-GutC.27.4.15									
	SONCC-GutC.27.4.15.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
	Population Total:	\$5,118,151	\$296,413	\$384,896	\$296,413	\$401,046	\$378,213	\$6,875,130	
Population: Humboldt Bay Tributaries									
SONCC-HBT.1.1.5									
	SONCC-HBT.1.1.5.1	\$44,540						\$44,540	CDFW
	SONCC-HBT.1.1.5.2	\$137,521						\$137,521	CDFW
	Action Total:	\$182,061						\$182,061	
SONCC-HBT.1.2.40									
	SONCC-HBT.1.2.40.1	\$34,015						\$34,015	CDFW
	SONCC-HBT.1.2.40.2	\$34,015						\$34,015	CDFW
	SONCC-HBT.1.2.40.3	\$682,150						\$682,150	CDFW
	Action Total:	\$750,180						\$750,180	
SONCC-HBT.1.2.45									
	SONCC-HBT.1.2.45.1	\$0						\$0	NGO
	Action Total:	\$0						\$0	
SONCC-HBT.1.2.62									
	SONCC-HBT.1.2.62.1	\$0						\$0	NGO
	Action Total:	\$0						\$0	
SONCC-HBT.2.1.1									
	SONCC-HBT.2.1.1.1	\$17,008						\$17,008	CDFW
	SONCC-HBT.2.1.1.2	\$5,012,828						\$5,012,828	CDFW
	Action Total:	\$5,029,835						\$5,029,835	
SONCC-HBT.1.3.4									
	SONCC-HBT.1.3.4.2	\$600,570						\$600,570	CDFW
	Action Total:	\$600,570						\$600,570	
SONCC-HBT.2.2.2									
	SONCC-HBT.2.2.2.1	\$17,008						\$17,008	CDFW
	SONCC-HBT.2.2.2.2	\$935,661						\$935,661	CDFW
	Action Total:	\$952,668						\$952,668	
SONCC-HBT.3.1.66									
	SONCC-HBT.3.1.66.1	\$36,770						\$36,770	CDFW
	SONCC-HBT.3.1.66.2	\$0						\$0	CDFW
	Action Total:	\$36,770						\$36,770	
SONCC-HBT.3.1.21									
	SONCC-HBT.3.1.21.1	\$36,770						\$36,770	CDFW
	SONCC-HBT.3.1.21.2	\$0						\$0	CDFW
	Action Total:	\$36,770						\$36,770	
SONCC-HBT.7.1.46									
	SONCC-HBT.7.1.46.1	\$68,030						\$68,030	NGO
	SONCC-HBT.7.1.46.2	\$174,420						\$174,420	NGO
	Action Total:	\$242,450						\$242,450	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-HBT.26.1.56	SONCC-HBT.26.1.56.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-HBT.8.1.68	SONCC-HBT.8.1.68.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-HBT.8.1.68.2	\$85,038						\$85,038	NRCS/RCD
	SONCC-HBT.8.1.68.3	\$85,038						\$85,038	NRCS/RCD
	Action Total:	\$187,083						\$187,083	
SONCC-HBT.8.1.11	SONCC-HBT.8.1.11.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-HBT.8.1.11.2	\$85,038						\$85,038	NRCS/RCD
	SONCC-HBT.8.1.11.3	\$85,038						\$85,038	NRCS/RCD
	Action Total:	\$187,083						\$187,083	
SONCC-HBT.8.1.12	SONCC-HBT.8.1.12.1	\$59,788						\$59,788	CDFW
	SONCC-HBT.8.1.12.2	\$441,620						\$441,620	CDFW
	Action Total:	\$501,408						\$501,408	
SONCC-HBT.1.1.57	SONCC-HBT.1.1.57.1	\$44,540						\$44,540	CDFW
	SONCC-HBT.1.1.57.2	\$137,521						\$137,521	CDFW
	Action Total:	\$182,061						\$182,061	
SONCC-HBT.2.1.59	SONCC-HBT.2.1.59.1	\$17,008						\$17,008	CDFW
	SONCC-HBT.2.1.59.2	\$5,012,828						\$5,012,828	CDFW
	Action Total:	\$5,029,835						\$5,029,835	
SONCC-HBT.1.3.58	SONCC-HBT.1.3.58.2	\$600,570						\$600,570	CDFW
	Action Total:	\$600,570						\$600,570	
SONCC-HBT.2.2.60	SONCC-HBT.2.2.60.1	\$17,008						\$17,008	CDFW
	SONCC-HBT.2.2.60.2	\$935,661						\$935,661	CDFW
	Action Total:	\$952,668						\$952,668	
SONCC-HBT.8.1.61	SONCC-HBT.8.1.61.1	\$59,788						\$59,788	CDFW
	SONCC-HBT.8.1.61.2	\$441,620						\$441,620	CDFW
	Action Total:	\$501,408						\$501,408	
SONCC-HBT.2.2.65	SONCC-HBT.2.2.65.1	\$17,008						\$17,008	City
	SONCC-HBT.2.2.65.2	\$2,340,175						\$2,340,175	City
	Action Total:	\$2,357,183						\$2,357,183	
SONCC-HBT.2.2.3	SONCC-HBT.2.2.3.1	\$17,008						\$17,008	City
	SONCC-HBT.2.2.3.2	\$2,340,175						\$2,340,175	City
	Action Total:	\$2,357,183						\$2,357,183	
SONCC-HBT.5.1.43	SONCC-HBT.5.1.43.1	\$114,807						\$114,807	NGO
	Action Total:	\$114,807						\$114,807	
SONCC-HBT.5.1.67									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-HBT.5.1.67.1	\$114,807						\$114,807	NGO
	Action Total:	<i>\$114,807</i>						<i>\$114,807</i>	
SONCC-HBT.5.1.10									
	SONCC-HBT.5.1.10.1	\$34,015						\$34,015	CDFW
	SONCC-HBT.5.1.10.2	\$1,308,135						\$1,308,135	CDFW
	Action Total:	<i>\$1,342,150</i>						<i>\$1,342,150</i>	
SONCC-HBT.8.1.69									
	SONCC-HBT.8.1.69.1	\$821,125						\$821,125	NGO
	SONCC-HBT.8.1.69.2	\$17,441,354						\$17,441,354	NGO
	SONCC-HBT.8.1.69.3	\$712,845						\$712,845	NGO
	SONCC-HBT.8.1.69.4	\$376,268	\$376,268	\$376,268	\$376,268	\$376,268	\$376,268	\$2,257,605	NGO
	Action Total:	<i>\$19,351,591</i>	<i>\$376,268</i>	<i>\$376,268</i>	<i>\$376,268</i>	<i>\$376,268</i>	<i>\$376,268</i>	<i>\$21,232,929</i>	
SONCC-HBT.8.1.70									
	SONCC-HBT.8.1.70.1	\$59,788						\$59,788	CDFW
	SONCC-HBT.8.1.70.2	\$441,620						\$441,620	CDFW
	Action Total:	<i>\$501,408</i>						<i>\$501,408</i>	
SONCC-HBT.8.1.13									
	SONCC-HBT.8.1.13.1	\$821,125						\$821,125	NGO
	SONCC-HBT.8.1.13.2	\$17,441,354						\$17,441,354	NGO
	SONCC-HBT.8.1.13.3	\$712,845						\$712,845	NGO
	SONCC-HBT.8.1.13.4	\$376,268	\$376,268	\$376,268	\$376,268	\$376,268	\$376,268	\$2,257,605	NGO
	Action Total:	<i>\$19,351,591</i>	<i>\$376,268</i>	<i>\$376,268</i>	<i>\$376,268</i>	<i>\$376,268</i>	<i>\$376,268</i>	<i>\$21,232,929</i>	
SONCC-HBT.8.1.55									
	SONCC-HBT.8.1.55.1	\$59,788						\$59,788	CDFW
	SONCC-HBT.8.1.55.2	\$441,620						\$441,620	CDFW
	Action Total:	<i>\$501,408</i>						<i>\$501,408</i>	
SONCC-HBT.10.2.63									
	SONCC-HBT.10.2.63.1	\$17,008						\$17,008	County
	SONCC-HBT.10.2.63.2	\$17,008						\$17,008	County
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-HBT.10.2.16									
	SONCC-HBT.10.2.16.1	\$17,008						\$17,008	County
	SONCC-HBT.10.2.16.2	\$17,008						\$17,008	County
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-HBT.10.7.64									
	SONCC-HBT.10.7.64.1	\$8,504						\$8,504	CDFW
	SONCC-HBT.10.7.64.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-HBT.10.7.54									
	SONCC-HBT.10.7.54.1	\$8,504						\$8,504	CDFW
	SONCC-HBT.10.7.54.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-HBT.3.1.47									
	SONCC-HBT.3.1.47.1	\$73,540						\$73,540	CDFW
	SONCC-HBT.3.1.47.2	\$36,770						\$36,770	CDFW
	SONCC-HBT.3.1.47.3	\$73,540						\$73,540	CDFW
	Action Total:	<i>\$183,850</i>						<i>\$183,850</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-HBT.7.1.7	SONCC-HBT.7.1.7.1	\$8,503						\$8,503	County
	SONCC-HBT.7.1.7.2	\$34,015						\$34,015	County
	Action Total:	<i>\$42,518</i>						<i>\$42,518</i>	
SONCC-HBT.7.1.8	SONCC-HBT.7.1.8.1	\$34,015						\$34,015	CDFW
	SONCC-HBT.7.1.8.2	\$701,842						\$701,842	CDFW
	SONCC-HBT.7.1.8.3	\$5,107,018						\$5,107,018	CDFW
	Action Total:	<i>\$5,842,874</i>						<i>\$5,842,874</i>	
SONCC-HBT.7.1.9	SONCC-HBT.7.1.9.1	\$5,669						\$5,669	CDF
	Action Total:	<i>\$5,669</i>						<i>\$5,669</i>	
SONCC-HBT.3.2.22	SONCC-HBT.3.2.22.1	\$34,015						\$34,015	County
	SONCC-HBT.3.2.22.2	\$0						\$0	County
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-HBT.16.1.24	SONCC-HBT.16.1.24.1	\$34,015						\$34,015	NMFS
	SONCC-HBT.16.1.24.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-HBT.16.1.25	SONCC-HBT.16.1.25.1	\$34,015						\$34,015	NMFS
	SONCC-HBT.16.1.25.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-HBT.16.2.26	SONCC-HBT.16.2.26.1	\$34,015						\$34,015	NMFS
	SONCC-HBT.16.2.26.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-HBT.16.2.27	SONCC-HBT.16.2.27.1	\$34,015						\$34,015	NMFS
	SONCC-HBT.16.2.27.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-HBT.8.1.14	SONCC-HBT.8.1.14.1	\$2,267						\$2,267	County
	Action Total:	<i>\$2,267</i>						<i>\$2,267</i>	
SONCC-HBT.10.2.18	SONCC-HBT.10.2.18.1	\$136,060						\$136,060	EPA
	Action Total:	<i>\$136,060</i>						<i>\$136,060</i>	
SONCC-HBT.27.2.42	SONCC-HBT.27.2.42.1	\$68,030						\$68,030	CDFW
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-HBT.27.2.48	SONCC-HBT.27.2.48.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-HBT.27.2.28	SONCC-HBT.27.2.28.1	\$34,015						\$34,015	CDFW
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-HBT.27.2.29									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-HBT.27.2.29.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-HBT.27.2.34									
	SONCC-HBT.27.2.34.1	\$136,060						\$136,060	CDFW
	SONCC-HBT.27.2.34.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	<i>\$136,060</i>	<i>\$81,800</i>		<i>\$81,800</i>		<i>\$81,800</i>	<i>\$381,460</i>	
SONCC-HBT.27.2.35									
	SONCC-HBT.27.2.35.1	\$1,214,888		\$1,214,888		\$1,214,888		\$3,644,664	CDFW
	Action Total:	<i>\$1,214,888</i>		<i>\$1,214,888</i>		<i>\$1,214,888</i>		<i>\$3,644,664</i>	
SONCC-HBT.27.2.36									
	SONCC-HBT.27.2.36.1	\$1,214,888		\$1,214,888		\$1,214,888		\$3,644,664	CDFW
	Action Total:	<i>\$1,214,888</i>		<i>\$1,214,888</i>		<i>\$1,214,888</i>		<i>\$3,644,664</i>	
SONCC-HBT.27.2.37									
	SONCC-HBT.27.2.37.1	\$1,214,888		\$1,214,888		\$1,214,888		\$3,644,664	CDFW
	Action Total:	<i>\$1,214,888</i>		<i>\$1,214,888</i>		<i>\$1,214,888</i>		<i>\$3,644,664</i>	
SONCC-HBT.27.2.38									
	SONCC-HBT.27.2.38.1	\$1,214,888		\$1,214,888		\$1,214,888		\$3,644,664	CDFW
	Action Total:	<i>\$1,214,888</i>		<i>\$1,214,888</i>		<i>\$1,214,888</i>		<i>\$3,644,664</i>	
SONCC-HBT.27.2.39									
	SONCC-HBT.27.2.39.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-HBT.27.2.53									
	SONCC-HBT.27.2.53.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-HBT.27.1.41									
	SONCC-HBT.27.1.41.1	\$34,015						\$34,015	NMFS
	SONCC-HBT.27.1.41.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-HBT.27.1.52									
	SONCC-HBT.27.1.52.1	\$95,455	\$95,455	\$95,455	\$95,455	\$95,455	\$95,455	\$572,730	CDFW
	Action Total:	<i>\$95,455</i>	<i>\$95,455</i>	<i>\$95,455</i>	<i>\$95,455</i>	<i>\$95,455</i>	<i>\$95,455</i>	<i>\$572,730</i>	
SONCC-HBT.27.1.30									
	SONCC-HBT.27.1.30.1	\$286,365	\$286,365	\$286,365	\$286,365	\$286,365	\$286,365	\$1,718,190	CDFW
	Action Total:	<i>\$286,365</i>	<i>\$286,365</i>	<i>\$286,365</i>	<i>\$286,365</i>	<i>\$286,365</i>	<i>\$286,365</i>	<i>\$1,718,190</i>	
SONCC-HBT.27.1.31									
	SONCC-HBT.27.1.31.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	CDFW
	Action Total:	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$6,120,000</i>	
SONCC-HBT.27.1.32									
	SONCC-HBT.27.1.32.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	Action Total:	<i>\$68,030</i>		<i>\$68,030</i>		<i>\$68,030</i>		<i>\$204,090</i>	
SONCC-HBT.27.1.33									
	SONCC-HBT.27.1.33.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-HBT.27.4.49									
	SONCC-HBT.27.4.49.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-HBT.27.4.50									
	SONCC-HBT.27.4.50.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-HBT.27.4.51	SONCC-HBT.27.4.51.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-HBT.3.1.19	SONCC-HBT.3.1.19.1							\$0	CDFW
	Action Total:							\$0	
SONCC-HBT.7.1.6	SONCC-HBT.7.1.6.1							\$0	NGO
	Action Total:							\$0	
SONCC-HBT.3.2.23	SONCC-HBT.3.2.23.2							\$0	County
	Action Total:							\$0	
Population Total:		\$75,750,145	\$2,746,790	\$7,660,602	\$2,746,790	\$7,660,602	\$2,746,790	\$99,311,718	
Population: Hunter Creek									
SONCC-HunC.2.4.15	SONCC-HunC.2.4.15.1	\$157,110						\$157,110	ODOT
	SONCC-HunC.2.4.15.2	\$103,093						\$103,093	ODOT
	Action Total:	\$260,203						\$260,203	
SONCC-HunC.2.4.17	SONCC-HunC.2.4.17.1	\$34,015						\$34,015	ODFW
	SONCC-HunC.2.4.17.2	\$335,000						\$335,000	ODFW
	Action Total:	\$369,015						\$369,015	
SONCC-HunC.19.1.4	SONCC-HunC.19.1.4.1	\$68,030						\$68,030	ODF
	SONCC-HunC.19.1.4.2	\$0						\$0	ODF
	SONCC-HunC.19.1.4.3	\$0						\$0	ODF
	SONCC-HunC.19.1.4.4	\$0						\$0	ODF
	SONCC-HunC.19.1.4.5	\$0						\$0	ODF
	Action Total:	\$68,030						\$68,030	
SONCC-HunC.7.1.1	SONCC-HunC.7.1.1.1	\$0						\$0	County
	SONCC-HunC.7.1.1.2	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-HunC.2.1.13	SONCC-HunC.2.1.13.1	\$17,008						\$17,008	ODFW
	SONCC-HunC.2.1.13.2	\$78,069						\$78,069	ODFW
	Action Total:	\$95,076						\$95,076	
SONCC-HunC.2.1.42	SONCC-HunC.2.1.42.1	\$17,008						\$17,008	ODFW
	SONCC-HunC.2.1.42.2	\$78,069						\$78,069	ODFW
	Action Total:	\$95,076						\$95,076	
SONCC-HunC.2.2.10	SONCC-HunC.2.2.10.1	\$17,008						\$17,008	ODFW
	SONCC-HunC.2.2.10.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-HunC.2.2.10.3	\$10,000						\$10,000	ODFW
Action Total:	\$112,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$537,233		
SONCC-HunC.2.2.11									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-HunC.2.2.11.1	\$17,008						\$17,008	Watershed Cnsl
	SONCC-HunC.2.2.11.2	\$51,129						\$51,129	Watershed Cnsl
	Action Total:	\$68,137						\$68,137	
SONCC-HunC.2.2.16									
	SONCC-HunC.2.2.16.1	\$89,080						\$89,080	Watershed Cnsl
	SONCC-HunC.2.2.16.2	\$95,100						\$95,100	Watershed Cnsl
	Action Total:	\$184,180						\$184,180	
SONCC-HunC.2.2.43									
	SONCC-HunC.2.2.43.1	\$17,008						\$17,008	ODFW
	SONCC-HunC.2.2.43.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-HunC.2.2.43.3	\$10,000						\$10,000	ODFW
	Action Total:	\$112,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$537,233	
SONCC-HunC.2.2.44									
	SONCC-HunC.2.2.44.1	\$17,008						\$17,008	Watershed Cnsl
	SONCC-HunC.2.2.44.2	\$51,129						\$51,129	Watershed Cnsl
	Action Total:	\$68,137						\$68,137	
SONCC-HunC.28.2.27									
	SONCC-HunC.28.2.27.1	\$0						\$0	County
	SONCC-HunC.28.2.27.2	\$0						\$0	County
	SONCC-HunC.28.2.27.3	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-HunC.28.1.12									
	SONCC-HunC.28.1.12.1	\$57,701						\$57,701	NGO
	SONCC-HunC.28.1.12.2	\$1,096,645						\$1,096,645	NGO
	SONCC-HunC.28.1.12.3	\$64,681						\$64,681	NGO
	SONCC-HunC.28.1.12.4	\$106,311						\$106,311	NGO
	Action Total:	\$1,325,337						\$1,325,337	
SONCC-HunC.28.1.46									
	SONCC-HunC.28.1.46.1	\$57,701						\$57,701	NGO
	SONCC-HunC.28.1.46.2	\$1,096,645						\$1,096,645	NGO
	SONCC-HunC.28.1.46.3	\$64,681						\$64,681	NGO
	SONCC-HunC.28.1.46.4	\$106,311						\$106,311	NGO
	Action Total:	\$1,325,337						\$1,325,337	
SONCC-HunC.12.1.28									
	SONCC-HunC.12.1.28.1	\$0						\$0	ODA
	SONCC-HunC.12.1.28.2	\$0						\$0	ODA
	SONCC-HunC.12.1.28.3	\$0						\$0	ODA
	SONCC-HunC.12.1.28.4	\$0						\$0	ODA
	SONCC-HunC.12.1.28.5	\$0						\$0	ODA
	Action Total:	\$0						\$0	
SONCC-HunC.2.2.38									
	SONCC-HunC.2.2.38.1	\$0						\$0	ODFW
	Action Total:	\$0						\$0	
SONCC-HunC.10.2.8									
	SONCC-HunC.10.2.8.1	\$136,060						\$136,060	EPA
	Action Total:	\$136,060						\$136,060	
SONCC-HunC.7.1.26									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-HunC.7.1.26.1	\$0						\$0	County
	SONCC-HunC.7.1.26.2	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-HunC.22.2.25	SONCC-HunC.22.2.25.1	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-HunC.22.2.45	SONCC-HunC.22.2.45.1	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-HunC.7.1.2	SONCC-HunC.7.1.2.1	\$34,015						\$34,015	USFS
	SONCC-HunC.7.1.2.2	\$83,722						\$83,722	USFS
	Action Total:	<i>\$117,737</i>						<i>\$117,737</i>	
SONCC-HunC.10.7.41	SONCC-HunC.10.7.41.1	\$8,504						\$8,504	ODFW
	SONCC-HunC.10.7.41.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-HunC.10.7.40	SONCC-HunC.10.7.40.1	\$8,504						\$8,504	ODFW
	SONCC-HunC.10.7.40.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-HunC.7.1.3	SONCC-HunC.7.1.3.1	\$760,373						\$760,373	USFS
	SONCC-HunC.7.1.3.2	\$76,136						\$76,136	USFS
	Action Total:	<i>\$836,509</i>						<i>\$836,509</i>	
SONCC-HunC.10.2.14	SONCC-HunC.10.2.14.1	\$76,136						\$76,136	ODOT
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	
SONCC-HunC.10.2.23	SONCC-HunC.10.2.23.1	\$45,925						\$45,925	ODFW
	SONCC-HunC.10.2.23.2	\$76,136						\$76,136	ODFW
	Action Total:	<i>\$122,061</i>						<i>\$122,061</i>	
SONCC-HunC.10.2.24	SONCC-HunC.10.2.24.1	\$0						\$0	ODEQ
	SONCC-HunC.10.2.24.2	\$0						\$0	ODEQ
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-HunC.27.2.19	SONCC-HunC.27.2.19.1	\$7,136		\$7,136		\$7,136		\$21,408	ODFW
	Action Total:	<i>\$7,136</i>		<i>\$7,136</i>		<i>\$7,136</i>		<i>\$21,408</i>	
SONCC-HunC.27.2.20	SONCC-HunC.27.2.20.1	\$7,136		\$7,136		\$7,136		\$21,408	ODFW
	Action Total:	<i>\$7,136</i>		<i>\$7,136</i>		<i>\$7,136</i>		<i>\$21,408</i>	
SONCC-HunC.27.2.22	SONCC-HunC.27.2.22.1	\$68,030						\$68,030	ODFW
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-HunC.27.2.33	SONCC-HunC.27.2.33.1	\$7,136		\$7,136		\$7,136		\$21,408	ODFW
	Action Total:	<i>\$7,136</i>		<i>\$7,136</i>		<i>\$7,136</i>		<i>\$21,408</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-HunC.27.2.34	SONCC-HunC.27.2.34.1	\$34,015		\$34,015		\$34,015		\$102,045	ODFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-HunC.27.2.35	SONCC-HunC.27.2.35.1	\$7,136		\$7,136		\$7,136		\$21,408	ODFW
	Action Total:	<i>\$7,136</i>		<i>\$7,136</i>		<i>\$7,136</i>		<i>\$21,408</i>	
SONCC-HunC.27.2.36	SONCC-HunC.27.2.36.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-HunC.27.2.37	SONCC-HunC.27.2.37.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-HunC.27.2.39	SONCC-HunC.27.2.39.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-HunC.27.2.9	SONCC-HunC.27.2.9.1	\$136,060						\$136,060	ODFW
	SONCC-HunC.27.2.9.2			\$81,800			\$81,800	\$163,600	ODFW
	Action Total:	<i>\$136,060</i>		<i>\$81,800</i>			<i>\$81,800</i>	<i>\$299,660</i>	
SONCC-HunC.27.1.18	SONCC-HunC.27.1.18.1	\$7,316	\$7,316	\$7,316	\$7,316	\$7,316	\$7,316	\$43,896	ODFW
	Action Total:	<i>\$7,316</i>	<i>\$7,316</i>	<i>\$7,316</i>	<i>\$7,316</i>	<i>\$7,316</i>	<i>\$7,316</i>	<i>\$43,896</i>	
SONCC-HunC.27.1.21	SONCC-HunC.27.1.21.1	\$34,015						\$34,015	NMFS
	SONCC-HunC.27.1.21.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-HunC.27.1.32	SONCC-HunC.27.1.32.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-HunC.27.4.29	SONCC-HunC.27.4.29.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-HunC.27.4.30	SONCC-HunC.27.4.30.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-HunC.27.4.31	SONCC-HunC.27.4.31.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-HunC.3.1.5	SONCC-HunC.3.1.5.1							\$0	City
	Action Total:							<i>\$0</i>	
SONCC-HunC.3.1.6	SONCC-HunC.3.1.6.1							\$0	OWRD
	Action Total:							<i>\$0</i>	
Population Total:		<i>\$6,223,955</i>	<i>\$705,239</i>	<i>\$849,598</i>	<i>\$705,239</i>	<i>\$767,798</i>	<i>\$787,039</i>	<i>\$10,038,866</i>	

Population: Illinois River

SONCC-IIIR.7.3.52	SONCC-IIIR.7.3.52.1	\$0						\$0	ODA
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Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-III.R.7.3.52.2	\$0						\$0	ODA
	SONCC-III.R.7.3.52.3	\$0						\$0	ODA
	SONCC-III.R.7.3.52.4	\$0						\$0	ODA
	SONCC-III.R.7.3.52.5	\$0						\$0	ODA
	SONCC-III.R.7.3.52.6	\$0						\$0	ODA
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-III.R.7.2.53									
	SONCC-III.R.7.2.53.1	\$68,030						\$68,030	ODF
	SONCC-III.R.7.2.53.2	\$0						\$0	ODF
	SONCC-III.R.7.2.53.3	\$0						\$0	ODF
	SONCC-III.R.7.2.53.4	\$0						\$0	ODF
	SONCC-III.R.7.2.53.5	\$0						\$0	ODF
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-III.R.3.1.46									
	SONCC-III.R.3.1.46.1	\$0						\$0	OWRD
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-III.R.3.1.77									
	SONCC-III.R.3.1.77.1	\$18,385						\$18,385	OWRD
	SONCC-III.R.3.1.77.2	\$36,770						\$36,770	OWRD
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-III.R.3.1.78									
	SONCC-III.R.3.1.78.1	\$0						\$0	OWRD
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-III.R.3.1.79									
	SONCC-III.R.3.1.79.1	\$18,385						\$18,385	OWRD
	Action Total:	<i>\$18,385</i>						<i>\$18,385</i>	
SONCC-III.R.3.1.4									
	SONCC-III.R.3.1.4.1	\$18,385						\$18,385	OWRD
	SONCC-III.R.3.1.4.2	\$36,770						\$36,770	OWRD
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-III.R.3.1.5									
	SONCC-III.R.3.1.5.1	\$18,385						\$18,385	OWRD
	Action Total:	<i>\$18,385</i>						<i>\$18,385</i>	
SONCC-III.R.2.1.34									
	SONCC-III.R.2.1.34.1	\$17,008						\$17,008	ODFW
	SONCC-III.R.2.1.34.2	\$11,826,712						\$11,826,712	ODFW
	Action Total:	<i>\$11,843,720</i>						<i>\$11,843,720</i>	
SONCC-III.R.2.1.71									
	SONCC-III.R.2.1.71.1	\$17,008						\$17,008	ODFW
	SONCC-III.R.2.1.71.2	\$11,826,712						\$11,826,712	ODFW
	Action Total:	<i>\$11,843,720</i>						<i>\$11,843,720</i>	
SONCC-III.R.2.1.72									
	SONCC-III.R.2.1.72.1	\$17,008						\$17,008	BLM
	Action Total:	<i>\$17,008</i>						<i>\$17,008</i>	
SONCC-III.R.2.1.9									
	SONCC-III.R.2.1.9.1	\$17,008						\$17,008	BLM
	Action Total:	<i>\$17,008</i>						<i>\$17,008</i>	
SONCC-III.R.2.2.74									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-III.R.2.2.74.1	\$17,008						\$17,008	NGO
	SONCC-III.R.2.2.74.2	\$2,198,547						\$2,198,547	NGO
	Action Total:	\$2,215,555						\$2,215,555	
SONCC-III.R.2.2.75									
	SONCC-III.R.2.2.75.1	\$17,008						\$17,008	ODFW
	SONCC-III.R.2.2.75.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-III.R.2.2.75.3	\$10,000						\$10,000	ODFW
	Action Total:	\$112,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$537,233	
SONCC-III.R.2.2.64									
	SONCC-III.R.2.2.64.1	\$0						\$0	ODFW
	Action Total:	\$0						\$0	
SONCC-III.R.2.2.7									
	SONCC-III.R.2.2.7.1	\$17,008						\$17,008	NGO
	SONCC-III.R.2.2.7.2	\$2,198,547						\$2,198,547	NGO
	Action Total:	\$2,215,555						\$2,215,555	
SONCC-III.R.2.2.8									
	SONCC-III.R.2.2.8.1	\$17,008						\$17,008	ODFW
	SONCC-III.R.2.2.8.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-III.R.2.2.8.3	\$10,000						\$10,000	ODFW
	Action Total:	\$112,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$537,233	
SONCC-III.R.28.1.76									
	SONCC-III.R.28.1.76.1	\$1,090,257						\$1,090,257	NGO
	SONCC-III.R.28.1.76.2	\$14,435,836						\$14,435,836	NGO
	SONCC-III.R.28.1.76.3	\$1,437,512						\$1,437,512	NGO
	SONCC-III.R.28.1.76.4	\$2,363,916					\$2,363,916	\$4,727,831	NGO
	Action Total:	\$19,327,520					\$2,363,916	\$21,691,436	
SONCC-III.R.28.1.1									
	SONCC-III.R.28.1.1.1	\$1,090,257						\$1,090,257	NGO
	SONCC-III.R.28.1.1.2	\$14,435,836						\$14,435,836	NGO
	SONCC-III.R.28.1.1.3	\$1,437,512						\$1,437,512	NGO
	SONCC-III.R.28.1.1.4	\$2,363,916					\$2,363,916	\$4,727,831	NGO
	Action Total:	\$19,327,520					\$2,363,916	\$21,691,436	
SONCC-III.R.3.1.80									
	SONCC-III.R.3.1.80.1	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	OWRD
	Action Total:	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	
SONCC-III.R.3.1.81									
	SONCC-III.R.3.1.81.1	\$18,385						\$18,385	OWRD
	SONCC-III.R.3.1.81.2	\$36,770						\$36,770	OWRD
	Action Total:	\$55,155						\$55,155	
SONCC-III.R.3.1.67									
	SONCC-III.R.3.1.67.1	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	OWRD
	Action Total:	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	
SONCC-III.R.3.1.69									
	SONCC-III.R.3.1.69.1	\$18,385						\$18,385	OWRD
	SONCC-III.R.3.1.69.2	\$36,770						\$36,770	OWRD
	Action Total:	\$55,155						\$55,155	
SONCC-III.R.3.1.6									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-III.R.3.1.6.1	\$0						\$0	NGO
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-III.R.28.2.50									
	SONCC-III.R.28.2.50.1	\$0						\$0	County
	SONCC-III.R.28.2.50.2	\$0						\$0	County
	SONCC-III.R.28.2.50.3	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-III.R.28.1.2									
	SONCC-III.R.28.1.2.1	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-III.R.2.3.43									
	SONCC-III.R.2.3.43.1	\$76,136						\$76,136	ODFW
	SONCC-III.R.2.3.43.2	\$0						\$0	ODFW
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	
SONCC-III.R.7.1.47									
	SONCC-III.R.7.1.47.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-III.R.7.1.47.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-III.R.7.1.47.3	\$85,038						\$85,038	NRCS/RCD
	Action Total:	<i>\$119,053</i>						<i>\$119,053</i>	
SONCC-III.R.7.1.83									
	SONCC-III.R.7.1.83.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-III.R.7.1.83.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-III.R.7.1.83.3	\$85,038						\$85,038	NRCS/RCD
	Action Total:	<i>\$119,053</i>						<i>\$119,053</i>	
SONCC-III.R.26.1.68									
	SONCC-III.R.26.1.68.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-III.R.7.1.48									
	SONCC-III.R.7.1.48.1	\$170,075						\$170,075	USFS
	Action Total:	<i>\$170,075</i>						<i>\$170,075</i>	
SONCC-III.R.7.1.11									
	SONCC-III.R.7.1.11.1	\$34,015						\$34,015	USFS
	SONCC-III.R.7.1.11.3	\$12,000,096						\$12,000,096	USFS
	Action Total:	<i>\$12,034,111</i>						<i>\$12,034,111</i>	
SONCC-III.R.2.2.51									
	SONCC-III.R.2.2.51.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-III.R.2.2.51.2	\$170,036						\$170,036	NRCS/RCD
	SONCC-III.R.2.2.51.3	\$988,370						\$988,370	NRCS/RCD
	Action Total:	<i>\$1,175,414</i>						<i>\$1,175,414</i>	
SONCC-III.R.2.2.73									
	SONCC-III.R.2.2.73.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-III.R.2.2.73.2	\$170,036						\$170,036	NRCS/RCD
	SONCC-III.R.2.2.73.3	\$988,370						\$988,370	NRCS/RCD
	Action Total:	<i>\$1,175,414</i>						<i>\$1,175,414</i>	
SONCC-III.R.5.1.36									
	SONCC-III.R.5.1.36.1	\$34,015						\$34,015	BLM
	SONCC-III.R.5.1.36.2	\$1,526,158						\$1,526,158	BLM
	Action Total:	<i>\$1,560,173</i>						<i>\$1,560,173</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-III.R.5.1.82	SONCC-III.R.5.1.82.1	\$17,008						\$17,008	County
	SONCC-III.R.5.1.82.2	\$763,079						\$763,079	County
	Action Total:	<i>\$780,087</i>						<i>\$780,087</i>	
SONCC-III.R.5.1.16	SONCC-III.R.5.1.16.1	\$17,008						\$17,008	County
	SONCC-III.R.5.1.16.2	\$763,079						\$763,079	County
	Action Total:	<i>\$780,087</i>						<i>\$780,087</i>	
SONCC-III.R.10.7.70	SONCC-III.R.10.7.70.1	\$8,504						\$8,504	ODFW
	SONCC-III.R.10.7.70.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-III.R.10.7.66	SONCC-III.R.10.7.66.1	\$8,504						\$8,504	ODFW
	SONCC-III.R.10.7.66.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-III.R.1.2.35	SONCC-III.R.1.2.35.1	\$0						\$0	ODFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-III.R.7.1.33	SONCC-III.R.7.1.33.1	\$0						\$0	BLM
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-III.R.7.1.49	SONCC-III.R.7.1.49.1	\$0						\$0	County
	SONCC-III.R.7.1.49.2	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-III.R.7.1.10	SONCC-III.R.7.1.10.1	\$0						\$0	County
	SONCC-III.R.7.1.10.2	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-III.R.16.1.18	SONCC-III.R.16.1.18.1	\$34,015						\$34,015	NMFS
	SONCC-III.R.16.1.18.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-III.R.16.1.17	SONCC-III.R.16.1.17.1	\$34,015						\$34,015	NMFS
	SONCC-III.R.16.1.17.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-III.R.16.2.19	SONCC-III.R.16.2.19.1	\$34,015						\$34,015	NMFS
	SONCC-III.R.16.2.19.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-III.R.16.2.20	SONCC-III.R.16.2.20.1	\$34,015						\$34,015	NMFS
	SONCC-III.R.16.2.20.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-III.R.10.2.41	SONCC-III.R.10.2.41.1	\$91,850					\$91,850	ODFW	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-IIIR.10.2.41.2	\$229,625						\$229,625	ODFW
	Action Total:	\$321,475						\$321,475	
SONCC-IIIR.10.2.45									
	SONCC-IIIR.10.2.45.1	\$76,136						\$76,136	ODEQ
	SONCC-IIIR.10.2.45.2	\$0						\$0	ODEQ
	Action Total:	\$76,136						\$76,136	
SONCC-IIIR.10.2.13									
	SONCC-IIIR.10.2.13.1	\$76,136						\$76,136	NRCS/RCD
	Action Total:	\$76,136						\$76,136	
SONCC-IIIR.14.2.15									
	SONCC-IIIR.14.2.15.1	\$68,030						\$68,030	ODFW
	SONCC-IIIR.14.2.15.2	\$1,148,522						\$1,148,522	ODFW
	Action Total:	\$1,216,552						\$1,216,552	
SONCC-IIIR.27.2.25									
	SONCC-IIIR.27.2.25.1	\$136,060						\$136,060	ODFW
	SONCC-IIIR.27.2.25.2		\$81,800		\$81,800		\$81,800	\$245,400	ODFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-IIIR.27.2.26									
	SONCC-IIIR.27.2.26.1	\$11,591,143		\$11,591,143		\$11,591,143		\$34,773,429	ODFW
	Action Total:	\$11,591,143		\$11,591,143		\$11,591,143		\$34,773,429	
SONCC-IIIR.27.2.27									
	SONCC-IIIR.27.2.27.1	\$11,591,143		\$11,591,143		\$11,591,143		\$34,773,429	ODFW
	Action Total:	\$11,591,143		\$11,591,143		\$11,591,143		\$34,773,429	
SONCC-IIIR.27.2.28									
	SONCC-IIIR.27.2.28.1	\$11,591,143		\$11,591,143		\$11,591,143		\$34,773,429	ODFW
	Action Total:	\$11,591,143		\$11,591,143		\$11,591,143		\$34,773,429	
SONCC-IIIR.27.2.29									
	SONCC-IIIR.27.2.29.1	\$11,591,143		\$11,591,143		\$11,591,143		\$34,773,429	ODFW
	Action Total:	\$11,591,143		\$11,591,143		\$11,591,143		\$34,773,429	
SONCC-IIIR.27.2.30									
	SONCC-IIIR.27.2.30.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	ODFW
	Action Total:	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	
SONCC-IIIR.27.2.58									
	SONCC-IIIR.27.2.58.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-IIIR.27.2.59									
	SONCC-IIIR.27.2.59.1	\$34,015		\$34,015		\$34,015		\$102,045	ODFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-IIIR.27.2.60									
	SONCC-IIIR.27.2.60.1	\$68,030						\$68,030	ODFW
	Action Total:	\$68,030						\$68,030	
SONCC-IIIR.27.2.61									
	SONCC-IIIR.27.2.61.1	\$34,015		\$34,015		\$34,015		\$102,045	ODFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-IIIR.27.2.65									
	SONCC-IIIR.27.2.65.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-IIIR.27.1.21									
	SONCC-IIIR.27.1.21.1	\$884,535	\$884,535	\$884,535	\$884,535	\$884,535	\$884,535	\$5,307,210	ODFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$884,535	\$884,535	\$884,535	\$884,535	\$884,535	\$884,535	\$5,307,210	
SONCC-III.R.27.1.22									
	SONCC-III.R.27.1.22.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	ODFW
Action Total:		\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	
SONCC-III.R.27.1.23									
	SONCC-III.R.27.1.23.1	\$68,030		\$68,030		\$68,030		\$204,090	ODFW
Action Total:		\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-III.R.27.1.24									
	SONCC-III.R.27.1.24.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-III.R.27.1.39									
	SONCC-III.R.27.1.39.1	\$34,015						\$34,015	NMFS
	SONCC-III.R.27.1.39.2	\$0						\$0	NMFS
Action Total:		\$34,015						\$34,015	
SONCC-III.R.27.1.40									
	SONCC-III.R.27.1.40.1	\$34,015						\$34,015	ODFW
Action Total:		\$34,015						\$34,015	
SONCC-III.R.27.1.62									
	SONCC-III.R.27.1.62.1	\$294,845	\$294,845	\$294,845	\$294,845	\$294,845	\$294,845	\$1,769,070	ODFW
Action Total:		\$294,845	\$294,845	\$294,845	\$294,845	\$294,845	\$294,845	\$1,769,070	
SONCC-III.R.27.4.54									
	SONCC-III.R.27.4.54.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-III.R.27.4.55									
	SONCC-III.R.27.4.55.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-III.R.27.4.56									
	SONCC-III.R.27.4.56.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-III.R.27.4.57									
	SONCC-III.R.27.4.57.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-III.R.27.4.63									
	SONCC-III.R.27.4.63.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
Action Total:		\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
Population Total:		\$137,258,287	\$3,385,135	\$49,803,967	\$3,385,135	\$49,803,967	\$8,112,966	\$251,749,457	
Population: Little River									
SONCC-LitR.2.1.2									
	SONCC-LitR.2.1.2.1	\$17,008						\$17,008	NGO
	SONCC-LitR.2.1.2.2	\$667,692						\$667,692	NGO
Action Total:		\$684,700						\$684,700	
SONCC-LitR.2.1.33									
	SONCC-LitR.2.1.33.1	\$17,008						\$17,008	NGO
	SONCC-LitR.2.1.33.2	\$667,692						\$667,692	NGO
Action Total:		\$684,700						\$684,700	
SONCC-LitR.8.1.1									
	SONCC-LitR.8.1.1.1	\$195,644						\$195,644	NGO
	SONCC-LitR.8.1.1.2	\$7,576,820						\$7,576,820	NGO

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-LitR.8.1.1.3	\$83,278						\$83,278	NGO
	SONCC-LitR.8.1.1.4	\$109,894					\$109,894	\$219,788	NGO
	Action Total:	\$7,965,636					\$109,894	\$8,075,530	
SONCC-LitR.8.1.37									
	SONCC-LitR.8.1.37.1	\$195,644						\$195,644	NGO
	SONCC-LitR.8.1.37.2	\$7,576,820						\$7,576,820	NGO
	SONCC-LitR.8.1.37.3	\$83,278						\$83,278	NGO
	SONCC-LitR.8.1.37.4	\$109,894					\$109,894	\$219,788	NGO
	Action Total:	\$7,965,636					\$109,894	\$8,075,530	
SONCC-LitR.2.2.34									
	SONCC-LitR.2.2.34.1	\$34,015						\$34,015	CDFW
	SONCC-LitR.2.2.34.2	\$102,258						\$102,258	CDFW
	Action Total:	\$136,273						\$136,273	
SONCC-LitR.2.2.30									
	SONCC-LitR.2.2.30.1	\$34,015						\$34,015	CDFW
	SONCC-LitR.2.2.30.2	\$102,258						\$102,258	CDFW
	Action Total:	\$136,273						\$136,273	
SONCC-LitR.2.2.3									
	SONCC-LitR.2.2.3.1	\$89,080						\$89,080	CDFW
	SONCC-LitR.2.2.3.2	\$357,360						\$357,360	CDFW
	Action Total:	\$446,440						\$446,440	
SONCC-LitR.1.2.4									
	SONCC-LitR.1.2.4.1	\$34,015						\$34,015	CDFW
	SONCC-LitR.1.2.4.2	\$420,000						\$420,000	CDFW
	Action Total:	\$454,015						\$454,015	
SONCC-LitR.26.1.29									
	SONCC-LitR.26.1.29.1	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	
SONCC-LitR.5.1.8									
	SONCC-LitR.5.1.8.1	\$22,270						\$22,270	NRCS/RCD
	SONCC-LitR.5.1.8.2	\$79,940						\$79,940	NRCS/RCD
	Action Total:	\$102,210						\$102,210	
SONCC-LitR.5.1.35									
	SONCC-LitR.5.1.35.1	\$22,270						\$22,270	NRCS/RCD
	SONCC-LitR.5.1.35.2	\$79,940						\$79,940	NRCS/RCD
	Action Total:	\$102,210						\$102,210	
SONCC-LitR.7.1.6									
	SONCC-LitR.7.1.6.1	\$34,015						\$34,015	Private
	SONCC-LitR.7.1.6.2	\$95,880						\$95,880	Private
	SONCC-LitR.7.1.6.3	\$697,680						\$697,680	Private
	Action Total:	\$827,575						\$827,575	
SONCC-LitR.7.1.7									
	SONCC-LitR.7.1.7.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-LitR.7.1.7.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-LitR.7.1.7.3	\$10,000						\$10,000	NRCS/RCD
	SONCC-LitR.7.1.7.4	\$16,368						\$16,368	NRCS/RCD
	SONCC-LitR.7.1.7.5	\$2,500						\$2,500	NRCS/RCD

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$62,883						\$62,883	
SONCC-LitR.7.1.36									
	SONCC-LitR.7.1.36.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-LitR.7.1.36.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-LitR.7.1.36.3	\$10,000						\$10,000	NRCS/RCD
	SONCC-LitR.7.1.36.4	\$16,368						\$16,368	NRCS/RCD
	SONCC-LitR.7.1.36.5	\$2,500						\$2,500	NRCS/RCD
Action Total:		\$62,883						\$62,883	
SONCC-LitR.10.2.25									
	SONCC-LitR.10.2.25.1	\$22,963						\$22,963	CDFW
	SONCC-LitR.10.2.25.2	\$38,068						\$38,068	CDFW
Action Total:		\$61,031						\$61,031	
SONCC-LitR.10.2.31									
	SONCC-LitR.10.2.31.1	\$22,963						\$22,963	CDFW
	SONCC-LitR.10.2.31.2	\$38,068						\$38,068	CDFW
Action Total:		\$61,031						\$61,031	
SONCC-LitR.10.7.32									
	SONCC-LitR.10.7.32.1	\$8,504						\$8,504	CDFW
	SONCC-LitR.10.7.32.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
Action Total:		\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-LitR.10.7.28									
	SONCC-LitR.10.7.28.1	\$8,504						\$8,504	CDFW
	SONCC-LitR.10.7.28.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
Action Total:		\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-LitR.16.1.9									
	SONCC-LitR.16.1.9.1	\$34,015						\$34,015	NMFS
	SONCC-LitR.16.1.9.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-LitR.16.1.10									
	SONCC-LitR.16.1.10.1	\$34,015						\$34,015	NMFS
	SONCC-LitR.16.1.10.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-LitR.16.2.11									
	SONCC-LitR.16.2.11.1	\$34,015						\$34,015	NMFS
	SONCC-LitR.16.2.11.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-LitR.16.2.12									
	SONCC-LitR.16.2.12.1	\$34,015						\$34,015	NMFS
	SONCC-LitR.16.2.12.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-LitR.27.2.16									
	SONCC-LitR.27.2.16.1	\$136,060						\$136,060	CDFW
	SONCC-LitR.27.2.16.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
Action Total:		\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-LitR.27.2.17									
	SONCC-LitR.27.2.17.1	\$38,995		\$38,995		\$38,995		\$116,985	CDFW
Action Total:		\$38,995		\$38,995		\$38,995		\$116,985	
SONCC-LitR.27.2.18									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-LitR.27.2.18.1	\$38,995		\$38,995		\$38,995		\$116,985	CDFW
	Action Total:	<i>\$38,995</i>		<i>\$38,995</i>		<i>\$38,995</i>		<i>\$116,985</i>	
SONCC-LitR.27.2.19	SONCC-LitR.27.2.19.1	\$38,995		\$38,995		\$38,995		\$116,985	CDFW
	Action Total:	<i>\$38,995</i>		<i>\$38,995</i>		<i>\$38,995</i>		<i>\$116,985</i>	
SONCC-LitR.27.2.27	SONCC-LitR.27.2.27.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-LitR.27.1.13	SONCC-LitR.27.1.13.1	\$51,305	\$51,305	\$51,305	\$51,305	\$51,305	\$51,305	\$307,830	CDFW
	Action Total:	<i>\$51,305</i>	<i>\$51,305</i>	<i>\$51,305</i>	<i>\$51,305</i>	<i>\$51,305</i>	<i>\$51,305</i>	<i>\$307,830</i>	
SONCC-LitR.27.1.14	SONCC-LitR.27.1.14.1	\$17,102	\$17,102	\$17,102	\$17,102	\$17,102	\$17,102	\$102,612	CDFW
	Action Total:	<i>\$17,102</i>	<i>\$17,102</i>	<i>\$17,102</i>	<i>\$17,102</i>	<i>\$17,102</i>	<i>\$17,102</i>	<i>\$102,612</i>	
SONCC-LitR.27.1.15	SONCC-LitR.27.1.15.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-LitR.27.1.23	SONCC-LitR.27.1.23.1	\$34,015						\$34,015	NMFS
	SONCC-LitR.27.1.23.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-LitR.27.4.26	SONCC-LitR.27.4.26.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-LitR.1.4.5	SONCC-LitR.1.4.5.1							\$0	CSP
	Action Total:							<i>\$0</i>	
	Population Total:	\$20,738,547	\$490,665	\$525,850	\$490,665	\$525,850	\$710,453	\$23,482,027	
Population: Lower Eel and Van Duzen									
SONCC-LEVR.1.1.65	SONCC-LEVR.1.1.65.1	\$17,008						\$17,008	CDFW
	SONCC-LEVR.1.1.65.2	\$117,011						\$117,011	CDFW
	Action Total:	<i>\$134,018</i>						<i>\$134,018</i>	
SONCC-LEVR.1.1.66	SONCC-LEVR.1.1.66.1	\$17,008						\$17,008	NMFS
	SONCC-LEVR.1.1.66.2	\$600,570						\$600,570	NMFS
	Action Total:	<i>\$617,578</i>						<i>\$617,578</i>	
SONCC-LEVR.1.1.12	SONCC-LEVR.1.1.12.1	\$17,008						\$17,008	CDFW
	SONCC-LEVR.1.1.12.2	\$117,011						\$117,011	CDFW
	Action Total:	<i>\$134,018</i>						<i>\$134,018</i>	
SONCC-LEVR.1.1.13	SONCC-LEVR.1.1.13.1	\$17,008						\$17,008	NMFS
	SONCC-LEVR.1.1.13.2	\$600,570						\$600,570	NMFS
	Action Total:	<i>\$617,578</i>						<i>\$617,578</i>	
SONCC-LEVR.1.2.38	SONCC-LEVR.1.2.38.1	\$34,015						\$34,015	CDFW
	SONCC-LEVR.1.2.38.2	\$34,015						\$34,015	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-LEVR.1.2.38.3	\$8,700,000						\$8,700,000	CDFW
	Action Total:	<i>\$8,768,030</i>						<i>\$8,768,030</i>	
SONCC-LEVR.1.2.14									
	SONCC-LEVR.1.2.14.1	\$34,015						\$34,015	CDFW
	SONCC-LEVR.1.2.14.2	\$8,700,000						\$8,700,000	CDFW
	Action Total:	<i>\$8,734,015</i>						<i>\$8,734,015</i>	
SONCC-LEVR.1.2.15									
	SONCC-LEVR.1.2.15.1	\$34,015						\$34,015	CDFW
	SONCC-LEVR.1.2.15.2	\$8,700,000						\$8,700,000	CDFW
	SONCC-LEVR.1.2.15.3	\$8,700,000						\$8,700,000	CDFW
	Action Total:	<i>\$17,434,015</i>						<i>\$17,434,015</i>	
SONCC-LEVR.1.2.16									
	SONCC-LEVR.1.2.16.1	\$34,015						\$34,015	CDFW
	SONCC-LEVR.1.2.16.2	\$8,700,000						\$8,700,000	CDFW
	Action Total:	<i>\$8,734,015</i>						<i>\$8,734,015</i>	
SONCC-LEVR.2.1.36									
	SONCC-LEVR.2.1.36.1	\$17,008						\$17,008	CDFW
	SONCC-LEVR.2.1.36.2	\$1,553,500						\$1,553,500	CDFW
	Action Total:	<i>\$1,570,508</i>						<i>\$1,570,508</i>	
SONCC-LEVR.2.1.72									
	SONCC-LEVR.2.1.72.1	\$17,008						\$17,008	CDFW
	SONCC-LEVR.2.1.72.2	\$1,553,500						\$1,553,500	CDFW
	Action Total:	<i>\$1,570,508</i>						<i>\$1,570,508</i>	
SONCC-LEVR.2.2.45									
	SONCC-LEVR.2.2.45.1	\$68,030						\$68,030	CDFW
	SONCC-LEVR.2.2.45.2	\$197,674						\$197,674	CDFW
	Action Total:	<i>\$265,704</i>						<i>\$265,704</i>	
SONCC-LEVR.2.2.47									
	SONCC-LEVR.2.2.47.1	\$68,030						\$68,030	CDFW
	SONCC-LEVR.2.2.47.2	\$197,674						\$197,674	CDFW
	Action Total:	<i>\$265,704</i>						<i>\$265,704</i>	
SONCC-LEVR.3.1.48									
	SONCC-LEVR.3.1.48.1	\$0						\$0	SWRCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-LEVR.3.1.74									
	SONCC-LEVR.3.1.74.1	\$0						\$0	SWRCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-LEVR.3.1.20									
	SONCC-LEVR.3.1.20.1	\$76,136						\$76,136	SWRCB
	SONCC-LEVR.3.1.20.2	\$34,015						\$34,015	SWRCB
	Action Total:	<i>\$110,151</i>						<i>\$110,151</i>	
SONCC-LEVR.14.2.4									
	SONCC-LEVR.14.2.4.1	\$68,030						\$68,030	CDFW
	SONCC-LEVR.14.2.4.2	\$27,697	\$27,697	\$27,697	\$27,697	\$27,697	\$27,697	\$166,184	CDFW
	Action Total:	<i>\$95,727</i>	<i>\$27,697</i>	<i>\$27,697</i>	<i>\$27,697</i>	<i>\$27,697</i>	<i>\$27,697</i>	<i>\$234,214</i>	
SONCC-LEVR.2.1.71									
	SONCC-LEVR.2.1.71.1	\$17,008						\$17,008	CDFW
	SONCC-LEVR.2.1.71.2	\$8,354,713						\$8,354,713	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$8,371,720						\$8,371,720	
SONCC-LEVR.2.1.17									
	SONCC-LEVR.2.1.17.1	\$17,008						\$17,008	CDFW
	SONCC-LEVR.2.1.17.2	\$8,354,713						\$8,354,713	CDFW
Action Total:		\$8,371,720						\$8,371,720	
SONCC-LEVR.3.1.52									
	SONCC-LEVR.3.1.52.1	\$73,540						\$73,540	CDFW
	SONCC-LEVR.3.1.52.2	\$36,770						\$36,770	CDFW
	SONCC-LEVR.3.1.52.3	\$73,540						\$73,540	CDFW
Action Total:		\$183,850						\$183,850	
SONCC-LEVR.26.1.64									
	SONCC-LEVR.26.1.64.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
Action Total:		\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-LEVR.8.1.77									
	SONCC-LEVR.8.1.77.1	\$1,450,986						\$1,450,986	CDF
	SONCC-LEVR.8.1.77.2	\$183,852,909						\$183,852,909	CDF
	SONCC-LEVR.8.1.77.3	\$2,367,705						\$2,367,705	CDF
	SONCC-LEVR.8.1.77.4	\$1,734,414					\$1,734,414	\$3,468,828	CDF
Action Total:		\$189,406,014					\$1,734,414	\$191,140,428	
SONCC-LEVR.10.1.51									
	SONCC-LEVR.10.1.51.1	\$17,008						\$17,008	CDFW
	SONCC-LEVR.10.1.51.2	\$8,354,713						\$8,354,713	CDFW
	SONCC-LEVR.10.1.51.3	\$4,255,848						\$4,255,848	CDFW
Action Total:		\$12,627,568						\$12,627,568	
SONCC-LEVR.10.1.67									
	SONCC-LEVR.10.1.67.1	\$17,008						\$17,008	CDFW
	SONCC-LEVR.10.1.67.2	\$8,354,713						\$8,354,713	CDFW
	SONCC-LEVR.10.1.67.3	\$4,255,848						\$4,255,848	CDFW
Action Total:		\$12,627,568						\$12,627,568	
SONCC-LEVR.8.1.49									
	SONCC-LEVR.8.1.49.1	\$0						\$0	County
Action Total:		\$0						\$0	
SONCC-LEVR.8.1.76									
	SONCC-LEVR.8.1.76.1	\$0						\$0	County
Action Total:		\$0						\$0	
SONCC-LEVR.8.1.5									
	SONCC-LEVR.8.1.5.1	\$1,450,986						\$1,450,986	CDF
	SONCC-LEVR.8.1.5.2	\$183,852,909						\$183,852,909	CDF
	SONCC-LEVR.8.1.5.3	\$2,367,705						\$2,367,705	CDF
	SONCC-LEVR.8.1.5.4	\$1,734,414					\$1,734,414	\$3,468,828	CDF
Action Total:		\$189,406,014					\$1,734,414	\$191,140,428	
SONCC-LEVR.5.1.46									
	SONCC-LEVR.5.1.46.1	\$159,090						\$159,090	CDFW
Action Total:		\$159,090						\$159,090	
SONCC-LEVR.5.1.37									
	SONCC-LEVR.5.1.37.1	\$18,385						\$18,385	CDFW
	SONCC-LEVR.5.1.37.2	\$130,815						\$130,815	CDFW
Action Total:		\$149,200						\$149,200	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-LEVR.5.1.75	SONCC-LEVR.5.1.75.1	\$18,385						\$18,385	CDFW
	SONCC-LEVR.5.1.75.2	\$130,815						\$130,815	CDFW
	Action Total:	<i>\$149,200</i>						<i>\$149,200</i>	
SONCC-LEVR.7.1.2	SONCC-LEVR.7.1.2.1	\$34,015						\$34,015	CDF
	SONCC-LEVR.7.1.2.2	\$1,168,458						\$1,168,458	CDF
	SONCC-LEVR.7.1.2.3	\$8,372,160						\$8,372,160	CDF
	Action Total:	<i>\$9,574,633</i>						<i>\$9,574,633</i>	
SONCC-LEVR.7.1.3	SONCC-LEVR.7.1.3.1	\$5,669						\$5,669	CDF
	Action Total:	<i>\$5,669</i>						<i>\$5,669</i>	
SONCC-LEVR.7.1.1	SONCC-LEVR.7.1.1.1	\$8,503						\$8,503	County
	SONCC-LEVR.7.1.1.2	\$34,015						\$34,015	County
	Action Total:	<i>\$42,518</i>						<i>\$42,518</i>	
SONCC-LEVR.10.2.42	SONCC-LEVR.10.2.42.1	\$45,925						\$45,925	RWQCB
	SONCC-LEVR.10.2.42.2	\$114,813						\$114,813	RWQCB
	Action Total:	<i>\$160,738</i>						<i>\$160,738</i>	
SONCC-LEVR.10.2.68	SONCC-LEVR.10.2.68.1	\$45,925						\$45,925	RWQCB
	SONCC-LEVR.10.2.68.2	\$114,813						\$114,813	RWQCB
	Action Total:	<i>\$160,738</i>						<i>\$160,738</i>	
SONCC-LEVR.10.7.70	SONCC-LEVR.10.7.70.1	\$8,504						\$8,504	CDFW
	SONCC-LEVR.10.7.70.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-LEVR.10.7.63	SONCC-LEVR.10.7.63.1	\$8,504						\$8,504	CDFW
	SONCC-LEVR.10.7.63.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-LEVR.7.1.43	SONCC-LEVR.7.1.43.1	\$0						\$0	CDFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-LEVR.16.1.22	SONCC-LEVR.16.1.22.1	\$34,015						\$34,015	NMFS
	SONCC-LEVR.16.1.22.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-LEVR.16.1.23	SONCC-LEVR.16.1.23.1	\$34,015						\$34,015	NMFS
	SONCC-LEVR.16.1.23.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-LEVR.16.2.24	SONCC-LEVR.16.2.24.1	\$34,015						\$34,015	NMFS
	SONCC-LEVR.16.2.24.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-LEVR.16.2.25									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-LEVR.16.2.25.1	\$34,015						\$34,015	NMFS
	SONCC-LEVR.16.2.25.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-LEVR.8.1.44									
	SONCC-LEVR.8.1.44.1	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-LEVR.8.1.6									
	SONCC-LEVR.8.1.6.1	\$2,376						\$2,376	County
	Action Total:	<i>\$2,376</i>						<i>\$2,376</i>	
SONCC-LEVR.8.1.7									
	SONCC-LEVR.8.1.7.1	\$34,015						\$34,015	CDF
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-LEVR.8.1.9									
	SONCC-LEVR.8.1.9.1	\$34,015						\$34,015	NRCS/RCD
	SONCC-LEVR.8.1.9.2	\$34,015						\$34,015	NRCS/RCD
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-LEVR.8.1.11									
	SONCC-LEVR.8.1.11.1	\$182,000						\$182,000	CDF
	SONCC-LEVR.8.1.11.2	\$12,169,248						\$12,169,248	CDF
	Action Total:	<i>\$12,351,248</i>						<i>\$12,351,248</i>	
SONCC-LEVR.27.2.41									
	SONCC-LEVR.27.2.41.1	\$68,030						\$68,030	CDFW
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-LEVR.27.2.58									
	SONCC-LEVR.27.2.58.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-LEVR.27.2.59									
	SONCC-LEVR.27.2.59.1	\$34,015						\$34,015	CDFW
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-LEVR.27.2.30									
	SONCC-LEVR.27.2.30.1	\$136,060						\$136,060	CDFW
	SONCC-LEVR.27.2.30.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	<i>\$136,060</i>	<i>\$81,800</i>		<i>\$81,800</i>		<i>\$81,800</i>	<i>\$381,460</i>	
SONCC-LEVR.27.2.31									
	SONCC-LEVR.27.2.31.1	\$5,161,933		\$5,161,933		\$5,161,933		\$15,485,799	CDFW
	Action Total:	<i>\$5,161,933</i>		<i>\$5,161,933</i>		<i>\$5,161,933</i>		<i>\$15,485,799</i>	
SONCC-LEVR.27.2.32									
	SONCC-LEVR.27.2.32.1	\$5,161,933		\$5,161,933		\$5,161,933		\$15,485,799	CDFW
	Action Total:	<i>\$5,161,933</i>		<i>\$5,161,933</i>		<i>\$5,161,933</i>		<i>\$15,485,799</i>	
SONCC-LEVR.27.2.33									
	SONCC-LEVR.27.2.33.1	\$5,161,933		\$5,161,933		\$5,161,933		\$15,485,799	CDFW
	Action Total:	<i>\$5,161,933</i>		<i>\$5,161,933</i>		<i>\$5,161,933</i>		<i>\$15,485,799</i>	
SONCC-LEVR.27.2.34									
	SONCC-LEVR.27.2.34.1	\$5,161,933		\$5,161,933		\$5,161,933		\$15,485,799	CDFW
	Action Total:	<i>\$5,161,933</i>		<i>\$5,161,933</i>		<i>\$5,161,933</i>		<i>\$15,485,799</i>	
SONCC-LEVR.27.2.35									
	SONCC-LEVR.27.2.35.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-LEVR.27.2.62									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-LEVR.27.2.62.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-LEVR.27.1.39	SONCC-LEVR.27.1.39.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	Action Total:	<i>\$68,030</i>		<i>\$68,030</i>		<i>\$68,030</i>		<i>\$204,090</i>	
SONCC-LEVR.27.1.40	SONCC-LEVR.27.1.40.1	\$34,015						\$34,015	NMFS
	SONCC-LEVR.27.1.40.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-LEVR.27.1.26	SONCC-LEVR.27.1.26.1	\$590,280	\$590,280	\$590,280	\$590,280	\$590,280	\$590,280	\$3,541,680	CDFW
	Action Total:	<i>\$590,280</i>	<i>\$590,280</i>	<i>\$590,280</i>	<i>\$590,280</i>	<i>\$590,280</i>	<i>\$590,280</i>	<i>\$3,541,680</i>	
SONCC-LEVR.27.1.27	SONCC-LEVR.27.1.27.1	\$196,760	\$196,760	\$196,760	\$196,760	\$196,760	\$196,760	\$1,180,560	CDFW
	Action Total:	<i>\$196,760</i>	<i>\$196,760</i>	<i>\$196,760</i>	<i>\$196,760</i>	<i>\$196,760</i>	<i>\$196,760</i>	<i>\$1,180,560</i>	
SONCC-LEVR.27.1.28	SONCC-LEVR.27.1.28.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-LEVR.27.1.29	SONCC-LEVR.27.1.29.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-LEVR.27.1.29.2	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	CDFW
	Action Total:	<i>\$102,045</i>	<i>\$102,045</i>	<i>\$102,045</i>	<i>\$102,045</i>	<i>\$102,045</i>	<i>\$102,045</i>	<i>\$612,270</i>	
SONCC-LEVR.27.1.61	SONCC-LEVR.27.1.61.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	ODFW
	Action Total:	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$6,120,000</i>	
SONCC-LEVR.27.4.54	SONCC-LEVR.27.4.54.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-LEVR.27.4.55	SONCC-LEVR.27.4.55.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-LEVR.27.4.56	SONCC-LEVR.27.4.56.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-LEVR.27.4.57	SONCC-LEVR.27.4.57.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-LEVR.27.4.60	SONCC-LEVR.27.4.60.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
	Population Total:	<i>\$516,838,720</i>	<i>\$2,733,717</i>	<i>\$23,401,694</i>	<i>\$2,733,717</i>	<i>\$23,401,694</i>	<i>\$6,202,545</i>	<i>\$575,312,088</i>	
Population: Lower Klamath River									
SONCC-LKR.2.2.8	SONCC-LKR.2.2.8.1	\$89,080						\$89,080	BIA/Tribe
	SONCC-LKR.2.2.8.2	\$636,029						\$636,029	BIA/Tribe
	Action Total:	<i>\$725,109</i>						<i>\$725,109</i>	
SONCC-LKR.1.2.39	SONCC-LKR.1.2.39.1	\$34,015						\$34,015	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-LKR.1.2.39.2	\$34,015						\$34,015	CDFW
	SONCC-LKR.1.2.39.3	\$682,150						\$682,150	CDFW
	Action Total:	<i>\$750,180</i>						<i>\$750,180</i>	
SONCC-LKR.2.1.1									
	SONCC-LKR.2.1.1.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-LKR.2.1.1.2	\$2,465,325						\$2,465,325	BIA/Tribe
	Action Total:	<i>\$2,482,333</i>						<i>\$2,482,333</i>	
SONCC-LKR.2.1.60									
	SONCC-LKR.2.1.60.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-LKR.2.1.60.2	\$2,465,325						\$2,465,325	BIA/Tribe
	Action Total:	<i>\$2,482,333</i>						<i>\$2,482,333</i>	
SONCC-LKR.2.2.2									
	SONCC-LKR.2.2.2.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-LKR.2.2.2.2	\$460,161						\$460,161	BIA/Tribe
	Action Total:	<i>\$477,169</i>						<i>\$477,169</i>	
SONCC-LKR.2.2.4									
	SONCC-LKR.2.2.4.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-LKR.2.2.4.2	\$203,490						\$203,490	BIA/Tribe
	SONCC-LKR.2.2.4.3	\$117,612						\$117,612	BIA/Tribe
	Action Total:	<i>\$338,110</i>						<i>\$338,110</i>	
SONCC-LKR.2.2.6									
	SONCC-LKR.2.2.6.1	\$17,008						\$17,008	CDFW
	SONCC-LKR.2.2.6.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-LKR.2.2.6.3	\$20,000						\$20,000	CDFW
	Action Total:	<i>\$122,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$547,233</i>	
SONCC-LKR.2.2.61									
	SONCC-LKR.2.2.61.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-LKR.2.2.61.2	\$460,161						\$460,161	BIA/Tribe
	Action Total:	<i>\$477,169</i>						<i>\$477,169</i>	
SONCC-LKR.2.2.62									
	SONCC-LKR.2.2.62.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-LKR.2.2.62.2	\$203,490						\$203,490	BIA/Tribe
	SONCC-LKR.2.2.62.3	\$117,612						\$117,612	BIA/Tribe
	Action Total:	<i>\$338,110</i>						<i>\$338,110</i>	
SONCC-LKR.2.2.63									
	SONCC-LKR.2.2.63.1	\$17,008						\$17,008	CDFW
	SONCC-LKR.2.2.63.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-LKR.2.2.63.3	\$20,000						\$20,000	CDFW
	Action Total:	<i>\$122,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$547,233</i>	
SONCC-LKR.8.1.11									
	SONCC-LKR.8.1.11.1	\$1,279,147						\$1,279,147	BIA/Tribe
	SONCC-LKR.8.1.11.2	\$41,911,778						\$41,911,778	BIA/Tribe
	SONCC-LKR.8.1.11.3	\$1,437,411						\$1,437,411	BIA/Tribe
	SONCC-LKR.8.1.11.4	\$1,176,583					\$1,176,583	\$2,353,165	BIA/Tribe
	Action Total:	<i>\$45,804,918</i>					<i>\$1,176,583</i>	<i>\$46,981,501</i>	
SONCC-LKR.8.1.68									
	SONCC-LKR.8.1.68.1	\$1,279,147						\$1,279,147	BIA/Tribe

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-LKR.8.1.68.2	\$41,911,778						\$41,911,778	BIA/Tribe
	SONCC-LKR.8.1.68.3	\$1,437,411						\$1,437,411	BIA/Tribe
	SONCC-LKR.8.1.68.4	\$1,176,583					\$1,176,583	\$2,353,165	BIA/Tribe
	Action Total:	<i>\$45,804,918</i>					<i>\$1,176,583</i>	<i>\$46,981,501</i>	
SONCC-LKR.7.1.14									
	SONCC-LKR.7.1.14.1	\$34,015						\$34,015	BIA/Tribe
	SONCC-LKR.7.1.14.2	\$347,086						\$347,086	BIA/Tribe
	SONCC-LKR.7.1.14.3	\$2,525,602						\$2,525,602	BIA/Tribe
	Action Total:	<i>\$2,906,702</i>						<i>\$2,906,702</i>	
SONCC-LKR.3.1.64									
	SONCC-LKR.3.1.64.1	\$18,385						\$18,385	SWRCB
	SONCC-LKR.3.1.64.2	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-LKR.3.1.57									
	SONCC-LKR.3.1.57.1	\$18,385						\$18,385	SWRCB
	SONCC-LKR.3.1.57.2	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-LKR.8.1.9									
	SONCC-LKR.8.1.9.1	\$126,908						\$126,908	BIA/Tribe
	Action Total:	<i>\$126,908</i>						<i>\$126,908</i>	
SONCC-LKR.8.1.70									
	SONCC-LKR.8.1.70.1	\$126,908						\$126,908	BIA/Tribe
	Action Total:	<i>\$126,908</i>						<i>\$126,908</i>	
SONCC-LKR.7.1.16									
	SONCC-LKR.7.1.16.1	\$34,015						\$34,015	BIA/Tribe
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-LKR.8.1.13									
	SONCC-LKR.8.1.13.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-LKR.8.1.13.2	\$271,220						\$271,220	NRCS/RCD
	Action Total:	<i>\$288,228</i>						<i>\$288,228</i>	
SONCC-LKR.8.1.69									
	SONCC-LKR.8.1.69.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-LKR.8.1.69.2	\$271,220						\$271,220	NRCS/RCD
	Action Total:	<i>\$288,228</i>						<i>\$288,228</i>	
SONCC-LKR.2.2.3									
	SONCC-LKR.2.2.3.1	\$80,000						\$80,000	BIA/Tribe
	Action Total:	<i>\$80,000</i>						<i>\$80,000</i>	
SONCC-LKR.5.1.40									
	SONCC-LKR.5.1.40.1	\$17,008						\$17,008	CDFW
	SONCC-LKR.5.1.40.2	\$159,090						\$159,090	CDFW
	Action Total:	<i>\$176,098</i>						<i>\$176,098</i>	
SONCC-LKR.5.1.65									
	SONCC-LKR.5.1.65.1	\$17,008						\$17,008	CDFW
	SONCC-LKR.5.1.65.2	\$159,090						\$159,090	CDFW
	Action Total:	<i>\$176,098</i>						<i>\$176,098</i>	
SONCC-LKR.3.1.55									
	SONCC-LKR.3.1.55.1	\$247,000	\$247,000	\$247,000	\$247,000	\$247,000	\$247,000	\$1,482,000	SWRCB
	Action Total:	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$1,482,000</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-LKR.3.1.58	SONCC-LKR.3.1.58.1	\$36,077						\$36,077	CDFW
	SONCC-LKR.3.1.58.2	\$36,077						\$36,077	CDFW
	SONCC-LKR.3.1.58.3	\$36,077						\$36,077	CDFW
	Action Total:	<i>\$108,231</i>						<i>\$108,231</i>	
SONCC-LKR.7.1.15	SONCC-LKR.7.1.15.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-LKR.7.1.15.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-LKR.7.1.15.3	\$436,650						\$436,650	NRCS/RCD
	SONCC-LKR.7.1.15.4	\$14,766						\$14,766	NRCS/RCD
	SONCC-LKR.7.1.15.5	\$607						\$607	NRCS/RCD
Action Total:	<i>\$486,038</i>						<i>\$486,038</i>		
SONCC-LKR.7.1.66	SONCC-LKR.7.1.66.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-LKR.7.1.66.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-LKR.7.1.66.3	\$436,650						\$436,650	NRCS/RCD
	SONCC-LKR.7.1.66.4	\$14,766						\$14,766	NRCS/RCD
	SONCC-LKR.7.1.66.5	\$607						\$607	NRCS/RCD
Action Total:	<i>\$486,038</i>						<i>\$486,038</i>		
SONCC-LKR.7.1.67	SONCC-LKR.7.1.67.1	\$8,504						\$8,504	CDFW
	SONCC-LKR.7.1.67.2	\$56,706						\$56,706	CDFW
	Action Total:	<i>\$65,210</i>						<i>\$65,210</i>	
SONCC-LKR.7.1.54	SONCC-LKR.7.1.54.1	\$8,504						\$8,504	CDFW
	SONCC-LKR.7.1.54.2	\$56,706						\$56,706	CDFW
Action Total:	<i>\$65,210</i>							<i>\$65,210</i>	
SONCC-LKR.26.1.56	SONCC-LKR.26.1.56.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-LKR.10.7.59	SONCC-LKR.10.7.59.1	\$8,504						\$8,504	CDFW
	SONCC-LKR.10.7.59.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-LKR.10.7.53	SONCC-LKR.10.7.53.1	\$8,504						\$8,504	CDFW
	SONCC-LKR.10.7.53.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-LKR.8.1.10	SONCC-LKR.8.1.10.1	\$73,540						\$73,540	BIA/Tribe
	SONCC-LKR.8.1.10.2	\$20,033,709						\$20,033,709	BIA/Tribe
	Action Total:	<i>\$20,107,249</i>						<i>\$20,107,249</i>	
SONCC-LKR.8.1.12	SONCC-LKR.8.1.12.1	\$2,267						\$2,267	County
	Action Total:	<i>\$2,267</i>						<i>\$2,267</i>	
SONCC-LKR.3.1.20	SONCC-LKR.3.1.20.1	\$76,136						\$76,136	NGO

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$76,136						\$76,136	
SONCC-LKR.3.1.21									
	SONCC-LKR.3.1.21.1	\$0						\$0	SWRCB
	SONCC-LKR.3.1.21.2	\$0						\$0	SWRCB
Action Total:		\$0						\$0	
SONCC-LKR.3.1.23									
	SONCC-LKR.3.1.23.1	\$36,770						\$36,770	SWRCB
Action Total:		\$36,770						\$36,770	
SONCC-LKR.7.1.18									
	SONCC-LKR.7.1.18.1	\$5,669						\$5,669	CDF
Action Total:		\$5,669						\$5,669	
SONCC-LKR.16.1.25									
	SONCC-LKR.16.1.25.1	\$34,015						\$34,015	NMFS
	SONCC-LKR.16.1.25.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-LKR.16.1.26									
	SONCC-LKR.16.1.26.1	\$34,015						\$34,015	NMFS
	SONCC-LKR.16.1.26.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-LKR.16.1.51									
	SONCC-LKR.16.1.51.1	\$34,015						\$34,015	NMFS
	SONCC-LKR.16.1.51.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-LKR.16.1.52									
	SONCC-LKR.16.1.52.1	\$34,015						\$34,015	BIA/Tribe
	SONCC-LKR.16.1.52.2	\$34,015						\$34,015	BIA/Tribe
Action Total:		\$68,030						\$68,030	
SONCC-LKR.16.2.27									
	SONCC-LKR.16.2.27.1	\$34,015						\$34,015	NMFS
	SONCC-LKR.16.2.27.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-LKR.16.2.28									
	SONCC-LKR.16.2.28.1	\$34,015						\$34,015	NMFS
	SONCC-LKR.16.2.28.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-LKR.10.2.45									
	SONCC-LKR.10.2.45.1	\$45,925						\$45,925	CDFW
	SONCC-LKR.10.2.45.2	\$76,136						\$76,136	CDFW
Action Total:		\$122,061						\$122,061	
SONCC-LKR.27.2.33									
	SONCC-LKR.27.2.33.1	\$136,060						\$136,060	CDFW
	SONCC-LKR.27.2.33.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
Action Total:		\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-LKR.27.2.34									
	SONCC-LKR.27.2.34.1	\$1,396,586		\$1,396,586		\$1,396,586		\$4,189,758	CDFW
Action Total:		\$1,396,586		\$1,396,586		\$1,396,586		\$4,189,758	
SONCC-LKR.27.2.35									
	SONCC-LKR.27.2.35.1	\$1,396,586		\$1,396,586		\$1,396,586		\$4,189,758	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	Action Total:	\$1,396,586		\$1,396,586		\$1,396,586		\$4,189,758	
SONCC-LKR.27.2.36									
	SONCC-LKR.27.2.36.1	\$1,396,586		\$1,396,586		\$1,396,586		\$4,189,758	CDFW
	Action Total:	\$1,396,586		\$1,396,586		\$1,396,586		\$4,189,758	
SONCC-LKR.27.2.37									
	SONCC-LKR.27.2.37.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-LKR.27.2.37.2	\$34,015						\$34,015	CDFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-LKR.27.2.38									
	SONCC-LKR.27.2.38.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-LKR.27.2.44									
	SONCC-LKR.27.2.44.1	\$68,030						\$68,030	CDFW
	Action Total:	\$68,030						\$68,030	
SONCC-LKR.27.2.50									
	SONCC-LKR.27.2.50.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-LKR.27.1.29									
	SONCC-LKR.27.1.29.1	\$307,033	\$307,033	\$307,033	\$307,033	\$307,033	\$307,033	\$1,842,198	CDFW
	Action Total:	\$307,033	\$307,033	\$307,033	\$307,033	\$307,033	\$307,033	\$1,842,198	
SONCC-LKR.27.1.30									
	SONCC-LKR.27.1.30.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	CDFW
	Action Total:	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	
SONCC-LKR.27.1.31									
	SONCC-LKR.27.1.31.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	SONCC-LKR.27.1.31.2	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,500,000	BIA/Tribe
	Action Total:	\$318,030	\$250,000	\$318,030	\$250,000	\$318,030	\$250,000	\$1,704,090	
SONCC-LKR.27.1.32									
	SONCC-LKR.27.1.32.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-LKR.27.1.32.2	\$13,084	\$13,084	\$13,084	\$13,084	\$13,084	\$13,084	\$78,504	CDFW
	Action Total:	\$98,122	\$98,122	\$98,122	\$98,122	\$98,122	\$98,122	\$588,729	
SONCC-LKR.27.1.42									
	SONCC-LKR.27.1.42.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-LKR.27.1.43									
	SONCC-LKR.27.1.43.1	\$34,015						\$34,015	NMFS
	SONCC-LKR.27.1.43.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-LKR.27.1.49									
	SONCC-LKR.27.1.49.1	\$102,344	\$102,344	\$102,344	\$102,344	\$102,344	\$102,344	\$614,064	CDFW
	Action Total:	\$102,344	\$102,344	\$102,344	\$102,344	\$102,344	\$102,344	\$614,064	
SONCC-LKR.27.4.47									
	SONCC-LKR.27.4.47.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-LKR.27.4.48									
	SONCC-LKR.27.4.48.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-LKR.2.2.7									
	SONCC-LKR.2.2.7.1							\$0	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:									\$0
SONCC-LKR.7.1.17									
	SONCC-LKR.7.1.17.1							\$0	BIA/Tribe
	SONCC-LKR.7.1.17.2							\$0	BIA/Tribe
	SONCC-LKR.7.1.17.3							\$0	BIA/Tribe
Action Total:									\$0
Population Total:		\$133,286,917	\$2,724,739	\$6,934,742	\$2,724,739	\$6,934,742	\$5,077,904	\$157,683,781	
Population: Lower Rogue									
SONCC-LRR.7.1.4									
	SONCC-LRR.7.1.4.1	\$68,030						\$68,030	ODF
	SONCC-LRR.7.1.4.2	\$0						\$0	ODF
	SONCC-LRR.7.1.4.3	\$0						\$0	ODF
	SONCC-LRR.7.1.4.4	\$0						\$0	ODF
	SONCC-LRR.7.1.4.5	\$0						\$0	ODF
Action Total:									\$68,030
SONCC-LRR.2.1.50									
	SONCC-LRR.2.1.50.1	\$17,008						\$17,008	USFS
	SONCC-LRR.2.1.50.2	\$839,786						\$839,786	USFS
Action Total:									\$856,793
SONCC-LRR.2.1.9									
	SONCC-LRR.2.1.9.1	\$17,008						\$17,008	USFS
	SONCC-LRR.2.1.9.2	\$839,786						\$839,786	USFS
Action Total:									\$856,793
SONCC-LRR.2.2.51									
	SONCC-LRR.2.2.51.1	\$17,008						\$17,008	USFS
	SONCC-LRR.2.2.51.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	USFS
	SONCC-LRR.2.2.51.3	\$10,000						\$10,000	USFS
Action Total:									\$112,045
SONCC-LRR.2.2.10									
	SONCC-LRR.2.2.10.1	\$17,008						\$17,008	USFS
	SONCC-LRR.2.2.10.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	USFS
	SONCC-LRR.2.2.10.3	\$10,000						\$10,000	USFS
Action Total:									\$112,045
SONCC-LRR.10.2.26									
	SONCC-LRR.10.2.26.1	\$17,008						\$17,008	County
	SONCC-LRR.10.2.26.2	\$48,346						\$48,346	County
Action Total:									\$65,354
SONCC-LRR.10.2.49									
	SONCC-LRR.10.2.49.1	\$17,008						\$17,008	County
	SONCC-LRR.10.2.49.2	\$48,346						\$48,346	County
Action Total:									\$65,354
SONCC-LRR.28.1.1									
	SONCC-LRR.28.1.1.1	\$288,906						\$288,906	USFS
	SONCC-LRR.28.1.1.2	\$6,380,480						\$6,380,480	USFS
	SONCC-LRR.28.1.1.3	\$288,520						\$288,520	USFS
	SONCC-LRR.28.1.1.4	\$474,217					\$474,217	\$948,433	USFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$7,432,122					\$474,217	\$7,906,339	
SONCC-LRR.28.1.57									
	SONCC-LRR.28.1.57.1	\$288,906						\$288,906	USFS
	SONCC-LRR.28.1.57.2	\$6,380,480						\$6,380,480	USFS
	SONCC-LRR.28.1.57.3	\$288,520						\$288,520	USFS
	SONCC-LRR.28.1.57.4	\$474,217					\$474,217	\$948,433	USFS
Action Total:		\$7,432,122					\$474,217	\$7,906,339	
SONCC-LRR.2.4.53									
	SONCC-LRR.2.4.53.1	\$17,008						\$17,008	ODFW
	SONCC-LRR.2.4.53.2	\$335,000						\$335,000	ODFW
Action Total:		\$352,008						\$352,008	
SONCC-LRR.2.4.8									
	SONCC-LRR.2.4.8.1	\$17,008						\$17,008	ODFW
	SONCC-LRR.2.4.8.2	\$335,000						\$335,000	ODFW
Action Total:		\$352,008						\$352,008	
SONCC-LRR.2.5.6									
	SONCC-LRR.2.5.6.1	\$17,008						\$17,008	ODFW
	SONCC-LRR.2.5.6.2	\$87,210						\$87,210	ODFW
Action Total:		\$104,218						\$104,218	
SONCC-LRR.2.5.54									
	SONCC-LRR.2.5.54.1	\$17,008						\$17,008	ODFW
	SONCC-LRR.2.5.54.2	\$87,210						\$87,210	ODFW
Action Total:		\$104,218						\$104,218	
SONCC-LRR.2.7.33									
	SONCC-LRR.2.7.33.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-LRR.2.7.33.2	\$85,038						\$85,038	NRCS/RCD
	SONCC-LRR.2.7.33.3	\$85,038						\$85,038	NRCS/RCD
Action Total:		\$187,083						\$187,083	
SONCC-LRR.2.7.55									
	SONCC-LRR.2.7.55.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-LRR.2.7.55.2	\$85,038						\$85,038	NRCS/RCD
	SONCC-LRR.2.7.55.3	\$85,038						\$85,038	NRCS/RCD
Action Total:		\$187,083						\$187,083	
SONCC-LRR.2.2.52									
	SONCC-LRR.2.2.52.1	\$17,008						\$17,008	ODFW
	SONCC-LRR.2.2.52.2	\$153,387						\$153,387	ODFW
Action Total:		\$170,395						\$170,395	
SONCC-LRR.2.2.48									
	SONCC-LRR.2.2.48.1	\$17,008						\$17,008	ODFW
	SONCC-LRR.2.2.48.2	\$153,387						\$153,387	ODFW
Action Total:		\$170,395						\$170,395	
SONCC-LRR.22.3.36									
	SONCC-LRR.22.3.36.1	\$0						\$0	County
	SONCC-LRR.22.3.36.2	\$0						\$0	County
Action Total:		\$0						\$0	
SONCC-LRR.28.1.2									
	SONCC-LRR.28.1.2.1	\$0						\$0	County
Action Total:		\$0						\$0	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-LRR.2.4.7	SONCC-LRR.2.4.7.1	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-LRR.2.7.5	SONCC-LRR.2.7.5.1	\$17,008						\$17,008	USFS
	SONCC-LRR.2.7.5.3	\$425,585						\$425,585	USFS
	Action Total:	\$442,592						\$442,592	
SONCC-LRR.2.7.56	SONCC-LRR.2.7.56.1	\$17,008						\$17,008	USFS
	SONCC-LRR.2.7.56.3	\$425,585						\$425,585	USFS
	Action Total:	\$442,592						\$442,592	
SONCC-LRR.26.1.47	SONCC-LRR.26.1.47.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-LRR.2.2.44	SONCC-LRR.2.2.44.1	\$0						\$0	ODFW
	Action Total:	\$0						\$0	
SONCC-LRR.10.2.37	SONCC-LRR.10.2.37.1	\$0						\$0	County
	SONCC-LRR.10.2.37.2	\$0						\$0	County
	SONCC-LRR.10.2.37.3	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-LRR.7.1.27	SONCC-LRR.7.1.27.1	\$0						\$0	BLM
	Action Total:	\$0						\$0	
SONCC-LRR.2.7.34	SONCC-LRR.2.7.34.1	\$170,075						\$170,075	USFS
	Action Total:	\$170,075						\$170,075	
SONCC-LRR.5.1.35	SONCC-LRR.5.1.35.1	\$34,015						\$34,015	ODFW
	SONCC-LRR.5.1.35.2	\$318,180						\$318,180	ODFW
	Action Total:	\$352,195						\$352,195	
SONCC-LRR.10.2.32	SONCC-LRR.10.2.32.1	\$45,925						\$45,925	ODFW
	SONCC-LRR.10.2.32.2	\$76,136						\$76,136	ODFW
	Action Total:	\$122,061						\$122,061	
SONCC-LRR.1.2.25	SONCC-LRR.1.2.25.1	\$34,015						\$34,015	ODFW
	SONCC-LRR.1.2.25.2	\$34,015						\$34,015	ODFW
	Action Total:	\$68,030						\$68,030	
SONCC-LRR.16.1.12	SONCC-LRR.16.1.12.1	\$34,015						\$34,015	NMFS
	SONCC-LRR.16.1.12.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-LRR.16.1.13	SONCC-LRR.16.1.13.1	\$34,015						\$34,015	NMFS
	SONCC-LRR.16.1.13.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-LRR.16.2.14	SONCC-LRR.16.2.14.1	\$34,015						\$34,015	NMFS
	SONCC-LRR.16.2.14.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-LRR.16.2.15	SONCC-LRR.16.2.15.1	\$34,015						\$34,015	NMFS
	SONCC-LRR.16.2.15.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-LRR.10.7.46	SONCC-LRR.10.7.46.1	\$17,008						\$17,008	ODFW
	SONCC-LRR.10.7.46.2	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	\$119,258	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$630,508	
SONCC-LRR.27.2.31	SONCC-LRR.27.2.31.1	\$68,030						\$68,030	ODFW
	Action Total:	\$68,030						\$68,030	
SONCC-LRR.27.2.42	SONCC-LRR.27.2.42.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-LRR.27.2.19	SONCC-LRR.27.2.19.1	\$136,060						\$136,060	ODFW
	SONCC-LRR.27.2.19.2		\$81,800		\$81,800		\$81,800	\$245,400	ODFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-LRR.27.2.20	SONCC-LRR.27.2.20.1	\$218,052		\$218,052		\$218,052		\$654,156	ODFW
	Action Total:	\$218,052		\$218,052		\$218,052		\$654,156	
SONCC-LRR.27.2.21	SONCC-LRR.27.2.21.1	\$218,052		\$218,052		\$218,052		\$654,156	ODFW
	Action Total:	\$218,052		\$218,052		\$218,052		\$654,156	
SONCC-LRR.27.2.22	SONCC-LRR.27.2.22.1	\$218,052		\$218,052		\$218,052		\$654,156	ODFW
	Action Total:	\$218,052		\$218,052		\$218,052		\$654,156	
SONCC-LRR.27.2.23	SONCC-LRR.27.2.23.1	\$218,052		\$218,052		\$218,052		\$654,156	ODFW
	Action Total:	\$218,052		\$218,052		\$218,052		\$654,156	
SONCC-LRR.27.2.24	SONCC-LRR.27.2.24.1	\$34,015		\$34,015		\$34,015		\$102,045	ODFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-LRR.27.2.45	SONCC-LRR.27.2.45.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-LRR.27.1.28	SONCC-LRR.27.1.28.1	\$68,030		\$68,030		\$68,030		\$204,090	ODFW
	Action Total:	\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-LRR.27.1.30	SONCC-LRR.27.1.30.1	\$34,015						\$34,015	NMFS
	SONCC-LRR.27.1.30.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-LRR.27.1.16	SONCC-LRR.27.1.16.1	\$121,320	\$121,320	\$121,320	\$121,320	\$121,320	\$121,320	\$727,920	ODFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$121,320	\$121,320	\$121,320	\$121,320	\$121,320	\$121,320	\$727,920	
SONCC-LRR.27.1.17									
	SONCC-LRR.27.1.17.1	\$40,440	\$40,440	\$40,440	\$40,440	\$40,440	\$40,440	\$242,640	ODFW
Action Total:		\$40,440	\$40,440	\$40,440	\$40,440	\$40,440	\$40,440	\$242,640	
SONCC-LRR.27.1.18									
	SONCC-LRR.27.1.18.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-LRR.27.4.39									
	SONCC-LRR.27.4.39.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-LRR.27.4.40									
	SONCC-LRR.27.4.40.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-LRR.27.4.41									
	SONCC-LRR.27.4.41.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-LRR.27.4.43									
	SONCC-LRR.27.4.43.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
Action Total:		\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
Population Total:		\$22,518,950	\$1,043,733	\$1,936,186	\$1,043,733	\$1,936,186	\$1,992,166	\$30,470,952	
Population: Lower Trinity River									
SONCC-LTR.3.1.38									
	SONCC-LTR.3.1.38.1	\$18,385						\$18,385	SWRCB
Action Total:		\$18,385						\$18,385	
SONCC-LTR.3.1.58									
	SONCC-LTR.3.1.58.1	\$18,385						\$18,385	SWRCB
Action Total:		\$18,385						\$18,385	
SONCC-LTR.2.1.11									
	SONCC-LTR.2.1.11.1	\$17,008						\$17,008	CDFW
	SONCC-LTR.2.1.11.2	\$7,669,900						\$7,669,900	CDFW
Action Total:		\$7,686,908						\$7,686,908	
SONCC-LTR.2.1.53									
	SONCC-LTR.2.1.53.1	\$17,008						\$17,008	CDFW
	SONCC-LTR.2.1.53.2	\$7,669,900						\$7,669,900	CDFW
Action Total:		\$7,686,908						\$7,686,908	
SONCC-LTR.2.2.7									
	SONCC-LTR.2.2.7.1	\$17,008						\$17,008	CDFW
	SONCC-LTR.2.2.7.2	\$1,431,612						\$1,431,612	CDFW
Action Total:		\$1,448,620						\$1,448,620	
SONCC-LTR.2.2.8									
	SONCC-LTR.2.2.8.1	\$17,008						\$17,008	CDFW
	SONCC-LTR.2.2.8.2	\$895,342						\$895,342	CDFW
Action Total:		\$912,350						\$912,350	
SONCC-LTR.2.2.12									
	SONCC-LTR.2.2.12.1	\$44,540						\$44,540	NGO
	SONCC-LTR.2.2.12.2	\$937,369						\$937,369	NGO
Action Total:		\$981,909						\$981,909	
SONCC-LTR.2.2.54									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-LTR.2.2.54.1	\$44,540						\$44,540	NGO
	SONCC-LTR.2.2.54.2	\$937,369						\$937,369	NGO
	Action Total:	\$981,909						\$981,909	
SONCC-LTR.2.2.55									
	SONCC-LTR.2.2.55.1	\$17,008						\$17,008	CDFW
	SONCC-LTR.2.2.55.2	\$1,431,612						\$1,431,612	CDFW
	Action Total:	\$1,448,620						\$1,448,620	
SONCC-LTR.2.2.56									
	SONCC-LTR.2.2.56.1	\$17,008						\$17,008	CDFW
	SONCC-LTR.2.2.56.2	\$895,342						\$895,342	CDFW
	Action Total:	\$912,350						\$912,350	
SONCC-LTR.17.2.37									
	SONCC-LTR.17.2.37.1	\$0						\$0	CDFW
	Action Total:	\$0						\$0	
SONCC-LTR.5.1.31									
	SONCC-LTR.5.1.31.1	\$159,090						\$159,090	BIA/Tribe
	Action Total:	\$159,090						\$159,090	
SONCC-LTR.5.1.36									
	SONCC-LTR.5.1.36.1	\$87,209						\$87,209	USFS
	Action Total:	\$87,209						\$87,209	
SONCC-LTR.1.2.33									
	SONCC-LTR.1.2.33.1	\$0						\$0	BIA/Tribe
	Action Total:	\$0						\$0	
SONCC-LTR.3.1.28									
	SONCC-LTR.3.1.28.1	\$34,015						\$34,015	CDFW
	SONCC-LTR.3.1.28.2	\$34,015						\$34,015	CDFW
	Action Total:	\$68,030						\$68,030	
SONCC-LTR.3.1.29									
	SONCC-LTR.3.1.29.1	\$34,015						\$34,015	CDFW
	SONCC-LTR.3.1.29.2	\$85,037	\$85,037	\$85,037	\$85,037	\$85,037	\$85,037	\$510,222	CDFW
	Action Total:	\$119,052	\$85,037	\$85,037	\$85,037	\$85,037	\$85,037	\$544,237	
SONCC-LTR.3.1.4									
	SONCC-LTR.3.1.4.1	\$0						\$0	SWRCB
	SONCC-LTR.3.1.4.2	\$0						\$0	SWRCB
	Action Total:	\$0						\$0	
SONCC-LTR.3.1.6									
	SONCC-LTR.3.1.6.1	\$36,770						\$36,770	SWRCB
	Action Total:	\$36,770						\$36,770	
SONCC-LTR.5.1.32									
	SONCC-LTR.5.1.32.1	\$17,008						\$17,008	USFS
	SONCC-LTR.5.1.32.2	\$715,905						\$715,905	USFS
	Action Total:	\$732,913						\$732,913	
SONCC-LTR.5.1.59									
	SONCC-LTR.5.1.59.1	\$17,008						\$17,008	USFS
	SONCC-LTR.5.1.59.2	\$715,905						\$715,905	USFS
	Action Total:	\$732,913						\$732,913	
SONCC-LTR.3.1.51									
	SONCC-LTR.3.1.51.1	\$36,077						\$36,077	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-LTR.3.1.51.2	\$36,077						\$36,077	CDFW
	SONCC-LTR.3.1.51.3	\$36,077						\$36,077	CDFW
	Action Total:	<i>\$108,231</i>						<i>\$108,231</i>	
SONCC-LTR.26.1.50	SONCC-LTR.26.1.50.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-LTR.14.2.14	SONCC-LTR.14.2.14.1	\$0						\$0	CDFW
	SONCC-LTR.14.2.14.2	\$5,112	\$5,112	\$5,112	\$5,112	\$5,112	\$5,112	\$30,672	CDFW
	Action Total:	<i>\$5,112</i>	<i>\$5,112</i>	<i>\$5,112</i>	<i>\$5,112</i>	<i>\$5,112</i>	<i>\$5,112</i>	<i>\$30,672</i>	
SONCC-LTR.8.1.13	SONCC-LTR.8.1.13.1	\$743,613						\$743,613	USFS
	SONCC-LTR.8.1.13.2	\$6,041,517						\$6,041,517	USFS
	SONCC-LTR.8.1.13.3	\$1,349,653						\$1,349,653	USFS
	SONCC-LTR.8.1.13.4	\$1,781,000					\$1,781,000	\$3,561,999	USFS
	Action Total:	<i>\$9,915,783</i>					<i>\$1,781,000</i>	<i>\$11,696,782</i>	
SONCC-LTR.8.1.60	SONCC-LTR.8.1.60.1	\$743,613						\$743,613	USFS
	SONCC-LTR.8.1.60.2	\$6,041,517						\$6,041,517	USFS
	SONCC-LTR.8.1.60.3	\$1,349,653						\$1,349,653	USFS
	SONCC-LTR.8.1.60.4	\$1,781,000					\$1,781,000	\$3,561,999	USFS
	Action Total:	<i>\$9,915,783</i>					<i>\$1,781,000</i>	<i>\$11,696,782</i>	
SONCC-LTR.3.1.2	SONCC-LTR.3.1.2.1	\$36,770						\$36,770	DWR
	SONCC-LTR.3.1.2.2	\$76,136						\$76,136	DWR
	Action Total:	<i>\$112,906</i>						<i>\$112,906</i>	
SONCC-LTR.3.1.39	SONCC-LTR.3.1.39.1	\$73,540						\$73,540	CDFW
	SONCC-LTR.3.1.39.2	\$36,770						\$36,770	CDFW
	SONCC-LTR.3.1.39.3	\$73,540						\$73,540	CDFW
	Action Total:	<i>\$183,850</i>						<i>\$183,850</i>	
SONCC-LTR.2.2.9	SONCC-LTR.2.2.9.1	\$17,008						\$17,008	CDFW
	SONCC-LTR.2.2.9.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-LTR.2.2.9.3	\$10,000						\$10,000	CDFW
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-LTR.2.2.57	SONCC-LTR.2.2.57.1	\$17,008						\$17,008	CDFW
	SONCC-LTR.2.2.57.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-LTR.2.2.57.3	\$10,000						\$10,000	CDFW
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-LTR.10.7.49	SONCC-LTR.10.7.49.1	\$8,504						\$8,504	CDFW
	SONCC-LTR.10.7.49.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-LTR.10.7.52	SONCC-LTR.10.7.52.1	\$8,504						\$8,504	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-LTR.10.7.52.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-LTR.2.2.10									
	SONCC-LTR.2.2.10.1	\$0						\$0	CDFW
	Action Total:	\$0						\$0	
SONCC-LTR.16.1.16									
	SONCC-LTR.16.1.16.1	\$34,015						\$34,015	NMFS
	SONCC-LTR.16.1.16.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-LTR.16.1.17									
	SONCC-LTR.16.1.17.1	\$34,015						\$34,015	NMFS
	SONCC-LTR.16.1.17.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-LTR.16.1.47									
	SONCC-LTR.16.1.47.1	\$34,015						\$34,015	NMFS
	SONCC-LTR.16.1.47.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-LTR.16.1.48									
	SONCC-LTR.16.1.48.1	\$34,015						\$34,015	BIA/Tribe
	SONCC-LTR.16.1.48.2	\$34,015						\$34,015	BIA/Tribe
	Action Total:	\$68,030						\$68,030	
SONCC-LTR.16.2.18									
	SONCC-LTR.16.2.18.1	\$34,015						\$34,015	NMFS
	SONCC-LTR.16.2.18.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-LTR.16.2.19									
	SONCC-LTR.16.2.19.1	\$34,015						\$34,015	NMFS
	SONCC-LTR.16.2.19.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-LTR.10.2.30									
	SONCC-LTR.10.2.30.1	\$76,136						\$76,136	RWQCB
	Action Total:	\$76,136						\$76,136	
SONCC-LTR.27.2.24									
	SONCC-LTR.27.2.24.1	\$136,060						\$136,060	CDFW
	SONCC-LTR.27.2.24.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-LTR.27.2.25									
	SONCC-LTR.27.2.25.1	\$418,179		\$418,179		\$418,179		\$1,254,537	CDFW
	Action Total:	\$418,179		\$418,179		\$418,179		\$1,254,537	
SONCC-LTR.27.2.26									
	SONCC-LTR.27.2.26.1	\$1,949,465		\$1,949,465		\$1,949,465		\$5,848,395	CDFW
	Action Total:	\$1,949,465		\$1,949,465		\$1,949,465		\$5,848,395	
SONCC-LTR.27.2.27									
	SONCC-LTR.27.2.27.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-LTR.27.2.27.2	\$34,015						\$34,015	CDFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-LTR.27.2.46									
	SONCC-LTR.27.2.46.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-LTR.27.1.34									
	SONCC-LTR.27.1.34.1	\$34,015						\$34,015	NMFS
	SONCC-LTR.27.1.34.2	\$0						\$0	NMFS
Action Total:		\$34,015						\$34,015	
SONCC-LTR.27.1.41									
	SONCC-LTR.27.1.41.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-LTR.27.1.45									
	SONCC-LTR.27.1.45.1	\$56,003	\$56,003	\$56,003	\$56,003	\$56,003	\$56,003	\$336,018	CDFW
Action Total:		\$56,003	\$56,003	\$56,003	\$56,003	\$56,003	\$56,003	\$336,018	
SONCC-LTR.27.1.20									
	SONCC-LTR.27.1.20.1	\$168,009	\$168,009	\$168,009	\$168,009	\$168,009	\$168,009	\$1,008,054	CDFW
Action Total:		\$168,009	\$168,009	\$168,009	\$168,009	\$168,009	\$168,009	\$1,008,054	
SONCC-LTR.27.1.21									
	SONCC-LTR.27.1.21.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	CDFW
Action Total:		\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	
SONCC-LTR.27.1.22									
	SONCC-LTR.27.1.22.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
Action Total:		\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-LTR.27.1.23									
	SONCC-LTR.27.1.23.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-LTR.27.1.23.2	\$13,084	\$13,084	\$13,084	\$13,084	\$13,084	\$13,084	\$78,504	CDFW
Action Total:		\$98,122	\$98,122	\$98,122	\$98,122	\$98,122	\$98,122	\$588,729	
SONCC-LTR.27.4.42									
	SONCC-LTR.27.4.42.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-LTR.27.4.43									
	SONCC-LTR.27.4.43.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-LTR.27.4.44									
	SONCC-LTR.27.4.44.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
Population Total:		\$49,472,801	\$2,149,530	\$4,503,404	\$2,149,530	\$4,503,404	\$5,711,529	\$68,490,198	
Population: Mad River									
SONCC-MadR.2.1.1									
	SONCC-MadR.2.1.1.1	\$17,008						\$17,008	CDFW
	SONCC-MadR.2.1.1.2	\$3,451,455						\$3,451,455	CDFW
Action Total:		\$3,468,463						\$3,468,463	
SONCC-MadR.2.1.50									
	SONCC-MadR.2.1.50.1	\$17,008						\$17,008	CDFW
	SONCC-MadR.2.1.50.2	\$3,451,455						\$3,451,455	CDFW
Action Total:		\$3,468,463						\$3,468,463	
SONCC-MadR.2.2.2									
	SONCC-MadR.2.2.2.1	\$17,008						\$17,008	CDFW
	SONCC-MadR.2.2.2.2	\$664,677						\$664,677	CDFW
Action Total:		\$681,685						\$681,685	
SONCC-MadR.2.2.51									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MadR.2.2.51.1	\$17,008						\$17,008	CDFW
	SONCC-MadR.2.2.51.2	\$664,677						\$664,677	CDFW
	Action Total:	<i>\$681,685</i>						<i>\$681,685</i>	
SONCC-MadR.8.1.13									
	SONCC-MadR.8.1.13.1	\$375,089						\$375,089	NGO
	SONCC-MadR.8.1.13.2	\$379,992						\$379,992	NGO
	Action Total:	<i>\$755,081</i>						<i>\$755,081</i>	
SONCC-MadR.8.1.15									
	SONCC-MadR.8.1.15.1	\$1,053,659						\$1,053,659	NGO
	SONCC-MadR.8.1.15.2	\$31,005,145						\$31,005,145	NGO
	SONCC-MadR.8.1.15.3	\$2,235,844						\$2,235,844	NGO
	SONCC-MadR.8.1.15.4	\$1,178,972					\$1,178,972	\$2,357,943	NGO
	Action Total:	<i>\$35,473,620</i>					<i>\$1,178,972</i>	<i>\$36,652,591</i>	
SONCC-MadR.8.1.16									
	SONCC-MadR.8.1.16.1	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-MadR.8.1.57									
	SONCC-MadR.8.1.57.1	\$375,089						\$375,089	NGO
	SONCC-MadR.8.1.57.2	\$379,992						\$379,992	NGO
	Action Total:	<i>\$755,081</i>						<i>\$755,081</i>	
SONCC-MadR.8.1.58									
	SONCC-MadR.8.1.58.1	\$1,053,659						\$1,053,659	NGO
	SONCC-MadR.8.1.58.2	\$31,005,145						\$31,005,145	NGO
	SONCC-MadR.8.1.58.3	\$2,235,844						\$2,235,844	NGO
	SONCC-MadR.8.1.58.4	\$1,178,972					\$1,178,972	\$2,357,943	NGO
	Action Total:	<i>\$35,473,620</i>					<i>\$1,178,972</i>	<i>\$36,652,591</i>	
SONCC-MadR.2.2.3									
	SONCC-MadR.2.2.3.1	\$34,015						\$34,015	NMFS
	SONCC-MadR.2.2.3.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MadR.8.1.14									
	SONCC-MadR.8.1.14.1	\$18,200						\$18,200	CDF
	SONCC-MadR.8.1.14.2	\$5,060,016						\$5,060,016	CDF
	Action Total:	<i>\$5,078,216</i>						<i>\$5,078,216</i>	
SONCC-MadR.5.1.10									
	SONCC-MadR.5.1.10.1	\$22,270						\$22,270	Caltrans
	SONCC-MadR.5.1.10.2	\$218,023						\$218,023	Caltrans
	Action Total:	<i>\$240,293</i>						<i>\$240,293</i>	
SONCC-MadR.5.1.37									
	SONCC-MadR.5.1.37.1	\$62,640						\$62,640	CDFW
	SONCC-MadR.5.1.37.2	\$1,779,084						\$1,779,084	CDFW
	SONCC-MadR.5.1.37.3	\$25,563						\$25,563	CDFW
	Action Total:	<i>\$1,867,287</i>						<i>\$1,867,287</i>	
SONCC-MadR.5.1.53									
	SONCC-MadR.5.1.53.1	\$22,270						\$22,270	Caltrans
	SONCC-MadR.5.1.53.2	\$218,023						\$218,023	Caltrans
	Action Total:	<i>\$240,293</i>						<i>\$240,293</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MadR.5.1.54	SONCC-MadR.5.1.54.1	\$62,640						\$62,640	CDFW
	SONCC-MadR.5.1.54.2	\$1,779,084						\$1,779,084	CDFW
	SONCC-MadR.5.1.54.3	\$25,563						\$25,563	CDFW
	Action Total:	<i>\$1,867,287</i>						<i>\$1,867,287</i>	
SONCC-MadR.1.1.4	SONCC-MadR.1.1.4.1	\$34,015						\$34,015	CDFW
	SONCC-MadR.1.1.4.2	\$593,022						\$593,022	CDFW
	Action Total:	<i>\$627,037</i>						<i>\$627,037</i>	
SONCC-MadR.7.1.6	SONCC-MadR.7.1.6.1	\$17,077						\$17,077	CDF
	Action Total:	<i>\$17,077</i>						<i>\$17,077</i>	
SONCC-MadR.7.1.8	SONCC-MadR.7.1.8.1	\$5,669						\$5,669	CDF
	SONCC-MadR.7.1.8.2	\$34,015	\$34,015	\$34,015	\$34,015	\$34,015	\$34,015	\$204,090	CDF
	Action Total:	<i>\$39,684</i>	<i>\$34,015</i>	<i>\$34,015</i>	<i>\$34,015</i>	<i>\$34,015</i>	<i>\$34,015</i>	<i>\$209,759</i>	
SONCC-MadR.26.1.48	SONCC-MadR.26.1.48.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-MadR.5.1.9	SONCC-MadR.5.1.9.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-MadR.5.1.9.2	\$145,350						\$145,350	BIA/Tribe
	Action Total:	<i>\$162,358</i>						<i>\$162,358</i>	
SONCC-MadR.5.1.55	SONCC-MadR.5.1.55.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-MadR.5.1.55.2	\$145,350						\$145,350	BIA/Tribe
	Action Total:	<i>\$162,358</i>						<i>\$162,358</i>	
SONCC-MadR.1.2.36	SONCC-MadR.1.2.36.1	\$34,015						\$34,015	CDFW
	SONCC-MadR.1.2.36.2	\$34,015						\$34,015	CDFW
	SONCC-MadR.1.2.36.3	\$341,075						\$341,075	CDFW
	Action Total:	<i>\$409,105</i>						<i>\$409,105</i>	
SONCC-MadR.3.1.18	SONCC-MadR.3.1.18.1	\$34,015						\$34,015	NMFS
	SONCC-MadR.3.1.18.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MadR.3.1.19	SONCC-MadR.3.1.19.1	\$17,008						\$17,008	CDFW
	SONCC-MadR.3.1.19.2	\$17,008						\$17,008	CDFW
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-MadR.3.1.41	SONCC-MadR.3.1.41.1	\$73,540						\$73,540	CDFW
	SONCC-MadR.3.1.41.2	\$36,770						\$36,770	CDFW
	SONCC-MadR.3.1.41.3	\$73,540						\$73,540	CDFW
	Action Total:	<i>\$183,850</i>						<i>\$183,850</i>	
SONCC-MadR.3.1.52	SONCC-MadR.3.1.52.1	\$17,008						\$17,008	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MadR.3.1.52.2	\$17,008						\$17,008	CDFW
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-MadR.7.1.5									
	SONCC-MadR.7.1.5.1	\$34,015						\$34,015	Private
	SONCC-MadR.7.1.5.2	\$485,792						\$485,792	Private
	SONCC-MadR.7.1.5.3	\$3,530,261						\$3,530,261	Private
	SONCC-MadR.7.1.5.4	\$158,614						\$158,614	Private
	SONCC-MadR.7.1.5.5	\$0						\$0	USFS
	Action Total:	<i>\$4,208,682</i>						<i>\$4,208,682</i>	
SONCC-MadR.7.1.7									
	SONCC-MadR.7.1.7.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MadR.7.1.7.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-MadR.7.1.7.3	\$374,880						\$374,880	NRCS/RCD
	SONCC-MadR.7.1.7.4	\$20,638						\$20,638	NRCS/RCD
	SONCC-MadR.7.1.7.5	\$911						\$911	NRCS/RCD
	Action Total:	<i>\$430,444</i>						<i>\$430,444</i>	
SONCC-MadR.7.1.56									
	SONCC-MadR.7.1.56.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MadR.7.1.56.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-MadR.7.1.56.3	\$374,880						\$374,880	NRCS/RCD
	SONCC-MadR.7.1.56.4	\$20,638						\$20,638	NRCS/RCD
	SONCC-MadR.7.1.56.5	\$911						\$911	NRCS/RCD
	Action Total:	<i>\$430,444</i>						<i>\$430,444</i>	
SONCC-MadR.16.1.21									
	SONCC-MadR.16.1.21.1	\$34,015						\$34,015	NMFS
	SONCC-MadR.16.1.21.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MadR.16.1.22									
	SONCC-MadR.16.1.22.1	\$34,015						\$34,015	NMFS
	SONCC-MadR.16.1.22.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MadR.16.2.23									
	SONCC-MadR.16.2.23.1	\$34,015						\$34,015	NMFS
	SONCC-MadR.16.2.23.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MadR.16.2.24									
	SONCC-MadR.16.2.24.1	\$34,015						\$34,015	NMFS
	SONCC-MadR.16.2.24.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MadR.17.2.12									
	SONCC-MadR.17.2.12.1	\$34,015						\$34,015	CDFW
	SONCC-MadR.17.2.12.2	\$68,030						\$68,030	CDFW
	Action Total:	<i>\$102,045</i>						<i>\$102,045</i>	
SONCC-MadR.10.2.20									
	SONCC-MadR.10.2.20.1	\$0						\$0	EPA
	SONCC-MadR.10.2.20.2	\$0						\$0	RWQCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MadR.10.7.47									
	SONCC-MadR.10.7.47.1	\$8,504						\$8,504	CDFW
	SONCC-MadR.10.7.47.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-MadR.10.7.49									
	SONCC-MadR.10.7.49.1	\$8,504						\$8,504	CDFW
	SONCC-MadR.10.7.49.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-MadR.27.2.30									
	SONCC-MadR.27.2.30.1	\$136,060						\$136,060	CDFW
	SONCC-MadR.27.2.30.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	<i>\$136,060</i>	<i>\$81,800</i>		<i>\$81,800</i>		<i>\$81,800</i>	<i>\$381,460</i>	
SONCC-MadR.27.2.31									
	SONCC-MadR.27.2.31.1	\$778,975		\$778,975		\$778,975		\$2,336,925	CDFW
	Action Total:	<i>\$778,975</i>		<i>\$778,975</i>		<i>\$778,975</i>		<i>\$2,336,925</i>	
SONCC-MadR.27.2.32									
	SONCC-MadR.27.2.32.1	\$778,975		\$778,975		\$778,975		\$2,336,925	CDFW
	Action Total:	<i>\$778,975</i>		<i>\$778,975</i>		<i>\$778,975</i>		<i>\$2,336,925</i>	
SONCC-MadR.27.2.33									
	SONCC-MadR.27.2.33.1	\$778,975		\$778,975		\$778,975		\$2,336,925	CDFW
	Action Total:	<i>\$778,975</i>		<i>\$778,975</i>		<i>\$778,975</i>		<i>\$2,336,925</i>	
SONCC-MadR.27.2.34									
	SONCC-MadR.27.2.34.1	\$778,975		\$778,975		\$778,975		\$2,336,925	CDFW
	Action Total:	<i>\$778,975</i>		<i>\$778,975</i>		<i>\$778,975</i>		<i>\$2,336,925</i>	
SONCC-MadR.27.2.35									
	SONCC-MadR.27.2.35.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-MadR.27.2.40									
	SONCC-MadR.27.2.40.1	\$68,030						\$68,030	CDFW
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MadR.27.2.45									
	SONCC-MadR.27.2.45.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-MadR.27.2.46									
	SONCC-MadR.27.2.46.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-MadR.27.1.25									
	SONCC-MadR.27.1.25.1	\$229,305	\$229,305	\$229,305	\$229,305	\$229,305	\$229,305	\$1,375,830	CDFW
	Action Total:	<i>\$229,305</i>	<i>\$229,305</i>	<i>\$229,305</i>	<i>\$229,305</i>	<i>\$229,305</i>	<i>\$229,305</i>	<i>\$1,375,830</i>	
SONCC-MadR.27.1.26									
	SONCC-MadR.27.1.26.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	Action Total:	<i>\$68,030</i>		<i>\$68,030</i>		<i>\$68,030</i>		<i>\$204,090</i>	
SONCC-MadR.27.1.27									
	SONCC-MadR.27.1.27.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-MadR.27.1.28									
	SONCC-MadR.27.1.28.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-MadR.27.1.29									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MadR.27.1.29.1	SONCC-MadR.27.1.29.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-MadR.27.1.38									
SONCC-MadR.27.1.38.1	SONCC-MadR.27.1.38.1	\$76,435	\$76,435	\$76,435	\$76,435	\$76,435	\$76,435	\$458,610	CDFW
	Action Total:	\$76,435	\$76,435	\$76,435	\$76,435	\$76,435	\$76,435	\$458,610	
SONCC-MadR.27.1.39									
SONCC-MadR.27.1.39.1	SONCC-MadR.27.1.39.1	\$34,015						\$34,015	NMFS
	SONCC-MadR.27.1.39.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-MadR.27.4.42									
SONCC-MadR.27.4.42.1	SONCC-MadR.27.4.42.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-MadR.27.4.43									
SONCC-MadR.27.4.43.1	SONCC-MadR.27.4.43.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-MadR.27.4.44									
SONCC-MadR.27.4.44.1	SONCC-MadR.27.4.44.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
Population Total:		\$101,777,080	\$1,119,478	\$4,255,623	\$1,119,478	\$4,255,623	\$3,477,421	\$116,004,701	
Population: Mainstem Eel River									
SONCC-MER.2.1.37									
SONCC-MER.2.1.37.1	SONCC-MER.2.1.37.1	\$17,008						\$17,008	CDFW
	SONCC-MER.2.1.37.2	\$227,084						\$227,084	CDFW
	Action Total:	\$244,092						\$244,092	
SONCC-MER.2.1.9									
SONCC-MER.2.1.9.1	SONCC-MER.2.1.9.1	\$17,008						\$17,008	CDFW
	SONCC-MER.2.1.9.2	\$575,243						\$575,243	CDFW
	Action Total:	\$592,250						\$592,250	
SONCC-MER.2.1.62									
SONCC-MER.2.1.62.1	SONCC-MER.2.1.62.1	\$17,008						\$17,008	CDFW
	SONCC-MER.2.1.62.2	\$227,084						\$227,084	CDFW
	Action Total:	\$244,092						\$244,092	
SONCC-MER.2.1.63									
SONCC-MER.2.1.63.1	SONCC-MER.2.1.63.1	\$17,008						\$17,008	CDFW
	SONCC-MER.2.1.63.2	\$575,243						\$575,243	CDFW
	Action Total:	\$592,250						\$592,250	
SONCC-MER.10.3.36									
SONCC-MER.10.3.36.1	SONCC-MER.10.3.36.1	\$0						\$0	CDFW
	Action Total:	\$0						\$0	
SONCC-MER.10.3.60									
SONCC-MER.10.3.60.1	SONCC-MER.10.3.60.1	\$0						\$0	CDFW
	Action Total:	\$0						\$0	
SONCC-MER.2.2.8									
SONCC-MER.2.2.8.1	SONCC-MER.2.2.8.1	\$17,008						\$17,008	CDFW
	SONCC-MER.2.2.8.2	\$107,371						\$107,371	CDFW
	Action Total:	\$124,378						\$124,378	
SONCC-MER.2.2.64									
SONCC-MER.2.2.64.1	SONCC-MER.2.2.64.1	\$17,008						\$17,008	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MER.2.2.64.2	\$107,371						\$107,371	CDFW
	Action Total:	<i>\$124,378</i>						<i>\$124,378</i>	
SONCC-MER.14.2.2									
	SONCC-MER.14.2.2.1	\$68,030						\$68,030	CDFW
	SONCC-MER.14.2.2.2	\$2,959,250						\$2,959,250	CDFW
	Action Total:	<i>\$3,027,280</i>						<i>\$3,027,280</i>	
SONCC-MER.10.1.35									
	SONCC-MER.10.1.35.1	\$17,008						\$17,008	CDFW
	SONCC-MER.10.1.35.2	\$567,025						\$567,025	CDFW
	SONCC-MER.10.1.35.3	\$18,053						\$18,053	CDFW
	Action Total:	<i>\$602,085</i>						<i>\$602,085</i>	
SONCC-MER.10.1.59									
	SONCC-MER.10.1.59.1	\$17,008						\$17,008	CDFW
	SONCC-MER.10.1.59.2	\$567,025						\$567,025	CDFW
	SONCC-MER.10.1.59.3	\$18,053						\$18,053	CDFW
	Action Total:	<i>\$602,085</i>						<i>\$602,085</i>	
SONCC-MER.1.2.31									
	SONCC-MER.1.2.31.1	\$0						\$0	CDFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-MER.3.1.53									
	SONCC-MER.3.1.53.1	\$0						\$0	SWRCB
	SONCC-MER.3.1.53.2	\$0						\$0	SWRCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-MER.3.1.58									
	SONCC-MER.3.1.58.1	\$18,385						\$18,385	SWRCB
	SONCC-MER.3.1.58.2	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-MER.3.1.67									
	SONCC-MER.3.1.67.1	\$18,385						\$18,385	SWRCB
	SONCC-MER.3.1.67.2	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-MER.5.1.33									
	SONCC-MER.5.1.33.1	\$159,090						\$159,090	CDFW
	Action Total:	<i>\$159,090</i>						<i>\$159,090</i>	
SONCC-MER.5.1.13									
	SONCC-MER.5.1.13.1	\$22,270						\$22,270	CDFW
	SONCC-MER.5.1.13.2	\$610,463						\$610,463	CDFW
	Action Total:	<i>\$632,733</i>						<i>\$632,733</i>	
SONCC-MER.5.1.68									
	SONCC-MER.5.1.68.1	\$22,270						\$22,270	CDFW
	SONCC-MER.5.1.68.2	\$610,463						\$610,463	CDFW
	Action Total:	<i>\$632,733</i>						<i>\$632,733</i>	
SONCC-MER.3.1.39									
	SONCC-MER.3.1.39.1	\$73,540						\$73,540	CDFW
	SONCC-MER.3.1.39.2	\$73,540						\$73,540	CDFW
	SONCC-MER.3.1.39.3	\$36,770						\$36,770	CDFW
	Action Total:	<i>\$183,850</i>						<i>\$183,850</i>	
SONCC-MER.3.1.4									

SONCC-MER.3.1.4

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MER.3.1.4.1	\$36,077						\$36,077	CDFW
	SONCC-MER.3.1.4.2	\$36,077						\$36,077	CDFW
	SONCC-MER.3.1.4.3	\$36,077						\$36,077	CDFW
	Action Total:	\$108,231						\$108,231	
SONCC-MER.3.1.5									
	SONCC-MER.3.1.5.1	\$38,068						\$38,068	SWRCB
	Action Total:	\$38,068						\$38,068	
SONCC-MER.3.1.6									
	SONCC-MER.3.1.6.1	\$350,000						\$350,000	NGO
	SONCC-MER.3.1.6.2	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$15,000	NGO
	Action Total:	\$352,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$365,000	
SONCC-MER.3.1.56									
	SONCC-MER.3.1.56.1	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	SWRCB
	Action Total:	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	
SONCC-MER.3.1.65									
	SONCC-MER.3.1.65.1	\$38,068						\$38,068	SWRCB
	Action Total:	\$38,068						\$38,068	
SONCC-MER.3.1.66									
	SONCC-MER.3.1.66.1	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	SWRCB
	Action Total:	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	
SONCC-MER.26.1.1									
	SONCC-MER.26.1.1.1	\$68,030						\$68,030	CDFW
	SONCC-MER.26.1.1.2	\$500,000						\$500,000	CDFW
	SONCC-MER.26.1.1.3	\$600,000	\$600,000	\$600,000				\$1,800,000	CDFW
	SONCC-MER.26.1.1.4	\$1,250,000	\$1,250,000	\$1,250,000				\$3,750,000	CDFW
	Action Total:	\$2,418,030	\$1,850,000	\$1,850,000				\$6,118,030	
SONCC-MER.26.1.57									
	SONCC-MER.26.1.57.1	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	
SONCC-MER.3.1.34									
	SONCC-MER.3.1.34.1	\$34,015						\$34,015	CDFW
	SONCC-MER.3.1.34.2	\$34,015						\$34,015	CDFW
	Action Total:	\$68,030						\$68,030	
SONCC-MER.3.1.55									
	SONCC-MER.3.1.55.1	\$36,770						\$36,770	SWRCB
	Action Total:	\$36,770						\$36,770	
SONCC-MER.7.1.12									
	SONCC-MER.7.1.12.1	\$5,669						\$5,669	CDF
	Action Total:	\$5,669						\$5,669	
SONCC-MER.8.1.14									
	SONCC-MER.8.1.14.1	\$466,177						\$466,177	CDFW
	SONCC-MER.8.1.14.2	\$32,227,895						\$32,227,895	CDFW
	SONCC-MER.8.1.14.3	\$4,245,540						\$4,245,540	CDFW
	SONCC-MER.8.1.14.4	\$1,243,475	\$1,243,475	\$1,243,475	\$1,243,475	\$1,243,475	\$1,243,475	\$7,460,847	CDFW
	Action Total:	\$38,183,086	\$1,243,475	\$1,243,475	\$1,243,475	\$1,243,475	\$1,243,475	\$44,400,459	
SONCC-MER.8.1.16									
	SONCC-MER.8.1.16.1	\$395,765						\$395,765	CDF
	SONCC-MER.8.1.16.2	\$1,078,916						\$1,078,916	CDF

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$1,474,681						\$1,474,681	
SONCC-MER.8.1.17									
	SONCC-MER.8.1.17.1	\$34,015						\$34,015	CDF
	SONCC-MER.8.1.17.2	\$34,015						\$34,015	CDF
Action Total:		\$68,030						\$68,030	
SONCC-MER.8.1.69									
	SONCC-MER.8.1.69.1	\$466,177						\$466,177	CDFW
	SONCC-MER.8.1.69.2	\$32,227,895						\$32,227,895	CDFW
	SONCC-MER.8.1.69.3	\$4,245,540						\$4,245,540	CDFW
	SONCC-MER.8.1.69.4	\$1,243,475	\$1,243,475	\$1,243,475	\$1,243,475	\$1,243,475	\$1,243,475	\$7,460,847	CDFW
Action Total:		\$38,183,086	\$1,243,475	\$1,243,475	\$1,243,475	\$1,243,475	\$1,243,475	\$44,400,459	
SONCC-MER.8.1.70									
	SONCC-MER.8.1.70.1	\$395,765						\$395,765	CDF
	SONCC-MER.8.1.70.2	\$1,078,916						\$1,078,916	CDF
Action Total:		\$1,474,681						\$1,474,681	
SONCC-MER.10.7.52									
	SONCC-MER.10.7.52.1	\$8,504						\$8,504	CDFW
	SONCC-MER.10.7.52.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
Action Total:		\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-MER.10.7.61									
	SONCC-MER.10.7.61.1	\$8,504						\$8,504	CDFW
	SONCC-MER.10.7.61.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
Action Total:		\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-MER.3.1.3									
	SONCC-MER.3.1.3.1	\$8,503						\$8,503	County
Action Total:		\$8,503						\$8,503	
SONCC-MER.3.1.7									
	SONCC-MER.3.1.7.1	\$76,136						\$76,136	SWRCB
Action Total:		\$76,136						\$76,136	
SONCC-MER.7.1.10									
	SONCC-MER.7.1.10.1	\$34,015						\$34,015	CDF
	SONCC-MER.7.1.10.2	\$79,261						\$79,261	CDF
	SONCC-MER.7.1.10.3	\$572,098						\$572,098	CDF
Action Total:		\$685,373						\$685,373	
SONCC-MER.16.1.19									
	SONCC-MER.16.1.19.1	\$34,015						\$34,015	NMFS
	SONCC-MER.16.1.19.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-MER.16.1.20									
	SONCC-MER.16.1.20.1	\$34,015						\$34,015	NMFS
	SONCC-MER.16.1.20.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-MER.16.2.21									
	SONCC-MER.16.2.21.1	\$34,015						\$34,015	NMFS
	SONCC-MER.16.2.21.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-MER.16.2.22									
	SONCC-MER.16.2.22.1	\$34,015						\$34,015	NMFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MER.16.2.22.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-MER.8.1.15									
	SONCC-MER.8.1.15.1	\$2,267						\$2,267	County
	Action Total:	\$2,267						\$2,267	
SONCC-MER.27.2.47									
	SONCC-MER.27.2.47.1	\$68,030						\$68,030	CDFW
	Action Total:	\$68,030						\$68,030	
SONCC-MER.27.2.48									
	SONCC-MER.27.2.48.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-MER.27.2.40									
	SONCC-MER.27.2.40.1	\$690,280		\$690,280		\$690,280		\$2,070,840	CDFW
	Action Total:	\$690,280		\$690,280		\$690,280		\$2,070,840	
SONCC-MER.27.2.41									
	SONCC-MER.27.2.41.1	\$690,280		\$690,280		\$690,280		\$2,070,840	CDFW
	Action Total:	\$690,280		\$690,280		\$690,280		\$2,070,840	
SONCC-MER.27.2.42									
	SONCC-MER.27.2.42.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-MER.27.2.42.2	\$34,015						\$34,015	CDFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-MER.27.2.43									
	SONCC-MER.27.2.43.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-MER.27.2.27									
	SONCC-MER.27.2.27.1	\$136,060						\$136,060	CDFW
	SONCC-MER.27.2.27.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-MER.27.2.28									
	SONCC-MER.27.2.28.1	\$690,280		\$690,280		\$690,280		\$2,070,840	CDFW
	Action Total:	\$690,280		\$690,280		\$690,280		\$2,070,840	
SONCC-MER.27.2.29									
	SONCC-MER.27.2.29.1	\$690,280		\$690,280		\$690,280		\$2,070,840	CDFW
	Action Total:	\$690,280		\$690,280		\$690,280		\$2,070,840	
SONCC-MER.27.2.51									
	SONCC-MER.27.2.51.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-MER.27.1.30									
	SONCC-MER.27.1.30.1	\$71,952	\$71,952	\$71,952	\$71,952	\$71,952	\$71,952	\$431,712	CDFW
	Action Total:	\$71,952	\$71,952	\$71,952	\$71,952	\$71,952	\$71,952	\$431,712	
SONCC-MER.27.1.32									
	SONCC-MER.27.1.32.1	\$34,015						\$34,015	NMFS
	SONCC-MER.27.1.32.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-MER.27.1.23									
	SONCC-MER.27.1.23.1	\$116,550	\$116,550	\$116,550	\$116,550	\$116,550	\$116,550	\$699,300	CDFW
	Action Total:	\$116,550	\$116,550	\$116,550	\$116,550	\$116,550	\$116,550	\$699,300	
SONCC-MER.27.1.24									
	SONCC-MER.27.1.24.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-MER.27.1.25									
	SONCC-MER.27.1.25.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-MER.27.1.26									
	SONCC-MER.27.1.26.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-MER.27.1.26.2	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	CDFW
Action Total:		\$102,045	\$102,045	\$102,045	\$102,045	\$102,045	\$102,045	\$612,270	
SONCC-MER.27.1.50									
	SONCC-MER.27.1.50.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	CDFW
Action Total:		\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	
SONCC-MER.27.4.44									
	SONCC-MER.27.4.44.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-MER.27.4.45									
	SONCC-MER.27.4.45.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-MER.27.4.46									
	SONCC-MER.27.4.46.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-MER.27.4.49									
	SONCC-MER.27.4.49.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
Action Total:		\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-MER.7.1.11									
	SONCC-MER.7.1.11.1							\$0	CDF
	SONCC-MER.7.1.11.2							\$0	CDF
Action Total:								\$0	
Population Total:		\$96,787,689	\$6,665,574	\$9,446,939	\$4,815,574	\$7,596,939	\$4,815,574	\$130,128,286	
Population: Maple Creek									
SONCC-MapC.8.1.4									
	SONCC-MapC.8.1.4.1	\$188,183						\$188,183	NGO
	SONCC-MapC.8.1.4.2	\$7,178,040						\$7,178,040	NGO
	SONCC-MapC.8.1.4.3	\$85,089						\$85,089	NGO
	SONCC-MapC.8.1.4.4	\$112,283					\$112,283	\$224,566	NGO
Action Total:		\$7,563,595					\$112,283	\$7,675,878	
SONCC-MapC.8.1.34									
	SONCC-MapC.8.1.34.1	\$188,183						\$188,183	NGO
	SONCC-MapC.8.1.34.2	\$7,178,040						\$7,178,040	NGO
	SONCC-MapC.8.1.34.3	\$85,089						\$85,089	NGO
	SONCC-MapC.8.1.34.4	\$112,283					\$112,283	\$224,566	NGO
Action Total:		\$7,563,595					\$112,283	\$7,675,878	
SONCC-MapC.1.2.21									
	SONCC-MapC.1.2.21.1	\$34,015						\$34,015	CDFW
	SONCC-MapC.1.2.21.2	\$34,015						\$34,015	CDFW
	SONCC-MapC.1.2.21.3	\$341,075						\$341,075	CDFW
Action Total:		\$409,105						\$409,105	
SONCC-MapC.1.3.6									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MapC.1.3.6.1	\$44,540						\$44,540	Caltrans
	SONCC-MapC.1.3.6.2	\$1,556,400						\$1,556,400	Caltrans
	Action Total:	<i>\$1,600,940</i>						<i>\$1,600,940</i>	
SONCC-MapC.2.1.1									
	SONCC-MapC.2.1.1.1	\$17,008						\$17,008	NGO
	SONCC-MapC.2.1.1.2	\$1,040,915						\$1,040,915	NGO
	Action Total:	<i>\$1,057,923</i>						<i>\$1,057,923</i>	
SONCC-MapC.2.1.31									
	SONCC-MapC.2.1.31.1	\$17,008						\$17,008	NGO
	SONCC-MapC.2.1.31.2	\$1,040,915						\$1,040,915	NGO
	Action Total:	<i>\$1,057,923</i>						<i>\$1,057,923</i>	
SONCC-MapC.2.2.2									
	SONCC-MapC.2.2.2.1	\$17,008						\$17,008	NGO
	SONCC-MapC.2.2.2.2	\$194,290						\$194,290	NGO
	Action Total:	<i>\$211,298</i>						<i>\$211,298</i>	
SONCC-MapC.2.2.32									
	SONCC-MapC.2.2.32.1	\$17,008						\$17,008	NGO
	SONCC-MapC.2.2.32.2	\$194,290						\$194,290	NGO
	Action Total:	<i>\$211,298</i>						<i>\$211,298</i>	
SONCC-MapC.2.2.29									
	SONCC-MapC.2.2.29.1	\$17,008						\$17,008	CDFW
	SONCC-MapC.2.2.29.2	\$204,516						\$204,516	CDFW
	Action Total:	<i>\$221,524</i>						<i>\$221,524</i>	
SONCC-MapC.2.2.33									
	SONCC-MapC.2.2.33.1	\$17,008						\$17,008	CDFW
	SONCC-MapC.2.2.33.2	\$204,516						\$204,516	CDFW
	Action Total:	<i>\$221,524</i>						<i>\$221,524</i>	
SONCC-MapC.1.3.7									
	SONCC-MapC.1.3.7.1	\$44,540						\$44,540	Private
	SONCC-MapC.1.3.7.2	\$568,181						\$568,181	Private
	Action Total:	<i>\$612,721</i>						<i>\$612,721</i>	
SONCC-MapC.14.3.9									
	SONCC-MapC.14.3.9.1	\$34,015						\$34,015	CDFW
	SONCC-MapC.14.3.9.2	\$15,736	\$15,736	\$15,736	\$15,736	\$15,736	\$15,736	\$94,416	CDFW
	Action Total:	<i>\$49,751</i>	<i>\$15,736</i>	<i>\$15,736</i>	<i>\$15,736</i>	<i>\$15,736</i>	<i>\$15,736</i>	<i>\$128,431</i>	
SONCC-MapC.14.2.8									
	SONCC-MapC.14.2.8.1	\$34,015						\$34,015	CDFW
	SONCC-MapC.14.2.8.2	\$19,950						\$19,950	CDFW
	Action Total:	<i>\$53,965</i>						<i>\$53,965</i>	
SONCC-MapC.7.1.3									
	SONCC-MapC.7.1.3.1	\$34,015						\$34,015	NGO
	SONCC-MapC.7.1.3.2	\$145,738						\$145,738	NGO
	SONCC-MapC.7.1.3.3	\$1,060,474						\$1,060,474	NGO
	Action Total:	<i>\$1,240,226</i>						<i>\$1,240,226</i>	
SONCC-MapC.26.1.28									
	SONCC-MapC.26.1.28.1	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$306,750</i>	
SONCC-MapC.10.7.27									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MapC.10.7.27.1	\$8,504						\$8,504	CDFW
	SONCC-MapC.10.7.27.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-MapC.10.7.30									
	SONCC-MapC.10.7.30.1	\$8,504						\$8,504	CDFW
	SONCC-MapC.10.7.30.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-MapC.16.1.11									
	SONCC-MapC.16.1.11.1	\$34,015						\$34,015	NMFS
	SONCC-MapC.16.1.11.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-MapC.16.2.12									
	SONCC-MapC.16.2.12.1	\$34,015						\$34,015	NMFS
	SONCC-MapC.16.2.12.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-MapC.16.2.13									
	SONCC-MapC.16.2.13.1	\$34,015						\$34,015	NMFS
	SONCC-MapC.16.2.13.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-MapC.27.2.17									
	SONCC-MapC.27.2.17.1	\$136,060						\$136,060	CDFW
	SONCC-MapC.27.2.17.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-MapC.27.2.18									
	SONCC-MapC.27.2.18.1	\$56,859		\$56,859		\$56,859		\$170,577	CDFW
	Action Total:	\$56,859		\$56,859		\$56,859		\$170,577	
SONCC-MapC.27.2.19									
	SONCC-MapC.27.2.19.1	\$56,859		\$56,859		\$56,859		\$170,577	CDFW
	Action Total:	\$56,859		\$56,859		\$56,859		\$170,577	
SONCC-MapC.27.2.20									
	SONCC-MapC.27.2.20.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-MapC.27.2.23									
	SONCC-MapC.27.2.23.1	\$68,030						\$68,030	CDFW
	Action Total:	\$68,030						\$68,030	
SONCC-MapC.27.2.24									
	SONCC-MapC.27.2.24.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-MapC.27.2.24.2	\$34,015						\$34,015	CDFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-MapC.27.2.26									
	SONCC-MapC.27.2.26.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-MapC.27.1.15									
	SONCC-MapC.27.1.15.1	\$20,650	\$20,650	\$20,650	\$20,650	\$20,650	\$20,650	\$123,900	CDFW
	Action Total:	\$20,650	\$20,650	\$20,650	\$20,650	\$20,650	\$20,650	\$123,900	
SONCC-MapC.27.1.16									
	SONCC-MapC.27.1.16.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MapC.27.1.22									
	SONCC-MapC.27.1.22.1	\$34,015						\$34,015	NMFS
	SONCC-MapC.27.1.22.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-MapC.27.4.25									
	SONCC-MapC.27.4.25.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MapC.8.1.5									
	SONCC-MapC.8.1.5.1							\$0	County
	Action Total:							<i>\$0</i>	
SONCC-MapC.16.1.10									
	SONCC-MapC.16.1.10.1							\$0	NMFS
	SONCC-MapC.16.1.10.2							\$0	NMFS
	Action Total:							<i>\$0</i>	
	Population Total:	<i>\$23,143,354</i>	<i>\$498,419</i>	<i>\$564,352</i>	<i>\$498,419</i>	<i>\$564,352</i>	<i>\$722,985</i>	<i>\$25,991,878</i>	
Population: Mattole River									
SONCC-MatR.3.1.3									
	SONCC-MatR.3.1.3.1	\$36,077						\$36,077	CDFW
	SONCC-MatR.3.1.3.2	\$36,077						\$36,077	CDFW
	SONCC-MatR.3.1.3.3	\$36,077						\$36,077	CDFW
	Action Total:	<i>\$108,231</i>						<i>\$108,231</i>	
SONCC-MatR.3.1.6									
	SONCC-MatR.3.1.6.1	\$247,000	\$247,000	\$247,000	\$247,000	\$247,000	\$247,000	\$1,482,000	SWRCB
	Action Total:	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$1,482,000</i>	
SONCC-MatR.26.1.47									
	SONCC-MatR.26.1.47.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-MatR.26.1.1									
	SONCC-MatR.26.1.1.1	\$68,030						\$68,030	NGO
	SONCC-MatR.26.1.1.2	\$17,000						\$17,000	NGO
	SONCC-MatR.26.1.1.3	\$500,000						\$500,000	NGO
	SONCC-MatR.26.1.1.4	\$600,000	\$600,000	\$600,000				\$1,800,000	NGO
	SONCC-MatR.26.1.1.5	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000			\$5,000,000	NGO
	Action Total:	<i>\$2,435,030</i>	<i>\$1,850,000</i>	<i>\$1,850,000</i>	<i>\$1,250,000</i>			<i>\$7,385,030</i>	
SONCC-MatR.3.1.5									
	SONCC-MatR.3.1.5.1	\$175,000	\$175,000					\$350,000	CDFW
	SONCC-MatR.3.1.5.2	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$7,500	CDFW
	Action Total:	<i>\$176,250</i>	<i>\$176,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$357,500</i>	
SONCC-MatR.3.1.7									
	SONCC-MatR.3.1.7.1	\$0						\$0	SWRCB
	SONCC-MatR.3.1.7.2							\$0	SWRCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-MatR.3.1.61									
	SONCC-MatR.3.1.61.1	\$175,000	\$175,000					\$350,000	CDFW
	SONCC-MatR.3.1.61.2	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$7,500	CDFW
	Action Total:	<i>\$176,250</i>	<i>\$176,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$357,500</i>	
SONCC-MatR.2.1.68									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MatR.2.1.68.1	\$36,077						\$36,077	NGO
	SONCC-MatR.2.1.68.2	\$36,077						\$36,077	NGO
	SONCC-MatR.2.1.68.3	\$350,000						\$350,000	NGO
	Action Total:	\$422,154						\$422,154	
SONCC-MatR.2.1.12									
	SONCC-MatR.2.1.12.1	\$17,008						\$17,008	NGO
	SONCC-MatR.2.1.12.2	\$2,520,110						\$2,520,110	NGO
	Action Total:	\$2,537,118						\$2,537,118	
SONCC-MatR.2.1.58									
	SONCC-MatR.2.1.58.1	\$17,008						\$17,008	NGO
	SONCC-MatR.2.1.58.2	\$2,520,110						\$2,520,110	NGO
	Action Total:	\$2,537,118						\$2,537,118	
SONCC-MatR.3.2.10									
	SONCC-MatR.3.2.10.1	\$17,008						\$17,008	NGO
	SONCC-MatR.3.2.10.2	\$3,000,000						\$3,000,000	NGO
	SONCC-MatR.3.2.10.3	\$62,500	\$62,500					\$125,000	NGO
	Action Total:	\$3,079,508	\$62,500					\$3,142,008	
SONCC-MatR.3.2.62									
	SONCC-MatR.3.2.62.1	\$17,008						\$17,008	NGO
	SONCC-MatR.3.2.62.2	\$3,000,000						\$3,000,000	NGO
	SONCC-MatR.3.2.62.3	\$62,500	\$62,500					\$125,000	NGO
	Action Total:	\$3,079,508	\$62,500					\$3,142,008	
SONCC-MatR.2.2.13									
	SONCC-MatR.2.2.13.1	\$17,008						\$17,008	NGO
	SONCC-MatR.2.2.13.2	\$470,387						\$470,387	NGO
	Action Total:	\$487,394						\$487,394	
SONCC-MatR.2.2.59									
	SONCC-MatR.2.2.59.1	\$17,008						\$17,008	NGO
	SONCC-MatR.2.2.59.2	\$470,387						\$470,387	NGO
	Action Total:	\$487,394						\$487,394	
SONCC-MatR.3.1.48									
	SONCC-MatR.3.1.48.1	\$73,540						\$73,540	CDFW
	SONCC-MatR.3.1.48.2	\$36,770						\$36,770	CDFW
	SONCC-MatR.3.1.48.3	\$73,540						\$73,540	CDFW
	Action Total:	\$183,850						\$183,850	
SONCC-MatR.22.2.49									
	SONCC-MatR.22.2.49.1	\$36,770						\$36,770	County
	Action Total:	\$36,770						\$36,770	
SONCC-MatR.22.2.60									
	SONCC-MatR.22.2.60.1	\$36,770						\$36,770	County
	Action Total:	\$36,770						\$36,770	
SONCC-MatR.22.3.45									
	SONCC-MatR.22.3.45.1	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-MatR.5.2.43									
	SONCC-MatR.5.2.43.1	\$22,270						\$22,270	NGO
	SONCC-MatR.5.2.43.2	\$85,230						\$85,230	NGO
	Action Total:	\$107,500						\$107,500	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MatR.5.2.64	SONCC-MatR.5.2.64.1	\$22,270						\$22,270	NGO
	SONCC-MatR.5.2.64.2	\$85,230						\$85,230	NGO
	Action Total:	<i>\$107,500</i>						<i>\$107,500</i>	
SONCC-MatR.1.2.35	SONCC-MatR.1.2.35.1	\$34,015						\$34,015	BLM
	SONCC-MatR.1.2.35.2	\$34,015						\$34,015	BLM
	SONCC-MatR.1.2.35.3	\$341,075						\$341,075	BLM
	Action Total:	<i>\$409,105</i>						<i>\$409,105</i>	
SONCC-MatR.1.2.56	SONCC-MatR.1.2.56.1	\$17,008						\$17,008	BLM
	SONCC-MatR.1.2.56.2	\$17,008						\$17,008	BLM
	SONCC-MatR.1.2.56.3	\$74,000						\$74,000	BLM
	Action Total:	<i>\$108,015</i>						<i>\$108,015</i>	
SONCC-MatR.10.7.55	SONCC-MatR.10.7.55.1	\$8,504						\$8,504	CDFW
	SONCC-MatR.10.7.55.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-MatR.10.7.57	SONCC-MatR.10.7.57.1	\$8,504						\$8,504	CDFW
	SONCC-MatR.10.7.57.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-MatR.3.1.9	SONCC-MatR.3.1.9.1	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$36,770</i>						<i>\$36,770</i>	
SONCC-MatR.3.1.4	SONCC-MatR.3.1.4.1	\$76,136						\$76,136	NGO
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	
SONCC-MatR.5.1.19	SONCC-MatR.5.1.19.1	\$8,504						\$8,504	CDFW
	SONCC-MatR.5.1.19.2	\$159,090						\$159,090	CDFW
	Action Total:	<i>\$167,594</i>						<i>\$167,594</i>	
SONCC-MatR.5.1.63	SONCC-MatR.5.1.63.1	\$8,504						\$8,504	CDFW
	SONCC-MatR.5.1.63.2	\$159,090						\$159,090	CDFW
	Action Total:	<i>\$167,594</i>						<i>\$167,594</i>	
SONCC-MatR.7.1.14	SONCC-MatR.7.1.14.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MatR.7.1.14.2	\$85,038						\$85,038	NRCS/RCD
	SONCC-MatR.7.1.14.3	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NRCS/RCD
	Action Total:	<i>\$187,083</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$612,270</i>	
SONCC-MatR.7.1.65	SONCC-MatR.7.1.65.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MatR.7.1.65.2	\$85,038						\$85,038	NRCS/RCD
	SONCC-MatR.7.1.65.3	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NRCS/RCD
	Action Total:	<i>\$187,083</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$612,270</i>	
SONCC-MatR.8.1.17									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MatR.8.1.17.1	\$364,760						\$364,760	NGO
	SONCC-MatR.8.1.17.2	\$5,702,554						\$5,702,554	NGO
	SONCC-MatR.8.1.17.3	\$975,853						\$975,853	NGO
	SONCC-MatR.8.1.17.4	\$709,533				\$709,533		\$1,419,066	NGO
	Action Total:	<i>\$7,752,700</i>				<i>\$709,533</i>		<i>\$8,462,233</i>	
SONCC-MatR.8.1.18									
	SONCC-MatR.8.1.18.1	\$225,364						\$225,364	NRCS/RCD
	SONCC-MatR.8.1.18.2	\$598,672						\$598,672	NRCS/RCD
	Action Total:	<i>\$824,036</i>						<i>\$824,036</i>	
SONCC-MatR.8.1.66									
	SONCC-MatR.8.1.66.1	\$364,760						\$364,760	NGO
	SONCC-MatR.8.1.66.2	\$5,702,554						\$5,702,554	NGO
	SONCC-MatR.8.1.66.3	\$975,853						\$975,853	NGO
	SONCC-MatR.8.1.66.4	\$709,533				\$709,533		\$1,419,066	NGO
	Action Total:	<i>\$7,752,700</i>				<i>\$709,533</i>		<i>\$8,462,233</i>	
SONCC-MatR.8.1.67									
	SONCC-MatR.8.1.67.1	\$225,364						\$225,364	NRCS/RCD
	SONCC-MatR.8.1.67.2	\$598,672						\$598,672	NRCS/RCD
	Action Total:	<i>\$824,036</i>						<i>\$824,036</i>	
SONCC-MatR.3.1.46									
	SONCC-MatR.3.1.46.1	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-MatR.3.1.2									
	SONCC-MatR.3.1.2.1	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-MatR.7.1.40									
	SONCC-MatR.7.1.40.1	\$182,000						\$182,000	NGO
	SONCC-MatR.7.1.40.2	\$3,674,112						\$3,674,112	NGO
	Action Total:	<i>\$3,856,112</i>						<i>\$3,856,112</i>	
SONCC-MatR.7.1.15									
	SONCC-MatR.7.1.15.1	\$34,015						\$34,015	NGO
	SONCC-MatR.7.1.15.2	\$352,838						\$352,838	NGO
	SONCC-MatR.7.1.15.3	\$2,567,462						\$2,567,462	NGO
	Action Total:	<i>\$2,954,316</i>						<i>\$2,954,316</i>	
SONCC-MatR.7.1.16									
	SONCC-MatR.7.1.16.1	\$0						\$0	CDF
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-MatR.16.1.21									
	SONCC-MatR.16.1.21.1	\$34,015						\$34,015	NMFS
	SONCC-MatR.16.1.21.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MatR.16.1.22									
	SONCC-MatR.16.1.22.1	\$34,015						\$34,015	NMFS
	SONCC-MatR.16.1.22.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MatR.16.2.23									
	SONCC-MatR.16.2.23.1	\$34,015						\$34,015	NMFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MatR.16.2.23	SONCC-MatR.16.2.23.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-MatR.16.2.24	SONCC-MatR.16.2.24.1	\$34,015						\$34,015	NMFS
	SONCC-MatR.16.2.24.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-MatR.8.1.42	SONCC-MatR.8.1.42.1	\$34,015						\$34,015	County
	Action Total:	\$34,015						\$34,015	
SONCC-MatR.10.2.41	SONCC-MatR.10.2.41.1	\$45,925						\$45,925	RWQCB
	SONCC-MatR.10.2.41.2	\$114,813						\$114,813	RWQCB
	Action Total:	\$160,738						\$160,738	
SONCC-MatR.27.2.38	SONCC-MatR.27.2.38.1	\$68,030						\$68,030	CDFW
	Action Total:	\$68,030						\$68,030	
SONCC-MatR.27.2.53	SONCC-MatR.27.2.53.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-MatR.27.2.28	SONCC-MatR.27.2.28.1	\$136,060						\$136,060	CDFW
	SONCC-MatR.27.2.28.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-MatR.27.2.29	SONCC-MatR.27.2.29.1	\$2,079,779		\$2,079,779		\$2,079,779		\$6,239,337	CDFW
	Action Total:	\$2,079,779		\$2,079,779		\$2,079,779		\$6,239,337	
SONCC-MatR.27.2.30	SONCC-MatR.27.2.30.1	\$2,079,779		\$2,079,779		\$2,079,779		\$6,239,337	CDFW
	Action Total:	\$2,079,779		\$2,079,779		\$2,079,779		\$6,239,337	
SONCC-MatR.27.2.31	SONCC-MatR.27.2.31.1	\$2,079,779		\$2,079,779		\$2,079,779		\$6,239,337	CDFW
	Action Total:	\$2,079,779		\$2,079,779		\$2,079,779		\$6,239,337	
SONCC-MatR.27.2.32	SONCC-MatR.27.2.32.1	\$2,079,779		\$2,079,779		\$2,079,779		\$6,239,337	CDFW
	Action Total:	\$2,079,779		\$2,079,779		\$2,079,779		\$6,239,337	
SONCC-MatR.27.2.33	SONCC-MatR.27.2.33.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-MatR.27.2.33.2	\$34,015						\$34,015	CDFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-MatR.27.2.34	SONCC-MatR.27.2.34.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-MatR.27.2.54	SONCC-MatR.27.2.54.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-MatR.27.1.36	SONCC-MatR.27.1.36.1	\$124,893	\$124,893	\$124,893	\$124,893	\$124,893	\$124,893	\$749,358	CDFW
	Action Total:	\$124,893	\$124,893	\$124,893	\$124,893	\$124,893	\$124,893	\$749,358	
SONCC-MatR.27.1.37									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MatR.27.1.37.1	\$34,015						\$34,015	NMFS
	SONCC-MatR.27.1.37.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-MatR.27.1.25	SONCC-MatR.27.1.25.1	\$374,680	\$374,680	\$374,680	\$374,680	\$374,680	\$374,680	\$2,248,080	CDFW
	Action Total:	<i>\$374,680</i>	<i>\$374,680</i>	<i>\$374,680</i>	<i>\$374,680</i>	<i>\$374,680</i>	<i>\$374,680</i>	<i>\$2,248,080</i>	
SONCC-MatR.27.1.26	SONCC-MatR.27.1.26.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	Action Total:	<i>\$68,030</i>		<i>\$68,030</i>		<i>\$68,030</i>		<i>\$204,090</i>	
SONCC-MatR.27.1.27	SONCC-MatR.27.1.27.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-MatR.27.4.50	SONCC-MatR.27.4.50.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MatR.27.4.51	SONCC-MatR.27.4.51.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MatR.27.4.52	SONCC-MatR.27.4.52.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
	Population Total:	\$51,819,114	\$3,893,571	\$11,757,932	\$2,818,571	\$11,326,998	\$1,568,571	\$83,184,755	
Population: Mid Klamath River									
SONCC-MKR.10.3.1	SONCC-MKR.10.3.1.1	\$34,015						\$34,015	BIA/Tribe
	SONCC-MKR.10.3.1.2	\$102,258						\$102,258	BIA/Tribe
	Action Total:	<i>\$136,273</i>						<i>\$136,273</i>	
SONCC-MKR.2.2.4	SONCC-MKR.2.2.4.1	\$36,770						\$36,770	BIA/Tribe
	SONCC-MKR.2.2.4.2	\$232,560						\$232,560	BIA/Tribe
	Action Total:	<i>\$269,330</i>						<i>\$269,330</i>	
SONCC-MKR.1.2.43	SONCC-MKR.1.2.43.1	\$0						\$0	BIA/Tribe
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-MKR.2.1.6	SONCC-MKR.2.1.6.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-MKR.2.1.6.2	\$201,951						\$201,951	BIA/Tribe
	Action Total:	<i>\$218,959</i>						<i>\$218,959</i>	
SONCC-MKR.2.1.64	SONCC-MKR.2.1.64.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-MKR.2.1.64.2	\$201,951						\$201,951	BIA/Tribe
	Action Total:	<i>\$218,959</i>						<i>\$218,959</i>	
SONCC-MKR.10.3.10	SONCC-MKR.10.3.10.1	\$17,008						\$17,008	CDFW
	SONCC-MKR.10.3.10.2	\$17,008						\$17,008	CDFW
	SONCC-MKR.10.3.10.3	\$0						\$0	CDFW
	SONCC-MKR.10.3.10.4	\$0						\$0	CDFW
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MKR.10.3.61	SONCC-MKR.10.3.61.1	\$17,008						\$17,008	CDFW
	SONCC-MKR.10.3.61.2	\$17,008						\$17,008	CDFW
	SONCC-MKR.10.3.61.3	\$0						\$0	CDFW
	SONCC-MKR.10.3.61.4	\$0						\$0	CDFW
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-MKR.2.2.5	SONCC-MKR.2.2.5.1	\$89,080						\$89,080	USFS
	SONCC-MKR.2.2.5.2	\$1,800,000						\$1,800,000	USFS
	Action Total:	<i>\$1,889,080</i>						<i>\$1,889,080</i>	
SONCC-MKR.10.2.13	SONCC-MKR.10.2.13.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-MKR.10.2.13.2	\$2,108,812						\$2,108,812	BIA/Tribe
	Action Total:	<i>\$2,125,819</i>						<i>\$2,125,819</i>	
SONCC-MKR.10.2.60	SONCC-MKR.10.2.60.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-MKR.10.2.60.2	\$2,108,812						\$2,108,812	BIA/Tribe
	Action Total:	<i>\$2,125,819</i>						<i>\$2,125,819</i>	
SONCC-MKR.5.1.22	SONCC-MKR.5.1.22.1	\$18,385						\$18,385	BIA/Tribe
	SONCC-MKR.5.1.22.2	\$130,815						\$130,815	BIA/Tribe
	Action Total:	<i>\$149,200</i>						<i>\$149,200</i>	
SONCC-MKR.5.1.69	SONCC-MKR.5.1.69.1	\$18,385						\$18,385	BIA/Tribe
	SONCC-MKR.5.1.69.2	\$130,815						\$130,815	BIA/Tribe
	Action Total:	<i>\$149,200</i>						<i>\$149,200</i>	
SONCC-MKR.3.1.15	SONCC-MKR.3.1.15.1	\$34,015						\$34,015	CDFW
	SONCC-MKR.3.1.15.2	\$48,346						\$48,346	CDFW
	Action Total:	<i>\$82,361</i>						<i>\$82,361</i>	
SONCC-MKR.3.1.56	SONCC-MKR.3.1.56.1	\$247,000	\$247,000	\$247,000	\$247,000	\$247,000	\$247,000	\$1,482,000	SWRCB
	Action Total:	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$247,000</i>	<i>\$1,482,000</i>	
SONCC-MKR.3.1.58	SONCC-MKR.3.1.58.1	\$18,385						\$18,385	SWRCB
	SONCC-MKR.3.1.58.2	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-MKR.3.1.66	SONCC-MKR.3.1.66.1	\$34,015						\$34,015	CDFW
	SONCC-MKR.3.1.66.2	\$48,346						\$48,346	CDFW
	Action Total:	<i>\$82,361</i>						<i>\$82,361</i>	
SONCC-MKR.3.1.68	SONCC-MKR.3.1.68.1	\$18,385						\$18,385	DWR
	SONCC-MKR.3.1.68.2	\$36,770						\$36,770	DWR
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-MKR.10.3.24	SONCC-MKR.10.3.24.1	\$17,008					\$17,008	Caltrans	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MKR.10.3.24.2	\$159,090						\$159,090	Caltrans
	Action Total:	<i>\$176,098</i>						<i>\$176,098</i>	
SONCC-MKR.10.3.62									
	SONCC-MKR.10.3.62.1	\$17,008						\$17,008	Caltrans
	SONCC-MKR.10.3.62.2	\$159,090						\$159,090	Caltrans
	Action Total:	<i>\$176,098</i>						<i>\$176,098</i>	
SONCC-MKR.7.1.8									
	SONCC-MKR.7.1.8.1	\$34,015						\$34,015	USFS
	SONCC-MKR.7.1.8.2	\$28,764						\$28,764	USFS
	SONCC-MKR.7.1.8.3	\$15,192						\$15,192	USFS
	Action Total:	<i>\$77,971</i>						<i>\$77,971</i>	
SONCC-MKR.7.1.9									
	SONCC-MKR.7.1.9.1	\$76,136						\$76,136	USFS
	SONCC-MKR.7.1.9.2	\$36,400						\$36,400	USFS
	SONCC-MKR.7.1.9.3	\$36,400						\$36,400	USFS
	SONCC-MKR.7.1.9.4	\$83,920						\$83,920	USFS
	Action Total:	<i>\$232,856</i>						<i>\$232,856</i>	
SONCC-MKR.26.1.57									
	SONCC-MKR.26.1.57.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-MKR.10.3.12									
	SONCC-MKR.10.3.12.1	\$0						\$0	CDFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-MKR.2.2.2									
	SONCC-MKR.2.2.2.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-MKR.2.2.2.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	BIA/Tribe
	SONCC-MKR.2.2.2.3	\$10,000						\$10,000	BIA/Tribe
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-MKR.2.2.65									
	SONCC-MKR.2.2.65.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-MKR.2.2.65.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	BIA/Tribe
	SONCC-MKR.2.2.65.3	\$10,000						\$10,000	BIA/Tribe
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-MKR.5.2.27									
	SONCC-MKR.5.2.27.1	\$22,270						\$22,270	CDFW
	SONCC-MKR.5.2.27.2	\$85,230						\$85,230	CDFW
	Action Total:	<i>\$107,500</i>						<i>\$107,500</i>	
SONCC-MKR.5.2.72									
	SONCC-MKR.5.2.72.1	\$22,270						\$22,270	CDFW
	SONCC-MKR.5.2.72.2	\$85,230						\$85,230	CDFW
	Action Total:	<i>\$107,500</i>						<i>\$107,500</i>	
SONCC-MKR.5.1.23									
	SONCC-MKR.5.1.23.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-MKR.5.1.23.2	\$20,450						\$20,450	BIA/Tribe
	Action Total:	<i>\$37,458</i>						<i>\$37,458</i>	
SONCC-MKR.5.1.26									
	SONCC-MKR.5.1.26.1	\$17,008						\$17,008	BIA/Tribe

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MKR.5.1.26.2	\$145,350						\$145,350	BIA/Tribe
	Action Total:	<i>\$162,358</i>						<i>\$162,358</i>	
SONCC-MKR.5.1.70									
	SONCC-MKR.5.1.70.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-MKR.5.1.70.2	\$20,450						\$20,450	BIA/Tribe
	Action Total:	<i>\$37,458</i>						<i>\$37,458</i>	
SONCC-MKR.5.1.71									
	SONCC-MKR.5.1.71.1	\$17,008						\$17,008	BIA/Tribe
	SONCC-MKR.5.1.71.2	\$145,350						\$145,350	BIA/Tribe
	Action Total:	<i>\$162,358</i>						<i>\$162,358</i>	
SONCC-MKR.3.1.45									
	SONCC-MKR.3.1.45.1	\$73,540						\$73,540	CDFW
	SONCC-MKR.3.1.45.2	\$36,770						\$36,770	CDFW
	SONCC-MKR.3.1.45.3	\$73,540						\$73,540	CDFW
	Action Total:	<i>\$183,850</i>						<i>\$183,850</i>	
SONCC-MKR.3.1.17									
	SONCC-MKR.3.1.17.1	\$0						\$0	SWRCB
	SONCC-MKR.3.1.17.2	\$0						\$0	SWRCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-MKR.3.1.59									
	SONCC-MKR.3.1.59.1	\$36,077						\$36,077	CDFW
	SONCC-MKR.3.1.59.2	\$36,077						\$36,077	CDFW
	SONCC-MKR.3.1.59.3	\$36,077						\$36,077	CDFW
	Action Total:	<i>\$108,231</i>						<i>\$108,231</i>	
SONCC-MKR.8.1.20									
	SONCC-MKR.8.1.20.1	\$789,189						\$789,189	USFS
	SONCC-MKR.8.1.20.2	\$22,152						\$22,152	USFS
	Action Total:	<i>\$811,341</i>						<i>\$811,341</i>	
SONCC-MKR.8.1.21									
	SONCC-MKR.8.1.21.1	\$939,257						\$939,257	USFS
	SONCC-MKR.8.1.21.2	\$3,788,410						\$3,788,410	USFS
	SONCC-MKR.8.1.21.3	\$3,035,344						\$3,035,344	USFS
	SONCC-MKR.8.1.21.4	\$2,480,977					\$2,480,977	\$4,961,953	USFS
	Action Total:	<i>\$10,243,988</i>					<i>\$2,480,977</i>	<i>\$12,724,964</i>	
SONCC-MKR.8.1.73									
	SONCC-MKR.8.1.73.1	\$789,189						\$789,189	USFS
	SONCC-MKR.8.1.73.2	\$22,152						\$22,152	USFS
	Action Total:	<i>\$811,341</i>						<i>\$811,341</i>	
SONCC-MKR.8.1.74									
	SONCC-MKR.8.1.74.1	\$939,257						\$939,257	USFS
	SONCC-MKR.8.1.74.2	\$3,788,410						\$3,788,410	USFS
	SONCC-MKR.8.1.74.3	\$3,035,344						\$3,035,344	USFS
	SONCC-MKR.8.1.74.4	\$2,480,977					\$2,480,977	\$4,961,953	USFS
	Action Total:	<i>\$10,243,988</i>					<i>\$2,480,977</i>	<i>\$12,724,964</i>	
SONCC-MKR.10.7.55									
	SONCC-MKR.10.7.55.1	\$8,504						\$8,504	CDFW
	SONCC-MKR.10.7.55.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-MKR.10.7.63									
	SONCC-MKR.10.7.63.1	\$8,504						\$8,504	CDFW
	SONCC-MKR.10.7.63.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
Action Total:		\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-MKR.3.1.42									
	SONCC-MKR.3.1.42.1	\$52,277						\$52,277	BIA/Tribe
	SONCC-MKR.3.1.42.2	\$19,979	\$19,979	\$19,979	\$19,979	\$19,979	\$19,979	\$119,871	BIA/Tribe
Action Total:		\$72,256	\$19,979	\$19,979	\$19,979	\$19,979	\$19,979	\$172,148	
SONCC-MKR.3.1.19									
	SONCC-MKR.3.1.19.1	\$36,770						\$36,770	SWRCB
Action Total:		\$36,770						\$36,770	
SONCC-MKR.3.1.67									
	SONCC-MKR.3.1.67.1	\$52,277						\$52,277	BIA/Tribe
	SONCC-MKR.3.1.67.2	\$19,979	\$19,979	\$19,979	\$19,979	\$19,979	\$19,979	\$119,871	BIA/Tribe
Action Total:		\$72,256	\$19,979	\$19,979	\$19,979	\$19,979	\$19,979	\$172,148	
SONCC-MKR.16.1.28									
	SONCC-MKR.16.1.28.1	\$34,015						\$34,015	NMFS
	SONCC-MKR.16.1.28.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-MKR.16.1.29									
	SONCC-MKR.16.1.29.1	\$34,015						\$34,015	NMFS
	SONCC-MKR.16.1.29.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-MKR.16.1.53									
	SONCC-MKR.16.1.53.1	\$34,015						\$34,015	NMFS
	SONCC-MKR.16.1.53.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-MKR.16.1.54									
	SONCC-MKR.16.1.54.1	\$34,015						\$34,015	BIA/Tribe
	SONCC-MKR.16.1.54.2	\$34,015						\$34,015	BIA/Tribe
Action Total:		\$68,030						\$68,030	
SONCC-MKR.16.2.30									
	SONCC-MKR.16.2.30.1	\$34,015						\$34,015	NMFS
	SONCC-MKR.16.2.30.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-MKR.16.2.31									
	SONCC-MKR.16.2.31.1	\$34,015						\$34,015	NMFS
	SONCC-MKR.16.2.31.2	\$34,015						\$34,015	NMFS
Action Total:		\$68,030						\$68,030	
SONCC-MKR.27.2.47									
	SONCC-MKR.27.2.47.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
Action Total:		\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-MKR.27.2.48									
	SONCC-MKR.27.2.48.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
Action Total:		\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-MKR.27.2.49									
	SONCC-MKR.27.2.49.1	\$68,030						\$68,030	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$68,030						\$68,030	
SONCC-MKR.27.2.50									
	SONCC-MKR.27.2.50.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
Action Total:		\$102,250						\$613,500	
SONCC-MKR.27.2.37									
	SONCC-MKR.27.2.37.1	\$136,060						\$136,060	CDFW
	SONCC-MKR.27.2.37.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
Action Total:		\$136,060		\$81,800		\$81,800		\$381,460	
SONCC-MKR.27.2.38									
	SONCC-MKR.27.2.38.1	\$429,333		\$429,333		\$429,333		\$1,287,999	CDFW
Action Total:		\$429,333		\$429,333		\$429,333		\$1,287,999	
SONCC-MKR.27.2.39									
	SONCC-MKR.27.2.39.1	\$429,333		\$429,333		\$429,333		\$1,287,999	CDFW
Action Total:		\$429,333		\$429,333		\$429,333		\$1,287,999	
SONCC-MKR.27.2.40									
	SONCC-MKR.27.2.40.1	\$429,333		\$429,333		\$429,333		\$1,287,999	CDFW
Action Total:		\$429,333		\$429,333		\$429,333		\$1,287,999	
SONCC-MKR.27.2.41									
	SONCC-MKR.27.2.41.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-MKR.27.2.41.2	\$34,015						\$34,015	CDFW
Action Total:		\$99,926		\$39,775		\$39,775		\$298,801	
SONCC-MKR.27.2.52									
	SONCC-MKR.27.2.52.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
Action Total:		\$85,038		\$85,038		\$85,038		\$510,225	
SONCC-MKR.27.1.44									
	SONCC-MKR.27.1.44.1	\$34,015						\$34,015	NMFS
	SONCC-MKR.27.1.44.2	\$0						\$0	NMFS
Action Total:		\$34,015						\$34,015	
SONCC-MKR.27.1.32									
	SONCC-MKR.27.1.32.1	\$34,015						\$34,015	CDFW
Action Total:		\$34,015						\$34,015	
SONCC-MKR.27.1.33									
	SONCC-MKR.27.1.33.1	\$170,235	\$170,235	\$170,235	\$170,235	\$170,235	\$170,235	\$1,021,410	CDFW
Action Total:		\$170,235		\$170,235		\$170,235		\$1,021,410	
SONCC-MKR.27.1.34									
	SONCC-MKR.27.1.34.1	\$56,745	\$56,745	\$56,745	\$56,745	\$56,745	\$56,745	\$340,470	CDFW
Action Total:		\$56,745		\$56,745		\$56,745		\$340,470	
SONCC-MKR.27.1.35									
	SONCC-MKR.27.1.35.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
Action Total:		\$85,038		\$85,038		\$85,038		\$510,225	
SONCC-MKR.27.1.36									
	SONCC-MKR.27.1.36.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
Action Total:		\$85,038		\$85,038		\$85,038		\$510,225	
SONCC-MKR.27.4.46									
	SONCC-MKR.27.4.46.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008		\$17,008		\$17,008		\$102,045	
SONCC-MKR.27.4.51									
	SONCC-MKR.27.4.51.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
Action Total:		\$102,250		\$102,250		\$102,250		\$613,500	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MKR.10.3.11	SONCC-MKR.10.3.11.1							\$0	CDFW
	Action Total:							\$0	
SONCC-MKR.2.2.3	SONCC-MKR.2.2.3.1							\$0	CDFW
	Action Total:							\$0	
SONCC-MKR.5.1.25	SONCC-MKR.5.1.25.1							\$0	BIA/Tribe
	SONCC-MKR.5.1.25.2							\$0	BIA/Tribe
	Action Total:							\$0	
SONCC-MKR.3.1.16	SONCC-MKR.3.1.16.1							\$0	NGO
	Action Total:							\$0	
SONCC-MKR.7.1.7	SONCC-MKR.7.1.7.1							\$0	NRCS/RCD
	SONCC-MKR.7.1.7.2							\$0	NRCS/RCD
	SONCC-MKR.7.1.7.3							\$0	NRCS/RCD
	SONCC-MKR.7.1.7.4							\$0	NRCS/RCD
	SONCC-MKR.7.1.7.5							\$0	NRCS/RCD
	Action Total:							\$0	
Population Total:		\$35,019,824	\$1,486,707	\$2,760,936	\$1,486,707	\$2,760,936	\$6,448,660	\$49,963,770	
Population: Middle Fork Eel River									
SONCC-MFER.2.1.2	SONCC-MFER.2.1.2.1	\$17,008						\$17,008	CDFW
	SONCC-MFER.2.1.2.2	\$443,759						\$443,759	CDFW
	Action Total:	\$460,766						\$460,766	
SONCC-MFER.2.2.22	SONCC-MFER.2.2.22.1	\$17,008						\$17,008	CDFW
	SONCC-MFER.2.2.22.2	\$331,316						\$331,316	CDFW
	Action Total:	\$348,323						\$348,323	
SONCC-MFER.2.2.3	SONCC-MFER.2.2.3.1	\$17,008						\$17,008	CDFW
	SONCC-MFER.2.2.3.2	\$12,807						\$12,807	CDFW
	Action Total:	\$29,815						\$29,815	
SONCC-MFER.10.1.29	SONCC-MFER.10.1.29.1	\$34,015						\$34,015	USFS
	SONCC-MFER.10.1.29.2	\$62,130						\$62,130	USFS
	SONCC-MFER.10.1.29.3	\$452,097						\$452,097	USFS
	Action Total:	\$548,242						\$548,242	
SONCC-MFER.2.1.43	SONCC-MFER.2.1.43.1	\$17,008						\$17,008	CDFW
	SONCC-MFER.2.1.43.2	\$443,759						\$443,759	CDFW
	Action Total:	\$460,766						\$460,766	
SONCC-MFER.2.2.44	SONCC-MFER.2.2.44.1	\$17,008						\$17,008	CDFW
	SONCC-MFER.2.2.44.2	\$331,316						\$331,316	CDFW
	Action Total:	\$348,323						\$348,323	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MFER.2.2.45	SONCC-MFER.2.2.45.1	\$17,008						\$17,008	CDFW
	SONCC-MFER.2.2.45.2	\$12,807						\$12,807	CDFW
	Action Total:	<i>\$29,815</i>						<i>\$29,815</i>	
	<hr/>								
SONCC-MFER.3.1.25	SONCC-MFER.3.1.25.1	\$73,540						\$73,540	CDFW
	SONCC-MFER.3.1.25.2	\$36,770						\$36,770	CDFW
	SONCC-MFER.3.1.25.3	\$73,540						\$73,540	CDFW
	Action Total:	<i>\$183,850</i>						<i>\$183,850</i>	
<hr/>									
SONCC-MFER.10.7.41	SONCC-MFER.10.7.41.1	\$8,504						\$8,504	CDFW
	SONCC-MFER.10.7.41.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
<hr/>									
SONCC-MFER.10.7.42	SONCC-MFER.10.7.42.1	\$8,504						\$8,504	CDFW
	SONCC-MFER.10.7.42.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
<hr/>									
SONCC-MFER.7.1.5	SONCC-MFER.7.1.5.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MFER.7.1.5.2	\$34,015						\$34,015	NRCS/RCD
	SONCC-MFER.7.1.5.3	\$85,038						\$85,038	NRCS/RCD
	Action Total:	<i>\$136,060</i>						<i>\$136,060</i>	
<hr/>									
SONCC-MFER.7.1.46	SONCC-MFER.7.1.46.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MFER.7.1.46.2	\$34,015						\$34,015	NRCS/RCD
	SONCC-MFER.7.1.46.3	\$85,038						\$85,038	NRCS/RCD
	Action Total:	<i>\$136,060</i>						<i>\$136,060</i>	
<hr/>									
SONCC-MFER.8.1.8	SONCC-MFER.8.1.8.1	\$575,914						\$575,914	USFS
	SONCC-MFER.8.1.8.2	\$487,344						\$487,344	USFS
	Action Total:	<i>\$1,063,258</i>						<i>\$1,063,258</i>	
<hr/>									
SONCC-MFER.8.1.9	SONCC-MFER.8.1.9.1	\$775,931						\$775,931	USFS
	SONCC-MFER.8.1.9.2	\$62,133						\$62,133	USFS
	SONCC-MFER.8.1.9.3	\$2,465,679						\$2,465,679	USFS
	SONCC-MFER.8.1.9.4	\$34,862,677					\$34,862,677	\$69,725,354	USFS
	Action Total:	<i>\$38,166,420</i>					<i>\$34,862,677</i>	<i>\$73,029,097</i>	
<hr/>									
SONCC-MFER.8.1.47	SONCC-MFER.8.1.47.1	\$575,914						\$575,914	USFS
	SONCC-MFER.8.1.47.2	\$487,344						\$487,344	USFS
	Action Total:	<i>\$1,063,258</i>						<i>\$1,063,258</i>	
<hr/>									
SONCC-MFER.8.1.48	SONCC-MFER.8.1.48.1	\$775,931						\$775,931	USFS
	SONCC-MFER.8.1.48.2	\$62,133						\$62,133	USFS
	SONCC-MFER.8.1.48.3	\$2,465,679						\$2,465,679	USFS
	SONCC-MFER.8.1.48.4	\$34,862,677					\$34,862,677	\$69,725,354	USFS
	Action Total:	<i>\$38,166,420</i>					<i>\$34,862,677</i>	<i>\$73,029,097</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MFER.1.2.23	SONCC-MFER.1.2.23.1	\$0						\$0	CDFW
	Action Total:	\$0						\$0	
	<hr/>								
SONCC-MFER.7.1.4	SONCC-MFER.7.1.4.1	\$0						\$0	County
	SONCC-MFER.7.1.4.2	\$0						\$0	County
	Action Total:	\$0						\$0	
<hr/>									
SONCC-MFER.16.1.11	SONCC-MFER.16.1.11.1	\$34,015						\$34,015	NMFS
	SONCC-MFER.16.1.11.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
<hr/>									
SONCC-MFER.16.1.12	SONCC-MFER.16.1.12.1	\$34,015						\$34,015	NMFS
	SONCC-MFER.16.1.12.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
<hr/>									
SONCC-MFER.16.1.39	SONCC-MFER.16.1.39.1	\$34,015						\$34,015	NMFS
	SONCC-MFER.16.1.39.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
<hr/>									
SONCC-MFER.16.1.40	SONCC-MFER.16.1.40.1	\$34,015						\$34,015	BIA/Tribe
	SONCC-MFER.16.1.40.2	\$34,015						\$34,015	BIA/Tribe
	Action Total:	\$68,030						\$68,030	
<hr/>									
SONCC-MFER.16.2.13	SONCC-MFER.16.2.13.1	\$34,015						\$34,015	NMFS
	SONCC-MFER.16.2.13.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
<hr/>									
SONCC-MFER.16.2.14	SONCC-MFER.16.2.14.1	\$34,015						\$34,015	NMFS
	SONCC-MFER.16.2.14.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
<hr/>									
SONCC-MFER.8.1.7	SONCC-MFER.8.1.7.1	\$18,200						\$18,200	USFS
	SONCC-MFER.8.1.7.2	\$647,088						\$647,088	USFS
	Action Total:	\$665,288						\$665,288	
<hr/>									
SONCC-MFER.14.2.1	SONCC-MFER.14.2.1.1	\$34,015						\$34,015	CDFW
	SONCC-MFER.14.2.1.2	\$2,583,525						\$2,583,525	CDFW
	Action Total:	\$2,617,540						\$2,617,540	
<hr/>									
SONCC-MFER.27.2.26	SONCC-MFER.27.2.26.1	\$201,243		\$201,243		\$201,243		\$603,729	CDFW
	Action Total:	\$201,243		\$201,243		\$201,243		\$603,729	
<hr/>									
SONCC-MFER.27.2.27	SONCC-MFER.27.2.27.1	\$201,243		\$201,243		\$201,243		\$603,729	CDFW
	Action Total:	\$201,243		\$201,243		\$201,243		\$603,729	
<hr/>									
SONCC-MFER.27.2.30	SONCC-MFER.27.2.30.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MFER.27.2.36	SONCC-MFER.27.2.36.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-MFER.27.2.37	SONCC-MFER.27.2.37.1	\$68,030						\$68,030	CDFW
	Action Total:	\$68,030						\$68,030	
SONCC-MFER.27.2.28	SONCC-MFER.27.2.28.1	\$201,243		\$201,243		\$201,243		\$603,729	CDFW
	Action Total:	\$201,243		\$201,243		\$201,243		\$603,729	
SONCC-MFER.27.2.18	SONCC-MFER.27.2.18.1	\$136,060						\$136,060	CDFW
	SONCC-MFER.27.2.18.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-MFER.27.2.19	SONCC-MFER.27.2.19.1	\$201,243		\$201,243		\$201,243		\$603,729	CDFW
	Action Total:	\$201,243		\$201,243		\$201,243		\$603,729	
SONCC-MFER.27.2.20	SONCC-MFER.27.2.20.1	\$201,243		\$201,243		\$201,243		\$603,729	CDFW
	Action Total:	\$201,243		\$201,243		\$201,243		\$603,729	
SONCC-MFER.27.2.38	SONCC-MFER.27.2.38.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-MFER.27.1.21	SONCC-MFER.27.1.21.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-MFER.27.1.21.2	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	CDFW
	Action Total:	\$102,045	\$102,045	\$102,045	\$102,045	\$102,045	\$102,045	\$612,270	
SONCC-MFER.27.1.24	SONCC-MFER.27.1.24.1	\$34,015						\$34,015	NMFS
	SONCC-MFER.27.1.24.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-MFER.27.1.16	SONCC-MFER.27.1.16.1	\$38,850	\$38,850	\$38,850	\$38,850	\$38,850	\$38,850	\$233,100	CDFW
	Action Total:	\$38,850	\$38,850	\$38,850	\$38,850	\$38,850	\$38,850	\$233,100	
SONCC-MFER.27.1.17	SONCC-MFER.27.1.17.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-MFER.27.1.17.2	\$13,084	\$13,084	\$13,084	\$13,084	\$13,084	\$13,084	\$78,504	CDFW
	Action Total:	\$98,122	\$98,122	\$98,122	\$98,122	\$98,122	\$98,122	\$588,729	
SONCC-MFER.27.4.31	SONCC-MFER.27.4.31.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-MFER.27.4.32	SONCC-MFER.27.4.32.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	CDFW
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-MFER.27.4.33	SONCC-MFER.27.4.33.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-MFER.27.4.34	SONCC-MFER.27.4.34.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MFER.27.4.35									
	SONCC-MFER.27.4.35.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
	Population Total:	\$86,894,589	\$848,664	\$1,807,094	\$848,664	\$1,807,094	\$70,574,018	\$162,780,123	
Population: Middle Mainstem Eel River									
SONCC-MMER.3.1.38									
	SONCC-MMER.3.1.38.1	\$36,077						\$36,077	CDFW
	SONCC-MMER.3.1.38.2	\$36,077						\$36,077	CDFW
	SONCC-MMER.3.1.38.3	\$36,077						\$36,077	CDFW
	Action Total:	\$108,231						\$108,231	
SONCC-MMER.3.1.39									
	SONCC-MMER.3.1.39.1	\$0						\$0	SWRCB
	Action Total:	\$0						\$0	
SONCC-MMER.3.1.10									
	SONCC-MMER.3.1.10.1	\$34,015						\$34,015	NGO
	SONCC-MMER.3.1.10.2	\$350,000						\$350,000	NGO
	SONCC-MMER.3.1.10.3	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$15,000	NGO
	Action Total:	\$386,515	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$399,015	
SONCC-MMER.26.1.1									
	SONCC-MMER.26.1.1.1	\$68,030						\$68,030	CDFW
	SONCC-MMER.26.1.1.2	\$500,000						\$500,000	CDFW
	SONCC-MMER.26.1.1.3	\$600,000	\$600,000	\$600,000				\$1,800,000	CDFW
	SONCC-MMER.26.1.1.4	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000			\$5,000,000	CDFW
	Action Total:	\$2,418,030	\$1,850,000	\$1,850,000	\$1,250,000			\$7,368,030	
SONCC-MMER.8.1.17									
	SONCC-MMER.8.1.17.1	\$264,043						\$264,043	NRCS/RCD
	SONCC-MMER.8.1.17.2	\$1,915,580						\$1,915,580	NRCS/RCD
	Action Total:	\$2,179,623						\$2,179,623	
SONCC-MMER.8.1.60									
	SONCC-MMER.8.1.60.1	\$264,043						\$264,043	NRCS/RCD
	SONCC-MMER.8.1.60.2	\$1,915,580						\$1,915,580	NRCS/RCD
	Action Total:	\$2,179,623						\$2,179,623	
SONCC-MMER.3.1.40									
	SONCC-MMER.3.1.40.1	\$73,540						\$73,540	CDFW
	SONCC-MMER.3.1.40.2	\$36,770						\$36,770	CDFW
	SONCC-MMER.3.1.40.3	\$73,540						\$73,540	CDFW
	Action Total:	\$183,850						\$183,850	
SONCC-MMER.3.1.12									
	SONCC-MMER.3.1.12.1	\$0						\$0	SWRCB
	SONCC-MMER.3.1.12.2	\$0						\$0	SWRCB
	Action Total:	\$0						\$0	
SONCC-MMER.3.1.14									
	SONCC-MMER.3.1.14.1	\$36,770						\$36,770	SWRCB
	Action Total:	\$36,770						\$36,770	
SONCC-MMER.5.1.7									
	SONCC-MMER.5.1.7.1	\$22,270						\$22,270	Caltrans
	SONCC-MMER.5.1.7.2	\$741,277						\$741,277	Caltrans

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	Action Total:	\$763,547						\$763,547	
SONCC-MMER.5.1.8									
	SONCC-MMER.5.1.8.1	\$348,836						\$348,836	Caltrans
	Action Total:	\$348,836						\$348,836	
SONCC-MMER.5.1.58									
	SONCC-MMER.5.1.58.1	\$22,270						\$22,270	Caltrans
	SONCC-MMER.5.1.58.2	\$741,277						\$741,277	Caltrans
	Action Total:	\$763,547						\$763,547	
SONCC-MMER.1.2.34									
	SONCC-MMER.1.2.34.1	\$0						\$0	CDFW
	Action Total:	\$0						\$0	
SONCC-MMER.2.1.2									
	SONCC-MMER.2.1.2.1	\$17,008						\$17,008	CDFW
	SONCC-MMER.2.1.2.2	\$5,752,425						\$5,752,425	CDFW
	Action Total:	\$5,769,433						\$5,769,433	
SONCC-MMER.2.1.55									
	SONCC-MMER.2.1.55.1	\$17,008						\$17,008	CDFW
	SONCC-MMER.2.1.55.2	\$5,752,425						\$5,752,425	CDFW
	Action Total:	\$5,769,433						\$5,769,433	
SONCC-MMER.26.1.52									
	SONCC-MMER.26.1.52.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-MMER.2.2.37									
	SONCC-MMER.2.2.37.1	\$17,008						\$17,008	CDFW
	SONCC-MMER.2.2.37.2	\$166,010						\$166,010	CDFW
	Action Total:	\$183,018						\$183,018	
SONCC-MMER.2.2.53									
	SONCC-MMER.2.2.53.1	\$17,008						\$17,008	CDFW
	SONCC-MMER.2.2.53.2	\$1,073,709						\$1,073,709	CDFW
	Action Total:	\$1,090,717						\$1,090,717	
SONCC-MMER.2.2.56									
	SONCC-MMER.2.2.56.1	\$17,008						\$17,008	CDFW
	SONCC-MMER.2.2.56.2	\$166,010						\$166,010	CDFW
	Action Total:	\$183,018						\$183,018	
SONCC-MMER.2.2.57									
	SONCC-MMER.2.2.57.1	\$17,008						\$17,008	CDFW
	SONCC-MMER.2.2.57.2	\$1,073,709						\$1,073,709	CDFW
	Action Total:	\$1,090,717						\$1,090,717	
SONCC-MMER.14.2.9									
	SONCC-MMER.14.2.9.1	\$68,030						\$68,030	CDFW
	SONCC-MMER.14.2.9.2	\$8,495,375						\$8,495,375	CDFW
	Action Total:	\$8,563,405						\$8,563,405	
SONCC-MMER.3.1.11									
	SONCC-MMER.3.1.11.1	\$76,136						\$76,136	NGO
	Action Total:	\$76,136						\$76,136	
SONCC-MMER.8.1.15									
	SONCC-MMER.8.1.15.1	\$415,605						\$415,605	CDFW
	SONCC-MMER.8.1.15.2	\$16,948,150						\$16,948,150	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MMER.8.1.15.3	\$1,134,866						\$1,134,866	CDFW
	SONCC-MMER.8.1.15.4	\$830,178					\$830,178	\$1,660,355	CDFW
	Action Total:	<i>\$19,328,798</i>					<i>\$830,178</i>	<i>\$20,158,976</i>	
SONCC-MMER.8.1.16	SONCC-MMER.8.1.16.1	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-MMER.8.1.59	SONCC-MMER.8.1.59.1	\$415,605						\$415,605	CDFW
	SONCC-MMER.8.1.59.2	\$16,948,150						\$16,948,150	CDFW
	SONCC-MMER.8.1.59.3	\$1,134,866						\$1,134,866	CDFW
	SONCC-MMER.8.1.59.4	\$830,178					\$830,178	\$1,660,355	CDFW
	Action Total:	<i>\$19,328,798</i>					<i>\$830,178</i>	<i>\$20,158,976</i>	
SONCC-MMER.7.1.3	SONCC-MMER.7.1.3.1	\$34,015						\$34,015	NRCS/RCD
	SONCC-MMER.7.1.3.2	\$5,860,512						\$5,860,512	NRCS/RCD
	Action Total:	<i>\$5,894,527</i>						<i>\$5,894,527</i>	
SONCC-MMER.7.1.4	SONCC-MMER.7.1.4.1	\$17,077						\$17,077	CDFW
	Action Total:	<i>\$17,077</i>						<i>\$17,077</i>	
SONCC-MMER.10.7.51	SONCC-MMER.10.7.51.1	\$8,504						\$8,504	CDFW
	SONCC-MMER.10.7.51.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-MMER.10.7.54	SONCC-MMER.10.7.54.1	\$8,504						\$8,504	CDFW
	SONCC-MMER.10.7.54.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-MMER.7.1.5	SONCC-MMER.7.1.5.1	\$5,669						\$5,669	CDF
	Action Total:	<i>\$5,669</i>						<i>\$5,669</i>	
SONCC-MMER.7.1.6	SONCC-MMER.7.1.6.1	\$18,200						\$18,200	CDF
	SONCC-MMER.7.1.6.2	\$838,656						\$838,656	CDF
	Action Total:	<i>\$856,856</i>						<i>\$856,856</i>	
SONCC-MMER.16.1.19	SONCC-MMER.16.1.19.1	\$34,015						\$34,015	NMFS
	SONCC-MMER.16.1.19.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MMER.16.1.20	SONCC-MMER.16.1.20.1	\$34,015						\$34,015	NMFS
	SONCC-MMER.16.1.20.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MMER.16.2.21	SONCC-MMER.16.2.21.1	\$34,015						\$34,015	NMFS
	SONCC-MMER.16.2.21.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MMER.16.2.22	SONCC-MMER.16.2.22.1	\$34,015						\$34,015	NMFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MMER.16.2.22.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-MMER.10.2.36									
	SONCC-MMER.10.2.36.1	\$91,850						\$91,850	NRCS/RCD
	SONCC-MMER.10.2.36.2	\$229,625						\$229,625	NRCS/RCD
	Action Total:	\$321,475						\$321,475	
SONCC-MMER.27.2.45									
	SONCC-MMER.27.2.45.1	\$34,015		\$34,015		\$34,015		\$102,045	NMFS
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-MMER.27.2.46									
	SONCC-MMER.27.2.46.1	\$68,030						\$68,030	CDFW
	Action Total:	\$68,030						\$68,030	
SONCC-MMER.27.2.47									
	SONCC-MMER.27.2.47.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-MMER.27.2.27									
	SONCC-MMER.27.2.27.1	\$136,060						\$136,060	CDFW
	SONCC-MMER.27.2.27.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-MMER.27.2.28									
	SONCC-MMER.27.2.28.1	\$2,176,008		\$2,176,008		\$2,176,008		\$6,528,024	CDFW
	Action Total:	\$2,176,008		\$2,176,008		\$2,176,008		\$6,528,024	
SONCC-MMER.27.2.29									
	SONCC-MMER.27.2.29.1	\$2,176,008		\$2,176,008		\$2,176,008		\$6,528,024	CDFW
	Action Total:	\$2,176,008		\$2,176,008		\$2,176,008		\$6,528,024	
SONCC-MMER.27.2.30									
	SONCC-MMER.27.2.30.1	\$2,176,008		\$2,176,008		\$2,176,008		\$6,528,024	CDFW
	Action Total:	\$2,176,008		\$2,176,008		\$2,176,008		\$6,528,024	
SONCC-MMER.27.2.31									
	SONCC-MMER.27.2.31.1	\$2,176,008		\$2,176,008		\$2,176,008		\$6,528,024	CDFW
	Action Total:	\$2,176,008		\$2,176,008		\$2,176,008		\$6,528,024	
SONCC-MMER.27.2.32									
	SONCC-MMER.27.2.32.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-MMER.27.2.32.2	\$34,015						\$34,015	CDFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-MMER.27.2.50									
	SONCC-MMER.27.2.50.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-MMER.27.1.33									
	SONCC-MMER.27.1.33.1	\$127,750	\$127,750	\$127,750	\$127,750	\$127,750	\$127,750	\$766,500	CDFW
	Action Total:	\$127,750	\$127,750	\$127,750	\$127,750	\$127,750	\$127,750	\$766,500	
SONCC-MMER.27.1.35									
	SONCC-MMER.27.1.35.1	\$34,015						\$34,015	NMFS
	SONCC-MMER.27.1.35.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-MMER.27.1.23									
	SONCC-MMER.27.1.23.1	\$383,250	\$383,250	\$383,250	\$383,250	\$383,250	\$383,250	\$2,299,500	CDFW
	Action Total:	\$383,250	\$383,250	\$383,250	\$383,250	\$383,250	\$383,250	\$2,299,500	
SONCC-MMER.27.1.24									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MMER.27.1.24.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	Action Total:	<i>\$68,030</i>		<i>\$68,030</i>		<i>\$68,030</i>		<i>\$204,090</i>	
SONCC-MMER.27.1.25									
	SONCC-MMER.27.1.25.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-MMER.27.1.26									
	SONCC-MMER.27.1.26.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-MMER.27.1.26.2	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	CDFW
	Action Total:	<i>\$102,045</i>	<i>\$102,045</i>	<i>\$102,045</i>	<i>\$102,045</i>	<i>\$102,045</i>	<i>\$102,045</i>	<i>\$612,270</i>	
SONCC-MMER.27.1.49									
	SONCC-MMER.27.1.49.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	CDFW
	Action Total:	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$6,120,000</i>	
SONCC-MMER.27.4.44									
	SONCC-MMER.27.4.44.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-MMER.27.4.48									
	SONCC-MMER.27.4.48.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-MMER.27.4.41									
	SONCC-MMER.27.4.41.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MMER.27.4.42									
	SONCC-MMER.27.4.42.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MMER.27.4.43									
	SONCC-MMER.27.4.43.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
	Population Total:	<i>\$89,629,061</i>	<i>\$4,322,255</i>	<i>\$13,046,532</i>	<i>\$3,722,255</i>	<i>\$11,196,532</i>	<i>\$4,132,610</i>	<i>\$126,049,245</i>	
Population: Middle Roque and Applegate Rivers									
SONCC-MRAR.7.3.49									
	SONCC-MRAR.7.3.49.1	\$0						\$0	ODA
	SONCC-MRAR.7.3.49.2	\$0						\$0	ODA
	SONCC-MRAR.7.3.49.3	\$0						\$0	ODA
	SONCC-MRAR.7.3.49.4	\$0						\$0	ODA
	SONCC-MRAR.7.3.49.5	\$0						\$0	ODA
	SONCC-MRAR.7.3.49.6	\$0						\$0	ODA
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-MRAR.7.2.50									
	SONCC-MRAR.7.2.50.1	\$68,030						\$68,030	ODF
	SONCC-MRAR.7.2.50.2	\$0						\$0	ODF
	SONCC-MRAR.7.2.50.3	\$0						\$0	ODF
	SONCC-MRAR.7.2.50.4	\$0						\$0	ODF
	SONCC-MRAR.7.2.50.5	\$0						\$0	ODF
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MRAR.3.1.5									
	SONCC-MRAR.3.1.5.1	\$73,540						\$73,540	OWRD
	SONCC-MRAR.3.1.5.2	\$36,770						\$36,770	OWRD

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$110,310						\$110,310	
SONCC-MRAR.2.1.12									
	SONCC-MRAR.2.1.12.1	\$0						\$0	ODFW
Action Total:		\$0						\$0	
SONCC-MRAR.2.1.13									
	SONCC-MRAR.2.1.13.1	\$17,008						\$17,008	NGO
	SONCC-MRAR.2.1.13.2	\$13,077,180						\$13,077,180	NGO
Action Total:		\$13,094,187						\$13,094,187	
SONCC-MRAR.2.1.71									
	SONCC-MRAR.2.1.71.1	\$0						\$0	ODFW
Action Total:		\$0						\$0	
SONCC-MRAR.2.1.72									
	SONCC-MRAR.2.1.72.1	\$17,008						\$17,008	NGO
	SONCC-MRAR.2.1.72.2	\$13,077,180						\$13,077,180	NGO
Action Total:		\$13,094,187						\$13,094,187	
SONCC-MRAR.2.2.10									
	SONCC-MRAR.2.2.10.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MRAR.2.2.10.2	\$2,440,899						\$2,440,899	NRCS/RCD
Action Total:		\$2,457,906						\$2,457,906	
SONCC-MRAR.2.2.11									
	SONCC-MRAR.2.2.11.1	\$17,008						\$17,008	ODFW
	SONCC-MRAR.2.2.11.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-MRAR.2.2.11.3	\$10,000						\$10,000	ODFW
Action Total:		\$112,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$537,233	
SONCC-MRAR.2.2.47									
	SONCC-MRAR.2.2.47.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MRAR.2.2.47.2	\$200,419						\$200,419	NRCS/RCD
	SONCC-MRAR.2.2.47.3	\$290,700						\$290,700	NRCS/RCD
Action Total:		\$508,127						\$508,127	
SONCC-MRAR.2.2.73									
	SONCC-MRAR.2.2.73.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MRAR.2.2.73.2	\$2,440,899						\$2,440,899	NRCS/RCD
Action Total:		\$2,457,906						\$2,457,906	
SONCC-MRAR.2.2.74									
	SONCC-MRAR.2.2.74.1	\$17,008						\$17,008	ODFW
	SONCC-MRAR.2.2.74.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-MRAR.2.2.74.3	\$10,000						\$10,000	ODFW
Action Total:		\$112,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$537,233	
SONCC-MRAR.2.2.75									
	SONCC-MRAR.2.2.75.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MRAR.2.2.75.2	\$200,419						\$200,419	NRCS/RCD
	SONCC-MRAR.2.2.75.3	\$290,700						\$290,700	NRCS/RCD
Action Total:		\$508,127						\$508,127	
SONCC-MRAR.3.1.42									
	SONCC-MRAR.3.1.42.1	\$0						\$0	OWRD
Action Total:		\$0						\$0	
SONCC-MRAR.3.1.66									
	SONCC-MRAR.3.1.66.1	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	OWRD

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	
SONCC-MRAR.3.1.78									
	SONCC-MRAR.3.1.78.1	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	OWRD
Action Total:		\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	
SONCC-MRAR.3.1.4									
	SONCC-MRAR.3.1.4.1	\$76,136						\$76,136	NGO
Action Total:		\$76,136						\$76,136	
SONCC-MRAR.22.3.45									
	SONCC-MRAR.22.3.45.1	\$0						\$0	County
	SONCC-MRAR.22.3.45.2	\$0						\$0	County
Action Total:		\$0						\$0	
SONCC-MRAR.22.1.46									
	SONCC-MRAR.22.1.46.1	\$0						\$0	County
	SONCC-MRAR.22.1.46.2	\$0						\$0	County
	SONCC-MRAR.22.1.46.3	\$0						\$0	County
Action Total:		\$0						\$0	
SONCC-MRAR.2.3.39									
	SONCC-MRAR.2.3.39.1	\$17,008						\$17,008	ODFW
	SONCC-MRAR.2.3.39.2							\$0	ODFW
	SONCC-MRAR.2.3.39.3	\$38,068						\$38,068	ODFW
	SONCC-MRAR.2.3.39.4							\$0	ODFW
Action Total:		\$55,076						\$55,076	
SONCC-MRAR.2.3.77									
	SONCC-MRAR.2.3.77.1	\$17,008						\$17,008	ODFW
	SONCC-MRAR.2.3.77.2	\$0						\$0	ODFW
	SONCC-MRAR.2.3.77.3	\$38,068						\$38,068	ODFW
	SONCC-MRAR.2.3.77.4							\$0	ODFW
Action Total:		\$55,076						\$55,076	
SONCC-MRAR.3.1.68									
	SONCC-MRAR.3.1.68.1	\$18,385						\$18,385	OWRD
	SONCC-MRAR.3.1.68.2	\$36,770						\$36,770	OWRD
Action Total:		\$55,155						\$55,155	
SONCC-MRAR.3.1.79									
	SONCC-MRAR.3.1.79.1	\$18,385						\$18,385	OWRD
	SONCC-MRAR.3.1.79.2	\$36,770						\$36,770	OWRD
Action Total:		\$55,155						\$55,155	
SONCC-MRAR.7.1.43									
	SONCC-MRAR.7.1.43.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MRAR.7.1.43.2	\$85,038						\$85,038	NRCS/RCD
	SONCC-MRAR.7.1.43.3	\$85,038						\$85,038	NRCS/RCD
Action Total:		\$187,083						\$187,083	
SONCC-MRAR.7.1.81									
	SONCC-MRAR.7.1.81.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MRAR.7.1.81.2	\$85,038						\$85,038	NRCS/RCD
	SONCC-MRAR.7.1.81.3	\$85,038						\$85,038	NRCS/RCD
Action Total:		\$187,083						\$187,083	
SONCC-MRAR.26.1.67									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MRAR.26.1.67.1	SONCC-MRAR.26.1.67.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-MRAR.10.2.29									
SONCC-MRAR.10.2.29.1	SONCC-MRAR.10.2.29.1	\$0						\$0	ODEQ
	Action Total:	\$0						\$0	
SONCC-MRAR.10.2.41									
SONCC-MRAR.10.2.41.1	SONCC-MRAR.10.2.41.1	\$0						\$0	ODEQ
	SONCC-MRAR.10.2.41.2	\$0						\$0	ODEQ
	Action Total:	\$0						\$0	
SONCC-MRAR.2.1.2									
SONCC-MRAR.2.1.2.1	SONCC-MRAR.2.1.2.1	\$76,136						\$76,136	NGO
	Action Total:	\$76,136						\$76,136	
SONCC-MRAR.2.2.63									
SONCC-MRAR.2.2.63.1	SONCC-MRAR.2.2.63.1	\$0						\$0	ODFW
	Action Total:	\$0						\$0	
SONCC-MRAR.7.1.8									
SONCC-MRAR.7.1.8.1	SONCC-MRAR.7.1.8.1	\$34,015						\$34,015	USFS
	SONCC-MRAR.7.1.8.3	\$27,907,200						\$27,907,200	USFS
	Action Total:	\$27,941,215						\$27,941,215	
SONCC-MRAR.7.1.9									
SONCC-MRAR.7.1.9.1	SONCC-MRAR.7.1.9.1	\$0						\$0	County
	SONCC-MRAR.7.1.9.2	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-MRAR.7.1.44									
SONCC-MRAR.7.1.44.1	SONCC-MRAR.7.1.44.1	\$170,075						\$170,075	USFS
	Action Total:	\$170,075						\$170,075	
SONCC-MRAR.8.2.51									
SONCC-MRAR.8.2.51.1	SONCC-MRAR.8.2.51.1	\$68,030						\$68,030	USACE
	SONCC-MRAR.8.2.51.2	\$140,000						\$140,000	USACE
	Action Total:	\$208,030						\$208,030	
SONCC-MRAR.5.1.15									
SONCC-MRAR.5.1.15.1	SONCC-MRAR.5.1.15.1	\$22,270						\$22,270	NGO
	SONCC-MRAR.5.1.15.2	\$655,508						\$655,508	NGO
	Action Total:	\$677,778						\$677,778	
SONCC-MRAR.5.1.35									
SONCC-MRAR.5.1.35.1	SONCC-MRAR.5.1.35.1	\$44,540						\$44,540	USFS
	SONCC-MRAR.5.1.35.2	\$1,311,016						\$1,311,016	USFS
	Action Total:	\$1,355,556						\$1,355,556	
SONCC-MRAR.5.1.80									
SONCC-MRAR.5.1.80.1	SONCC-MRAR.5.1.80.1	\$22,270						\$22,270	NGO
	SONCC-MRAR.5.1.80.2	\$655,508						\$655,508	NGO
	Action Total:	\$677,778						\$677,778	
SONCC-MRAR.8.1.6									
SONCC-MRAR.8.1.6.1	SONCC-MRAR.8.1.6.1	\$2,372,984						\$2,372,984	USFS
	SONCC-MRAR.8.1.6.2	\$55,031,640						\$55,031,640	USFS
	SONCC-MRAR.8.1.6.3	\$2,267,460						\$2,267,460	USFS
	SONCC-MRAR.8.1.6.4	\$3,728,035					\$3,728,035	\$7,456,069	USFS
	Action Total:	\$63,400,118					\$3,728,035	\$67,128,153	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MRAR.8.1.82	SONCC-MRAR.8.1.82.1	\$2,372,984						\$2,372,984	USFS
	SONCC-MRAR.8.1.82.2	\$55,031,640						\$55,031,640	USFS
	SONCC-MRAR.8.1.82.3	\$2,267,460						\$2,267,460	USFS
	SONCC-MRAR.8.1.82.4	\$3,728,035					\$3,728,035	\$7,456,069	USFS
	Action Total:	\$63,400,118					\$3,728,035	\$67,128,153	
SONCC-MRAR.10.2.37	SONCC-MRAR.10.2.37.1	\$45,925						\$45,925	ODFW
	SONCC-MRAR.10.2.37.2	\$114,813						\$114,813	ODFW
	Action Total:	\$160,738						\$160,738	
SONCC-MRAR.10.2.69	SONCC-MRAR.10.2.69.1	\$45,925						\$45,925	ODFW
	SONCC-MRAR.10.2.69.2	\$114,813						\$114,813	ODFW
	Action Total:	\$160,738						\$160,738	
SONCC-MRAR.10.7.65	SONCC-MRAR.10.7.65.1	\$8,504						\$8,504	ODFW
	SONCC-MRAR.10.7.65.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-MRAR.10.7.70	SONCC-MRAR.10.7.70.1	\$8,504						\$8,504	ODFW
	SONCC-MRAR.10.7.70.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-MRAR.3.1.31	SONCC-MRAR.3.1.31.1	\$68,030						\$68,030	USACE
	SONCC-MRAR.3.1.31.2	\$0						\$0	USACE
	Action Total:	\$68,030						\$68,030	
SONCC-MRAR.1.2.34	SONCC-MRAR.1.2.34.1	\$0						\$0	ODFW
	Action Total:	\$0						\$0	
SONCC-MRAR.7.1.32	SONCC-MRAR.7.1.32.1	\$0						\$0	BLM
	Action Total:	\$0						\$0	
SONCC-MRAR.16.1.16	SONCC-MRAR.16.1.16.1	\$34,015						\$34,015	NMFS
	SONCC-MRAR.16.1.16.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-MRAR.16.1.17	SONCC-MRAR.16.1.17.1	\$34,015						\$34,015	NMFS
	SONCC-MRAR.16.1.17.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-MRAR.16.2.18	SONCC-MRAR.16.2.18.1	\$34,015						\$34,015	NMFS
	SONCC-MRAR.16.2.18.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-MRAR.16.2.19	SONCC-MRAR.16.2.19.1	\$34,015						\$34,015	NMFS
	SONCC-MRAR.16.2.19.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MRAR.14.2.14									
	SONCC-MRAR.14.2.14.1	\$34,015						\$34,015	ODFW
	SONCC-MRAR.14.2.14.2	\$1,356,600	\$1,356,600	\$1,356,600	\$1,356,600	\$1,356,600	\$1,356,600	\$8,139,600	ODFW
	Action Total:	\$1,390,615	\$1,356,600	\$1,356,600	\$1,356,600	\$1,356,600	\$1,356,600	\$8,173,615	
SONCC-MRAR.27.2.23									
	SONCC-MRAR.27.2.23.1	\$136,060						\$136,060	ODFW
	SONCC-MRAR.27.2.23.2		\$81,800		\$81,800		\$81,800	\$245,400	ODFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-MRAR.27.2.24									
	SONCC-MRAR.27.2.24.1	\$19,181,454		\$19,181,454		\$19,181,454		\$57,544,362	ODFW
	Action Total:	\$19,181,454		\$19,181,454		\$19,181,454		\$57,544,362	
SONCC-MRAR.27.2.25									
	SONCC-MRAR.27.2.25.1	\$19,181,454		\$19,181,454		\$19,181,454		\$57,544,362	ODFW
	Action Total:	\$19,181,454		\$19,181,454		\$19,181,454		\$57,544,362	
SONCC-MRAR.27.2.26									
	SONCC-MRAR.27.2.26.1	\$19,181,454		\$19,181,454		\$19,181,454		\$57,544,362	ODFW
	Action Total:	\$19,181,454		\$19,181,454		\$19,181,454		\$57,544,362	
SONCC-MRAR.27.2.27									
	SONCC-MRAR.27.2.27.1	\$19,181,454		\$19,181,454		\$19,181,454		\$57,544,362	ODFW
	Action Total:	\$19,181,454		\$19,181,454		\$19,181,454		\$57,544,362	
SONCC-MRAR.27.2.28									
	SONCC-MRAR.27.2.28.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	ODFW
	SONCC-MRAR.27.2.28.2	\$34,015						\$34,015	ODFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-MRAR.27.2.58									
	SONCC-MRAR.27.2.58.1	\$34,015		\$34,015		\$34,015		\$102,045	ODFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-MRAR.27.2.59									
	SONCC-MRAR.27.2.59.1	\$68,030						\$68,030	ODFW
	Action Total:	\$68,030						\$68,030	
SONCC-MRAR.27.2.61									
	SONCC-MRAR.27.2.61.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-MRAR.27.2.64									
	SONCC-MRAR.27.2.64.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-MRAR.27.1.20									
	SONCC-MRAR.27.1.20.1	\$1,137,870	\$1,137,870	\$1,137,870	\$1,137,870	\$1,137,870	\$1,137,870	\$6,827,220	ODFW
	Action Total:	\$1,137,870	\$1,137,870	\$1,137,870	\$1,137,870	\$1,137,870	\$1,137,870	\$6,827,220	
SONCC-MRAR.27.1.21									
	SONCC-MRAR.27.1.21.1	\$379,290	\$379,290	\$379,290	\$379,290	\$379,290	\$379,290	\$2,275,740	ODFW
	Action Total:	\$379,290	\$379,290	\$379,290	\$379,290	\$379,290	\$379,290	\$2,275,740	
SONCC-MRAR.27.1.22									
	SONCC-MRAR.27.1.22.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-MRAR.27.1.33									
	SONCC-MRAR.27.1.33.1	\$68,030		\$68,030		\$68,030		\$204,090	ODFW
	Action Total:	\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-MRAR.27.1.36									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MRAR.27.1.36.1	\$34,015						\$34,015	NMFS
	SONCC-MRAR.27.1.36.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-MRAR.27.4.52	SONCC-MRAR.27.4.52.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MRAR.27.4.53	SONCC-MRAR.27.4.53.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MRAR.27.4.54	SONCC-MRAR.27.4.54.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MRAR.27.4.55	SONCC-MRAR.27.4.55.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MRAR.27.4.56	SONCC-MRAR.27.4.56.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MRAR.27.4.60	SONCC-MRAR.27.4.60.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-MRAR.27.4.62	SONCC-MRAR.27.4.62.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
	Population Total:	\$272,848,886	\$4,161,560	\$80,907,621	\$4,161,560	\$80,907,621	\$11,617,629	\$454,604,877	
Population: Mussel Creek									
SONCC-MusC.19.3.3	SONCC-MusC.19.3.3.2	\$68,030						\$68,030	ODF
	SONCC-MusC.19.3.3.3	\$0						\$0	ODF
	SONCC-MusC.19.3.3.4	\$0						\$0	ODF
	SONCC-MusC.19.3.3.5	\$0						\$0	ODF
	SONCC-MusC.19.3.3.6	\$0						\$0	ODF
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-MusC.2.1.6	SONCC-MusC.2.1.6.1	\$17,008						\$17,008	NGO
	SONCC-MusC.2.1.6.2	\$129,430						\$129,430	NGO
	Action Total:	<i>\$146,437</i>						<i>\$146,437</i>	
SONCC-MusC.2.1.35	SONCC-MusC.2.1.35.1	\$17,008						\$17,008	NGO
	SONCC-MusC.2.1.35.2	\$129,430						\$129,430	NGO
	Action Total:	<i>\$146,437</i>						<i>\$146,437</i>	
SONCC-MusC.2.2.4	SONCC-MusC.2.2.4.1	\$17,008						\$17,008	NGO
	SONCC-MusC.2.2.4.2	\$51,129						\$51,129	NGO
	Action Total:	<i>\$68,137</i>						<i>\$68,137</i>	
SONCC-MusC.2.2.5	SONCC-MusC.2.2.5.1	\$17,008						\$17,008	ODFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MusC.2.2.5.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-MusC.2.2.5.3	\$10,000						\$10,000	ODFW
	Action Total:	\$112,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$537,233	
SONCC-MusC.2.2.36									
	SONCC-MusC.2.2.36.1	\$17,008						\$17,008	NGO
	SONCC-MusC.2.2.36.2	\$51,129						\$51,129	NGO
	Action Total:	\$68,137						\$68,137	
SONCC-MusC.2.2.37									
	SONCC-MusC.2.2.37.1	\$17,008						\$17,008	ODFW
	SONCC-MusC.2.2.37.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-MusC.2.2.37.3	\$10,000						\$10,000	ODFW
	Action Total:	\$112,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$537,233	
SONCC-MusC.7.1.1									
	SONCC-MusC.7.1.1.1	\$8,503						\$8,503	County
	SONCC-MusC.7.1.1.2	\$34,015						\$34,015	County
	Action Total:	\$42,518						\$42,518	
SONCC-MusC.2.2.31									
	SONCC-MusC.2.2.31.1	\$0						\$0	ODFW
	Action Total:	\$0						\$0	
SONCC-MusC.7.1.19									
	SONCC-MusC.7.1.19.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MusC.7.1.19.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-MusC.7.1.19.3	\$85,038						\$85,038	NRCS/RCD
	Action Total:	\$119,053						\$119,053	
SONCC-MusC.7.1.20									
	SONCC-MusC.7.1.20.1	\$0						\$0	County
	SONCC-MusC.7.1.20.2	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-MusC.7.1.40									
	SONCC-MusC.7.1.40.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-MusC.7.1.40.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-MusC.7.1.40.3	\$85,038						\$85,038	NRCS/RCD
	Action Total:	\$119,053						\$119,053	
SONCC-MusC.22.1.21									
	SONCC-MusC.22.1.21.1	\$0						\$0	County
	SONCC-MusC.22.1.21.2	\$0						\$0	County
	SONCC-MusC.22.1.21.3	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-MusC.5.1.8									
	SONCC-MusC.5.1.8.1	\$17,008						\$17,008	ODFW
	Action Total:	\$17,008						\$17,008	
SONCC-MusC.5.1.39									
	SONCC-MusC.5.1.39.1	\$17,008						\$17,008	ODFW
	Action Total:	\$17,008						\$17,008	
SONCC-MusC.3.1.18									
	SONCC-MusC.3.1.18.1	\$0						\$0	OWRD
	Action Total:	\$0						\$0	

SONCC-MusC.3.1.38

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-MusC.3.1.38.1	\$0						\$0	OWRD
	Action Total:	\$0						\$0	
SONCC-MusC.8.1.11									
	SONCC-MusC.8.1.11.1	\$21,386						\$21,386	NGO
	SONCC-MusC.8.1.11.2	\$498,475						\$498,475	NGO
	SONCC-MusC.8.1.11.3	\$20,349						\$20,349	NGO
	SONCC-MusC.8.1.11.4	\$28,668						\$28,668	NGO
	Action Total:	\$568,878						\$568,878	
SONCC-MusC.8.1.41									
	SONCC-MusC.8.1.41.1	\$21,386						\$21,386	NGO
	SONCC-MusC.8.1.41.2	\$498,475						\$498,475	NGO
	SONCC-MusC.8.1.41.3	\$20,349						\$20,349	NGO
	SONCC-MusC.8.1.41.4	\$28,668						\$28,668	NGO
	Action Total:	\$568,878						\$568,878	
SONCC-MusC.10.7.33									
	SONCC-MusC.10.7.33.1	\$8,504						\$8,504	ODFW
	SONCC-MusC.10.7.33.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-MusC.10.7.34									
	SONCC-MusC.10.7.34.1	\$8,504						\$8,504	ODFW
	SONCC-MusC.10.7.34.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-MusC.22.1.17									
	SONCC-MusC.22.1.17.1	\$0						\$0	ODEQ
	SONCC-MusC.22.1.17.2	\$0						\$0	ODEQ
	Action Total:	\$0						\$0	
SONCC-MusC.22.1.7									
	SONCC-MusC.22.1.7.1	\$76,136						\$76,136	OWRD
	Action Total:	\$76,136						\$76,136	
SONCC-MusC.27.2.27									
	SONCC-MusC.27.2.27.1	\$1,224		\$1,224		\$1,224		\$3,672	ODFW
	Action Total:	\$1,224		\$1,224		\$1,224		\$3,672	
SONCC-MusC.27.2.28									
	SONCC-MusC.27.2.28.1	\$34,015		\$34,015		\$34,015		\$102,045	ODFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-MusC.27.2.29									
	SONCC-MusC.27.2.29.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	ODFW
	SONCC-MusC.27.2.29.2	\$34,015						\$34,015	ODFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-MusC.27.2.13									
	SONCC-MusC.27.2.13.1	\$1,224		\$1,224		\$1,224		\$3,672	ODFW
	Action Total:	\$1,224		\$1,224		\$1,224		\$3,672	
SONCC-MusC.27.2.14									
	SONCC-MusC.27.2.14.1	\$1,224		\$1,224		\$1,224		\$3,672	ODFW
	Action Total:	\$1,224		\$1,224		\$1,224		\$3,672	
SONCC-MusC.27.2.16									
	SONCC-MusC.27.2.16.1	\$68,030						\$68,030	ODFW
	Action Total:	\$68,030						\$68,030	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-MusC.27.2.32	SONCC-MusC.27.2.32.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-MusC.27.2.10	SONCC-MusC.27.2.10.1	\$136,060						\$136,060	ODFW
	SONCC-MusC.27.2.10.2			\$81,800			\$81,800	\$163,600	ODFW
	Action Total:	<i>\$136,060</i>		<i>\$81,800</i>			<i>\$81,800</i>	<i>\$299,660</i>	
SONCC-MusC.27.1.26	SONCC-MusC.27.1.26.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-MusC.27.1.12	SONCC-MusC.27.1.12.1	\$3,030	\$3,030	\$3,030	\$3,030	\$3,030	\$3,030	\$18,180	ODFW
	Action Total:	<i>\$3,030</i>	<i>\$3,030</i>	<i>\$3,030</i>	<i>\$3,030</i>	<i>\$3,030</i>	<i>\$3,030</i>	<i>\$18,180</i>	
SONCC-MusC.27.1.15	SONCC-MusC.27.1.15.1	\$34,015						\$34,015	NMFS
	SONCC-MusC.27.1.15.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-MusC.27.4.23	SONCC-MusC.27.4.23.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MusC.27.4.24	SONCC-MusC.27.4.24.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MusC.27.4.25	SONCC-MusC.27.4.25.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-MusC.27.4.30	SONCC-MusC.27.4.30.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
Population Total:		<i>\$3,071,149</i>	<i>\$638,478</i>	<i>\$757,965</i>	<i>\$638,478</i>	<i>\$676,165</i>	<i>\$720,278</i>	<i>\$6,502,511</i>	
Population: North Fork Eel River									
SONCC-NFER.8.1.1	SONCC-NFER.8.1.1.1	\$450,306						\$450,306	NGO
	SONCC-NFER.8.1.1.2	\$10,846,816						\$10,846,816	NGO
	SONCC-NFER.8.1.1.3	\$1,845,177						\$1,845,177	NGO
	SONCC-NFER.8.1.1.4	\$1,349,785					\$1,349,785	\$2,699,570	NGO
	Action Total:	<i>\$14,492,084</i>					<i>\$1,349,785</i>	<i>\$15,841,869</i>	
SONCC-NFER.8.1.9	SONCC-NFER.8.1.9.1	\$9,100						\$9,100	NRCS/RCD
	SONCC-NFER.8.1.9.2	\$18,200						\$18,200	NRCS/RCD
	SONCC-NFER.8.1.9.3	\$45,500						\$45,500	NRCS/RCD
	Action Total:	<i>\$72,800</i>						<i>\$72,800</i>	
SONCC-NFER.8.1.36	SONCC-NFER.8.1.36.1	\$9,100						\$9,100	NRCS/RCD
	SONCC-NFER.8.1.36.2	\$18,200						\$18,200	NRCS/RCD
	SONCC-NFER.8.1.36.3	\$45,500						\$45,500	NRCS/RCD
	Action Total:	<i>\$72,800</i>						<i>\$72,800</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-NFER.10.1.11									
	SONCC-NFER.10.1.11.1	\$17,008						\$17,008	USFS
	SONCC-NFER.10.1.11.2	\$70,785						\$70,785	USFS
	Action Total:	<i>\$87,793</i>						<i>\$87,793</i>	
SONCC-NFER.10.1.30									
	SONCC-NFER.10.1.30.1	\$17,008						\$17,008	USFS
	SONCC-NFER.10.1.30.2	\$70,785						\$70,785	USFS
	Action Total:	<i>\$87,793</i>						<i>\$87,793</i>	
SONCC-NFER.10.7.29									
	SONCC-NFER.10.7.29.1	\$8,504						\$8,504	CDFW
	SONCC-NFER.10.7.29.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-NFER.10.7.31									
	SONCC-NFER.10.7.31.1	\$8,504						\$8,504	CDFW
	SONCC-NFER.10.7.31.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-NFER.3.1.3									
	SONCC-NFER.3.1.3.1	\$175,000						\$175,000	NGO
	SONCC-NFER.3.1.3.2	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$7,500	NGO
	Action Total:	<i>\$176,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$182,500</i>	
SONCC-NFER.3.1.4									
	SONCC-NFER.3.1.4.1	\$17,008						\$17,008	USFS
	SONCC-NFER.3.1.4.2	\$31,960						\$31,960	USFS
	Action Total:	<i>\$48,968</i>						<i>\$48,968</i>	
SONCC-NFER.3.1.34									
	SONCC-NFER.3.1.34.1	\$175,000						\$175,000	NGO
	SONCC-NFER.3.1.34.2	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$7,500	NGO
	Action Total:	<i>\$176,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$182,500</i>	
SONCC-NFER.3.1.35									
	SONCC-NFER.3.1.35.1	\$17,008						\$17,008	USFS
	SONCC-NFER.3.1.35.2	\$31,960						\$31,960	USFS
	Action Total:	<i>\$48,968</i>						<i>\$48,968</i>	
SONCC-NFER.7.1.6									
	SONCC-NFER.7.1.6.1	\$34,015						\$34,015	USFS
	SONCC-NFER.7.1.6.2	\$627,912						\$627,912	USFS
	SONCC-NFER.7.1.6.3	\$1,088,381						\$1,088,381	USFS
	Action Total:	<i>\$1,750,308</i>						<i>\$1,750,308</i>	
SONCC-NFER.7.1.10									
	SONCC-NFER.7.1.10.1	\$18,200						\$18,200	USFS
	SONCC-NFER.7.1.10.2	\$343,200						\$343,200	USFS
	Action Total:	<i>\$361,400</i>						<i>\$361,400</i>	
SONCC-NFER.2.1.2									
	SONCC-NFER.2.1.2.1	\$17,008						\$17,008	CDFW
	SONCC-NFER.2.1.2.2	\$43,971						\$43,971	CDFW
	Action Total:	<i>\$60,978</i>						<i>\$60,978</i>	
SONCC-NFER.2.1.7									
	SONCC-NFER.2.1.7.1	\$17,008						\$17,008	NGO

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-NFER.2.1.7.2	\$235,576						\$235,576	NGO
	Action Total:	<i>\$252,583</i>						<i>\$252,583</i>	
SONCC-NFER.2.1.32									
	SONCC-NFER.2.1.32.1	\$17,008						\$17,008	CDFW
	SONCC-NFER.2.1.32.2	\$43,971						\$43,971	CDFW
	Action Total:	<i>\$60,978</i>						<i>\$60,978</i>	
SONCC-NFER.2.1.33									
	SONCC-NFER.2.1.33.1	\$17,008						\$17,008	NGO
	SONCC-NFER.2.1.33.2	\$235,576						\$235,576	NGO
	Action Total:	<i>\$252,583</i>						<i>\$252,583</i>	
SONCC-NFER.1.2.5									
	SONCC-NFER.1.2.5.1	\$0						\$0	NGO
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-NFER.14.2.8									
	SONCC-NFER.14.2.8.1	\$34,015						\$34,015	CDFW
	SONCC-NFER.14.2.8.2	\$1,795,500						\$1,795,500	CDFW
	Action Total:	<i>\$1,829,515</i>						<i>\$1,829,515</i>	
SONCC-NFER.27.2.24									
	SONCC-NFER.27.2.24.1	\$68,030						\$68,030	CDFW
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-NFER.27.2.26									
	SONCC-NFER.27.2.26.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-NFER.27.2.27									
	SONCC-NFER.27.2.27.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-NFER.27.2.12									
	SONCC-NFER.27.2.12.1	\$97,110		\$97,110		\$97,110		\$291,330	CDFW
	Action Total:	<i>\$97,110</i>		<i>\$97,110</i>		<i>\$97,110</i>		<i>\$291,330</i>	
SONCC-NFER.27.2.13									
	SONCC-NFER.27.2.13.1	\$97,110		\$97,110		\$97,110		\$291,330	CDFW
	Action Total:	<i>\$97,110</i>		<i>\$97,110</i>		<i>\$97,110</i>		<i>\$291,330</i>	
SONCC-NFER.27.2.16									
	SONCC-NFER.27.2.16.1	\$97,110		\$97,110		\$97,110		\$291,330	CDFW
	Action Total:	<i>\$97,110</i>		<i>\$97,110</i>		<i>\$97,110</i>		<i>\$291,330</i>	
SONCC-NFER.27.2.17									
	SONCC-NFER.27.2.17.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-NFER.27.2.18									
	SONCC-NFER.27.2.18.1	\$97,110		\$97,110		\$97,110		\$291,330	CDFW
	Action Total:	<i>\$97,110</i>		<i>\$97,110</i>		<i>\$97,110</i>		<i>\$291,330</i>	
SONCC-NFER.27.2.19									
	SONCC-NFER.27.2.19.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-NFER.27.2.19.2	\$34,015						\$34,015	CDFW
	Action Total:	<i>\$99,926</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$298,801</i>	
SONCC-NFER.27.2.28									
	SONCC-NFER.27.2.28.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-NFER.27.2.37									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-NFER.27.2.37.1	\$136,060						\$136,060	CDFW
	SONCC-NFER.27.2.37.2			\$81,800				\$81,800	CDFW
	Action Total:	<i>\$136,060</i>		<i>\$81,800</i>				<i>\$217,860</i>	
SONCC-NFER.27.1.23	SONCC-NFER.27.1.23.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-NFER.27.1.25	SONCC-NFER.27.1.25.1	\$26,987	\$26,987	\$26,987	\$26,987	\$26,987	\$26,987	\$161,922	CDFW
	Action Total:	<i>\$26,987</i>	<i>\$26,987</i>	<i>\$26,987</i>	<i>\$26,987</i>	<i>\$26,987</i>	<i>\$26,987</i>	<i>\$161,922</i>	
SONCC-NFER.27.1.14	SONCC-NFER.27.1.14.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	CDFW
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-NFER.27.4.20	SONCC-NFER.27.4.20.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-NFER.27.4.21	SONCC-NFER.27.4.21.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-NFER.27.4.22	SONCC-NFER.27.4.22.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
	Population Total:	\$21,215,400	\$682,147	\$1,186,402	\$682,147	\$1,104,602	\$2,031,932	\$26,902,630	
Population: Norton/Widow White Creek									
SONCC-NWWC.7.1.1	SONCC-NWWC.7.1.1.1	\$0						\$0	County
	SONCC-NWWC.7.1.1.2	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-NWWC.7.1.2	SONCC-NWWC.7.1.2.1	\$34,015						\$34,015	County
	SONCC-NWWC.7.1.2.2	\$35,156						\$35,156	County
	SONCC-NWWC.7.1.2.3	\$279,072						\$279,072	County
	Action Total:	<i>\$348,243</i>						<i>\$348,243</i>	
SONCC-NWWC.2.1.7	SONCC-NWWC.2.1.7.1	\$17,008						\$17,008	CDFW
	SONCC-NWWC.2.1.7.2	\$262,283						\$262,283	CDFW
	Action Total:	<i>\$279,291</i>						<i>\$279,291</i>	
SONCC-NWWC.2.1.26	SONCC-NWWC.2.1.26.1	\$17,008						\$17,008	CDFW
	SONCC-NWWC.2.1.26.2	\$262,283						\$262,283	CDFW
	Action Total:	<i>\$279,291</i>						<i>\$279,291</i>	
SONCC-NWWC.2.2.8	SONCC-NWWC.2.2.8.1	\$17,008						\$17,008	NGO
	SONCC-NWWC.2.2.8.2	\$51,129						\$51,129	NGO
	Action Total:	<i>\$68,137</i>						<i>\$68,137</i>	
SONCC-NWWC.2.2.27	SONCC-NWWC.2.2.27.1	\$17,008						\$17,008	NGO
	SONCC-NWWC.2.2.27.2	\$51,129						\$51,129	NGO
	Action Total:	<i>\$68,137</i>						<i>\$68,137</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-NWWC.5.1.3									
	SONCC-NWWC.5.1.3.1	\$17,008						\$17,008	County
	SONCC-NWWC.5.1.3.2	\$406,977						\$406,977	Caltrans
	SONCC-NWWC.5.1.3.3	\$441,860						\$441,860	County
	Action Total:	<i>\$865,844</i>						<i>\$865,844</i>	
SONCC-NWWC.5.1.29									
	SONCC-NWWC.5.1.29.1	\$17,008						\$17,008	County
	SONCC-NWWC.5.1.29.2	\$406,977						\$406,977	Caltrans
	SONCC-NWWC.5.1.29.3	\$441,860						\$441,860	County
	Action Total:	<i>\$865,844</i>						<i>\$865,844</i>	
SONCC-NWWC.10.2.16									
	SONCC-NWWC.10.2.16.1	\$45,925						\$45,925	CDFW
	SONCC-NWWC.10.2.16.2	\$114,813						\$114,813	CDFW
	Action Total:	<i>\$160,738</i>						<i>\$160,738</i>	
SONCC-NWWC.10.2.24									
	SONCC-NWWC.10.2.24.1	\$45,925						\$45,925	CDFW
	SONCC-NWWC.10.2.24.2	\$114,813						\$114,813	CDFW
	Action Total:	<i>\$160,738</i>						<i>\$160,738</i>	
SONCC-NWWC.2.2.9									
	SONCC-NWWC.2.2.9.1	\$13,504						\$13,504	CDFW
	SONCC-NWWC.2.2.9.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$98,541</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$523,729</i>	
SONCC-NWWC.2.2.28									
	SONCC-NWWC.2.2.28.1	\$27,008						\$27,008	CDFW
	SONCC-NWWC.2.2.28.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-NWWC.10.7.23									
	SONCC-NWWC.10.7.23.1	\$8,504						\$8,504	CDFW
	SONCC-NWWC.10.7.23.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-NWWC.10.7.25									
	SONCC-NWWC.10.7.25.1	\$8,504						\$8,504	CDFW
	SONCC-NWWC.10.7.25.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-NWWC.27.2.6									
	SONCC-NWWC.27.2.6.1	\$136,060						\$136,060	CDFW
	SONCC-NWWC.27.2.6.2			\$81,800			\$81,800	\$163,600	CDFW
	Action Total:	<i>\$136,060</i>		<i>\$81,800</i>			<i>\$81,800</i>	<i>\$299,660</i>	
SONCC-NWWC.27.2.11									
	SONCC-NWWC.27.2.11.1	\$97,110		\$97,110		\$97,110		\$291,330	CDFW
	Action Total:	<i>\$97,110</i>		<i>\$97,110</i>		<i>\$97,110</i>		<i>\$291,330</i>	
SONCC-NWWC.27.2.12									
	SONCC-NWWC.27.2.12.1	\$2,432		\$2,432		\$2,432		\$7,296	CDFW
	Action Total:	<i>\$2,432</i>		<i>\$2,432</i>		<i>\$2,432</i>		<i>\$7,296</i>	
SONCC-NWWC.27.2.22									
	SONCC-NWWC.27.2.22.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-NWWC.27.1.21									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-NWWC.27.1.21.1	SONCC-NWWC.27.1.21.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-NWWC.27.1.10	SONCC-NWWC.27.1.10.1	\$4,270	\$4,270	\$4,270	\$4,270	\$4,270	\$4,270	\$25,620	CDFW
	Action Total:	<i>\$4,270</i>	<i>\$4,270</i>	<i>\$4,270</i>	<i>\$4,270</i>	<i>\$4,270</i>	<i>\$4,270</i>	<i>\$25,620</i>	
SONCC-NWWC.27.1.13	SONCC-NWWC.27.1.13.1	\$34,015						\$34,015	NMFS
	SONCC-NWWC.27.1.13.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-NWWC.27.4.17	SONCC-NWWC.27.4.17.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-NWWC.27.4.18	SONCC-NWWC.27.4.18.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-NWWC.27.4.19	SONCC-NWWC.27.4.19.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-NWWC.27.4.20	SONCC-NWWC.27.4.20.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-NWWC.2.2.15	SONCC-NWWC.2.2.15.1							\$0	CDFW
	Action Total:							<i>\$0</i>	
SONCC-NWWC.10.2.4	SONCC-NWWC.10.2.4.1							\$0	NGO
	Action Total:							<i>\$0</i>	
SONCC-NWWC.10.2.5	SONCC-NWWC.10.2.5.1							\$0	NGO
	Action Total:							<i>\$0</i>	
Population Total:		\$3,938,095	\$514,700	\$696,042	\$514,700	\$614,242	\$596,500	\$6,874,280	
Population: Pistol River									
SONCC-PisR.19.3.3	SONCC-PisR.19.3.3.1	\$34,015						\$34,015	ODF
	SONCC-PisR.19.3.3.2	\$0						\$0	ODF
	SONCC-PisR.19.3.3.3	\$0						\$0	ODF
	SONCC-PisR.19.3.3.4	\$0						\$0	ODF
	SONCC-PisR.19.3.3.5	\$0						\$0	ODF
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-PisR.19.3.40	SONCC-PisR.19.3.40.1	\$34,015						\$34,015	ODF
	SONCC-PisR.19.3.40.2	\$0						\$0	ODF
	SONCC-PisR.19.3.40.3	\$0						\$0	ODF
	SONCC-PisR.19.3.40.4	\$0						\$0	ODF
	SONCC-PisR.19.3.40.5	\$0						\$0	ODF
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-PisR.2.2.6									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-PisR.2.2.6.1	\$17,008						\$17,008	USFS
	SONCC-PisR.2.2.6.2	\$55,858						\$55,858	USFS
	Action Total:	<i>\$72,866</i>						<i>\$72,866</i>	
SONCC-PisR.2.2.7									
	SONCC-PisR.2.2.7.1	\$17,008						\$17,008	ODFW
	SONCC-PisR.2.2.7.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-PisR.2.2.7.3	\$10,000						\$10,000	ODFW
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-PisR.2.2.41									
	SONCC-PisR.2.2.41.1	\$17,008						\$17,008	USFS
	SONCC-PisR.2.2.41.2	\$55,858						\$55,858	USFS
	Action Total:	<i>\$72,866</i>						<i>\$72,866</i>	
SONCC-PisR.2.2.42									
	SONCC-PisR.2.2.42.1	\$17,008						\$17,008	ODFW
	SONCC-PisR.2.2.42.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-PisR.2.2.42.3	\$10,000						\$10,000	ODFW
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-PisR.28.1.4									
	SONCC-PisR.28.1.4.1	\$232,416						\$232,416	NGO
	SONCC-PisR.28.1.4.2	\$3,150,362						\$3,150,362	NGO
	SONCC-PisR.28.1.4.3	\$303,782						\$303,782	NGO
	SONCC-PisR.28.1.4.4	\$499,301				\$499,301		\$998,602	NGO
	Action Total:	<i>\$4,185,861</i>				<i>\$499,301</i>		<i>\$4,685,162</i>	
SONCC-PisR.12.1.26									
	SONCC-PisR.12.1.26.1	\$0						\$0	ODA
	SONCC-PisR.12.1.26.2	\$0						\$0	ODA
	SONCC-PisR.12.1.26.3	\$0						\$0	ODA
	SONCC-PisR.12.1.26.4	\$0						\$0	ODA
	SONCC-PisR.12.1.26.5	\$0						\$0	ODA
	SONCC-PisR.12.1.26.6	\$0						\$0	ODA
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-PisR.7.1.22									
	SONCC-PisR.7.1.22.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-PisR.7.1.22.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-PisR.7.1.22.3	\$85,038						\$85,038	NRCS/RCD
	Action Total:	<i>\$119,053</i>						<i>\$119,053</i>	
SONCC-PisR.7.1.45									
	SONCC-PisR.7.1.45.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-PisR.7.1.45.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-PisR.7.1.45.3	\$85,038						\$85,038	NRCS/RCD
	Action Total:	<i>\$119,053</i>						<i>\$119,053</i>	
SONCC-PisR.28.2.25									
	SONCC-PisR.28.2.25.1	\$0						\$0	County
	SONCC-PisR.28.2.25.2	\$0						\$0	County
	SONCC-PisR.28.2.25.3	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-PisR.7.1.2									

SONCC-PisR.7.1.2

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-PisR.7.1.2.1	\$0						\$0	County
	SONCC-PisR.7.1.2.2	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-PisR.2.2.35	SONCC-PisR.2.2.35.1	\$0						\$0	ODFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-PisR.10.2.9	SONCC-PisR.10.2.9.1	\$136,060						\$136,060	EPA
	Action Total:	<i>\$136,060</i>						<i>\$136,060</i>	
SONCC-PisR.7.1.23	SONCC-PisR.7.1.23.1	\$170,075						\$170,075	USFS
	Action Total:	<i>\$170,075</i>						<i>\$170,075</i>	
SONCC-PisR.7.1.24	SONCC-PisR.7.1.24.1	\$0						\$0	County
	SONCC-PisR.7.1.24.2	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-PisR.7.1.1	SONCC-PisR.7.1.1.1	\$34,015						\$34,015	ODF
	SONCC-PisR.7.1.1.3	\$914,648						\$914,648	ODF
	Action Total:	<i>\$948,663</i>						<i>\$948,663</i>	
SONCC-PisR.5.1.10	SONCC-PisR.5.1.10.1	\$22,270						\$22,270	USFS
	Action Total:	<i>\$22,270</i>						<i>\$22,270</i>	
SONCC-PisR.5.1.44	SONCC-PisR.5.1.44.1	\$22,270						\$22,270	USFS
	Action Total:	<i>\$22,270</i>						<i>\$22,270</i>	
SONCC-PisR.3.1.21	SONCC-PisR.3.1.21.1	\$0						\$0	OWRD
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-PisR.3.1.43	SONCC-PisR.3.1.43.1	\$0						\$0	OWRD
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-PisR.10.2.19	SONCC-PisR.10.2.19.1	\$45,925						\$45,925	ODFW
	SONCC-PisR.10.2.19.2	\$114,813						\$114,813	ODFW
	Action Total:	<i>\$160,738</i>						<i>\$160,738</i>	
SONCC-PisR.10.2.38	SONCC-PisR.10.2.38.1	\$45,925						\$45,925	ODFW
	SONCC-PisR.10.2.38.2	\$114,813						\$114,813	ODFW
	Action Total:	<i>\$160,738</i>						<i>\$160,738</i>	
SONCC-PisR.10.7.37	SONCC-PisR.10.7.37.1	\$8,504						\$8,504	ODFW
	SONCC-PisR.10.7.37.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-PisR.10.7.39	SONCC-PisR.10.7.39.1	\$8,504						\$8,504	ODFW
	SONCC-PisR.10.7.39.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-PisR.3.1.12	SONCC-PisR.3.1.12.1	\$76,136						\$76,136	NGO
	Action Total:	\$76,136						\$76,136	
SONCC-PisR.10.2.20	SONCC-PisR.10.2.20.1	\$0						\$0	ODEQ
	SONCC-PisR.10.2.20.2	\$0						\$0	ODEQ
	Action Total:	\$0						\$0	
SONCC-PisR.10.2.8	SONCC-PisR.10.2.8.1	\$76,136						\$76,136	OWRD
	Action Total:	\$76,136						\$76,136	
SONCC-PisR.27.2.30	SONCC-PisR.27.2.30.1	\$30,462		\$30,462		\$30,462		\$91,386	ODFW
	Action Total:	\$30,462		\$30,462		\$30,462		\$91,386	
SONCC-PisR.27.2.31	SONCC-PisR.27.2.31.1	\$34,015		\$34,015		\$34,015		\$102,045	ODFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-PisR.27.2.32	SONCC-PisR.27.2.32.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	ODFW
	SONCC-PisR.27.2.32.2	\$34,015						\$34,015	ODFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-PisR.27.2.33	SONCC-PisR.27.2.33.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-PisR.27.2.15	SONCC-PisR.27.2.15.1	\$30,462		\$30,462		\$30,462		\$91,386	ODFW
	Action Total:	\$30,462		\$30,462		\$30,462		\$91,386	
SONCC-PisR.27.2.16	SONCC-PisR.27.2.16.1	\$30,462		\$30,462		\$30,462		\$91,386	ODFW
	Action Total:	\$30,462		\$30,462		\$30,462		\$91,386	
SONCC-PisR.27.2.18	SONCC-PisR.27.2.18.1	\$68,030						\$68,030	ODFW
	Action Total:	\$68,030						\$68,030	
SONCC-PisR.27.2.36	SONCC-PisR.27.2.36.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-PisR.27.2.13	SONCC-PisR.27.2.13.1	\$136,060						\$136,060	ODFW
	SONCC-PisR.27.2.13.2			\$81,800			\$81,800	\$163,600	ODFW
	Action Total:	\$136,060		\$81,800			\$81,800	\$299,660	
SONCC-PisR.27.1.29	SONCC-PisR.27.1.29.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-PisR.27.1.14	SONCC-PisR.27.1.14.1	\$15,115	\$15,115	\$15,115	\$15,115	\$15,115	\$15,115	\$90,690	ODFW
	Action Total:	\$15,115	\$15,115	\$15,115	\$15,115	\$15,115	\$15,115	\$90,690	
SONCC-PisR.27.1.17	SONCC-PisR.27.1.17.1	\$34,015						\$34,015	NMFS
	SONCC-PisR.27.1.17.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-PisR.27.4.27	SONCC-PisR.27.4.27.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-PisR.27.4.28	SONCC-PisR.27.4.28.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-PisR.27.4.34	SONCC-PisR.27.4.34.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
Population Total:		\$7,641,296	\$735,805	\$943,006	\$735,805	\$1,360,507	\$817,605	\$12,234,024	
Population: Redwood Creek									
SONCC-RedC.1.2.5	SONCC-RedC.1.2.5.1	\$89,080						\$89,080	USACE
	SONCC-RedC.1.2.5.2	\$0						\$0	USACE
	SONCC-RedC.1.2.5.3	\$1,000,000						\$1,000,000	USACE
	SONCC-RedC.1.2.5.4	\$468,653						\$468,653	USACE
	SONCC-RedC.1.2.5.5	\$766,990						\$766,990	USACE
	Action Total:	\$2,324,723						\$2,324,723	
SONCC-RedC.7.1.38	SONCC-RedC.7.1.38.1	\$45,925						\$45,925	USACE
	SONCC-RedC.7.1.38.2	\$0						\$0	USACE
	SONCC-RedC.7.1.38.3	\$18,976,896						\$18,976,896	USACE
	Action Total:	\$19,022,821						\$19,022,821	
SONCC-RedC.1.2.32	SONCC-RedC.1.2.32.1	\$34,015						\$34,015	CDFW
	SONCC-RedC.1.2.32.2	\$34,015						\$34,015	CDFW
	SONCC-RedC.1.2.32.3	\$682,150						\$682,150	CDFW
	Action Total:	\$750,180						\$750,180	
SONCC-RedC.2.1.4	SONCC-RedC.2.1.4.1	\$17,008						\$17,008	NPS
	SONCC-RedC.2.1.4.2	\$2,410,540						\$2,410,540	NPS
	Action Total:	\$2,427,548						\$2,427,548	
SONCC-RedC.2.1.58	SONCC-RedC.2.1.58.1	\$17,008						\$17,008	NPS
	SONCC-RedC.2.1.58.2	\$2,410,540						\$2,410,540	NPS
	Action Total:	\$2,427,548						\$2,427,548	
SONCC-RedC.2.2.36	SONCC-RedC.2.2.36.1	\$17,008						\$17,008	CDFW
	SONCC-RedC.2.2.36.2	\$460,161						\$460,161	CDFW
	Action Total:	\$477,169						\$477,169	
SONCC-RedC.2.2.40	SONCC-RedC.2.2.40.1	\$0						\$0	NPS
	SONCC-RedC.2.2.40.2	\$0						\$0	NPS
	Action Total:	\$0						\$0	
SONCC-RedC.2.2.59	SONCC-RedC.2.2.59.1	\$17,008						\$17,008	CDFW
	SONCC-RedC.2.2.59.2	\$460,161						\$460,161	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$477,169						\$477,169	
SONCC-RedC.5.1.10									
	SONCC-RedC.5.1.10.1	\$44,540						\$44,540	NPS
	SONCC-RedC.5.1.10.2	\$436,045						\$436,045	NPS
Action Total:		\$480,585						\$480,585	
SONCC-RedC.8.1.13									
	SONCC-RedC.8.1.13.1	\$68,030						\$68,030	NPS
	SONCC-RedC.8.1.13.2	\$68,030						\$68,030	NGO
	SONCC-RedC.8.1.13.3	\$528,240						\$528,240	NGO
Action Total:		\$664,300						\$664,300	
SONCC-RedC.10.1.41									
	SONCC-RedC.10.1.41.1	\$17,008						\$17,008	NPS
	SONCC-RedC.10.1.41.2	\$109,570						\$109,570	NPS
	SONCC-RedC.10.1.41.3	\$87,210						\$87,210	NPS
Action Total:		\$213,788						\$213,788	
SONCC-RedC.10.1.56									
	SONCC-RedC.10.1.56.1	\$17,008						\$17,008	NPS
	SONCC-RedC.10.1.56.2	\$109,570						\$109,570	NPS
	SONCC-RedC.10.1.56.3	\$87,210						\$87,210	NPS
Action Total:		\$213,788						\$213,788	
SONCC-RedC.27.2.35									
	SONCC-RedC.27.2.35.1	\$68,030						\$68,030	CDFW
Action Total:		\$68,030						\$68,030	
SONCC-RedC.2.1.6									
	SONCC-RedC.2.1.6.1	\$34,015						\$34,015	NPS
	SONCC-RedC.2.1.6.2	\$34,015						\$34,015	NPS
	SONCC-RedC.2.1.6.3	\$338,776						\$338,776	NPS
	SONCC-RedC.2.1.6.4	\$470,000						\$470,000	NGO
	SONCC-RedC.2.1.6.5	\$0						\$0	CDFW
Action Total:		\$876,806						\$876,806	
SONCC-RedC.5.1.11									
	SONCC-RedC.5.1.11.1	\$94,040						\$94,040	NPS
	SONCC-RedC.5.1.11.2	\$26,163						\$26,163	NPS
	SONCC-RedC.5.1.11.3	\$25,563						\$25,563	NPS
Action Total:		\$145,766						\$145,766	
SONCC-RedC.5.1.61									
	SONCC-RedC.5.1.61.1	\$94,040						\$94,040	NPS
	SONCC-RedC.5.1.61.2	\$26,163						\$26,163	NPS
	SONCC-RedC.5.1.61.3	\$25,563						\$25,563	NPS
Action Total:		\$145,766						\$145,766	
SONCC-RedC.7.1.14									
	SONCC-RedC.7.1.14.1	\$0						\$0	CDF
	SONCC-RedC.7.1.14.2	\$34,015						\$34,015	CDF
	SONCC-RedC.7.1.14.3	\$34,015						\$34,015	CDF
Action Total:		\$68,030						\$68,030	
SONCC-RedC.26.1.55									
	SONCC-RedC.26.1.55.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-RedC.8.1.12									
	SONCC-RedC.8.1.12.1	\$18,200						\$18,200	NPS
	SONCC-RedC.8.1.12.2	\$3,518,112						\$3,518,112	NPS
Action Total:		\$3,536,312						\$3,536,312	
SONCC-RedC.8.1.15									
	SONCC-RedC.8.1.15.1	\$980,707						\$980,707	NPS
	SONCC-RedC.8.1.15.2	\$35,491,420						\$35,491,420	NPS
	SONCC-RedC.8.1.15.3	\$531,353						\$531,353	NPS
	SONCC-RedC.8.1.15.4	\$701,172					\$701,172	\$1,402,343	NPS
Action Total:		\$37,704,651					\$701,172	\$38,405,823	
SONCC-RedC.8.1.16									
	SONCC-RedC.8.1.16.1	\$0						\$0	County
Action Total:		\$0						\$0	
SONCC-RedC.8.1.64									
	SONCC-RedC.8.1.64.1	\$980,707						\$980,707	NPS
	SONCC-RedC.8.1.64.2	\$35,491,420						\$35,491,420	NPS
	SONCC-RedC.8.1.64.3	\$531,353						\$531,353	NPS
	SONCC-RedC.8.1.64.4	\$701,172					\$701,172	\$1,402,343	NPS
Action Total:		\$37,704,651					\$701,172	\$38,405,823	
SONCC-RedC.7.1.54									
	SONCC-RedC.7.1.54.1	\$110,947						\$110,947	Private
Action Total:		\$110,947						\$110,947	
SONCC-RedC.7.1.7									
	SONCC-RedC.7.1.7.1	\$8,503						\$8,503	County
	SONCC-RedC.7.1.7.2	\$34,015						\$34,015	County
Action Total:		\$42,518						\$42,518	
SONCC-RedC.7.1.9									
	SONCC-RedC.7.1.9.1	\$5,669						\$5,669	CDF
Action Total:		\$5,669						\$5,669	
SONCC-RedC.10.2.42									
	SONCC-RedC.10.2.42.1	\$45,925						\$45,925	RWQCB
	SONCC-RedC.10.2.42.2	\$0						\$0	RWQCB
Action Total:		\$45,925						\$45,925	
SONCC-RedC.10.1.45									
	SONCC-RedC.10.1.45.1	\$0						\$0	RWQCB
	SONCC-RedC.10.1.45.2	\$0						\$0	RWQCB
	SONCC-RedC.10.1.45.3	\$0						\$0	RWQCB
Action Total:		\$0						\$0	
SONCC-RedC.5.1.37									
	SONCC-RedC.5.1.37.1	\$22,270						\$22,270	CDFW
	SONCC-RedC.5.1.37.2	\$218,023						\$218,023	CDFW
Action Total:		\$240,293						\$240,293	
SONCC-RedC.5.1.62									
	SONCC-RedC.5.1.62.1	\$22,270						\$22,270	CDFW
	SONCC-RedC.5.1.62.2	\$218,023						\$218,023	CDFW
Action Total:		\$240,293						\$240,293	
SONCC-RedC.3.1.39									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-RedC.3.1.39.1	\$18,385						\$18,385	SWRCB
	SONCC-RedC.3.1.39.2	\$0						\$0	SWRCB
	Action Total:	<i>\$18,385</i>						<i>\$18,385</i>	
SONCC-RedC.3.1.46									
	SONCC-RedC.3.1.46.1	\$73,540						\$73,540	CDFW
	SONCC-RedC.3.1.46.2	\$36,770						\$36,770	CDFW
	SONCC-RedC.3.1.46.3	\$73,540						\$73,540	CDFW
	Action Total:	<i>\$183,850</i>						<i>\$183,850</i>	
SONCC-RedC.3.1.60									
	SONCC-RedC.3.1.60.1	\$18,385						\$18,385	SWRCB
	SONCC-RedC.3.1.60.2	\$0						\$0	SWRCB
	Action Total:	<i>\$18,385</i>						<i>\$18,385</i>	
SONCC-RedC.7.1.8									
	SONCC-RedC.7.1.8.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-RedC.7.1.8.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-RedC.7.1.8.3	\$425,148						\$425,148	NRCS/RCD
	SONCC-RedC.7.1.8.4	\$14,358						\$14,358	NRCS/RCD
	SONCC-RedC.7.1.8.5	\$607						\$607	NRCS/RCD
	Action Total:	<i>\$474,128</i>						<i>\$474,128</i>	
SONCC-RedC.7.1.63									
	SONCC-RedC.7.1.63.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-RedC.7.1.63.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-RedC.7.1.63.3	\$425,148						\$425,148	NRCS/RCD
	SONCC-RedC.7.1.63.4	\$14,358						\$14,358	NRCS/RCD
	SONCC-RedC.7.1.63.5	\$607						\$607	NRCS/RCD
	Action Total:	<i>\$474,128</i>						<i>\$474,128</i>	
SONCC-RedC.16.1.19									
	SONCC-RedC.16.1.19.1	\$34,015						\$34,015	NMFS
	SONCC-RedC.16.1.19.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-RedC.16.1.20									
	SONCC-RedC.16.1.20.1	\$34,015						\$34,015	NMFS
	SONCC-RedC.16.1.20.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-RedC.16.2.21									
	SONCC-RedC.16.2.21.1	\$34,015						\$34,015	NMFS
	SONCC-RedC.16.2.21.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-RedC.16.2.22									
	SONCC-RedC.16.2.22.1	\$34,015						\$34,015	NMFS
	SONCC-RedC.16.2.22.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-RedC.27.2.44									
	SONCC-RedC.27.2.44.1	\$340,150	\$340,150	\$340,150	\$340,150	\$340,150	\$340,150	\$2,040,900	NPS
	SONCC-RedC.27.2.44.2	\$170,075	\$170,075	\$170,075	\$170,075	\$170,075	\$170,075	\$1,020,450	NPS
	SONCC-RedC.27.2.44.3	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NPS
	Action Total:	<i>\$595,263</i>	<i>\$595,263</i>	<i>\$595,263</i>	<i>\$595,263</i>	<i>\$595,263</i>	<i>\$595,263</i>	<i>\$3,571,575</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-RedC.27.1.23	SONCC-RedC.27.1.23.1	\$226,532	\$226,532	\$226,532	\$226,532	\$226,532	\$226,532	\$1,359,192	CDFW
	Action Total:	\$226,532	\$226,532	\$226,532	\$226,532	\$226,532	\$226,532	\$1,359,192	
SONCC-RedC.27.1.43	SONCC-RedC.27.1.43.1	\$203,455	\$203,455	\$203,455	\$203,455	\$203,455	\$203,455	\$1,220,730	NPS
	Action Total:	\$203,455	\$203,455	\$203,455	\$203,455	\$203,455	\$203,455	\$1,220,730	
SONCC-RedC.10.7.53	SONCC-RedC.10.7.53.1	\$8,504						\$8,504	CDFW
	SONCC-RedC.10.7.53.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-RedC.10.7.57	SONCC-RedC.10.7.57.1	\$8,504						\$8,504	CDFW
	SONCC-RedC.10.7.57.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-RedC.27.2.50	SONCC-RedC.27.2.50.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-RedC.27.2.26	SONCC-RedC.27.2.26.1	\$136,060						\$136,060	CDFW
	SONCC-RedC.27.2.26.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-RedC.27.2.27	SONCC-RedC.27.2.27.1	\$760,247		\$760,247		\$760,247		\$2,280,741	CDFW
	Action Total:	\$760,247		\$760,247		\$760,247		\$2,280,741	
SONCC-RedC.27.2.28	SONCC-RedC.27.2.28.1	\$760,247		\$760,247		\$760,247		\$2,280,741	CDFW
	Action Total:	\$760,247		\$760,247		\$760,247		\$2,280,741	
SONCC-RedC.27.2.29	SONCC-RedC.27.2.29.1	\$760,247		\$760,247		\$760,247		\$2,280,741	CDFW
	Action Total:	\$760,247		\$760,247		\$760,247		\$2,280,741	
SONCC-RedC.27.2.30	SONCC-RedC.27.2.30.1	\$760,247		\$760,247		\$760,247		\$2,280,741	CDFW
	Action Total:	\$760,247		\$760,247		\$760,247		\$2,280,741	
SONCC-RedC.27.2.31	SONCC-RedC.27.2.31.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-RedC.27.2.52	SONCC-RedC.27.2.52.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-RedC.27.1.24	SONCC-RedC.27.1.24.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	Action Total:	\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-RedC.27.1.25	SONCC-RedC.27.1.25.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-RedC.27.1.33	SONCC-RedC.27.1.33.1	\$75,511	\$75,511	\$75,511	\$75,511	\$75,511	\$75,511	\$453,066	CDFW
	Action Total:	\$75,511	\$75,511	\$75,511	\$75,511	\$75,511	\$75,511	\$453,066	
SONCC-RedC.27.1.34									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-RedC.27.1.34.1	\$34,015						\$34,015	NMFS
	SONCC-RedC.27.1.34.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-RedC.27.1.51									
	SONCC-RedC.27.1.51.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	CDFW
	Action Total:	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$6,120,000</i>	
SONCC-RedC.27.4.47									
	SONCC-RedC.27.4.47.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-RedC.27.4.48									
	SONCC-RedC.27.4.48.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-RedC.27.4.49									
	SONCC-RedC.27.4.49.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
	Population Total:	<i>\$117,834,989</i>	<i>\$2,730,408</i>	<i>\$5,791,641</i>	<i>\$2,730,408</i>	<i>\$5,791,641</i>	<i>\$4,132,751</i>	<i>\$139,011,838</i>	
Population: Salmon River									
SONCC-SalR.2.1.7									
	SONCC-SalR.2.1.7.1	\$17,008						\$17,008	USFS
	SONCC-SalR.2.1.7.2	\$95,874						\$95,874	USFS
	Action Total:	<i>\$112,881</i>						<i>\$112,881</i>	
SONCC-SalR.2.1.8									
	SONCC-SalR.2.1.8.1	\$17,008						\$17,008	USFS
	SONCC-SalR.2.1.8.2	\$51,129						\$51,129	USFS
	Action Total:	<i>\$68,137</i>						<i>\$68,137</i>	
SONCC-SalR.2.1.37									
	SONCC-SalR.2.1.37.1	\$17,008						\$17,008	USFS
	SONCC-SalR.2.1.37.2	\$95,874						\$95,874	USFS
	Action Total:	<i>\$112,881</i>						<i>\$112,881</i>	
SONCC-SalR.2.1.38									
	SONCC-SalR.2.1.38.1	\$17,008						\$17,008	USFS
	SONCC-SalR.2.1.38.2	\$51,129						\$51,129	USFS
	Action Total:	<i>\$68,137</i>						<i>\$68,137</i>	
SONCC-SalR.2.2.25									
	SONCC-SalR.2.2.25.1	\$34,015						\$34,015	USFS
	SONCC-SalR.2.2.25.2	\$288,023						\$288,023	USFS
	Action Total:	<i>\$322,038</i>						<i>\$322,038</i>	
SONCC-SalR.7.1.2									
	SONCC-SalR.7.1.2.1	\$36,400						\$36,400	USFS
	SONCC-SalR.7.1.2.2	\$29,372						\$29,372	USFS
	Action Total:	<i>\$65,772</i>						<i>\$65,772</i>	
SONCC-SalR.26.1.33									
	SONCC-SalR.26.1.33.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-SalR.3.1.4									
	SONCC-SalR.3.1.4.1	\$17,008						\$17,008	CDFW
	SONCC-SalR.3.1.4.2	\$17,008						\$17,008	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-SalR.3.1.4.3	\$17,008						\$17,008	CDFW
	Action Total:	<i>\$51,023</i>						<i>\$51,023</i>	
SONCC-SalR.3.1.39									
	SONCC-SalR.3.1.39.1	\$17,008						\$17,008	CDFW
	SONCC-SalR.3.1.39.2	\$17,008						\$17,008	CDFW
	SONCC-SalR.3.1.39.3	\$17,008						\$17,008	CDFW
	Action Total:	<i>\$51,023</i>						<i>\$51,023</i>	
SONCC-SalR.10.3.5									
	SONCC-SalR.10.3.5.1	\$17,008						\$17,008	USFS
	SONCC-SalR.10.3.5.2	\$38,068						\$38,068	USFS
	SONCC-SalR.10.3.5.3	\$17,008						\$17,008	USFS
	Action Total:	<i>\$72,083</i>						<i>\$72,083</i>	
SONCC-SalR.10.3.35									
	SONCC-SalR.10.3.35.1	\$17,008						\$17,008	USFS
	SONCC-SalR.10.3.35.2	\$38,068						\$38,068	USFS
	SONCC-SalR.10.3.35.3	\$17,008						\$17,008	USFS
	Action Total:	<i>\$72,083</i>						<i>\$72,083</i>	
SONCC-SalR.10.2.6									
	SONCC-SalR.10.2.6.1	\$24,173						\$24,173	RWQCB
	SONCC-SalR.10.2.6.2	\$17,008						\$17,008	RWQCB
	SONCC-SalR.10.2.6.3	\$0						\$0	RWQCB
	Action Total:	<i>\$41,181</i>						<i>\$41,181</i>	
SONCC-SalR.10.2.34									
	SONCC-SalR.10.2.34.1	\$24,173						\$24,173	RWQCB
	SONCC-SalR.10.2.34.2	\$17,008						\$17,008	RWQCB
	SONCC-SalR.10.2.34.3	\$0						\$0	RWQCB
	Action Total:	<i>\$41,181</i>						<i>\$41,181</i>	
SONCC-SalR.5.1.43									
	SONCC-SalR.5.1.43.1	\$8,504						\$8,504	USFS
	Action Total:	<i>\$8,504</i>						<i>\$8,504</i>	
SONCC-SalR.5.1.9									
	SONCC-SalR.5.1.9.1	\$22,270						\$22,270	USFS
	SONCC-SalR.5.1.9.2	\$697,672						\$697,672	USFS
	Action Total:	<i>\$719,942</i>						<i>\$719,942</i>	
SONCC-SalR.5.1.10									
	SONCC-SalR.5.1.10.1	\$14,535						\$14,535	USFS
	Action Total:	<i>\$14,535</i>						<i>\$14,535</i>	
SONCC-SalR.5.1.40									
	SONCC-SalR.5.1.40.1	\$14,535						\$14,535	USFS
	Action Total:	<i>\$14,535</i>						<i>\$14,535</i>	
SONCC-SalR.5.1.41									
	SONCC-SalR.5.1.41.1	\$22,270						\$22,270	USFS
	SONCC-SalR.5.1.41.2	\$697,672						\$697,672	USFS
	Action Total:	<i>\$719,942</i>						<i>\$719,942</i>	
SONCC-SalR.7.1.1									
	SONCC-SalR.7.1.1.1	\$34,015						\$34,015	USFS
	SONCC-SalR.7.1.1.2	\$13,423						\$13,423	USFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-SalR.7.1.1.3	\$97,675						\$97,675	USFS
	SONCC-SalR.7.1.1.4	\$4,389						\$4,389	USFS
	Action Total:	<i>\$149,502</i>						<i>\$149,502</i>	
SONCC-SalR.8.1.26	SONCC-SalR.8.1.26.1	\$514,092						\$514,092	USFS
	SONCC-SalR.8.1.26.2	\$4,186,080						\$4,186,080	USFS
	Action Total:	<i>\$4,700,172</i>						<i>\$4,700,172</i>	
SONCC-SalR.8.1.3	SONCC-SalR.8.1.3.1	\$487,025						\$487,025	USFS
	SONCC-SalR.8.1.3.2	\$2,412,619						\$2,412,619	USFS
	SONCC-SalR.8.1.3.3	\$1,765,753						\$1,765,753	USFS
	SONCC-SalR.8.1.3.4	\$144,535						\$144,535	USFS
	Action Total:	<i>\$4,809,931</i>						<i>\$4,809,931</i>	
SONCC-SalR.8.1.42	SONCC-SalR.8.1.42.1	\$487,025						\$487,025	USFS
	SONCC-SalR.8.1.42.2	\$2,412,619						\$2,412,619	USFS
	SONCC-SalR.8.1.42.3	\$1,765,753						\$1,765,753	USFS
	SONCC-SalR.8.1.42.4	\$144,535						\$144,535	USFS
	Action Total:	<i>\$4,809,931</i>						<i>\$4,809,931</i>	
SONCC-SalR.10.7.32	SONCC-SalR.10.7.32.1	\$8,504						\$8,504	CDFW
	SONCC-SalR.10.7.32.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-SalR.10.7.36	SONCC-SalR.10.7.36.1	\$8,504						\$8,504	CDFW
	SONCC-SalR.10.7.36.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-SalR.1.2.20	SONCC-SalR.1.2.20.1	\$0						\$0	BIA/Tribe
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-SalR.16.1.11	SONCC-SalR.16.1.11.1	\$34,015						\$34,015	NMFS
	SONCC-SalR.16.1.11.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SalR.16.1.12	SONCC-SalR.16.1.12.1	\$34,015						\$34,015	NMFS
	SONCC-SalR.16.1.12.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SalR.16.1.30	SONCC-SalR.16.1.30.1	\$34,015						\$34,015	NMFS
	SONCC-SalR.16.1.30.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SalR.16.1.31	SONCC-SalR.16.1.31.1	\$34,015						\$34,015	BIA/Tribe
	SONCC-SalR.16.1.31.2	\$34,015						\$34,015	BIA/Tribe
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SalR.16.2.13									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-SalR.16.2.13.1	\$34,015						\$34,015	NMFS
	SONCC-SalR.16.2.13.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-SalR.16.2.14									
	SONCC-SalR.16.2.14.1	\$34,015						\$34,015	NMFS
	SONCC-SalR.16.2.14.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-SalR.27.2.28									
	SONCC-SalR.27.2.28.5	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-SalR.27.2.21									
	SONCC-SalR.27.2.21.1	\$439,301		\$439,301		\$439,301		\$1,317,903	CDFW
	Action Total:	\$439,301		\$439,301		\$439,301		\$1,317,903	
SONCC-SalR.27.2.22									
	SONCC-SalR.27.2.22.1	\$439,301		\$439,301		\$439,301		\$1,317,903	CDFW
	Action Total:	\$439,301		\$439,301		\$439,301		\$1,317,903	
SONCC-SalR.27.2.18									
	SONCC-SalR.27.2.18.1	\$136,060						\$136,060	CDFW
	SONCC-SalR.27.2.18.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-SalR.27.2.29									
	SONCC-SalR.27.2.29.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-SalR.27.1.19									
	SONCC-SalR.27.1.19.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	Action Total:	\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-SalR.27.1.24									
	SONCC-SalR.27.1.24.1	\$34,015						\$34,015	NMFS
	SONCC-SalR.27.1.24.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-SalR.27.1.15									
	SONCC-SalR.27.1.15.1	\$172,200	\$172,200	\$172,200	\$172,200	\$172,200	\$172,200	\$1,033,200	CDFW
	Action Total:	\$172,200	\$172,200	\$172,200	\$172,200	\$172,200	\$172,200	\$1,033,200	
SONCC-SalR.27.1.16									
	SONCC-SalR.27.1.16.1	\$57,400	\$57,400	\$57,400	\$57,400	\$57,400	\$57,400	\$344,400	CDFW
	Action Total:	\$57,400	\$57,400	\$57,400	\$57,400	\$57,400	\$57,400	\$344,400	
SONCC-SalR.27.1.17									
	SONCC-SalR.27.1.17.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
	Population Total:	\$19,273,731	\$788,225	\$1,653,057	\$788,225	\$1,653,057	\$788,225	\$24,944,520	
Population: Scott River									
SONCC-ScoR.3.1.7									
	SONCC-ScoR.3.1.7.1	\$34,015						\$34,015	CDFW
	SONCC-ScoR.3.1.7.2	\$34,015						\$34,015	CDFW
	Action Total:	\$68,030						\$68,030	
SONCC-ScoR.1.2.46									
	SONCC-ScoR.1.2.46.1	\$0						\$0	BIA/Tribe
	Action Total:	\$0						\$0	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-ScoR.30.1.69	SONCC-ScoR.30.1.69.1	\$68,030						\$68,030	NMFS
	SONCC-ScoR.30.1.69.2	\$68,030						\$68,030	NMFS
	Action Total:	<i>\$136,060</i>						<i>\$136,060</i>	
SONCC-ScoR.10.1.14	SONCC-ScoR.10.1.14.1	\$36,770						\$36,770	NRCS/RCD
	SONCC-ScoR.10.1.14.2	\$34,015	\$34,015	\$34,015	\$34,015	\$34,015	\$34,015	\$204,090	NRCS/RCD
	Action Total:	<i>\$70,785</i>	<i>\$34,015</i>	<i>\$34,015</i>	<i>\$34,015</i>	<i>\$34,015</i>	<i>\$34,015</i>	<i>\$240,860</i>	
SONCC-ScoR.10.1.15	SONCC-ScoR.10.1.15.2	\$36,770	\$36,770	\$36,770	\$36,770	\$36,770	\$36,770	\$220,620	CDFW
	Action Total:	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$220,620</i>	
SONCC-ScoR.3.1.42	SONCC-ScoR.3.1.42.1	\$36,770						\$36,770	NGO
	SONCC-ScoR.3.1.42.2	\$36,770						\$36,770	NGO
	Action Total:	<i>\$73,540</i>						<i>\$73,540</i>	
SONCC-ScoR.3.1.1	SONCC-ScoR.3.1.1.1	\$18,385						\$18,385	SWRCB
	SONCC-ScoR.3.1.1.2	\$18,385						\$18,385	SWRCB
	SONCC-ScoR.3.1.1.3	\$18,385						\$18,385	Watermaster Dst
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-ScoR.3.1.2	SONCC-ScoR.3.1.2.1	\$130,680						\$130,680	Watermaster Dst
	SONCC-ScoR.3.1.2.2	\$198,875						\$198,875	Watermaster Dst
	SONCC-ScoR.3.1.2.3	\$25,780						\$25,780	NGO
	Action Total:	<i>\$355,335</i>						<i>\$355,335</i>	
SONCC-ScoR.3.1.3	SONCC-ScoR.3.1.3.1	\$367,700						\$367,700	Watermaster Dst
	Action Total:	<i>\$367,700</i>						<i>\$367,700</i>	
SONCC-ScoR.3.1.5	SONCC-ScoR.3.1.5.1	\$91,925						\$91,925	NRCS/RCD
	SONCC-ScoR.3.1.5.2	\$18,385						\$18,385	NRCS/RCD
	SONCC-ScoR.3.1.5.3	\$27,300						\$27,300	NRCS/RCD
	Action Total:	<i>\$137,610</i>						<i>\$137,610</i>	
SONCC-ScoR.3.1.79	SONCC-ScoR.3.1.79.1	\$18,385						\$18,385	Watermaster Dst
	SONCC-ScoR.3.1.79.2	\$18,385						\$18,385	SWRCB
	SONCC-ScoR.3.1.79.3	\$18,385						\$18,385	Watermaster Dst
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-ScoR.3.1.81	SONCC-ScoR.3.1.81.1	\$91,925						\$91,925	NRCS/RCD
	SONCC-ScoR.3.1.81.2	\$18,385						\$18,385	NRCS/RCD
	SONCC-ScoR.3.1.81.3	\$27,300						\$27,300	NRCS/RCD
	Action Total:	<i>\$137,610</i>						<i>\$137,610</i>	
SONCC-ScoR.3.2.10	SONCC-ScoR.3.2.10.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-ScoR.3.2.10.2	\$1,462,500						\$1,462,500	NRCS/RCD
	SONCC-ScoR.3.2.10.3	\$62,500	\$62,500					\$125,000	NRCS/RCD

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$1,542,008	\$62,500					\$1,604,508	
SONCC-ScoR.3.2.83									
	SONCC-ScoR.3.2.83.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-ScoR.3.2.83.2	\$1,462,500						\$1,462,500	NRCS/RCD
	SONCC-ScoR.3.2.83.3	\$62,500	\$62,500					\$125,000	NRCS/RCD
Action Total:		\$1,542,008	\$62,500					\$1,604,508	
SONCC-ScoR.3.1.65									
	SONCC-ScoR.3.1.65.1	\$247,000	\$247,000	\$247,000	\$247,000	\$247,000	\$247,000	\$1,482,000	Watermaster Dst
Action Total:		\$247,000	\$247,000	\$247,000	\$247,000	\$247,000	\$247,000	\$1,482,000	
SONCC-ScoR.3.1.67									
	SONCC-ScoR.3.1.67.1	\$18,385						\$18,385	SWRCB
	SONCC-ScoR.3.1.67.2	\$36,770						\$36,770	SWRCB
Action Total:		\$55,155						\$55,155	
SONCC-ScoR.3.1.82									
	SONCC-ScoR.3.1.82.1	\$18,385						\$18,385	SWRCB
	SONCC-ScoR.3.1.82.2	\$36,770						\$36,770	SWRCB
Action Total:		\$55,155						\$55,155	
SONCC-ScoR.3.1.68									
	SONCC-ScoR.3.1.68.1	\$36,077						\$36,077	CDFW
	SONCC-ScoR.3.1.68.2	\$36,077						\$36,077	CDFW
	SONCC-ScoR.3.1.68.3	\$36,077						\$36,077	CDFW
Action Total:		\$108,231						\$108,231	
SONCC-ScoR.2.1.48									
	SONCC-ScoR.2.1.48.1	\$0						\$0	CDFW
Action Total:		\$0						\$0	
SONCC-ScoR.2.1.25									
	SONCC-ScoR.2.1.25.1	\$17,008						\$17,008	NGO
	SONCC-ScoR.2.1.25.2	\$13,367,540						\$13,367,540	NGO
Action Total:		\$13,384,548						\$13,384,548	
SONCC-ScoR.2.1.74									
	SONCC-ScoR.2.1.74.1	\$17,008						\$17,008	NGO
	SONCC-ScoR.2.1.74.2	\$13,367,540						\$13,367,540	NGO
Action Total:		\$13,384,548						\$13,384,548	
SONCC-ScoR.2.2.20									
	SONCC-ScoR.2.2.20.1	\$17,008						\$17,008	CDFW
	SONCC-ScoR.2.2.20.2	\$2,505,321						\$2,505,321	CDFW
Action Total:		\$2,522,329						\$2,522,329	
SONCC-ScoR.2.2.21									
	SONCC-ScoR.2.2.21.1	\$17,008						\$17,008	NGO
	SONCC-ScoR.2.2.21.2	\$4,217,623						\$4,217,623	NGO
Action Total:		\$4,234,631						\$4,234,631	
SONCC-ScoR.2.2.22									
	SONCC-ScoR.2.2.22.1	\$17,008						\$17,008	CDFW
	SONCC-ScoR.2.2.22.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-ScoR.2.2.22.3	\$50,000						\$50,000	CDFW
Action Total:		\$152,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$577,233	
SONCC-ScoR.2.2.24									
	SONCC-ScoR.2.2.24.1	\$44,540						\$44,540	NGO

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-ScoR.2.2.24.2	\$163,429						\$163,429	NGO
	Action Total:	<i>\$207,969</i>						<i>\$207,969</i>	
SONCC-ScoR.2.2.75									
	SONCC-ScoR.2.2.75.1	\$17,008						\$17,008	CDFW
	SONCC-ScoR.2.2.75.2	\$2,505,321						\$2,505,321	CDFW
	Action Total:	<i>\$2,522,329</i>						<i>\$2,522,329</i>	
SONCC-ScoR.2.2.76									
	SONCC-ScoR.2.2.76.1	\$17,008						\$17,008	NGO
	SONCC-ScoR.2.2.76.2	\$4,217,623						\$4,217,623	NGO
	Action Total:	<i>\$4,234,631</i>						<i>\$4,234,631</i>	
SONCC-ScoR.2.2.77									
	SONCC-ScoR.2.2.77.1	\$17,008						\$17,008	CDFW
	SONCC-ScoR.2.2.77.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-ScoR.2.2.77.3	\$50,000						\$50,000	CDFW
	Action Total:	<i>\$152,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$577,233</i>	
SONCC-ScoR.2.2.78									
	SONCC-ScoR.2.2.78.1	\$44,540						\$44,540	NGO
	SONCC-ScoR.2.2.78.2	\$163,429						\$163,429	NGO
	Action Total:	<i>\$207,969</i>						<i>\$207,969</i>	
SONCC-ScoR.30.1.70									
	SONCC-ScoR.30.1.70.1	\$68,030						\$68,030	CDFW
	SONCC-ScoR.30.1.70.2	\$68,030						\$68,030	CDFW
	Action Total:	<i>\$136,060</i>						<i>\$136,060</i>	
SONCC-ScoR.26.1.66									
	SONCC-ScoR.26.1.66.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-ScoR.3.1.4									
	SONCC-ScoR.3.1.4.1	\$36,770						\$36,770	SWRCB
	SONCC-ScoR.3.1.4.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-ScoR.3.1.4.3	\$50,000						\$50,000	NRCS/RCD
	SONCC-ScoR.3.1.4.4	\$17,008						\$17,008	NRCS/RCD
	SONCC-ScoR.3.1.4.5	\$17,008						\$17,008	SWRCB
	Action Total:	<i>\$137,793</i>						<i>\$137,793</i>	
SONCC-ScoR.3.1.80									
	SONCC-ScoR.3.1.80.1	\$36,770						\$36,770	SWRCB
	SONCC-ScoR.3.1.80.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-ScoR.3.1.80.3	\$50,000						\$50,000	NRCS/RCD
	SONCC-ScoR.3.1.80.4	\$17,008						\$17,008	NRCS/RCD
	SONCC-ScoR.3.1.80.5	\$17,008						\$17,008	SWRCB
	Action Total:	<i>\$137,793</i>						<i>\$137,793</i>	
SONCC-ScoR.7.1.18									
	SONCC-ScoR.7.1.18.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-ScoR.7.1.18.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-ScoR.7.1.18.3	\$1,464,162						\$1,464,162	NRCS/RCD
	SONCC-ScoR.7.1.18.4	\$79,656						\$79,656	NRCS/RCD
	SONCC-ScoR.7.1.18.5	\$3,035						\$3,035	NRCS/RCD
	Action Total:	<i>\$1,580,868</i>						<i>\$1,580,868</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-ScoR.7.1.87	SONCC-ScoR.7.1.87.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-ScoR.7.1.87.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-ScoR.7.1.87.3	\$1,464,162						\$1,464,162	NRCS/RCD
	SONCC-ScoR.7.1.87.4	\$79,656						\$79,656	NRCS/RCD
	SONCC-ScoR.7.1.87.5	\$3,035						\$3,035	NRCS/RCD
	Action Total:		\$1,580,868						\$1,580,868
SONCC-ScoR.5.1.11	SONCC-ScoR.5.1.11.1	\$22,270						\$22,270	NGO
	SONCC-ScoR.5.1.11.2	\$623,532						\$623,532	NGO
	Action Total:		\$645,802					\$645,802	
SONCC-ScoR.5.1.12	SONCC-ScoR.5.1.12.1	\$22,270						\$22,270	NGO
	SONCC-ScoR.5.1.12.2	\$119,318						\$119,318	NGO
	Action Total:		\$141,588					\$141,588	
SONCC-ScoR.5.1.13	SONCC-ScoR.5.1.13.1	\$18,385						\$18,385	NGO
	SONCC-ScoR.5.1.13.2	\$198,863						\$198,863	NGO
	Action Total:		\$217,248					\$217,248	
SONCC-ScoR.5.1.84	SONCC-ScoR.5.1.84.1	\$22,270						\$22,270	NGO
	SONCC-ScoR.5.1.84.2	\$623,532						\$623,532	NGO
	Action Total:		\$645,802					\$645,802	
SONCC-ScoR.5.1.85	SONCC-ScoR.5.1.85.1	\$22,270						\$22,270	NGO
	SONCC-ScoR.5.1.85.2	\$119,318						\$119,318	NGO
	Action Total:		\$141,588					\$141,588	
SONCC-ScoR.5.1.86	SONCC-ScoR.5.1.86.1	\$18,385						\$18,385	NGO
	SONCC-ScoR.5.1.86.2	\$198,863						\$198,863	NGO
	Action Total:		\$217,248					\$217,248	
SONCC-ScoR.7.1.58	SONCC-ScoR.7.1.58.1	\$17,008						\$17,008	CDFW
	SONCC-ScoR.7.1.58.2	\$17,008						\$17,008	CDFW
	SONCC-ScoR.7.1.58.3	\$85,038						\$85,038	CDFW
	Action Total:		\$119,053					\$119,053	
SONCC-ScoR.7.1.88	SONCC-ScoR.7.1.88.1	\$17,008						\$17,008	CDFW
	SONCC-ScoR.7.1.88.2	\$17,008						\$17,008	CDFW
	SONCC-ScoR.7.1.88.3	\$85,038						\$85,038	CDFW
	Action Total:		\$119,053					\$119,053	
SONCC-ScoR.8.2.26	SONCC-ScoR.8.2.26.1	\$18,385						\$18,385	NGO
	SONCC-ScoR.8.2.26.2	\$210,000	\$210,000	\$210,000	\$210,000	\$210,000	\$210,000	\$1,260,000	NGO
	Action Total:		\$228,385	\$210,000	\$210,000	\$210,000	\$210,000	\$1,278,385	
SONCC-ScoR.8.2.90	SONCC-ScoR.8.2.90.1	\$18,385					\$18,385	NGO	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-ScoR.8.2.90.2	SONCC-ScoR.8.2.90.2	\$210,000	\$210,000	\$210,000	\$210,000	\$210,000	\$210,000	\$1,260,000	NGO
	Action Total:	\$228,385	\$210,000	\$210,000	\$210,000	\$210,000	\$210,000	\$1,278,385	
SONCC-ScoR.8.1.44									
SONCC-ScoR.8.1.44.1	SONCC-ScoR.8.1.44.1	\$958,313						\$958,313	NGO
	SONCC-ScoR.8.1.44.2	\$14,914,372						\$14,914,372	NGO
	SONCC-ScoR.8.1.44.3	\$2,364,066						\$2,364,066	NGO
	SONCC-ScoR.8.1.44.4	\$26,461,528					\$26,461,528	\$52,923,056	NGO
	Action Total:	\$44,698,279					\$26,461,528	\$71,159,807	
SONCC-ScoR.8.1.89									
SONCC-ScoR.8.1.89.1	SONCC-ScoR.8.1.89.1	\$958,313						\$958,313	NGO
	SONCC-ScoR.8.1.89.2	\$14,914,372						\$14,914,372	NGO
	SONCC-ScoR.8.1.89.3	\$2,364,066						\$2,364,066	NGO
	SONCC-ScoR.8.1.89.4	\$26,461,528					\$26,461,528	\$52,923,056	NGO
	Action Total:	\$44,698,279					\$26,461,528	\$71,159,807	
SONCC-ScoR.10.2.49									
SONCC-ScoR.10.2.49.1	SONCC-ScoR.10.2.49.1	\$45,925						\$45,925	CDFW
	SONCC-ScoR.10.2.49.2	\$114,813						\$114,813	CDFW
	Action Total:	\$160,738						\$160,738	
SONCC-ScoR.10.2.72									
SONCC-ScoR.10.2.72.1	SONCC-ScoR.10.2.72.1	\$45,925						\$45,925	CDFW
	SONCC-ScoR.10.2.72.2	\$114,813						\$114,813	CDFW
	Action Total:	\$160,738						\$160,738	
SONCC-ScoR.10.1.16									
SONCC-ScoR.10.1.16.1	SONCC-ScoR.10.1.16.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-ScoR.10.1.16.2	\$123,711						\$123,711	NRCS/RCD
	Action Total:	\$140,719						\$140,719	
SONCC-ScoR.10.1.71									
SONCC-ScoR.10.1.71.1	SONCC-ScoR.10.1.71.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-ScoR.10.1.71.2	\$123,711						\$123,711	NRCS/RCD
	Action Total:	\$140,719						\$140,719	
SONCC-ScoR.10.7.64									
SONCC-ScoR.10.7.64.1	SONCC-ScoR.10.7.64.1	\$8,504						\$8,504	CDFW
	SONCC-ScoR.10.7.64.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-ScoR.10.7.73									
SONCC-ScoR.10.7.73.1	SONCC-ScoR.10.7.73.1	\$8,504						\$8,504	CDFW
	SONCC-ScoR.10.7.73.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-ScoR.3.1.6									
SONCC-ScoR.3.1.6.1	SONCC-ScoR.3.1.6.1	\$76,136						\$76,136	Water Trust
	SONCC-ScoR.3.1.6.2	\$0						\$0	Water Trust
	Action Total:	\$76,136						\$76,136	
SONCC-ScoR.3.1.9									
SONCC-ScoR.3.1.9.1	SONCC-ScoR.3.1.9.1	\$36,770						\$36,770	NRCS/RCD
	SONCC-ScoR.3.1.9.2	\$36,770						\$36,770	SWRCB
	Action Total:	\$73,540						\$73,540	
SONCC-ScoR.7.1.43									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-ScoR.7.1.43.1	\$18,200						\$18,200	USFS
	SONCC-ScoR.7.1.43.2	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,200,000	USFS
	Action Total:	\$218,200	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,218,200	
SONCC-ScoR.7.1.59									
	SONCC-ScoR.7.1.59.1	\$156,000						\$156,000	CDF
	SONCC-ScoR.7.1.59.2	\$156,000						\$156,000	CDF
	Action Total:	\$312,000						\$312,000	
SONCC-ScoR.16.1.28									
	SONCC-ScoR.16.1.28.1	\$34,015						\$34,015	NMFS
	SONCC-ScoR.16.1.28.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-ScoR.16.1.29									
	SONCC-ScoR.16.1.29.1	\$34,015						\$34,015	NMFS
	SONCC-ScoR.16.1.29.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-ScoR.16.1.61									
	SONCC-ScoR.16.1.61.1	\$34,015						\$34,015	NMFS
	SONCC-ScoR.16.1.61.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-ScoR.16.1.62									
	SONCC-ScoR.16.1.62.1	\$34,015						\$34,015	NMFS
	SONCC-ScoR.16.1.62.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-ScoR.16.1.63									
	SONCC-ScoR.16.1.63.1	\$34,015						\$34,015	BIA/Tribe
	SONCC-ScoR.16.1.63.2	\$34,015						\$34,015	BIA/Tribe
	Action Total:	\$68,030						\$68,030	
SONCC-ScoR.16.2.30									
	SONCC-ScoR.16.2.30.1	\$34,015						\$34,015	NMFS
	SONCC-ScoR.16.2.30.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-ScoR.16.2.31									
	SONCC-ScoR.16.2.31.1	\$34,015						\$34,015	NMFS
	SONCC-ScoR.16.2.31.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-ScoR.10.2.17									
	SONCC-ScoR.10.2.17.1	\$36,770	\$36,770	\$36,770	\$36,770	\$36,770	\$36,770	\$220,620	RWQCB
	Action Total:	\$36,770	\$36,770	\$36,770	\$36,770	\$36,770	\$36,770	\$220,620	
SONCC-ScoR.27.2.53									
	SONCC-ScoR.27.2.53.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-ScoR.27.2.55									
	SONCC-ScoR.27.2.55.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-ScoR.27.2.56									
	SONCC-ScoR.27.2.56.1	\$68,030						\$68,030	CDFW
	Action Total:	\$68,030						\$68,030	
SONCC-ScoR.27.2.36									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-ScoR.27.2.36.1	\$136,060						\$136,060	CDFW
	SONCC-ScoR.27.2.36.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	<i>\$136,060</i>	<i>\$81,800</i>		<i>\$81,800</i>		<i>\$81,800</i>	<i>\$381,460</i>	
SONCC-ScoR.27.2.37	SONCC-ScoR.27.2.37.1	\$6,478,842		\$6,478,842		\$6,478,842		\$19,436,526	CDFW
	Action Total:	<i>\$6,478,842</i>		<i>\$6,478,842</i>		<i>\$6,478,842</i>		<i>\$19,436,526</i>	
SONCC-ScoR.27.2.38	SONCC-ScoR.27.2.38.1	\$6,478,842		\$6,478,842		\$6,478,842		\$19,436,526	CDFW
	Action Total:	<i>\$6,478,842</i>		<i>\$6,478,842</i>		<i>\$6,478,842</i>		<i>\$19,436,526</i>	
SONCC-ScoR.27.2.39	SONCC-ScoR.27.2.39.1	\$6,478,842		\$6,478,842		\$6,478,842		\$19,436,526	CDFW
	Action Total:	<i>\$6,478,842</i>		<i>\$6,478,842</i>		<i>\$6,478,842</i>		<i>\$19,436,526</i>	
SONCC-ScoR.27.2.40	SONCC-ScoR.27.2.40.1	\$6,478,842		\$6,478,842		\$6,478,842		\$19,436,526	CDFW
	Action Total:	<i>\$6,478,842</i>		<i>\$6,478,842</i>		<i>\$6,478,842</i>		<i>\$19,436,526</i>	
SONCC-ScoR.27.2.41	SONCC-ScoR.27.2.41.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-ScoR.27.2.41.2	\$34,015						\$34,015	CDFW
	Action Total:	<i>\$99,926</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$298,801</i>	
SONCC-ScoR.27.2.60	SONCC-ScoR.27.2.60.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-ScoR.27.1.45	SONCC-ScoR.27.1.45.1	\$220,434	\$220,434	\$220,434	\$220,434	\$220,434	\$220,434	\$1,322,604	CDFW
	Action Total:	<i>\$220,434</i>	<i>\$220,434</i>	<i>\$220,434</i>	<i>\$220,434</i>	<i>\$220,434</i>	<i>\$220,434</i>	<i>\$1,322,604</i>	
SONCC-ScoR.27.1.47	SONCC-ScoR.27.1.47.1	\$34,015						\$34,015	NMFS
	SONCC-ScoR.27.1.47.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-ScoR.27.1.32	SONCC-ScoR.27.1.32.1	\$34,015						\$34,015	CDFW
	SONCC-ScoR.27.1.32.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$119,053</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$544,240</i>	
SONCC-ScoR.27.1.33	SONCC-ScoR.27.1.33.1	\$661,303	\$661,303	\$661,303	\$661,303	\$661,303	\$661,303	\$3,967,818	CDFW
	Action Total:	<i>\$661,303</i>	<i>\$661,303</i>	<i>\$661,303</i>	<i>\$661,303</i>	<i>\$661,303</i>	<i>\$661,303</i>	<i>\$3,967,818</i>	
SONCC-ScoR.27.1.34	SONCC-ScoR.27.1.34.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	SONCC-ScoR.27.1.34.2	\$34,015						\$34,015	CDFW
	Action Total:	<i>\$102,045</i>		<i>\$68,030</i>		<i>\$68,030</i>		<i>\$238,105</i>	
SONCC-ScoR.27.1.35	SONCC-ScoR.27.1.35.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-ScoR.27.1.57	SONCC-ScoR.27.1.57.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	CDFW
	Action Total:	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$6,120,000</i>	
SONCC-ScoR.27.4.51	SONCC-ScoR.27.4.51.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-ScoR.27.4.52									
	SONCC-ScoR.27.4.52.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-ScoR.27.4.54									
	SONCC-ScoR.27.4.54.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
	Population Total:	\$172,471,306	\$3,905,827	\$29,716,440	\$3,780,827	\$29,716,440	\$56,703,883	\$296,294,723	
Population: Shasta River									
SONCC-ShaR.3.1.1									
	SONCC-ShaR.3.1.1.1	\$36,770						\$36,770	Watermaster Dst
	SONCC-ShaR.3.1.1.2	\$36,770						\$36,770	SWRCB
	SONCC-ShaR.3.1.1.3	\$36,770						\$36,770	SWRCB
	SONCC-ShaR.3.1.1.4	\$36,770						\$36,770	Watermaster Dst
	SONCC-ShaR.3.1.1.5	\$36,770						\$36,770	Water Trust
	SONCC-ShaR.3.1.1.6	\$36,770						\$36,770	CDFW
	Action Total:	\$220,620						\$220,620	
SONCC-ShaR.10.1.16									
	SONCC-ShaR.10.1.16.1	\$36,077						\$36,077	NRCS/RCD
	SONCC-ShaR.10.1.16.2	\$36,077						\$36,077	NRCS/RCD
	Action Total:	\$72,154						\$72,154	
SONCC-ShaR.10.1.18									
	SONCC-ShaR.10.1.18.1	\$34,015						\$34,015	CDFW
	SONCC-ShaR.10.1.18.2	\$36,770						\$36,770	CDFW
	SONCC-ShaR.10.1.18.3	\$34,015						\$34,015	CDFW
	Action Total:	\$104,800						\$104,800	
SONCC-ShaR.10.1.19									
	SONCC-ShaR.10.1.19.1	\$73,540						\$73,540	Water District
	SONCC-ShaR.10.1.19.2	\$73,540						\$73,540	Water District
	Action Total:	\$147,080						\$147,080	
SONCC-ShaR.1.2.48									
	SONCC-ShaR.1.2.48.1	\$0						\$0	BIA/Tribe
	Action Total:	\$0						\$0	
SONCC-ShaR.30.1.70									
	SONCC-ShaR.30.1.70.1	\$68,030						\$68,030	NMFS
	SONCC-ShaR.30.1.70.2	\$68,030						\$68,030	NMFS
	Action Total:	\$136,060						\$136,060	
SONCC-ShaR.12.1.74									
	SONCC-ShaR.12.1.74.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-ShaR.12.1.74.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-ShaR.12.1.74.3	\$1,741,346						\$1,741,346	NRCS/RCD
	SONCC-ShaR.12.1.74.4	\$94,735						\$94,735	NRCS/RCD
	SONCC-ShaR.12.1.74.5	\$3,642						\$3,642	NRCS/RCD
	Action Total:	\$1,873,738						\$1,873,738	
SONCC-ShaR.12.1.22									
	SONCC-ShaR.12.1.22.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-ShaR.12.1.22.2	\$17,008						\$17,008	NRCS/RCD

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-ShaR.12.1.22.3	\$1,741,346						\$1,741,346	NRCS/RCD
	SONCC-ShaR.12.1.22.4	\$94,735						\$94,735	NRCS/RCD
	SONCC-ShaR.12.1.22.5	\$3,642						\$3,642	NRCS/RCD
	Action Total:	<i>\$1,873,738</i>						<i>\$1,873,738</i>	
SONCC-ShaR.3.1.4									
	SONCC-ShaR.3.1.4.1	\$45,454						\$45,454	Water District
	SONCC-ShaR.3.1.4.2	\$34,015						\$34,015	Water District
	SONCC-ShaR.3.1.4.3	\$190,909						\$190,909	Water District
	SONCC-ShaR.3.1.4.4	\$190,909						\$190,909	Water District
	Action Total:	<i>\$461,287</i>						<i>\$461,287</i>	
SONCC-ShaR.10.1.20									
	SONCC-ShaR.10.1.20.1	\$36,770						\$36,770	NRCS/RCD
	SONCC-ShaR.10.1.20.2	\$329,896						\$329,896	NRCS/RCD
	Action Total:	<i>\$366,666</i>						<i>\$366,666</i>	
SONCC-ShaR.3.1.80									
	SONCC-ShaR.3.1.80.1	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	Watermaster Dst
	Action Total:	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$741,000</i>	
SONCC-ShaR.3.1.81									
	SONCC-ShaR.3.1.81.1	\$18,385						\$18,385	SWRCB
	SONCC-ShaR.3.1.81.2	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-ShaR.3.1.66									
	SONCC-ShaR.3.1.66.1	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	Watermaster Dst
	Action Total:	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$741,000</i>	
SONCC-ShaR.3.1.68									
	SONCC-ShaR.3.1.68.1	\$18,385						\$18,385	SWRCB
	SONCC-ShaR.3.1.68.2	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-ShaR.3.1.69									
	SONCC-ShaR.3.1.69.1	\$36,077						\$36,077	CDFW
	SONCC-ShaR.3.1.69.2	\$36,077						\$36,077	CDFW
	SONCC-ShaR.3.1.69.3	\$36,077						\$36,077	CDFW
	Action Total:	<i>\$108,231</i>						<i>\$108,231</i>	
SONCC-ShaR.3.1.78									
	SONCC-ShaR.3.1.78.1	\$36,770						\$36,770	SWRCB
	SONCC-ShaR.3.1.78.2	\$22,963						\$22,963	NRCS/RCD
	SONCC-ShaR.3.1.78.3	\$98,000						\$98,000	NRCS/RCD
	SONCC-ShaR.3.1.78.4	\$18,385						\$18,385	NRCS/RCD
	SONCC-ShaR.3.1.78.5	\$18,385						\$18,385	SWRCB
	Action Total:	<i>\$194,503</i>						<i>\$194,503</i>	
SONCC-ShaR.3.1.79									
	SONCC-ShaR.3.1.79.1	\$18,385						\$18,385	NGO
	SONCC-ShaR.3.1.79.2	\$91,875						\$91,875	NGO
	SONCC-ShaR.3.1.79.3	\$18,385						\$18,385	NGO
	Action Total:	<i>\$128,645</i>						<i>\$128,645</i>	
SONCC-ShaR.3.1.82									
	SONCC-ShaR.3.1.82.1	\$36,770						\$36,770	NRCS/RCD

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-ShaR.3.1.82.2	\$24,173						\$24,173	NRCS/RCD
	Action Total:	\$60,943						\$60,943	
SONCC-ShaR.3.1.5									
	SONCC-ShaR.3.1.5.1	\$36,770						\$36,770	SWRCB
	SONCC-ShaR.3.1.5.2	\$22,963						\$22,963	NRCS/RCD
	SONCC-ShaR.3.1.5.3	\$98,000						\$98,000	NRCS/RCD
	SONCC-ShaR.3.1.5.4	\$18,385						\$18,385	NRCS/RCD
	SONCC-ShaR.3.1.5.5	\$18,385						\$18,385	SWRCB
	Action Total:	\$194,503						\$194,503	
SONCC-ShaR.3.1.6									
	SONCC-ShaR.3.1.6.1	\$18,385						\$18,385	NGO
	SONCC-ShaR.3.1.6.2	\$91,875						\$91,875	NGO
	SONCC-ShaR.3.1.6.3	\$18,385						\$18,385	NGO
	Action Total:	\$128,645						\$128,645	
SONCC-ShaR.3.1.7									
	SONCC-ShaR.3.1.7.1	\$36,770						\$36,770	NRCS/RCD
	SONCC-ShaR.3.1.7.2	\$24,173						\$24,173	NRCS/RCD
	Action Total:	\$60,943						\$60,943	
SONCC-ShaR.10.1.12									
	SONCC-ShaR.10.1.12.1	\$34,015						\$34,015	RWQCB
	SONCC-ShaR.10.1.12.2	\$0						\$0	RWQCB
	Action Total:	\$34,015						\$34,015	
SONCC-ShaR.5.1.83									
	SONCC-ShaR.5.1.83.1	\$18,385						\$18,385	NGO
	SONCC-ShaR.5.1.83.2	\$58,140						\$58,140	NGO
	Action Total:	\$76,525						\$76,525	
SONCC-ShaR.5.1.85									
	SONCC-ShaR.5.1.85.1	\$22,270						\$22,270	County
	SONCC-ShaR.5.1.85.2	\$2,863,635						\$2,863,635	County
	Action Total:	\$2,885,905						\$2,885,905	
SONCC-ShaR.5.1.13									
	SONCC-ShaR.5.1.13.1	\$18,385						\$18,385	NGO
	SONCC-ShaR.5.1.13.2	\$58,140						\$58,140	NGO
	Action Total:	\$76,525						\$76,525	
SONCC-ShaR.5.1.15									
	SONCC-ShaR.5.1.15.1	\$22,270						\$22,270	County
	SONCC-ShaR.5.1.15.2	\$2,863,635						\$2,863,635	County
	Action Total:	\$2,885,905						\$2,885,905	
SONCC-ShaR.7.1.86									
	SONCC-ShaR.7.1.86.1	\$17,008						\$17,008	NGO
	Action Total:	\$17,008						\$17,008	
SONCC-ShaR.7.1.23									
	SONCC-ShaR.7.1.23.1	\$17,008						\$17,008	NGO
	Action Total:	\$17,008						\$17,008	
SONCC-ShaR.7.1.24									
	SONCC-ShaR.7.1.24.1	\$2,224,416						\$2,224,416	NGO
	SONCC-ShaR.7.1.24.2	\$16,186,176						\$16,186,176	NGO
	Action Total:	\$18,410,592						\$18,410,592	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-ShaR.26.1.25									
	SONCC-ShaR.26.1.25.1	\$68,030						\$68,030	CDFW
	SONCC-ShaR.26.1.25.2	\$500,000						\$500,000	CDFW
	SONCC-ShaR.26.1.25.3	\$600,000	\$600,000	\$600,000				\$1,800,000	CDFW
	SONCC-ShaR.26.1.25.4	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000			\$5,000,000	CDFW
	Action Total:	<i>\$2,418,030</i>	<i>\$1,850,000</i>	<i>\$1,850,000</i>	<i>\$1,250,000</i>			<i>\$7,368,030</i>	
SONCC-ShaR.26.1.67									
	SONCC-ShaR.26.1.67.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-ShaR.8.2.89									
	SONCC-ShaR.8.2.89.1	\$18,385						\$18,385	Water District
	SONCC-ShaR.8.2.89.2	\$16,800	\$16,800	\$16,800	\$16,800	\$16,800	\$16,800	\$100,800	Water District
	Action Total:	<i>\$35,185</i>	<i>\$16,800</i>	<i>\$16,800</i>	<i>\$16,800</i>	<i>\$16,800</i>	<i>\$16,800</i>	<i>\$119,185</i>	
SONCC-ShaR.8.2.29									
	SONCC-ShaR.8.2.29.1	\$18,385						\$18,385	Water District
	SONCC-ShaR.8.2.29.2	\$16,800	\$16,800	\$16,800	\$16,800	\$16,800	\$16,800	\$100,800	Water District
	Action Total:	<i>\$35,185</i>	<i>\$16,800</i>	<i>\$16,800</i>	<i>\$16,800</i>	<i>\$16,800</i>	<i>\$16,800</i>	<i>\$119,185</i>	
SONCC-ShaR.2.2.75									
	SONCC-ShaR.2.2.75.1	\$17,008						\$17,008	NGO
	SONCC-ShaR.2.2.75.2	\$2,965,482						\$2,965,482	NGO
	Action Total:	<i>\$2,982,490</i>						<i>\$2,982,490</i>	
SONCC-ShaR.2.2.76									
	SONCC-ShaR.2.2.76.1	\$17,008						\$17,008	NGO
	SONCC-ShaR.2.2.76.2	\$4,850,266						\$4,850,266	NGO
	Action Total:	<i>\$4,867,274</i>						<i>\$4,867,274</i>	
SONCC-ShaR.2.2.77									
	SONCC-ShaR.2.2.77.1	\$17,008						\$17,008	CDFW
	SONCC-ShaR.2.2.77.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-ShaR.2.2.77.3	\$10,000						\$10,000	CDFW
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-ShaR.2.2.46									
	SONCC-ShaR.2.2.46.1	\$17,008						\$17,008	CDFW
	SONCC-ShaR.2.2.46.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-ShaR.2.2.46.3	\$10,000						\$10,000	CDFW
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-ShaR.2.2.27									
	SONCC-ShaR.2.2.27.1	\$17,008						\$17,008	NGO
	SONCC-ShaR.2.2.27.2	\$2,965,482						\$2,965,482	NGO
	Action Total:	<i>\$2,982,490</i>						<i>\$2,982,490</i>	
SONCC-ShaR.2.2.28									
	SONCC-ShaR.2.2.28.1	\$17,008						\$17,008	NGO
	SONCC-ShaR.2.2.28.2	\$4,850,266						\$4,850,266	NGO
	Action Total:	<i>\$4,867,274</i>						<i>\$4,867,274</i>	
SONCC-ShaR.30.1.71									
	SONCC-ShaR.30.1.71.1	\$68,030						\$68,030	CDFW
	SONCC-ShaR.30.1.71.2	\$68,030						\$68,030	CDFW
	Action Total:	<i>\$136,060</i>						<i>\$136,060</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-ShaR.3.1.2	SONCC-ShaR.3.1.2.1	\$130,680						\$130,680	Watermaster Dst
	SONCC-ShaR.3.1.2.2	\$198,875						\$198,875	Watermaster Dst
	SONCC-ShaR.3.1.2.3	\$25,780						\$25,780	NGO
	Action Total:	<i>\$355,335</i>						<i>\$355,335</i>	
SONCC-ShaR.3.1.3	SONCC-ShaR.3.1.3.1	\$367,700	\$367,700	\$367,700	\$367,700	\$367,700	\$367,700	\$2,206,200	Watermaster Dst
	Action Total:	<i>\$367,700</i>	<i>\$367,700</i>	<i>\$367,700</i>	<i>\$367,700</i>	<i>\$367,700</i>	<i>\$367,700</i>	<i>\$2,206,200</i>	
SONCC-ShaR.3.1.8	SONCC-ShaR.3.1.8.1	\$76,136						\$76,136	NGO
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	
SONCC-ShaR.26.1.26	SONCC-ShaR.26.1.26.1	\$34,015						\$34,015	NMFS
	SONCC-ShaR.26.1.26.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-ShaR.10.2.21	SONCC-ShaR.10.2.21.1	\$36,770	\$36,770	\$36,770	\$36,770	\$36,770	\$36,770	\$220,620	RWQCB
	Action Total:	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$220,620</i>	
SONCC-ShaR.8.1.88	SONCC-ShaR.8.1.88.1	\$817,394						\$817,394	USFS
	SONCC-ShaR.8.1.88.2	\$7,696,454						\$7,696,454	USFS
	SONCC-ShaR.8.1.88.3	\$4,088,959						\$4,088,959	USFS
	SONCC-ShaR.8.1.88.4	\$1,894,477					\$1,894,477	\$3,788,954	USFS
	Action Total:	<i>\$14,497,284</i>					<i>\$1,894,477</i>	<i>\$16,391,761</i>	
SONCC-ShaR.8.1.31	SONCC-ShaR.8.1.31.1	\$817,394						\$817,394	USFS
	SONCC-ShaR.8.1.31.2	\$7,696,454						\$7,696,454	USFS
	SONCC-ShaR.8.1.31.3	\$4,088,959						\$4,088,959	USFS
	SONCC-ShaR.8.1.31.4	\$1,894,477					\$1,894,477	\$3,788,954	USFS
	Action Total:	<i>\$14,497,284</i>					<i>\$1,894,477</i>	<i>\$16,391,761</i>	
SONCC-ShaR.10.2.72	SONCC-ShaR.10.2.72.1	\$44,540						\$44,540	CDFW
	SONCC-ShaR.10.2.72.2	\$111,350						\$111,350	CDFW
	Action Total:	<i>\$155,890</i>						<i>\$155,890</i>	
SONCC-ShaR.10.2.51	SONCC-ShaR.10.2.51.1	\$44,540						\$44,540	CDFW
	SONCC-ShaR.10.2.51.2	\$111,350						\$111,350	CDFW
	Action Total:	<i>\$155,890</i>						<i>\$155,890</i>	
SONCC-ShaR.8.1.87	SONCC-ShaR.8.1.87.1	\$678,701						\$678,701	NRCS/RCD
	SONCC-ShaR.8.1.87.2	\$2,804,074						\$2,804,074	NRCS/RCD
	Action Total:	<i>\$3,482,775</i>						<i>\$3,482,775</i>	
SONCC-ShaR.8.1.30	SONCC-ShaR.8.1.30.1	\$678,701						\$678,701	NRCS/RCD
	SONCC-ShaR.8.1.30.2	\$2,804,074						\$2,804,074	NRCS/RCD
	Action Total:	<i>\$3,482,775</i>						<i>\$3,482,775</i>	
SONCC-ShaR.10.7.73									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-ShaR.10.7.73.1	\$8,504						\$8,504	CDFW
	SONCC-ShaR.10.7.73.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-ShaR.10.7.65									
	SONCC-ShaR.10.7.65.1	\$8,504						\$8,504	CDFW
	SONCC-ShaR.10.7.65.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-ShaR.3.1.9									
	SONCC-ShaR.3.1.9.1	\$0						\$0	SWRCB
	SONCC-ShaR.3.1.9.2	\$0						\$0	SWRCB
	Action Total:	\$0						\$0	
SONCC-ShaR.3.1.11									
	SONCC-ShaR.3.1.11.1	\$36,770						\$36,770	SWRCB
	SONCC-ShaR.3.1.11.2	\$36,770						\$36,770	SWRCB
	Action Total:	\$73,540						\$73,540	
SONCC-ShaR.10.1.17									
	SONCC-ShaR.10.1.17.1	\$34,015						\$34,015	Private
	SONCC-ShaR.10.1.17.2	\$36,770						\$36,770	Private
	Action Total:	\$70,785						\$70,785	
SONCC-ShaR.7.1.45									
	SONCC-ShaR.7.1.45.1	\$18,200						\$18,200	NGO
	SONCC-ShaR.7.1.45.2	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,200,000	NGO
	Action Total:	\$218,200	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,218,200	
SONCC-ShaR.2.1.50									
	SONCC-ShaR.2.1.50.1	\$0						\$0	CDFW
	Action Total:	\$0						\$0	
SONCC-ShaR.16.1.33									
	SONCC-ShaR.16.1.33.1	\$34,015						\$34,015	NMFS
	SONCC-ShaR.16.1.33.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-ShaR.16.1.34									
	SONCC-ShaR.16.1.34.1	\$34,015						\$34,015	NMFS
	SONCC-ShaR.16.1.34.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-ShaR.16.1.63									
	SONCC-ShaR.16.1.63.1	\$34,015						\$34,015	NMFS
	SONCC-ShaR.16.1.63.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-ShaR.16.1.64									
	SONCC-ShaR.16.1.64.1	\$34,015						\$34,015	BIA/Tribe
	SONCC-ShaR.16.1.64.2	\$34,015						\$34,015	BIA/Tribe
	Action Total:	\$68,030						\$68,030	
SONCC-ShaR.16.2.35									
	SONCC-ShaR.16.2.35.1	\$34,015						\$34,015	NMFS
	SONCC-ShaR.16.2.35.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-ShaR.16.2.36									
	SONCC-ShaR.16.2.36.1	\$34,015						\$34,015	NMFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-ShaR.16.2.36.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-ShaR.27.2.57	SONCC-ShaR.27.2.57.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-ShaR.27.2.58	SONCC-ShaR.27.2.58.1	\$68,030						\$68,030	CDFW
	Action Total:	\$68,030						\$68,030	
SONCC-ShaR.27.2.60	SONCC-ShaR.27.2.60.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NMFS
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-ShaR.27.2.52	SONCC-ShaR.27.2.52.1							\$0	CDFW
	Action Total:							\$0	
SONCC-ShaR.27.2.40	SONCC-ShaR.27.2.40.1	\$136,060						\$136,060	CDFW
	SONCC-ShaR.27.2.40.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-ShaR.27.2.41	SONCC-ShaR.27.2.41.1	\$9,399,054		\$9,399,054		\$9,399,054		\$28,197,162	CDFW
	Action Total:	\$9,399,054		\$9,399,054		\$9,399,054		\$28,197,162	
SONCC-ShaR.27.2.42	SONCC-ShaR.27.2.42.1	\$9,399,054		\$9,399,054		\$9,399,054		\$28,197,162	CDFW
	Action Total:	\$9,399,054		\$9,399,054		\$9,399,054		\$28,197,162	
SONCC-ShaR.27.2.43	SONCC-ShaR.27.2.43.1	\$9,399,054		\$9,399,054		\$9,399,054		\$28,197,162	CDFW
	Action Total:	\$9,399,054		\$9,399,054		\$9,399,054		\$28,197,162	
SONCC-ShaR.27.2.44	SONCC-ShaR.27.2.44.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-ShaR.27.2.44.2	\$34,015						\$34,015	CDFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-ShaR.27.2.62	SONCC-ShaR.27.2.62.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-ShaR.27.1.47	SONCC-ShaR.27.1.47.1	\$265,505	\$265,505	\$265,505	\$265,505	\$265,505	\$265,505	\$1,593,030	CDFW
	Action Total:	\$265,505	\$265,505	\$265,505	\$265,505	\$265,505	\$265,505	\$1,593,030	
SONCC-ShaR.27.1.49	SONCC-ShaR.27.1.49.1	\$34,015						\$34,015	NMFS
	SONCC-ShaR.27.1.49.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-ShaR.27.1.37	SONCC-ShaR.27.1.37.1	\$796,515	\$796,515	\$796,515	\$796,515	\$796,515	\$796,515	\$4,779,090	CDFW
	Action Total:	\$796,515	\$796,515	\$796,515	\$796,515	\$796,515	\$796,515	\$4,779,090	
SONCC-ShaR.27.1.38	SONCC-ShaR.27.1.38.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	SONCC-ShaR.27.1.38.2	\$34,015						\$34,015	CDFW
	Action Total:	\$102,045		\$68,030		\$68,030		\$238,105	
SONCC-ShaR.27.1.39									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-ShaR.27.1.39.1	SONCC-ShaR.27.1.39.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-ShaR.27.1.61	SONCC-ShaR.27.1.61.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	CDFW
	Action Total:	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$6,120,000</i>	
SONCC-ShaR.27.4.54	SONCC-ShaR.27.4.54.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-ShaR.27.4.55	SONCC-ShaR.27.4.55.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-ShaR.27.4.56	SONCC-ShaR.27.4.56.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-ShaR.27.4.59	SONCC-ShaR.27.4.59.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
	Population Total:	\$118,771,162	\$5,721,625	\$33,939,032	\$5,121,625	\$32,089,032	\$7,660,579	\$203,303,055	
Population: Smith River									
SONCC-SmiR.2.1.1	SONCC-SmiR.2.1.1.1	\$17,008						\$17,008	CDFW
	SONCC-SmiR.2.1.1.2	\$5,478,500						\$5,478,500	CDFW
	Action Total:	<i>\$5,495,508</i>						<i>\$5,495,508</i>	
SONCC-SmiR.2.1.55	SONCC-SmiR.2.1.55.1	\$17,008						\$17,008	CDFW
	SONCC-SmiR.2.1.55.2	\$5,478,500						\$5,478,500	CDFW
	Action Total:	<i>\$5,495,508</i>						<i>\$5,495,508</i>	
SONCC-SmiR.2.2.2	SONCC-SmiR.2.2.2.1	\$17,008						\$17,008	CDFW
	SONCC-SmiR.2.2.2.2	\$145,350						\$145,350	CDFW
	Action Total:	<i>\$162,358</i>						<i>\$162,358</i>	
SONCC-SmiR.2.2.3	SONCC-SmiR.2.2.3.1	\$17,008						\$17,008	CDFW
	SONCC-SmiR.2.2.3.2	\$1,022,580						\$1,022,580	CDFW
	Action Total:	<i>\$1,039,588</i>						<i>\$1,039,588</i>	
SONCC-SmiR.2.2.4	SONCC-SmiR.2.2.4.1	\$17,008						\$17,008	CDFW
	SONCC-SmiR.2.2.4.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-SmiR.2.2.4.3	\$40,000						\$40,000	CDFW
	Action Total:	<i>\$142,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$567,233</i>	
SONCC-SmiR.2.2.5	SONCC-SmiR.2.2.5.1	\$44,540						\$44,540	CDFW
	SONCC-SmiR.2.2.5.2	\$66,824						\$66,824	CDFW
	Action Total:	<i>\$111,364</i>						<i>\$111,364</i>	
SONCC-SmiR.2.2.56	SONCC-SmiR.2.2.56.1	\$17,008						\$17,008	CDFW
	SONCC-SmiR.2.2.56.2	\$145,350						\$145,350	CDFW
	Action Total:	<i>\$162,358</i>						<i>\$162,358</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-SmiR.2.2.57	SONCC-SmiR.2.2.57.1	\$17,008						\$17,008	CDFW
	SONCC-SmiR.2.2.57.2	\$1,022,580						\$1,022,580	CDFW
	Action Total:	<i>\$1,039,588</i>						<i>\$1,039,588</i>	
SONCC-SmiR.2.2.58	SONCC-SmiR.2.2.58.1	\$17,008						\$17,008	CDFW
	SONCC-SmiR.2.2.58.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-SmiR.2.2.58.3	\$40,000						\$40,000	CDFW
	Action Total:	<i>\$142,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$567,233</i>	
SONCC-SmiR.2.2.59	SONCC-SmiR.2.2.59.1	\$44,540						\$44,540	CDFW
	SONCC-SmiR.2.2.59.2	\$66,824						\$66,824	CDFW
	Action Total:	<i>\$111,364</i>						<i>\$111,364</i>	
SONCC-SmiR.2.2.46	SONCC-SmiR.2.2.46.1	\$0						\$0	CDFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-SmiR.1.2.13	SONCC-SmiR.1.2.13.1	\$34,015						\$34,015	NRCS/RCD
	SONCC-SmiR.1.2.13.2	\$76,136						\$76,136	NRCS/RCD
	Action Total:	<i>\$110,151</i>						<i>\$110,151</i>	
SONCC-SmiR.1.3.12	SONCC-SmiR.1.3.12.1	\$36,770						\$36,770	CDFW
	SONCC-SmiR.1.3.12.2	\$600,000						\$600,000	CDFW
	Action Total:	<i>\$636,770</i>						<i>\$636,770</i>	
SONCC-SmiR.5.1.14	SONCC-SmiR.5.1.14.1	\$22,270						\$22,270	USFS
	SONCC-SmiR.5.1.14.2	\$479,650						\$479,650	USFS
	Action Total:	<i>\$501,920</i>						<i>\$501,920</i>	
SONCC-SmiR.5.1.62	SONCC-SmiR.5.1.62.1	\$22,270						\$22,270	USFS
	SONCC-SmiR.5.1.62.2	\$479,650						\$479,650	USFS
	Action Total:	<i>\$501,920</i>						<i>\$501,920</i>	
SONCC-SmiR.7.1.8	SONCC-SmiR.7.1.8.1	\$50,000						\$50,000	CDFW
	Action Total:	<i>\$50,000</i>						<i>\$50,000</i>	
SONCC-SmiR.7.1.66	SONCC-SmiR.7.1.66.1	\$50,000						\$50,000	CDFW
	Action Total:	<i>\$50,000</i>						<i>\$50,000</i>	
SONCC-SmiR.26.1.49	SONCC-SmiR.26.1.49.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-SmiR.10.2.9	SONCC-SmiR.10.2.9.1	\$17,008						\$17,008	NGO
	SONCC-SmiR.10.2.9.2	\$17,008						\$17,008	NGO
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-SmiR.10.2.10	SONCC-SmiR.10.2.10.1	\$76,136						\$76,136	NGO
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-SmiR.10.2.11	SONCC-SmiR.10.2.11.1	\$34,015						\$34,015	RWQCB
	SONCC-SmiR.10.2.11.2	\$1,152,092						\$1,152,092	RWQCB
	Action Total:	<i>\$1,186,107</i>						<i>\$1,186,107</i>	
SONCC-SmiR.10.2.51	SONCC-SmiR.10.2.51.1	\$34,015						\$34,015	RWQCB
	SONCC-SmiR.10.2.51.2	\$1,152,092						\$1,152,092	RWQCB
	Action Total:	<i>\$1,186,107</i>						<i>\$1,186,107</i>	
SONCC-SmiR.10.2.53	SONCC-SmiR.10.2.53.1	\$17,008						\$17,008	NGO
	SONCC-SmiR.10.2.53.2	\$17,008						\$17,008	NGO
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-SmiR.7.1.6	SONCC-SmiR.7.1.6.1	\$17,008						\$17,008	USFS
	SONCC-SmiR.7.1.6.2	\$383,520						\$383,520	USFS
	SONCC-SmiR.7.1.6.3	\$2,790,720						\$2,790,720	USFS
Action Total:	<i>\$3,191,248</i>						<i>\$3,191,248</i>		
SONCC-SmiR.7.1.64	SONCC-SmiR.7.1.64.1	\$17,008						\$17,008	USFS
	SONCC-SmiR.7.1.64.2	\$383,520						\$383,520	USFS
	SONCC-SmiR.7.1.64.3	\$2,790,720						\$2,790,720	USFS
Action Total:	<i>\$3,191,248</i>						<i>\$3,191,248</i>		
SONCC-SmiR.1.3.50	SONCC-SmiR.1.3.50.1	\$18,385						\$18,385	CDFW
	SONCC-SmiR.1.3.50.2	\$300,285						\$300,285	CDFW
	Action Total:	<i>\$318,670</i>						<i>\$318,670</i>	
SONCC-SmiR.1.3.39	SONCC-SmiR.1.3.39.1	\$18,385						\$18,385	CDFW
	SONCC-SmiR.1.3.39.2	\$300,285						\$300,285	CDFW
	Action Total:	<i>\$318,670</i>						<i>\$318,670</i>	
SONCC-SmiR.5.2.63	SONCC-SmiR.5.2.63.1	\$18,385						\$18,385	CDFW
	SONCC-SmiR.5.2.63.2	\$113,640						\$113,640	CDFW
	Action Total:	<i>\$132,025</i>						<i>\$132,025</i>	
SONCC-SmiR.5.2.38	SONCC-SmiR.5.2.38.1	\$18,385						\$18,385	CDFW
	SONCC-SmiR.5.2.38.2	\$113,640						\$113,640	CDFW
	Action Total:	<i>\$132,025</i>						<i>\$132,025</i>	
SONCC-SmiR.5.1.40	SONCC-SmiR.5.1.40.1	\$44,540						\$44,540	CDFW
	SONCC-SmiR.5.1.40.2	\$636,360						\$636,360	CDFW
	Action Total:	<i>\$680,900</i>						<i>\$680,900</i>	
SONCC-SmiR.3.1.17	SONCC-SmiR.3.1.17.1	\$18,385						\$18,385	SWRCB
	SONCC-SmiR.3.1.17.2	\$0						\$0	SWRCB
	Action Total:	<i>\$18,385</i>						<i>\$18,385</i>	
SONCC-SmiR.3.1.60									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-SmiR.3.1.60.1	\$18,385						\$18,385	SWRCB
	SONCC-SmiR.3.1.60.2	\$0						\$0	SWRCB
	Action Total:	\$18,385						\$18,385	
SONCC-SmiR.7.1.7									
	SONCC-SmiR.7.1.7.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-SmiR.7.1.7.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-SmiR.7.1.7.3	\$963,470						\$963,470	NRCS/RCD
	SONCC-SmiR.7.1.7.4	\$32,569						\$32,569	NRCS/RCD
	SONCC-SmiR.7.1.7.5	\$1,214						\$1,214	NRCS/RCD
	Action Total:	\$1,031,268						\$1,031,268	
SONCC-SmiR.7.1.65									
	SONCC-SmiR.7.1.65.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-SmiR.7.1.65.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-SmiR.7.1.65.3	\$963,470						\$963,470	NRCS/RCD
	SONCC-SmiR.7.1.65.4	\$32,569						\$32,569	NRCS/RCD
	SONCC-SmiR.7.1.65.5	\$1,214						\$1,214	NRCS/RCD
	Action Total:	\$1,031,268						\$1,031,268	
SONCC-SmiR.8.1.15									
	SONCC-SmiR.8.1.15.1	\$1,042,644						\$1,042,644	USFS
	SONCC-SmiR.8.1.15.2	\$21,135,340						\$21,135,340	USFS
	SONCC-SmiR.8.1.15.3	\$4,043,782						\$4,043,782	USFS
	SONCC-SmiR.8.1.15.4	\$1,820,418					\$1,820,418	\$3,640,836	USFS
	Action Total:	\$28,042,184					\$1,820,418	\$29,862,602	
SONCC-SmiR.8.1.67									
	SONCC-SmiR.8.1.67.1	\$1,042,644						\$1,042,644	USFS
	SONCC-SmiR.8.1.67.2	\$21,135,340						\$21,135,340	USFS
	SONCC-SmiR.8.1.67.3	\$4,043,782						\$4,043,782	USFS
	SONCC-SmiR.8.1.67.4	\$1,820,418					\$1,820,418	\$3,640,836	USFS
	Action Total:	\$28,042,184					\$1,820,418	\$29,862,602	
SONCC-SmiR.10.2.52									
	SONCC-SmiR.10.2.52.1	\$22,963						\$22,963	CDFW
	SONCC-SmiR.10.2.52.2	\$38,068						\$38,068	CDFW
	Action Total:	\$61,031						\$61,031	
SONCC-SmiR.10.2.37									
	SONCC-SmiR.10.2.37.1	\$22,963						\$22,963	CDFW
	SONCC-SmiR.10.2.37.2	\$38,068						\$38,068	CDFW
	Action Total:	\$61,031						\$61,031	
SONCC-SmiR.10.7.54									
	SONCC-SmiR.10.7.54.1	\$8,504						\$8,504	CDFW
	SONCC-SmiR.10.7.54.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-SmiR.10.7.48									
	SONCC-SmiR.10.7.48.1	\$8,504						\$8,504	CDFW
	SONCC-SmiR.10.7.48.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-SmiR.1.2.32									
	SONCC-SmiR.1.2.32.1	\$34,015						\$34,015	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-SmiR.1.2.32.2	\$34,015						\$34,015	CDFW
	SONCC-SmiR.1.2.32.3	\$682,150						\$682,150	CDFW
	Action Total:	<i>\$750,180</i>						<i>\$750,180</i>	
SONCC-SmiR.16.2.23									
	SONCC-SmiR.16.2.23.1	\$34,015						\$34,015	NMFS
	SONCC-SmiR.16.2.23.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SmiR.16.2.24									
	SONCC-SmiR.16.2.24.1	\$34,015						\$34,015	NMFS
	SONCC-SmiR.16.2.24.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SmiR.17.2.20									
	SONCC-SmiR.17.2.20.1	\$0						\$0	CDFW
	SONCC-SmiR.17.2.20.2	\$0						\$0	CDFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-SmiR.8.1.16									
	SONCC-SmiR.8.1.16.1	\$113,193						\$113,193	USFS
	SONCC-SmiR.8.1.16.2	\$1,197,344						\$1,197,344	USFS
	Action Total:	<i>\$1,310,537</i>						<i>\$1,310,537</i>	
SONCC-SmiR.27.2.28									
	SONCC-SmiR.27.2.28.1	\$136,060						\$136,060	CDFW
	SONCC-SmiR.27.2.28.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	<i>\$136,060</i>	<i>\$81,800</i>		<i>\$81,800</i>		<i>\$81,800</i>	<i>\$381,460</i>	
SONCC-SmiR.27.2.29									
	SONCC-SmiR.27.2.29.1	\$4,959,073		\$4,959,073		\$4,959,073		\$14,877,219	CDFW
	Action Total:	<i>\$4,959,073</i>		<i>\$4,959,073</i>		<i>\$4,959,073</i>		<i>\$14,877,219</i>	
SONCC-SmiR.27.2.30									
	SONCC-SmiR.27.2.30.1	\$4,959,073		\$4,959,073		\$4,959,073		\$14,877,219	CDFW
	Action Total:	<i>\$4,959,073</i>		<i>\$4,959,073</i>		<i>\$4,959,073</i>		<i>\$14,877,219</i>	
SONCC-SmiR.27.2.31									
	SONCC-SmiR.27.2.31.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-SmiR.27.2.43									
	SONCC-SmiR.27.2.43.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-SmiR.27.2.34									
	SONCC-SmiR.27.2.34.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-SmiR.27.2.36									
	SONCC-SmiR.27.2.36.1	\$68,030						\$68,030	CDFW
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SmiR.27.2.47									
	SONCC-SmiR.27.2.47.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,228	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,228</i>	
SONCC-SmiR.27.1.25									
	SONCC-SmiR.27.1.25.1	\$578,565	\$578,565	\$578,565	\$578,565	\$578,565	\$578,565	\$3,471,390	CDFW
	Action Total:	<i>\$578,565</i>	<i>\$578,565</i>	<i>\$578,565</i>	<i>\$578,565</i>	<i>\$578,565</i>	<i>\$578,565</i>	<i>\$3,471,390</i>	
SONCC-SmiR.27.1.26									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-SmiR.27.1.26.1	SONCC-SmiR.27.1.26.1	\$192,855	\$192,855	\$192,855	\$192,855	\$192,855	\$192,855	\$1,157,130	CDFW
	Action Total:	<i>\$192,855</i>	<i>\$192,855</i>	<i>\$192,855</i>	<i>\$192,855</i>	<i>\$192,855</i>	<i>\$192,855</i>	<i>\$1,157,130</i>	
SONCC-SmiR.27.1.27	SONCC-SmiR.27.1.27.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-SmiR.27.1.33	SONCC-SmiR.27.1.33.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	Action Total:	<i>\$68,030</i>		<i>\$68,030</i>		<i>\$68,030</i>		<i>\$204,090</i>	
SONCC-SmiR.27.1.35	SONCC-SmiR.27.1.35.1	\$34,015						\$34,015	NMFS
	SONCC-SmiR.27.1.35.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-SmiR.27.1.45	SONCC-SmiR.27.1.45.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	CDFW
	Action Total:	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$1,020,000</i>	<i>\$6,120,000</i>	
SONCC-SmiR.27.4.41	SONCC-SmiR.27.4.41.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-SmiR.27.4.42	SONCC-SmiR.27.4.42.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-SmiR.27.4.44	SONCC-SmiR.27.4.44.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
Population Total:		\$99,364,744	\$2,571,143	\$12,543,549	\$2,571,143	\$12,543,549	\$6,211,979	\$135,806,107	
Population: South Fork Eel River									
SONCC-SFER.3.1.5	SONCC-SFER.3.1.5.1	\$36,077						\$36,077	CDFW
	SONCC-SFER.3.1.5.2	\$36,077						\$36,077	CDFW
	SONCC-SFER.3.1.5.3	\$36,077						\$36,077	CDFW
	Action Total:	<i>\$108,231</i>						<i>\$108,231</i>	
SONCC-SFER.3.1.6	SONCC-SFER.3.1.6.3	\$73,540						\$73,540	SWRCB
	SONCC-SFER.3.1.6.4	\$76,136						\$76,136	SWRCB
	Action Total:	<i>\$149,676</i>						<i>\$149,676</i>	
SONCC-SFER.3.1.71	SONCC-SFER.3.1.71.1	\$0						\$0	SWRCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-SFER.3.1.72	SONCC-SFER.3.1.72.1	\$175,000						\$175,000	NGO
	SONCC-SFER.3.1.72.2	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$7,500	NGO
	Action Total:	<i>\$176,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$182,500</i>	
SONCC-SFER.3.1.70	SONCC-SFER.3.1.70.1	\$38,068						\$38,068	NGO
	Action Total:	<i>\$38,068</i>						<i>\$38,068</i>	
SONCC-SFER.3.1.49	SONCC-SFER.3.1.49.1	\$0						\$0	SWRCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-SFER.3.1.51	SONCC-SFER.3.1.51.1	\$73,540						\$73,540	CDFW
	SONCC-SFER.3.1.51.2	\$36,770						\$36,770	CDFW
	SONCC-SFER.3.1.51.3	\$73,540						\$73,540	CDFW
	Action Total:	<i>\$183,850</i>						<i>\$183,850</i>	
SONCC-SFER.3.1.7	SONCC-SFER.3.1.7.1	\$175,000						\$175,000	NGO
	SONCC-SFER.3.1.7.2	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$7,500	NGO
	Action Total:	<i>\$176,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$1,250</i>	<i>\$182,500</i>	
SONCC-SFER.3.1.10	SONCC-SFER.3.1.10.1	\$38,068						\$38,068	NGO
	Action Total:	<i>\$38,068</i>						<i>\$38,068</i>	
SONCC-SFER.3.1.11	SONCC-SFER.3.1.11.1	\$0						\$0	SWRCB
	SONCC-SFER.3.1.11.2	\$0						\$0	SWRCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-SFER.2.1.67	SONCC-SFER.2.1.67.1	\$17,008						\$17,008	CDFW
	SONCC-SFER.2.1.67.2	\$5,916,780						\$5,916,780	CDFW
	Action Total:	<i>\$5,933,788</i>						<i>\$5,933,788</i>	
SONCC-SFER.2.1.1	SONCC-SFER.2.1.1.1	\$17,008						\$17,008	CDFW
	SONCC-SFER.2.1.1.2	\$5,916,780						\$5,916,780	CDFW
	Action Total:	<i>\$5,933,788</i>						<i>\$5,933,788</i>	
SONCC-SFER.2.2.68	SONCC-SFER.2.2.68.1	\$36,770						\$36,770	CDFW
	SONCC-SFER.2.2.68.2	\$87,260						\$87,260	CDFW
	Action Total:	<i>\$124,030</i>						<i>\$124,030</i>	
SONCC-SFER.2.2.69	SONCC-SFER.2.2.69.1	\$17,008						\$17,008	CDFW
	SONCC-SFER.2.2.69.2	\$1,104,386						\$1,104,386	CDFW
	Action Total:	<i>\$1,121,394</i>						<i>\$1,121,394</i>	
SONCC-SFER.2.2.2	SONCC-SFER.2.2.2.1	\$36,770						\$36,770	CDFW
	SONCC-SFER.2.2.2.2	\$87,260						\$87,260	CDFW
	Action Total:	<i>\$124,030</i>						<i>\$124,030</i>	
SONCC-SFER.2.2.3	SONCC-SFER.2.2.3.1	\$17,008						\$17,008	CDFW
	SONCC-SFER.2.2.3.2	\$1,104,386						\$1,104,386	CDFW
	Action Total:	<i>\$1,121,394</i>						<i>\$1,121,394</i>	
SONCC-SFER.5.1.74	SONCC-SFER.5.1.74.1	\$22,270						\$22,270	Caltrans
	SONCC-SFER.5.1.74.2	\$741,277						\$741,277	Caltrans
	Action Total:	<i>\$763,547</i>						<i>\$763,547</i>	
SONCC-SFER.5.1.75	SONCC-SFER.5.1.75.1	\$34,015						\$34,015	CDFW
	SONCC-SFER.5.1.75.2	\$39,245						\$39,245	CDFW
	Action Total:	<i>\$73,260</i>						<i>\$73,260</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-SFER.5.1.46	SONCC-SFER.5.1.46.1	\$34,015						\$34,015	CDFW
	SONCC-SFER.5.1.46.2	\$39,245						\$39,245	CDFW
	Action Total:	<i>\$73,260</i>						<i>\$73,260</i>	
SONCC-SFER.5.1.25	SONCC-SFER.5.1.25.1	\$22,270						\$22,270	Caltrans
	SONCC-SFER.5.1.25.2	\$741,277						\$741,277	Caltrans
	Action Total:	<i>\$763,547</i>						<i>\$763,547</i>	
SONCC-SFER.1.2.43	SONCC-SFER.1.2.43.1	\$0						\$0	CDFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-SFER.26.1.63	SONCC-SFER.26.1.63.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-SFER.14.2.14	SONCC-SFER.14.2.14.1	\$68,030						\$68,030	CDFW
	SONCC-SFER.14.2.14.2	\$15,996,908						\$15,996,908	CDFW
	Action Total:	<i>\$16,064,938</i>						<i>\$16,064,938</i>	
SONCC-SFER.10.1.64	SONCC-SFER.10.1.64.1	\$17,008						\$17,008	CDFW
	SONCC-SFER.10.1.64.2	\$2,355,755						\$2,355,755	CDFW
	SONCC-SFER.10.1.64.3	\$3,000,024						\$3,000,024	CDFW
	Action Total:	<i>\$5,372,787</i>						<i>\$5,372,787</i>	
SONCC-SFER.10.1.48	SONCC-SFER.10.1.48.1	\$17,008						\$17,008	CDFW
	SONCC-SFER.10.1.48.2	\$2,355,755						\$2,355,755	CDFW
	SONCC-SFER.10.1.48.3	\$3,000,024						\$3,000,024	CDFW
	Action Total:	<i>\$5,372,787</i>						<i>\$5,372,787</i>	
SONCC-SFER.7.1.45	SONCC-SFER.7.1.45.1	\$0						\$0	CDFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-SFER.3.1.13	SONCC-SFER.3.1.13.1	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$36,770</i>						<i>\$36,770</i>	
SONCC-SFER.5.1.9	SONCC-SFER.5.1.9.1	\$89,080						\$89,080	CSP
	SONCC-SFER.5.1.9.2	\$568,181						\$568,181	CSP
	Action Total:	<i>\$657,261</i>						<i>\$657,261</i>	
SONCC-SFER.8.1.76	SONCC-SFER.8.1.76.1	\$721,996						\$721,996	NGO
	SONCC-SFER.8.1.76.2	\$26,060,273						\$26,060,273	NGO
	SONCC-SFER.8.1.76.3	\$2,250,136						\$2,250,136	NGO
	SONCC-SFER.8.1.76.4	\$1,646,021					\$1,646,021	\$3,292,042	NGO
	Action Total:	<i>\$30,678,426</i>					<i>\$1,646,021</i>	<i>\$32,324,447</i>	
SONCC-SFER.8.1.77	SONCC-SFER.8.1.77.1	\$523,559						\$523,559	NGO
	SONCC-SFER.8.1.77.2	\$3,607,084						\$3,607,084	NGO
	Action Total:	<i>\$4,130,643</i>						<i>\$4,130,643</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-SFER.8.1.78	SONCC-SFER.8.1.78.1	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-SFER.8.1.50	SONCC-SFER.8.1.50.1	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-SFER.8.1.15	SONCC-SFER.8.1.15.1	\$721,996						\$721,996	NGO
	SONCC-SFER.8.1.15.2	\$26,060,273						\$26,060,273	NGO
	SONCC-SFER.8.1.15.3	\$2,250,136						\$2,250,136	NGO
	SONCC-SFER.8.1.15.4	\$1,646,021					\$1,646,021	\$3,292,042	NGO
	Action Total:	\$30,678,426					\$1,646,021	\$32,324,447	
SONCC-SFER.8.1.18	SONCC-SFER.8.1.18.1	\$523,559						\$523,559	NGO
	SONCC-SFER.8.1.18.2	\$3,607,084						\$3,607,084	NGO
	Action Total:	\$4,130,643						\$4,130,643	
SONCC-SFER.10.2.65	SONCC-SFER.10.2.65.1	\$125,000						\$125,000	County
	Action Total:	\$125,000						\$125,000	
SONCC-SFER.10.2.19	SONCC-SFER.10.2.19.1	\$125,000						\$125,000	County
	Action Total:	\$125,000						\$125,000	
SONCC-SFER.10.7.66	SONCC-SFER.10.7.66.1	\$8,504						\$8,504	CDFW
	SONCC-SFER.10.7.66.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-SFER.10.7.62	SONCC-SFER.10.7.62.1	\$8,504						\$8,504	CDFW
	SONCC-SFER.10.7.62.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-SFER.3.1.4	SONCC-SFER.3.1.4.1	\$8,503						\$8,503	County
	Action Total:	\$8,503						\$8,503	
SONCC-SFER.7.1.21	SONCC-SFER.7.1.21.1	\$34,015						\$34,015	NGO
	SONCC-SFER.7.1.21.2	\$830,960						\$830,960	NGO
	SONCC-SFER.7.1.21.3	\$6,027,955						\$6,027,955	NGO
	Action Total:	\$6,892,930						\$6,892,930	
SONCC-SFER.7.1.22	SONCC-SFER.7.1.22.1	\$18,200						\$18,200	NGO
	SONCC-SFER.7.1.22.2	\$14,846,976						\$14,846,976	NGO
	Action Total:	\$14,865,176						\$14,865,176	
SONCC-SFER.7.1.23	SONCC-SFER.7.1.23.1	\$34,015						\$34,015	County
	Action Total:	\$34,015						\$34,015	
SONCC-SFER.7.1.24	SONCC-SFER.7.1.24.1	\$5,669						\$5,669	CDF
	Action Total:	\$5,669						\$5,669	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-SFER.16.1.28	SONCC-SFER.16.1.28.1	\$34,015						\$34,015	NMFS
	SONCC-SFER.16.1.28.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SFER.16.1.29	SONCC-SFER.16.1.29.1	\$34,015						\$34,015	NMFS
	SONCC-SFER.16.1.29.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SFER.16.2.30	SONCC-SFER.16.2.30.1	\$34,015						\$34,015	NMFS
	SONCC-SFER.16.2.30.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SFER.16.2.31	SONCC-SFER.16.2.31.1	\$34,015						\$34,015	NMFS
	SONCC-SFER.16.2.31.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SFER.8.1.16	SONCC-SFER.8.1.16.1	\$2,640						\$2,640	BLM
	Action Total:	<i>\$2,640</i>						<i>\$2,640</i>	
SONCC-SFER.8.1.17	SONCC-SFER.8.1.17.1	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-SFER.27.2.56	SONCC-SFER.27.2.56.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-SFER.27.2.57	SONCC-SFER.27.2.57.1	\$68,030						\$68,030	CDFW
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SFER.27.2.59	SONCC-SFER.27.2.59.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-SFER.27.2.37	SONCC-SFER.27.2.37.1	\$136,060						\$136,060	CDFW
	SONCC-SFER.27.2.37.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	<i>\$136,060</i>	<i>\$81,800</i>		<i>\$81,800</i>		<i>\$81,800</i>	<i>\$381,460</i>	
SONCC-SFER.27.2.38	SONCC-SFER.27.2.38.1	\$7,715,561		\$7,715,561		\$7,715,561		\$23,146,683	CDFW
	Action Total:	<i>\$7,715,561</i>		<i>\$7,715,561</i>		<i>\$7,715,561</i>		<i>\$23,146,683</i>	
SONCC-SFER.27.2.39	SONCC-SFER.27.2.39.1	\$7,715,561		\$7,715,561		\$7,715,561		\$23,146,683	CDFW
	Action Total:	<i>\$7,715,561</i>		<i>\$7,715,561</i>		<i>\$7,715,561</i>		<i>\$23,146,683</i>	
SONCC-SFER.27.2.40	SONCC-SFER.27.2.40.1	\$7,715,561		\$7,715,561		\$7,715,561		\$23,146,683	CDFW
	Action Total:	<i>\$7,715,561</i>		<i>\$7,715,561</i>		<i>\$7,715,561</i>		<i>\$23,146,683</i>	
SONCC-SFER.27.2.41	SONCC-SFER.27.2.41.1	\$7,715,561		\$7,715,561		\$7,715,561		\$23,146,683	CDFW
	Action Total:	<i>\$7,715,561</i>		<i>\$7,715,561</i>		<i>\$7,715,561</i>		<i>\$23,146,683</i>	
SONCC-SFER.27.2.42	SONCC-SFER.27.2.42.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-SFER.27.2.42.2	\$34,015						\$34,015	CDFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-SFER.27.2.61									
	SONCC-SFER.27.2.61.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-SFER.27.1.58									
	SONCC-SFER.27.1.58.1	\$240,555	\$240,555	\$240,555	\$240,555	\$240,555	\$240,555	\$1,443,330	CDFW
	Action Total:	\$240,555	\$240,555	\$240,555	\$240,555	\$240,555	\$240,555	\$1,443,330	
SONCC-SFER.27.1.44									
	SONCC-SFER.27.1.44.1	\$34,015						\$34,015	NMFS
	SONCC-SFER.27.1.44.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-SFER.27.1.32									
	SONCC-SFER.27.1.32.1	\$721,665	\$721,665	\$721,665	\$721,665	\$721,665	\$721,665	\$4,329,990	CDFW
	Action Total:	\$721,665	\$721,665	\$721,665	\$721,665	\$721,665	\$721,665	\$4,329,990	
SONCC-SFER.27.1.33									
	SONCC-SFER.27.1.33.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	CDFW
	Action Total:	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	
SONCC-SFER.27.1.34									
	SONCC-SFER.27.1.34.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	Action Total:	\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-SFER.27.1.35									
	SONCC-SFER.27.1.35.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-SFER.27.1.36									
	SONCC-SFER.27.1.36.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-SFER.27.1.36.2	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	CDFW
	Action Total:	\$102,045	\$102,045	\$102,045	\$102,045	\$102,045	\$102,045	\$612,270	
SONCC-SFER.27.4.52									
	SONCC-SFER.27.4.52.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-SFER.27.4.53									
	SONCC-SFER.27.4.53.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-SFER.27.4.54									
	SONCC-SFER.27.4.54.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-SFER.27.4.55									
	SONCC-SFER.27.4.55.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-SFER.27.4.60									
	SONCC-SFER.27.4.60.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
	Population Total:	\$170,560,131	\$3,008,718	\$33,891,207	\$3,008,718	\$33,891,207	\$6,300,760	\$250,660,739	
Population: South Fork Trinity River									
SONCC-SFTR.3.1.70									
	SONCC-SFTR.3.1.70.1	\$17,008						\$17,008	SWRCB
	SONCC-SFTR.3.1.70.2	\$17,008						\$17,008	SWRCB

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	Action Total:	\$34,015						\$34,015	
SONCC-SFTR.3.1.72									
	SONCC-SFTR.3.1.72.1	\$18,385						\$18,385	SWRCB
	Action Total:	\$18,385						\$18,385	
SONCC-SFTR.3.1.74									
	SONCC-SFTR.3.1.74.1	\$36,526						\$36,526	SWRCB
	Action Total:	\$36,526						\$36,526	
SONCC-SFTR.3.1.40									
	SONCC-SFTR.3.1.40.1	\$17,008						\$17,008	SWRCB
	SONCC-SFTR.3.1.40.2	\$17,008						\$17,008	SWRCB
	Action Total:	\$34,015						\$34,015	
SONCC-SFTR.3.1.42									
	SONCC-SFTR.3.1.42.1	\$625,520						\$625,520	City
	Action Total:	\$625,520						\$625,520	
SONCC-SFTR.3.1.47									
	SONCC-SFTR.3.1.47.1	\$18,385						\$18,385	SWRCB
	Action Total:	\$18,385						\$18,385	
SONCC-SFTR.3.1.8									
	SONCC-SFTR.3.1.8.1	\$36,526						\$36,526	SWRCB
	Action Total:	\$36,526						\$36,526	
SONCC-SFTR.17.2.46									
	SONCC-SFTR.17.2.46.1	\$0						\$0	CDFW
	SONCC-SFTR.17.2.46.2	\$34,015						\$34,015	CDFW
	Action Total:	\$34,015						\$34,015	
SONCC-SFTR.3.1.67									
	SONCC-SFTR.3.1.67.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.3.1.67.2	\$14,773						\$14,773	DWR
	SONCC-SFTR.3.1.67.3	\$8,523	\$10,227	\$10,227	\$10,227	\$10,227	\$10,227	\$59,658	DWR
	SONCC-SFTR.3.1.67.4	\$18,385						\$18,385	DWR
	Action Total:	\$58,688	\$10,227	\$10,227	\$10,227	\$10,227	\$10,227	\$109,823	
SONCC-SFTR.3.1.68									
	SONCC-SFTR.3.1.68.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-SFTR.3.1.68.2	\$23,856						\$23,856	NRCS/RCD
	Action Total:	\$40,864						\$40,864	
SONCC-SFTR.3.1.69									
	SONCC-SFTR.3.1.69.1	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$750,000	DWR
	Action Total:	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$750,000	
SONCC-SFTR.3.1.73									
	SONCC-SFTR.3.1.73.1	\$22,963						\$22,963	CDFW
	SONCC-SFTR.3.1.73.2	\$1,750,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$2,625,000	CDFW
	SONCC-SFTR.3.1.73.3	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$7,500	CDFW
	Action Total:	\$1,774,213	\$176,250	\$176,250	\$176,250	\$176,250	\$176,250	\$2,655,463	
SONCC-SFTR.3.1.1									
	SONCC-SFTR.3.1.1.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.3.1.1.2	\$14,773						\$14,773	DWR
	SONCC-SFTR.3.1.1.3	\$8,523	\$10,227	\$10,227	\$10,227	\$10,227	\$10,227	\$59,658	DWR
	SONCC-SFTR.3.1.1.4	\$18,385						\$18,385	DWR
	Action Total:	\$58,688	\$10,227	\$10,227	\$10,227	\$10,227	\$10,227	\$109,823	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-SFTR.3.1.2	SONCC-SFTR.3.1.2.1	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$750,000	DWR
	Action Total:	<i>\$125,000</i>	<i>\$125,000</i>	<i>\$125,000</i>	<i>\$125,000</i>	<i>\$125,000</i>	<i>\$125,000</i>	<i>\$750,000</i>	
SONCC-SFTR.3.1.3	SONCC-SFTR.3.1.3.1	\$76,136						\$76,136	NGO
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	
SONCC-SFTR.3.1.4	SONCC-SFTR.3.1.4.1	\$0						\$0	SWRCB
	SONCC-SFTR.3.1.4.2	\$0						\$0	SWRCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-SFTR.3.1.6	SONCC-SFTR.3.1.6.1	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$36,770</i>						<i>\$36,770</i>	
SONCC-SFTR.3.1.7	SONCC-SFTR.3.1.7.1	\$22,963						\$22,963	CDFW
	SONCC-SFTR.3.1.7.2	\$1,750,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$2,625,000	CDFW
	SONCC-SFTR.3.1.7.3	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$7,500	CDFW
	Action Total:	<i>\$1,774,213</i>	<i>\$176,250</i>	<i>\$176,250</i>	<i>\$176,250</i>	<i>\$176,250</i>	<i>\$176,250</i>	<i>\$2,655,463</i>	
SONCC-SFTR.3.1.10	SONCC-SFTR.3.1.10.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-SFTR.3.1.10.2	\$23,856						\$23,856	NRCS/RCD
	Action Total:	<i>\$40,864</i>						<i>\$40,864</i>	
SONCC-SFTR.3.1.59	SONCC-SFTR.3.1.59.1	\$36,077						\$36,077	CDFW
	SONCC-SFTR.3.1.59.2	\$36,077						\$36,077	CDFW
	SONCC-SFTR.3.1.59.3	\$36,077						\$36,077	CDFW
	Action Total:	<i>\$108,231</i>						<i>\$108,231</i>	
SONCC-SFTR.10.3.61	SONCC-SFTR.10.3.61.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.10.3.61.2	\$17,008						\$17,008	CDFW
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-SFTR.10.3.62	SONCC-SFTR.10.3.62.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.10.3.62.2	\$42,519						\$42,519	CDFW
	Action Total:	<i>\$59,526</i>						<i>\$59,526</i>	
SONCC-SFTR.10.3.13	SONCC-SFTR.10.3.13.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.10.3.13.2	\$17,008						\$17,008	CDFW
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-SFTR.10.3.14	SONCC-SFTR.10.3.14.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.10.3.14.2	\$42,519						\$42,519	CDFW
	Action Total:	<i>\$59,526</i>						<i>\$59,526</i>	
SONCC-SFTR.10.1.60	SONCC-SFTR.10.1.60.1	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$110,310	USFS
	SONCC-SFTR.10.1.60.2	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$110,310	USFS
	Action Total:	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$220,620</i>	
SONCC-SFTR.10.1.12									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-SFTR.10.1.12.1	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$110,310	USFS
	SONCC-SFTR.10.1.12.2	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$110,310	USFS
	Action Total:	\$36,770	\$36,770	\$36,770	\$36,770	\$36,770	\$36,770	\$220,620	
SONCC-SFTR.1.2.44	SONCC-SFTR.1.2.44.1	\$0						\$0	BIA/Tribe
	Action Total:	\$0						\$0	
SONCC-SFTR.26.1.58	SONCC-SFTR.26.1.58.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-SFTR.10.1.11	SONCC-SFTR.10.1.11.1	\$34,015						\$34,015	USFS
	SONCC-SFTR.10.1.11.2	\$239,700						\$239,700	USFS
	SONCC-SFTR.10.1.11.3	\$1,744,200						\$1,744,200	USFS
	Action Total:	\$2,017,915						\$2,017,915	
SONCC-SFTR.3.1.71	SONCC-SFTR.3.1.71.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.3.1.71.2	\$42,519	\$42,519	\$42,519	\$42,519	\$42,519	\$42,519	\$255,111	CDFW
	Action Total:	\$59,526	\$42,519	\$42,519	\$42,519	\$42,519	\$42,519	\$272,119	
SONCC-SFTR.3.1.41	SONCC-SFTR.3.1.41.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.3.1.41.2	\$42,519	\$42,519	\$42,519	\$42,519	\$42,519	\$42,519	\$255,111	CDFW
	Action Total:	\$59,526	\$42,519	\$42,519	\$42,519	\$42,519	\$42,519	\$272,119	
SONCC-SFTR.3.1.48	SONCC-SFTR.3.1.48.1	\$73,540						\$73,540	CDFW
	SONCC-SFTR.3.1.48.2	\$36,770						\$36,770	CDFW
	SONCC-SFTR.3.1.48.3	\$73,540						\$73,540	CDFW
	Action Total:	\$183,850						\$183,850	
SONCC-SFTR.2.1.64	SONCC-SFTR.2.1.64.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.2.1.64.2	\$4,364,995						\$4,364,995	CDFW
	Action Total:	\$4,382,003						\$4,382,003	
SONCC-SFTR.2.1.23	SONCC-SFTR.2.1.23.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.2.1.23.2	\$4,364,995						\$4,364,995	CDFW
	Action Total:	\$4,382,003						\$4,382,003	
SONCC-SFTR.2.2.66	SONCC-SFTR.2.2.66.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.2.2.66.2	\$835,090						\$835,090	CDFW
	Action Total:	\$852,097						\$852,097	
SONCC-SFTR.2.2.24	SONCC-SFTR.2.2.24.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.2.2.24.2	\$835,090						\$835,090	CDFW
	Action Total:	\$852,097						\$852,097	
SONCC-SFTR.8.1.75	SONCC-SFTR.8.1.75.1	\$707,945						\$707,945	USFS
	SONCC-SFTR.8.1.75.2	\$1,806,808						\$1,806,808	USFS
	Action Total:	\$2,514,753						\$2,514,753	
SONCC-SFTR.8.1.76									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-SFTR.8.1.76.1	\$1,253,034						\$1,253,034	USFS
	SONCC-SFTR.8.1.76.2	\$23,109,301						\$23,109,301	USFS
	SONCC-SFTR.8.1.76.3	\$1,686,388						\$1,686,388	USFS
	SONCC-SFTR.8.1.76.4	\$2,225,354					\$2,225,354	\$4,450,707	USFS
	Action Total:	<i>\$28,274,076</i>					<i>\$2,225,354</i>	<i>\$30,499,429</i>	
SONCC-SFTR.8.1.17									
	SONCC-SFTR.8.1.17.1	\$707,945						\$707,945	USFS
	SONCC-SFTR.8.1.17.2	\$1,806,808						\$1,806,808	USFS
	Action Total:	<i>\$2,514,753</i>						<i>\$2,514,753</i>	
SONCC-SFTR.8.1.18									
	SONCC-SFTR.8.1.18.1	\$1,253,034						\$1,253,034	USFS
	SONCC-SFTR.8.1.18.2	\$23,109,301						\$23,109,301	USFS
	SONCC-SFTR.8.1.18.3	\$1,686,388						\$1,686,388	USFS
	SONCC-SFTR.8.1.18.4	\$2,225,354					\$2,225,354	\$4,450,707	USFS
	Action Total:	<i>\$28,274,076</i>					<i>\$2,225,354</i>	<i>\$30,499,429</i>	
SONCC-SFTR.2.2.65									
	SONCC-SFTR.2.2.65.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.2.2.65.2	\$814,741						\$814,741	CDFW
	Action Total:	<i>\$831,748</i>						<i>\$831,748</i>	
SONCC-SFTR.2.2.20									
	SONCC-SFTR.2.2.20.1	\$17,008						\$17,008	CDFW
	SONCC-SFTR.2.2.20.2	\$814,741						\$814,741	CDFW
	Action Total:	<i>\$831,748</i>						<i>\$831,748</i>	
SONCC-SFTR.8.1.77									
	SONCC-SFTR.8.1.77.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-SFTR.8.1.77.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-SFTR.8.1.77.3	\$477,830						\$477,830	NRCS/RCD
	SONCC-SFTR.8.1.77.4	\$8,158						\$8,158	NRCS/RCD
	SONCC-SFTR.8.1.77.5	\$304						\$304	NRCS/RCD
	Action Total:	<i>\$520,306</i>						<i>\$520,306</i>	
SONCC-SFTR.8.1.19									
	SONCC-SFTR.8.1.19.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-SFTR.8.1.19.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-SFTR.8.1.19.3	\$477,830						\$477,830	NRCS/RCD
	SONCC-SFTR.8.1.19.4	\$8,158						\$8,158	NRCS/RCD
	SONCC-SFTR.8.1.19.5	\$304						\$304	NRCS/RCD
	Action Total:	<i>\$520,306</i>						<i>\$520,306</i>	
SONCC-SFTR.10.7.63									
	SONCC-SFTR.10.7.63.1	\$8,504						\$8,504	CDFW
	SONCC-SFTR.10.7.63.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-SFTR.10.7.57									
	SONCC-SFTR.10.7.57.1	\$8,504						\$8,504	CDFW
	SONCC-SFTR.10.7.57.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-SFTR.7.1.25									
	SONCC-SFTR.7.1.25.1	\$76,136						\$76,136	USFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-SFTR.7.1.25.2	\$36,400						\$36,400	USFS
	SONCC-SFTR.7.1.25.3	\$420,480						\$420,480	USFS
	Action Total:	<i>\$533,016</i>						<i>\$533,016</i>	
SONCC-SFTR.7.1.26									
	SONCC-SFTR.7.1.26.1	\$34,015						\$34,015	USFS
	SONCC-SFTR.7.1.26.2	\$11,200						\$11,200	USFS
	Action Total:	<i>\$45,215</i>						<i>\$45,215</i>	
SONCC-SFTR.16.1.27									
	SONCC-SFTR.16.1.27.1	\$34,015						\$34,015	NMFS
	SONCC-SFTR.16.1.27.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SFTR.16.1.28									
	SONCC-SFTR.16.1.28.1	\$34,015						\$34,015	NMFS
	SONCC-SFTR.16.1.28.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SFTR.16.1.55									
	SONCC-SFTR.16.1.55.1	\$34,015						\$34,015	NMFS
	SONCC-SFTR.16.1.55.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SFTR.16.1.56									
	SONCC-SFTR.16.1.56.1	\$34,015						\$34,015	BIA/Tribe
	SONCC-SFTR.16.1.56.2	\$34,015						\$34,015	BIA/Tribe
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SFTR.16.2.29									
	SONCC-SFTR.16.2.29.1	\$34,015						\$34,015	NMFS
	SONCC-SFTR.16.2.29.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SFTR.16.2.30									
	SONCC-SFTR.16.2.30.1	\$34,015						\$34,015	NMFS
	SONCC-SFTR.16.2.30.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-SFTR.8.1.16									
	SONCC-SFTR.8.1.16.1	\$0						\$0	CDF
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-SFTR.27.2.53									
	SONCC-SFTR.27.2.53.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-SFTR.27.2.49									
	SONCC-SFTR.27.2.49.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-SFTR.27.2.34									
	SONCC-SFTR.27.2.34.1	\$136,060						\$136,060	CDFW
	SONCC-SFTR.27.2.34.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	<i>\$136,060</i>	<i>\$81,800</i>		<i>\$81,800</i>		<i>\$81,800</i>	<i>\$381,460</i>	
SONCC-SFTR.27.2.35									
	SONCC-SFTR.27.2.35.1	\$1,949,465		\$1,949,465		\$1,949,465		\$5,848,395	CDFW
	Action Total:	<i>\$1,949,465</i>		<i>\$1,949,465</i>		<i>\$1,949,465</i>		<i>\$5,848,395</i>	
SONCC-SFTR.27.2.36									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-SFTR.27.2.36.1	\$1,949,465		\$1,949,465		\$1,949,465		\$5,848,395	CDFW
	Action Total:	<i>\$1,949,465</i>		<i>\$1,949,465</i>		<i>\$1,949,465</i>		<i>\$5,848,395</i>	
SONCC-SFTR.27.2.37									
	SONCC-SFTR.27.2.37.1	\$1,949,465		\$1,949,465		\$1,949,465		\$5,848,395	CDFW
	Action Total:	<i>\$1,949,465</i>		<i>\$1,949,465</i>		<i>\$1,949,465</i>		<i>\$5,848,395</i>	
SONCC-SFTR.27.2.38									
	SONCC-SFTR.27.2.38.1	\$1,949,465		\$1,949,465		\$1,949,465		\$5,848,395	CDFW
	Action Total:	<i>\$1,949,465</i>		<i>\$1,949,465</i>		<i>\$1,949,465</i>		<i>\$5,848,395</i>	
SONCC-SFTR.27.2.39									
	SONCC-SFTR.27.2.39.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-SFTR.27.2.39.2	\$34,015						\$34,015	CDFW
	Action Total:	<i>\$99,926</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$298,801</i>	
SONCC-SFTR.27.2.54									
	SONCC-SFTR.27.2.54.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-SFTR.27.1.43									
	SONCC-SFTR.27.1.43.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	Action Total:	<i>\$68,030</i>		<i>\$68,030</i>		<i>\$68,030</i>		<i>\$204,090</i>	
SONCC-SFTR.27.1.45									
	SONCC-SFTR.27.1.45.1	\$34,015						\$34,015	NMFS
	SONCC-SFTR.27.1.45.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-SFTR.27.1.50									
	SONCC-SFTR.27.1.50.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-SFTR.27.1.31									
	SONCC-SFTR.27.1.31.1	\$362,752	\$362,752	\$362,752	\$362,752	\$362,752	\$362,752	\$2,176,512	CDFW
	Action Total:	<i>\$362,752</i>	<i>\$362,752</i>	<i>\$362,752</i>	<i>\$362,752</i>	<i>\$362,752</i>	<i>\$362,752</i>	<i>\$2,176,512</i>	
SONCC-SFTR.27.1.32									
	SONCC-SFTR.27.1.32.1	\$120,917	\$120,917	\$120,917	\$120,917	\$120,917	\$120,917	\$725,502	CDFW
	Action Total:	<i>\$120,917</i>	<i>\$120,917</i>	<i>\$120,917</i>	<i>\$120,917</i>	<i>\$120,917</i>	<i>\$120,917</i>	<i>\$725,502</i>	
SONCC-SFTR.27.1.33									
	SONCC-SFTR.27.1.33.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-SFTR.27.4.51									
	SONCC-SFTR.27.4.51.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-SFTR.27.4.52									
	SONCC-SFTR.27.4.52.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-SFTR.2.2.21									
	SONCC-SFTR.2.2.21.1							\$0	CDFW
	SONCC-SFTR.2.2.21.2							\$0	CDFW
	SONCC-SFTR.2.2.21.3							\$0	CDFW
	Action Total:							<i>\$0</i>	
SONCC-SFTR.2.2.22									
	SONCC-SFTR.2.2.22.1							\$0	CDFW
	Action Total:							<i>\$0</i>	
Population Total:		\$92,640,325	\$1,982,653	\$9,800,758	\$1,982,653	\$9,800,758	\$6,433,360	\$122,640,504	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Population: Strawberry Creek									
SONCC-StrC.5.1.32									
	SONCC-StrC.5.1.32.1	\$17,008						\$17,008	County
	SONCC-StrC.5.1.32.2	\$441,860						\$441,860	County
	SONCC-StrC.5.1.32.3	\$406,977						\$406,977	CalTrans
	Action Total:	<i>\$865,844</i>						<i>\$865,844</i>	
SONCC-StrC.5.1.1									
	SONCC-StrC.5.1.1.1	\$17,008						\$17,008	County
	SONCC-StrC.5.1.1.2	\$441,860						\$441,860	County
	SONCC-StrC.5.1.1.3	\$406,977						\$406,977	CalTrans
	Action Total:	<i>\$865,844</i>						<i>\$865,844</i>	
SONCC-StrC.1.2.8									
	SONCC-StrC.1.2.8.1	\$34,015						\$34,015	County
	SONCC-StrC.1.2.8.2	\$290,070						\$290,070	County
	Action Total:	<i>\$324,085</i>						<i>\$324,085</i>	
SONCC-StrC.1.2.9									
	SONCC-StrC.1.2.9.1	\$1,054,406						\$1,054,406	CCC
	Action Total:	<i>\$1,054,406</i>						<i>\$1,054,406</i>	
SONCC-StrC.1.4.7									
	SONCC-StrC.1.4.7.1	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-StrC.2.1.31									
	SONCC-StrC.2.1.31.1	\$17,008						\$17,008	CDFW
	SONCC-StrC.2.1.31.2	\$176,682						\$176,682	CDFW
	Action Total:	<i>\$193,689</i>						<i>\$193,689</i>	
SONCC-StrC.2.1.13									
	SONCC-StrC.2.1.13.1	\$17,008						\$17,008	CDFW
	SONCC-StrC.2.1.13.2	\$176,682						\$176,682	CDFW
	Action Total:	<i>\$193,689</i>						<i>\$193,689</i>	
SONCC-StrC.10.7.30									
	SONCC-StrC.10.7.30.1	\$8,504						\$8,504	CDFW
	SONCC-StrC.10.7.30.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-StrC.10.7.29									
	SONCC-StrC.10.7.29.1	\$8,504						\$8,504	CDFW
	SONCC-StrC.10.7.29.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-StrC.5.1.18									
	SONCC-StrC.5.1.18.1	\$319,767						\$319,767	County
	Action Total:	<i>\$319,767</i>						<i>\$319,767</i>	
SONCC-StrC.2.2.2									
	SONCC-StrC.2.2.2.1	\$34,015						\$34,015	NGO
	SONCC-StrC.2.2.2.2	\$639,033						\$639,033	NGO
	Action Total:	<i>\$673,048</i>						<i>\$673,048</i>	
SONCC-StrC.27.2.11									
	SONCC-StrC.27.2.11.1	\$136,060						\$136,060	CDFW
	SONCC-StrC.27.2.11.2			\$81,800			\$81,800	\$163,600	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$136,060		\$81,800			\$81,800	\$299,660	
SONCC-StrC.27.2.17									
	SONCC-StrC.27.2.17.1	\$68,030						\$68,030	CDFW
Action Total:		\$68,030						\$68,030	
SONCC-StrC.27.2.20									
	SONCC-StrC.27.2.20.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
Action Total:		\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-StrC.27.2.21									
	SONCC-StrC.27.2.21.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
Action Total:		\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-StrC.27.2.22									
	SONCC-StrC.27.2.22.1	\$1,087		\$1,087		\$1,087		\$3,261	CDFW
Action Total:		\$1,087		\$1,087		\$1,087		\$3,261	
SONCC-StrC.27.2.23									
	SONCC-StrC.27.2.23.1	\$1,087		\$1,087		\$1,087		\$3,261	CDFW
Action Total:		\$1,087		\$1,087		\$1,087		\$3,261	
SONCC-StrC.27.2.28									
	SONCC-StrC.27.2.28.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,228	NMFS
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,228	
SONCC-StrC.27.1.27									
	SONCC-StrC.27.1.27.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-StrC.27.1.15									
	SONCC-StrC.27.1.15.1	\$2,855	\$2,855	\$2,855	\$2,855	\$2,855	\$2,855	\$17,130	CDFW
Action Total:		\$2,855	\$2,855	\$2,855	\$2,855	\$2,855	\$2,855	\$17,130	
SONCC-StrC.27.1.16									
	SONCC-StrC.27.1.16.1	\$34,015						\$34,015	NMFS
	SONCC-StrC.27.1.16.2	\$0						\$0	NMFS
Action Total:		\$34,015						\$34,015	
SONCC-StrC.27.4.25									
	SONCC-StrC.27.4.25.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-StrC.27.4.26									
	SONCC-StrC.27.4.26.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-StrC.7.1.5									
	SONCC-StrC.7.1.5.1							\$0	NRCS/RCD
	SONCC-StrC.7.1.5.2							\$0	NRCS/RCD
	SONCC-StrC.7.1.5.3							\$0	NRCS/RCD
	SONCC-StrC.7.1.5.4							\$0	NRCS/RCD
	SONCC-StrC.7.1.5.5							\$0	NRCS/RCD
Action Total:								\$0	
SONCC-StrC.7.1.6									
	SONCC-StrC.7.1.6.1							\$0	County
	SONCC-StrC.7.1.6.2							\$0	County
Action Total:								\$0	
SONCC-StrC.2.1.19									
	SONCC-StrC.2.1.19.1							\$0	CDFW
Action Total:								\$0	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-StrC.2.2.14	SONCC-StrC.2.2.14.1							\$0	CDFW
	SONCC-StrC.2.2.14.2							\$0	CDFW
	Action Total:								\$0
SONCC-StrC.8.1.10	SONCC-StrC.8.1.10.1							\$0	County
	Action Total:								\$0
SONCC-StrC.10.2.3	SONCC-StrC.10.2.3.1							\$0	County
	SONCC-StrC.10.2.3.2							\$0	County
	Action Total:								\$0
SONCC-StrC.10.2.4	SONCC-StrC.10.2.4.1							\$0	County
	Action Total:								\$0
SONCC-StrC.10.2.12	SONCC-StrC.10.2.12.1							\$0	County
	Action Total:								\$0
SONCC-StrC.10.2.24	SONCC-StrC.10.2.24.1							\$0	CDFW
	SONCC-StrC.10.2.24.2							\$0	CDFW
	Action Total:								\$0
Population Total:		\$5,124,884	\$309,196	\$461,200	\$309,196	\$379,399	\$390,996	\$6,974,869	
Population: Upper Klamath River									
SONCC-UKR.5.1.19	SONCC-UKR.5.1.19.1	\$450,000,000						\$450,000,000	DOI/FERC
	Action Total:		\$450,000,000						\$450,000,000
SONCC-UKR.3.1.5	SONCC-UKR.3.1.5.1	\$73,540						\$73,540	BOR
	SONCC-UKR.3.1.5.2	\$91,925	\$91,925					\$183,850	BOR
	Action Total:		\$165,465	\$91,925					\$257,390
SONCC-UKR.1.2.49	SONCC-UKR.1.2.49.1	\$0						\$0	BIA/Tribe
	Action Total:		\$0						\$0
SONCC-UKR.30.1.25	SONCC-UKR.30.1.25.1	\$68,030						\$68,030	NMFS
	SONCC-UKR.30.1.25.2	\$68,030						\$68,030	NMFS
	Action Total:		\$136,060						\$136,060
SONCC-UKR.5.1.79	SONCC-UKR.5.1.79.1	\$18,385						\$18,385	BIA/Tribe
	SONCC-UKR.5.1.79.2	\$58,140						\$58,140	BIA/Tribe
	Action Total:		\$76,525						\$76,525
SONCC-UKR.5.1.20	SONCC-UKR.5.1.20.1	\$18,385						\$18,385	BIA/Tribe
	SONCC-UKR.5.1.20.2	\$58,140						\$58,140	BIA/Tribe
	Action Total:		\$76,525						\$76,525
SONCC-UKR.3.1.75	SONCC-UKR.3.1.75.1	\$34,015						\$34,015	NRCS/RCD

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-UKR.3.1.75.2	\$38,068						\$38,068	NRCS/RCD
	SONCC-UKR.3.1.75.3	\$36,770						\$36,770	DWR
	Action Total:	<i>\$108,853</i>						<i>\$108,853</i>	
SONCC-UKR.3.1.6									
	SONCC-UKR.3.1.6.1	\$34,015						\$34,015	NRCS/RCD
	SONCC-UKR.3.1.6.2	\$38,068						\$38,068	NRCS/RCD
	SONCC-UKR.3.1.6.3	\$36,770						\$36,770	DWR
	Action Total:	<i>\$108,853</i>						<i>\$108,853</i>	
SONCC-UKR.3.1.77									
	SONCC-UKR.3.1.77.1	\$18,385						\$18,385	SWRCB
	SONCC-UKR.3.1.77.2	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-UKR.3.1.66									
	SONCC-UKR.3.1.66.1	\$18,385						\$18,385	SWRCB
	SONCC-UKR.3.1.66.2	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-UKR.5.2.81									
	SONCC-UKR.5.2.81.1	\$22,270						\$22,270	CDFW
	SONCC-UKR.5.2.81.2	\$85,230						\$85,230	CDFW
	Action Total:	<i>\$107,500</i>						<i>\$107,500</i>	
SONCC-UKR.5.2.24									
	SONCC-UKR.5.2.24.1	\$22,270						\$22,270	CDFW
	SONCC-UKR.5.2.24.2	\$85,230						\$85,230	CDFW
	Action Total:	<i>\$107,500</i>						<i>\$107,500</i>	
SONCC-UKR.2.1.71									
	SONCC-UKR.2.1.71.1	\$17,008						\$17,008	USFS
	SONCC-UKR.2.1.71.2	\$8,902,563						\$8,902,563	USFS
	Action Total:	<i>\$8,919,570</i>						<i>\$8,919,570</i>	
SONCC-UKR.2.1.4									
	SONCC-UKR.2.1.4.1	\$17,008						\$17,008	USFS
	SONCC-UKR.2.1.4.2	\$8,902,563						\$8,902,563	USFS
	Action Total:	<i>\$8,919,570</i>						<i>\$8,919,570</i>	
SONCC-UKR.26.1.65									
	SONCC-UKR.26.1.65.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-UKR.2.2.72									
	SONCC-UKR.2.2.72.1	\$18,385						\$18,385	USFS
	SONCC-UKR.2.2.72.2	\$87,210						\$87,210	USFS
	Action Total:	<i>\$105,595</i>						<i>\$105,595</i>	
SONCC-UKR.2.2.73									
	SONCC-UKR.2.2.73.1	\$17,008						\$17,008	USFS
	SONCC-UKR.2.2.73.2	\$1,666,805						\$1,666,805	USFS
	Action Total:	<i>\$1,683,813</i>						<i>\$1,683,813</i>	
SONCC-UKR.2.2.1									
	SONCC-UKR.2.2.1.1	\$89,080						\$89,080	CDFW
	SONCC-UKR.2.2.1.2	\$217,969						\$217,969	CDFW
	Action Total:	<i>\$307,049</i>						<i>\$307,049</i>	
SONCC-UKR.2.2.2									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-UKR.2.2.2.1	\$18,385						\$18,385	USFS
	SONCC-UKR.2.2.2.2	\$87,210						\$87,210	USFS
	Action Total:	\$105,595						\$105,595	
SONCC-UKR.2.2.3									
	SONCC-UKR.2.2.3.1	\$17,008						\$17,008	USFS
	SONCC-UKR.2.2.3.2	\$1,666,805						\$1,666,805	USFS
	Action Total:	\$1,683,813						\$1,683,813	
SONCC-UKR.17.2.18									
	SONCC-UKR.17.2.18.2	\$0						\$0	CDFW
	Action Total:	\$0						\$0	
SONCC-UKR.8.1.83									
	SONCC-UKR.8.1.83.1	\$1,649,105						\$1,649,105	USFS
	SONCC-UKR.8.1.83.2	\$25,641,554						\$25,641,554	USFS
	SONCC-UKR.8.1.83.3	\$4,088,959						\$4,088,959	USFS
	SONCC-UKR.8.1.83.4	\$3,346,989					\$3,346,989	\$6,693,978	USFS
	Action Total:	\$34,726,606					\$3,346,989	\$38,073,595	
SONCC-UKR.8.1.28									
	SONCC-UKR.8.1.28.1	\$1,649,105						\$1,649,105	USFS
	SONCC-UKR.8.1.28.2	\$25,641,554						\$25,641,554	USFS
	SONCC-UKR.8.1.28.3	\$4,088,959						\$4,088,959	USFS
	SONCC-UKR.8.1.28.4	\$3,346,989					\$3,346,989	\$6,693,978	USFS
	Action Total:	\$34,726,606					\$3,346,989	\$38,073,595	
SONCC-UKR.30.1.26									
	SONCC-UKR.30.1.26.1	\$68,030						\$68,030	CDFW
	SONCC-UKR.30.1.26.2	\$68,030						\$68,030	CDFW
	Action Total:	\$136,060						\$136,060	
SONCC-UKR.10.1.68									
	SONCC-UKR.10.1.68.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-UKR.10.1.68.2	\$82,474						\$82,474	NRCS/RCD
	Action Total:	\$99,482						\$99,482	
SONCC-UKR.10.1.16									
	SONCC-UKR.10.1.16.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-UKR.10.1.16.2	\$82,474						\$82,474	NRCS/RCD
	Action Total:	\$99,482						\$99,482	
SONCC-UKR.5.1.80									
	SONCC-UKR.5.1.80.1	\$22,270						\$22,270	CDFW
	SONCC-UKR.5.1.80.2	\$319,767						\$319,767	CDFW
	Action Total:	\$342,037						\$342,037	
SONCC-UKR.5.1.21									
	SONCC-UKR.5.1.21.1	\$22,270						\$22,270	CDFW
	SONCC-UKR.5.1.21.2	\$319,767						\$319,767	CDFW
	Action Total:	\$342,037						\$342,037	
SONCC-UKR.3.1.74									
	SONCC-UKR.3.1.74.1	\$13,068						\$13,068	USFS
	SONCC-UKR.3.1.74.2	\$19,888	\$19,888	\$19,888	\$19,888	\$19,888	\$19,888	\$119,325	USFS
	Action Total:	\$32,956	\$19,888	\$19,888	\$19,888	\$19,888	\$19,888	\$132,393	
SONCC-UKR.3.1.48									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-UKR.3.1.48.1	\$13,068						\$13,068	USFS
	SONCC-UKR.3.1.48.2	\$19,888	\$19,888	\$19,888	\$19,888	\$19,888	\$19,888	\$119,325	USFS
	Action Total:	<i>\$32,956</i>	<i>\$19,888</i>	<i>\$19,888</i>	<i>\$19,888</i>	<i>\$19,888</i>	<i>\$19,888</i>	<i>\$132,393</i>	
SONCC-UKR.3.2.78									
	SONCC-UKR.3.2.78.1	\$17,008						\$17,008	CDFW
	SONCC-UKR.3.2.78.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-UKR.3.2.78.3	\$10,000						\$10,000	CDFW
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-UKR.3.2.11									
	SONCC-UKR.3.2.11.1	\$17,008						\$17,008	CDFW
	SONCC-UKR.3.2.11.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-UKR.3.2.11.3	\$10,000						\$10,000	CDFW
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-UKR.3.2.12									
	SONCC-UKR.3.2.12.1	\$0						\$0	CDFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-UKR.5.1.22									
	SONCC-UKR.5.1.22.1	\$44,540						\$44,540	CDFW
	SONCC-UKR.5.1.22.2	\$568,181						\$568,181	CDFW
	SONCC-UKR.5.1.22.3	\$26,136						\$26,136	CDFW
	SONCC-UKR.5.1.22.4	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$238,650	CDFW
	Action Total:	<i>\$678,632</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$877,507</i>	
SONCC-UKR.3.1.8									
	SONCC-UKR.3.1.8.1	\$0						\$0	SWRCB
	SONCC-UKR.3.1.8.2	\$0						\$0	SWRCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-UKR.3.2.10									
	SONCC-UKR.3.2.10.1	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$36,770</i>						<i>\$36,770</i>	
SONCC-UKR.3.1.76									
	SONCC-UKR.3.1.76.1	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	SWRCB
	Action Total:	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$741,000</i>	
SONCC-UKR.3.1.64									
	SONCC-UKR.3.1.64.1	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	SWRCB
	Action Total:	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$741,000</i>	
SONCC-UKR.3.1.67									
	SONCC-UKR.3.1.67.1	\$36,077						\$36,077	CDFW
	SONCC-UKR.3.1.67.2	\$36,077						\$36,077	CDFW
	SONCC-UKR.3.1.67.3	\$36,077						\$36,077	CDFW
	Action Total:	<i>\$108,231</i>						<i>\$108,231</i>	
SONCC-UKR.7.1.82									
	SONCC-UKR.7.1.82.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-UKR.7.1.82.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-UKR.7.1.82.3	\$1,571,372						\$1,571,372	NRCS/RCD
	SONCC-UKR.7.1.82.4	\$53,119						\$53,119	NRCS/RCD
	SONCC-UKR.7.1.82.5	\$2,125						\$2,125	NRCS/RCD
	Action Total:	<i>\$1,660,630</i>						<i>\$1,660,630</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-UKR.7.1.13	SONCC-UKR.7.1.13.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-UKR.7.1.13.2	\$17,008						\$17,008	NRCS/RCD
	SONCC-UKR.7.1.13.3	\$1,571,372						\$1,571,372	NRCS/RCD
	SONCC-UKR.7.1.13.4	\$53,119						\$53,119	NRCS/RCD
	SONCC-UKR.7.1.13.5	\$2,125						\$2,125	NRCS/RCD
	Action Total:		\$1,660,630						\$1,660,630
SONCC-UKR.8.2.27	SONCC-UKR.8.2.27.1	\$36,770						\$36,770	BIA/Tribe
	SONCC-UKR.8.2.27.2	\$336,000	\$336,000	\$336,000	\$336,000	\$336,000	\$336,000	\$2,016,000	BIA/Tribe
	Action Total:	\$372,770	\$336,000	\$336,000	\$336,000	\$336,000	\$336,000	\$2,052,770	
SONCC-UKR.8.1.84	SONCC-UKR.8.1.84.1	\$238,139						\$238,139	USFS
	SONCC-UKR.8.1.84.2	\$9,055,305						\$9,055,305	USFS
	Action Total:	\$9,293,444						\$9,293,444	
SONCC-UKR.8.1.29	SONCC-UKR.8.1.29.1	\$238,139						\$238,139	USFS
	SONCC-UKR.8.1.29.2	\$9,055,305						\$9,055,305	USFS
	Action Total:	\$9,293,444						\$9,293,444	
SONCC-UKR.10.2.69	SONCC-UKR.10.2.69.1	\$17,008						\$17,008	CDFW
	SONCC-UKR.10.2.69.2	\$38,068						\$38,068	CDFW
	Action Total:	\$55,076						\$55,076	
SONCC-UKR.10.2.51	SONCC-UKR.10.2.51.1	\$17,008						\$17,008	CDFW
	SONCC-UKR.10.2.51.2	\$38,068						\$38,068	CDFW
	Action Total:	\$55,076						\$55,076	
SONCC-UKR.10.7.70	SONCC-UKR.10.7.70.1	\$8,504						\$8,504	CDFW
	SONCC-UKR.10.7.70.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-UKR.10.7.63	SONCC-UKR.10.7.63.1	\$8,504						\$8,504	CDFW
	SONCC-UKR.10.7.63.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-UKR.16.1.30	SONCC-UKR.16.1.30.1	\$34,015						\$34,015	NMFS
	SONCC-UKR.16.1.30.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-UKR.16.1.31	SONCC-UKR.16.1.31.1	\$34,015						\$34,015	NMFS
	SONCC-UKR.16.1.31.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-UKR.16.1.61	SONCC-UKR.16.1.61.1	\$34,015						\$34,015	NMFS
	SONCC-UKR.16.1.61.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-UKR.16.1.62	SONCC-UKR.16.1.62.1	\$34,015						\$34,015	BIA/Tribe
	SONCC-UKR.16.1.62.2	\$34,015						\$34,015	BIA/Tribe
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-UKR.16.2.32	SONCC-UKR.16.2.32.1	\$34,015						\$34,015	NMFS
	SONCC-UKR.16.2.32.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-UKR.16.2.33	SONCC-UKR.16.2.33.1	\$34,015						\$34,015	NMFS
	SONCC-UKR.16.2.33.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-UKR.27.2.56	SONCC-UKR.27.2.56.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-UKR.27.2.57	SONCC-UKR.27.2.57.1	\$68,030						\$68,030	CDFW
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-UKR.27.2.59	SONCC-UKR.27.2.59.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-UKR.27.2.42	SONCC-UKR.27.2.42.1	\$136,060						\$136,060	CDFW
	SONCC-UKR.27.2.42.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	<i>\$136,060</i>	<i>\$81,800</i>		<i>\$81,800</i>		<i>\$81,800</i>	<i>\$381,460</i>	
SONCC-UKR.27.2.43	SONCC-UKR.27.2.43.1	\$6,012,619		\$6,012,619		\$6,012,619		\$18,037,857	CDFW
	Action Total:	<i>\$6,012,619</i>		<i>\$6,012,619</i>		<i>\$6,012,619</i>		<i>\$18,037,857</i>	
SONCC-UKR.27.2.44	SONCC-UKR.27.2.44.1	\$6,012,619		\$6,012,619		\$6,012,619		\$18,037,857	CDFW
	Action Total:	<i>\$6,012,619</i>		<i>\$6,012,619</i>		<i>\$6,012,619</i>		<i>\$18,037,857</i>	
SONCC-UKR.27.2.45	SONCC-UKR.27.2.45.1	\$6,012,619		\$6,012,619		\$6,012,619		\$18,037,857	CDFW
	Action Total:	<i>\$6,012,619</i>		<i>\$6,012,619</i>		<i>\$6,012,619</i>		<i>\$18,037,857</i>	
SONCC-UKR.27.2.46	SONCC-UKR.27.2.46.1	\$6,012,619		\$6,012,619		\$6,012,619		\$18,037,857	CDFW
	Action Total:	<i>\$6,012,619</i>		<i>\$6,012,619</i>		<i>\$6,012,619</i>		<i>\$18,037,857</i>	
SONCC-UKR.27.2.47	SONCC-UKR.27.2.47.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-UKR.27.2.47.2	\$34,015						\$34,015	CDFW
	Action Total:	<i>\$99,926</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$39,775</i>	<i>\$298,801</i>	
SONCC-UKR.27.2.60	SONCC-UKR.27.2.60.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-UKR.27.1.58	SONCC-UKR.27.1.58.1	\$212,355	\$212,355	\$212,355	\$212,355	\$212,355	\$212,355	\$1,274,130	CDFW
	Action Total:	<i>\$212,355</i>	<i>\$212,355</i>	<i>\$212,355</i>	<i>\$212,355</i>	<i>\$212,355</i>	<i>\$212,355</i>	<i>\$1,274,130</i>	
SONCC-UKR.27.1.50	SONCC-UKR.27.1.50.1	\$34,015						\$34,015	NMFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-UKR.27.1.50.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-UKR.27.1.34	SONCC-UKR.27.1.34.1	\$34,015						\$34,015	CDFW
	Action Total:	\$34,015						\$34,015	
SONCC-UKR.27.1.35	SONCC-UKR.27.1.35.1	\$637,065	\$637,065	\$637,065	\$637,065	\$637,065	\$637,065	\$3,822,390	CDFW
	Action Total:	\$637,065	\$637,065	\$637,065	\$637,065	\$637,065	\$637,065	\$3,822,390	
SONCC-UKR.27.1.36	SONCC-UKR.27.1.36.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	CDFW
	Action Total:	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	
SONCC-UKR.27.1.37	SONCC-UKR.27.1.37.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	Action Total:	\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-UKR.27.1.38	SONCC-UKR.27.1.38.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-UKR.27.1.39	SONCC-UKR.27.1.39.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-UKR.27.1.40	SONCC-UKR.27.1.40.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-UKR.27.1.41	SONCC-UKR.27.1.41.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-UKR.27.4.52	SONCC-UKR.27.4.52.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-UKR.27.4.53	SONCC-UKR.27.4.53.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-UKR.27.4.54	SONCC-UKR.27.4.54.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-UKR.27.4.55	SONCC-UKR.27.4.55.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-UKR.5.1.23	SONCC-UKR.5.1.23.1							\$0	BIA/Tribe
	SONCC-UKR.5.1.23.2							\$0	BIA/Tribe
	Action Total:							\$0	
SONCC-UKR.3.1.7	SONCC-UKR.3.1.7.1							\$0	NGO
	Action Total:							\$0	
SONCC-UKR.7.1.14	SONCC-UKR.7.1.14.1							\$0	USFS
	SONCC-UKR.7.1.14.2							\$0	USFS
	SONCC-UKR.7.1.14.3							\$0	USFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead		
Action Total:									\$0		
SONCC-UKR.7.1.15											
	SONCC-UKR.7.1.15.1							\$0	USFS		
	SONCC-UKR.7.1.15.2							\$0	USFS		
Action Total:									\$0		
Population Total:		\$594,582,758	\$3,698,505	\$27,711,316	\$3,606,580	\$27,711,316	\$10,300,558	\$667,611,033			
Population: Upper Mainstem Eel River											
SONCC-UMER.5.2.59											
	SONCC-UMER.5.2.59.1	\$34,015						\$34,015	CDFW		
	SONCC-UMER.5.2.59.2	\$5,682						\$5,682	CDFW		
Action Total:		\$39,697								\$39,697	
SONCC-UMER.5.2.7											
	SONCC-UMER.5.2.7.1	\$34,015						\$34,015	CDFW		
	SONCC-UMER.5.2.7.2	\$5,682						\$5,682	CDFW		
Action Total:		\$39,697								\$39,697	
SONCC-UMER.10.1.52											
	SONCC-UMER.10.1.52.1	\$17,008						\$17,008	CDFW		
	SONCC-UMER.10.1.52.2	\$246,533						\$246,533	CDFW		
Action Total:		\$263,540								\$263,540	
SONCC-UMER.10.1.33											
	SONCC-UMER.10.1.33.1	\$17,008						\$17,008	CDFW		
	SONCC-UMER.10.1.33.2	\$246,533						\$246,533	CDFW		
Action Total:		\$263,540								\$263,540	
SONCC-UMER.1.2.29											
	SONCC-UMER.1.2.29.1	\$0						\$0	CDFW		
Action Total:		\$0								\$0	
SONCC-UMER.3.1.34											
	SONCC-UMER.3.1.34.1	\$34,015						\$34,015	CDFW		
	SONCC-UMER.3.1.34.2	\$0						\$0	CDFW		
Action Total:		\$34,015								\$34,015	
SONCC-UMER.3.1.39											
	SONCC-UMER.3.1.39.1	\$73,540						\$73,540	CDFW		
	SONCC-UMER.3.1.39.2	\$36,770						\$36,770	CDFW		
	SONCC-UMER.3.1.39.3	\$73,540						\$73,540	CDFW		
Action Total:		\$183,850								\$183,850	
SONCC-UMER.3.1.3											
	SONCC-UMER.3.1.3.1	\$0						\$0	SWRCB		
Action Total:		\$0								\$0	
SONCC-UMER.3.1.4											
	SONCC-UMER.3.1.4.1	\$76,136						\$76,136	CDFW		
Action Total:		\$76,136								\$76,136	
SONCC-UMER.3.1.5											
	SONCC-UMER.3.1.5.1	\$0						\$0	NRCS/RCD		
Action Total:		\$0								\$0	
SONCC-UMER.3.1.6											
	SONCC-UMER.3.1.6.1	\$76,136						\$76,136	NRCS/RCD		
Action Total:		\$76,136								\$76,136	
SONCC-UMER.2.1.32											

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-UMER.2.1.32.1	\$17,008						\$17,008	CDFW
	SONCC-UMER.2.1.32.2	\$115,041						\$115,041	CDFW
	Action Total:	<i>\$132,048</i>						<i>\$132,048</i>	
SONCC-UMER.2.1.55									
	SONCC-UMER.2.1.55.1	\$17,008						\$17,008	CDFW
	SONCC-UMER.2.1.55.2	\$115,041						\$115,041	CDFW
	Action Total:	<i>\$132,048</i>						<i>\$132,048</i>	
SONCC-UMER.2.1.10									
	SONCC-UMER.2.1.10.1	\$17,008						\$17,008	CDFW
	SONCC-UMER.2.1.10.2	\$246,533						\$246,533	CDFW
	Action Total:	<i>\$263,540</i>						<i>\$263,540</i>	
SONCC-UMER.8.1.14									
	SONCC-UMER.8.1.14.1	\$543,918						\$543,918	USFS
	SONCC-UMER.8.1.14.2	\$11,524,742						\$11,524,742	USFS
	SONCC-UMER.8.1.14.3	\$2,357,908						\$2,357,908	USFS
	SONCC-UMER.8.1.14.4	\$1,724,858				\$1,724,858		\$3,449,716	USFS
	Action Total:	<i>\$16,151,426</i>				<i>\$1,724,858</i>		<i>\$17,876,284</i>	
SONCC-UMER.14.2.8									
	SONCC-UMER.14.2.8.1	\$34,015						\$34,015	CDFW
	SONCC-UMER.14.2.8.2	\$1,799,158						\$1,799,158	CDFW
	Action Total:	<i>\$1,833,173</i>						<i>\$1,833,173</i>	
SONCC-UMER.3.1.1									
	SONCC-UMER.3.1.1.1	\$34,015						\$34,015	FERC
	SONCC-UMER.3.1.1.2	\$34,015						\$34,015	FERC
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-UMER.5.1.2									
	SONCC-UMER.5.1.2.1	\$230,650						\$230,650	NMFS
	SONCC-UMER.5.1.2.2	\$230,650						\$230,650	NMFS
	SONCC-UMER.5.1.2.3	\$2,215,850						\$2,215,850	NMFS
	Action Total:	<i>\$2,677,150</i>						<i>\$2,677,150</i>	
SONCC-UMER.7.1.11									
	SONCC-UMER.7.1.11.1	\$34,015						\$34,015	NRCS/RCD
	SONCC-UMER.7.1.11.2	\$86,292						\$86,292	NRCS/RCD
	SONCC-UMER.7.1.11.3	\$627,912						\$627,912	NRCS/RCD
	Action Total:	<i>\$748,219</i>						<i>\$748,219</i>	
SONCC-UMER.2.1.38									
	SONCC-UMER.2.1.38.1	\$17,008						\$17,008	CDFW
	SONCC-UMER.2.1.38.2	\$616,332						\$616,332	CDFW
	Action Total:	<i>\$633,339</i>						<i>\$633,339</i>	
SONCC-UMER.2.1.57									
	SONCC-UMER.2.1.57.1	\$17,008						\$17,008	CDFW
	SONCC-UMER.2.1.57.2	\$616,332						\$616,332	CDFW
	Action Total:	<i>\$633,339</i>						<i>\$633,339</i>	
SONCC-UMER.10.7.53									
	SONCC-UMER.10.7.53.1	\$8,504						\$8,504	CDFW
	SONCC-UMER.10.7.53.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-UMER.10.7.51	SONCC-UMER.10.7.51.1	\$8,504						\$8,504	CDFW
	SONCC-UMER.10.7.51.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-UMER.3.1.35	SONCC-UMER.3.1.35.1	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$238,650	NGO
	Action Total:	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$238,650	
SONCC-UMER.7.1.12	SONCC-UMER.7.1.12.1	\$5,669						\$5,669	CDF
	Action Total:	\$5,669						\$5,669	
SONCC-UMER.7.1.13	SONCC-UMER.7.1.13.1	\$18,200						\$18,200	USFS
	SONCC-UMER.7.1.13.2	\$898,560						\$898,560	USFS
	Action Total:	\$916,760						\$916,760	
SONCC-UMER.16.1.16	SONCC-UMER.16.1.16.1	\$34,015						\$34,015	NMFS
	SONCC-UMER.16.1.16.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-UMER.16.1.17	SONCC-UMER.16.1.17.1	\$34,015						\$34,015	NMFS
	SONCC-UMER.16.1.17.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-UMER.16.2.18	SONCC-UMER.16.2.18.1	\$34,015						\$34,015	NMFS
	SONCC-UMER.16.2.18.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-UMER.16.2.19	SONCC-UMER.16.2.19.1	\$34,015						\$34,015	NMFS
	SONCC-UMER.16.2.19.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-UMER.27.2.42	SONCC-UMER.27.2.42.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-UMER.27.2.43	SONCC-UMER.27.2.43.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-UMER.27.2.43.2	\$34,015						\$34,015	CDFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-UMER.27.2.48	SONCC-UMER.27.2.48.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-UMER.27.2.49	SONCC-UMER.27.2.49.1	\$68,030						\$68,030	CDFW
	Action Total:	\$68,030						\$68,030	
SONCC-UMER.27.2.40	SONCC-UMER.27.2.40.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-UMER.27.2.41	SONCC-UMER.27.2.41.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-UMER.27.2.24									
	SONCC-UMER.27.2.24.1	\$136,060						\$136,060	CDFW
	SONCC-UMER.27.2.24.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
Action Total:		\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-UMER.27.2.25									
	SONCC-UMER.27.2.25.1	\$97,596		\$97,596		\$97,596		\$292,788	CDFW
Action Total:		\$97,596		\$97,596		\$97,596		\$292,788	
SONCC-UMER.27.2.26									
	SONCC-UMER.27.2.26.1	\$97,596		\$97,596		\$97,596		\$292,788	CDFW
Action Total:		\$97,596		\$97,596		\$97,596		\$292,788	
SONCC-UMER.27.2.27									
	SONCC-UMER.27.2.27.1	\$97,596		\$97,596		\$97,596		\$292,788	CDFW
Action Total:		\$97,596		\$97,596		\$97,596		\$292,788	
SONCC-UMER.27.2.28									
	SONCC-UMER.27.2.28.1	\$97,596		\$97,596		\$97,596		\$292,788	CDFW
Action Total:		\$97,596		\$97,596		\$97,596		\$292,788	
SONCC-UMER.27.2.50									
	SONCC-UMER.27.2.50.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-UMER.27.1.31									
	SONCC-UMER.27.1.31.1	\$34,015						\$34,015	NMFS
	SONCC-UMER.27.1.31.2	\$0						\$0	NMFS
Action Total:		\$34,015						\$34,015	
SONCC-UMER.27.1.21									
	SONCC-UMER.27.1.21.1	\$27,055	\$27,055	\$27,055	\$27,055	\$27,055	\$27,055	\$162,330	CDFW
Action Total:		\$27,055	\$27,055	\$27,055	\$27,055	\$27,055	\$27,055	\$162,330	
SONCC-UMER.27.1.22									
	SONCC-UMER.27.1.22.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-UMER.27.1.23									
	SONCC-UMER.27.1.23.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-UMER.27.1.23.2	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	CDFW
Action Total:		\$102,045	\$102,045	\$102,045	\$102,045	\$102,045	\$102,045	\$612,270	
SONCC-UMER.27.4.44									
	SONCC-UMER.27.4.44.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
Action Total:		\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-UMER.27.4.45									
	SONCC-UMER.27.4.45.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-UMER.27.4.46									
	SONCC-UMER.27.4.46.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-UMER.27.4.47									
	SONCC-UMER.27.4.47.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
Population Total:		\$26,987,457	\$784,078	\$1,228,722	\$784,078	\$2,953,580	\$784,078	\$33,521,990	

Population: Upper Roque River

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-URR.12.1.50	SONCC-URR.12.1.50.1	\$0						\$0	ODA
	SONCC-URR.12.1.50.2	\$0						\$0	ODA
	SONCC-URR.12.1.50.3	\$0						\$0	ODA
	SONCC-URR.12.1.50.4	\$0						\$0	ODA
	SONCC-URR.12.1.50.5	\$0						\$0	ODA
	SONCC-URR.12.1.50.6	\$0						\$0	ODA
	Action Total:		\$0						\$0
SONCC-URR.10.5.14	SONCC-URR.10.5.14.1	\$68,030						\$68,030	ODF
	SONCC-URR.10.5.14.2	\$0						\$0	ODF
	SONCC-URR.10.5.14.3	\$0						\$0	ODF
	SONCC-URR.10.5.14.4	\$0						\$0	ODF
	SONCC-URR.10.5.14.5	\$0						\$0	ODF
Action Total:		\$68,030						\$68,030	
SONCC-URR.3.1.4	SONCC-URR.3.1.4.1	\$36,770						\$36,770	OWRD
	Action Total:		\$36,770						\$36,770
SONCC-URR.3.1.5	SONCC-URR.3.1.5.1	\$73,540						\$73,540	OWRD
	Action Total:		\$73,540						\$73,540
SONCC-URR.3.1.6	SONCC-URR.3.1.6.1	\$36,770						\$36,770	OWRD
	Action Total:		\$36,770						\$36,770
SONCC-URR.3.1.7	SONCC-URR.3.1.7.1	\$76,136						\$76,136	NGO
	Action Total:		\$76,136						\$76,136
SONCC-URR.22.3.47	SONCC-URR.22.3.47.1	\$0						\$0	County
	SONCC-URR.22.3.47.2	\$0						\$0	County
	Action Total:		\$0						\$0
SONCC-URR.2.1.70	SONCC-URR.2.1.70.1	\$0						\$0	BLM
	Action Total:		\$0						\$0
SONCC-URR.2.1.71	SONCC-URR.2.1.71.1	\$17,008						\$17,008	ODFW
	SONCC-URR.2.1.71.2	\$21,366,150						\$21,366,150	ODFW
	Action Total:		\$21,383,158						\$21,383,158
SONCC-URR.2.1.49	SONCC-URR.2.1.49.1	\$17,008						\$17,008	ODFW
	SONCC-URR.2.1.49.2	\$21,366,150						\$21,366,150	ODFW
	Action Total:		\$21,383,158						\$21,383,158
SONCC-URR.2.1.11	SONCC-URR.2.1.11.1	\$0						\$0	BLM
	Action Total:		\$0						\$0
SONCC-URR.2.2.72	SONCC-URR.2.2.72.1	\$17,008						\$17,008	ODFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-URR.2.2.72	SONCC-URR.2.2.72.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-URR.2.2.72.3	\$15,000						\$15,000	ODFW
	Action Total:	<i>\$117,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$542,233</i>	
SONCC-URR.2.2.73	SONCC-URR.2.2.73.1	\$17,008						\$17,008	FSA
	SONCC-URR.2.2.73.2	\$3,988,062						\$3,988,062	FSA
	Action Total:	<i>\$4,005,070</i>						<i>\$4,005,070</i>	
SONCC-URR.2.2.9	SONCC-URR.2.2.9.1	\$17,008						\$17,008	FSA
	SONCC-URR.2.2.9.2	\$3,988,062						\$3,988,062	FSA
	Action Total:	<i>\$4,005,070</i>						<i>\$4,005,070</i>	
SONCC-URR.2.2.10	SONCC-URR.2.2.10.1	\$17,008						\$17,008	ODFW
	SONCC-URR.2.2.10.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-URR.2.2.10.3	\$15,000						\$15,000	ODFW
	Action Total:	<i>\$117,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$542,233</i>	
SONCC-URR.3.1.74	SONCC-URR.3.1.74.1	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	OWRD
	Action Total:	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$741,000</i>	
SONCC-URR.3.1.75	SONCC-URR.3.1.75.1	\$18,385						\$18,385	OWRD
	SONCC-URR.3.1.75.2	\$36,770						\$36,770	OWRD
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-URR.3.1.44	SONCC-URR.3.1.44.1	\$0						\$0	OWRD
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-URR.3.1.65	SONCC-URR.3.1.65.1	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$123,500	\$741,000	OWRD
	Action Total:	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$123,500</i>	<i>\$741,000</i>	
SONCC-URR.3.1.67	SONCC-URR.3.1.67.1	\$18,385						\$18,385	OWRD
	SONCC-URR.3.1.67.2	\$36,770						\$36,770	OWRD
	Action Total:	<i>\$55,155</i>						<i>\$55,155</i>	
SONCC-URR.26.1.66	SONCC-URR.26.1.66.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
SONCC-URR.10.2.43	SONCC-URR.10.2.43.1	\$76,136						\$76,136	ODEQ
	SONCC-URR.10.2.43.2	\$0						\$0	ODEQ
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	
SONCC-URR.10.2.48	SONCC-URR.10.2.48.1	\$0						\$0	County
	SONCC-URR.10.2.48.2	\$0						\$0	County
	SONCC-URR.10.2.48.3	\$0						\$0	County
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-URR.10.1.12	SONCC-URR.10.1.12.1	\$0						\$0	County
	SONCC-URR.10.1.12.2	\$0						\$0	County

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$0						\$0	
SONCC-URR.10.1.13									
	SONCC-URR.10.1.13.1	\$34,015						\$34,015	USFS
	SONCC-URR.10.1.13.3	\$21,628,080						\$21,628,080	USFS
Action Total:		\$21,662,095						\$21,662,095	
SONCC-URR.2.2.61									
	SONCC-URR.2.2.61.1	\$0						\$0	ODFW
Action Total:		\$0						\$0	
SONCC-URR.5.1.76									
	SONCC-URR.5.1.76.1	\$17,008						\$17,008	County
	SONCC-URR.5.1.76.2	\$1,351,740						\$1,351,740	County
Action Total:		\$1,368,747						\$1,368,747	
SONCC-URR.5.1.20									
	SONCC-URR.5.1.20.1	\$17,008						\$17,008	County
	SONCC-URR.5.1.20.2	\$1,351,740						\$1,351,740	County
Action Total:		\$1,368,747						\$1,368,747	
SONCC-URR.10.5.37									
	SONCC-URR.10.5.37.1	\$0						\$0	BLM
Action Total:		\$0						\$0	
SONCC-URR.7.1.77									
	SONCC-URR.7.1.77.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-URR.7.1.77.2	\$85,038						\$85,038	NRCS/RCD
	SONCC-URR.7.1.77.3	\$85,038						\$85,038	NRCS/RCD
Action Total:		\$187,083						\$187,083	
SONCC-URR.7.1.45									
	SONCC-URR.7.1.45.1	\$17,008						\$17,008	NRCS/RCD
	SONCC-URR.7.1.45.2	\$85,038						\$85,038	NRCS/RCD
	SONCC-URR.7.1.45.3	\$85,038						\$85,038	NRCS/RCD
Action Total:		\$187,083						\$187,083	
SONCC-URR.8.1.1									
	SONCC-URR.8.1.1.1	\$9,080,364						\$9,080,364	NGO
	SONCC-URR.8.1.1.2	\$39,878,000						\$39,878,000	NGO
	SONCC-URR.8.1.1.3	\$14,535,000						\$14,535,000	NGO
	SONCC-URR.8.1.1.4	\$2,389,000					\$2,389,000	\$4,778,000	NGO
Action Total:		\$65,882,364						\$68,271,364	
SONCC-URR.8.1.2									
	SONCC-URR.8.1.2.1	\$0						\$0	County
Action Total:		\$0						\$0	
SONCC-URR.10.2.42									
	SONCC-URR.10.2.42.1	\$22,963						\$22,963	ODFW
	SONCC-URR.10.2.42.2	\$38,068						\$38,068	ODFW
Action Total:		\$61,031						\$61,031	
SONCC-URR.10.2.68									
	SONCC-URR.10.2.68.1	\$22,963						\$22,963	ODFW
	SONCC-URR.10.2.68.2	\$38,068						\$38,068	ODFW
Action Total:		\$61,031						\$61,031	
SONCC-URR.10.7.69									
	SONCC-URR.10.7.69.1	\$8,504						\$8,504	ODFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-URR.10.7.69.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-URR.10.7.64									
	SONCC-URR.10.7.64.1	\$8,504						\$8,504	ODFW
	SONCC-URR.10.7.64.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-URR.3.1.8									
	SONCC-URR.3.1.8.1	\$36,770						\$36,770	USACE
	SONCC-URR.3.1.8.2	\$36,770						\$36,770	USACE
	Action Total:	<i>\$73,540</i>						<i>\$73,540</i>	
SONCC-URR.1.2.39									
	SONCC-URR.1.2.39.1	\$0						\$0	ODFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-URR.7.1.46									
	SONCC-URR.7.1.46.1	\$170,075						\$170,075	USFS
	Action Total:	<i>\$170,075</i>						<i>\$170,075</i>	
SONCC-URR.16.1.21									
	SONCC-URR.16.1.21.1	\$34,015						\$34,015	NMFS
	SONCC-URR.16.1.21.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-URR.16.1.22									
	SONCC-URR.16.1.22.1	\$34,015						\$34,015	NMFS
	SONCC-URR.16.1.22.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-URR.16.2.23									
	SONCC-URR.16.2.23.1	\$34,015						\$34,015	NMFS
	SONCC-URR.16.2.23.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-URR.16.2.24									
	SONCC-URR.16.2.24.1	\$34,015						\$34,015	NMFS
	SONCC-URR.16.2.24.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-URR.10.2.15									
	SONCC-URR.10.2.15.1	\$76,136						\$76,136	County
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	
SONCC-URR.14.2.19									
	SONCC-URR.14.2.19.1	\$68,030						\$68,030	ODFW
	SONCC-URR.14.2.19.2	\$2,068,150						\$2,068,150	ODFW
	Action Total:	<i>\$2,136,180</i>						<i>\$2,136,180</i>	
SONCC-URR.10.7.63									
	SONCC-URR.10.7.63.1	\$17,008						\$17,008	ODFW
	SONCC-URR.10.7.63.2	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	<i>\$119,258</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$630,508</i>	
SONCC-URR.27.2.55									
	SONCC-URR.27.2.55.1	\$34,015		\$34,015		\$34,015		\$102,045	ODFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-URR.27.2.56									
	SONCC-URR.27.2.56.1	\$68,030						\$68,030	ODFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$68,030						\$68,030	
SONCC-URR.27.2.58									
	SONCC-URR.27.2.58.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
Action Total:		\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-URR.27.2.62									
	SONCC-URR.27.2.62.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-URR.27.2.30									
	SONCC-URR.27.2.30.1	\$136,060						\$136,060	ODFW
	SONCC-URR.27.2.30.2		\$81,800		\$81,800		\$81,800	\$245,400	ODFW
Action Total:		\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-URR.27.2.31									
	SONCC-URR.27.2.31.1	\$27,933,736		\$27,933,736		\$27,933,736		\$83,801,208	ODFW
Action Total:		\$27,933,736		\$27,933,736		\$27,933,736		\$83,801,208	
SONCC-URR.27.2.32									
	SONCC-URR.27.2.32.1	\$27,933,736		\$27,933,736		\$27,933,736		\$83,801,208	ODFW
Action Total:		\$27,933,736		\$27,933,736		\$27,933,736		\$83,801,208	
SONCC-URR.27.2.33									
	SONCC-URR.27.2.33.1	\$27,933,736		\$27,933,736		\$27,933,736		\$83,801,208	ODFW
Action Total:		\$27,933,736		\$27,933,736		\$27,933,736		\$83,801,208	
SONCC-URR.27.2.34									
	SONCC-URR.27.2.34.1	\$27,933,736		\$27,933,736		\$27,933,736		\$83,801,208	ODFW
Action Total:		\$27,933,736		\$27,933,736		\$27,933,736		\$83,801,208	
SONCC-URR.27.2.35									
	SONCC-URR.27.2.35.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	ODFW
Action Total:		\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	
SONCC-URR.27.1.38									
	SONCC-URR.27.1.38.1	\$457,715	\$457,715	\$457,715	\$457,715	\$457,715	\$457,715	\$2,746,290	ODFW
Action Total:		\$457,715	\$457,715	\$457,715	\$457,715	\$457,715	\$457,715	\$2,746,290	
SONCC-URR.27.1.41									
	SONCC-URR.27.1.41.1	\$34,015						\$34,015	NMFS
	SONCC-URR.27.1.41.2	\$0						\$0	NMFS
Action Total:		\$34,015						\$34,015	
SONCC-URR.27.1.60									
	SONCC-URR.27.1.60.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	ODFW
Action Total:		\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	
SONCC-URR.27.1.25									
	SONCC-URR.27.1.25.1	\$1,373,145	\$1,373,145	\$1,373,145	\$1,373,145	\$1,373,145	\$1,373,145	\$8,238,870	ODFW
Action Total:		\$1,373,145	\$1,373,145	\$1,373,145	\$1,373,145	\$1,373,145	\$1,373,145	\$8,238,870	
SONCC-URR.27.1.26									
	SONCC-URR.27.1.26.1	\$68,030		\$68,030		\$68,030		\$204,090	ODFW
Action Total:		\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-URR.27.1.27									
	SONCC-URR.27.1.27.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-URR.27.1.28									
	SONCC-URR.27.1.28.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-URR.27.1.29									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-URR.27.1.29.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-URR.27.4.51	SONCC-URR.27.4.51.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-URR.27.4.52	SONCC-URR.27.4.52.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-URR.27.4.53	SONCC-URR.27.4.53.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-URR.27.4.54	SONCC-URR.27.4.54.1	\$34,015		\$34,015		\$34,015		\$102,045	ODFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-URR.27.4.57	SONCC-URR.27.4.57.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$510,225</i>	
SONCC-URR.27.4.59	SONCC-URR.27.4.59.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
	Population Total:	\$261,288,821	\$4,376,970	\$116,166,174	\$4,376,970	\$116,166,174	\$6,765,970	\$509,141,079	
Population: Upper Trinity River									
SONCC-UTR.3.1.18	SONCC-UTR.3.1.18.1	\$0						\$0	SWRCB
	SONCC-UTR.3.1.18.2	\$0						\$0	SWRCB
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-UTR.3.1.20	SONCC-UTR.3.1.20.1	\$36,770						\$36,770	SWRCB
	Action Total:	<i>\$36,770</i>						<i>\$36,770</i>	
SONCC-UTR.3.1.65	SONCC-UTR.3.1.65.1	\$175,000						\$175,000	CDFW
	SONCC-UTR.3.1.65.2	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$75,000	CDFW
	Action Total:	<i>\$187,500</i>	<i>\$12,500</i>	<i>\$12,500</i>	<i>\$12,500</i>	<i>\$12,500</i>	<i>\$12,500</i>	<i>\$250,000</i>	
SONCC-UTR.3.1.67	SONCC-UTR.3.1.67.1	\$18,385						\$18,385	SWRCB
	Action Total:	<i>\$18,385</i>						<i>\$18,385</i>	
SONCC-UTR.3.1.36	SONCC-UTR.3.1.36.1	\$175,000						\$175,000	CDFW
	SONCC-UTR.3.1.36.2	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$75,000	CDFW
	Action Total:	<i>\$187,500</i>	<i>\$12,500</i>	<i>\$12,500</i>	<i>\$12,500</i>	<i>\$12,500</i>	<i>\$12,500</i>	<i>\$250,000</i>	
SONCC-UTR.3.1.37	SONCC-UTR.3.1.37.1	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000	City
	Action Total:	<i>\$50,000</i>	<i>\$50,000</i>	<i>\$50,000</i>	<i>\$50,000</i>	<i>\$50,000</i>	<i>\$50,000</i>	<i>\$300,000</i>	
SONCC-UTR.3.1.44	SONCC-UTR.3.1.44.1	\$18,385						\$18,385	SWRCB
	Action Total:	<i>\$18,385</i>						<i>\$18,385</i>	
SONCC-UTR.3.1.21	SONCC-UTR.3.1.21.1	\$34,015						\$34,015	SWRCB

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-UTR.3.1.21.2	\$34,015						\$34,015	SWRCB
	Action Total:	\$68,030						\$68,030	
SONCC-UTR.17.2.1									
	SONCC-UTR.17.2.1.1	\$68,030						\$68,030	CDFW
	SONCC-UTR.17.2.1.2	\$107,157	\$5,112	\$5,112	\$5,112	\$5,112	\$5,112	\$132,717	CDFW
	SONCC-UTR.17.2.1.3	\$40,900	\$40,900	\$40,900	\$40,900	\$40,900	\$40,900	\$245,400	CDFW
	SONCC-UTR.17.2.1.4	\$17,077						\$17,077	CDFW
	SONCC-UTR.17.2.1.5	\$34,015						\$34,015	CDFW
	SONCC-UTR.17.2.1.6	\$340,333	\$340,333	\$340,333	\$340,333	\$340,333	\$340,333	\$2,041,998	CDFW
	Action Total:	\$607,512	\$386,345	\$386,345	\$386,345	\$386,345	\$386,345	\$2,539,237	
SONCC-UTR.5.1.35									
	SONCC-UTR.5.1.35.1	\$44,540						\$44,540	BOR
	SONCC-UTR.5.1.35.2	\$1,227,227	\$204,500	\$204,500	\$204,500	\$204,500	\$204,500	\$2,249,727	BOR
	Action Total:	\$1,271,767	\$204,500	\$204,500	\$204,500	\$204,500	\$204,500	\$2,294,267	
SONCC-UTR.1.2.41									
	SONCC-UTR.1.2.41.1	\$0						\$0	BIA/Tribe
	Action Total:	\$0						\$0	
SONCC-UTR.3.1.59									
	SONCC-UTR.3.1.59.1	\$36,077						\$36,077	CDFW
	SONCC-UTR.3.1.59.2	\$36,077						\$36,077	CDFW
	SONCC-UTR.3.1.59.3	\$36,077						\$36,077	CDFW
	Action Total:	\$108,231						\$108,231	
SONCC-UTR.2.1.62									
	SONCC-UTR.2.1.62.1	\$17,008						\$17,008	CDFW
	SONCC-UTR.2.1.62.2	\$4,382,800						\$4,382,800	CDFW
	Action Total:	\$4,399,808						\$4,399,808	
SONCC-UTR.2.1.9									
	SONCC-UTR.2.1.9.1	\$17,008						\$17,008	CDFW
	SONCC-UTR.2.1.9.2	\$4,382,800						\$4,382,800	CDFW
	Action Total:	\$4,399,808						\$4,399,808	
SONCC-UTR.26.1.58									
	SONCC-UTR.26.1.58.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	CDFW
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-UTR.2.2.63									
	SONCC-UTR.2.2.63.1	\$17,008						\$17,008	CDFW
	SONCC-UTR.2.2.63.2	\$818,064						\$818,064	CDFW
	Action Total:	\$835,072						\$835,072	
SONCC-UTR.2.2.7									
	SONCC-UTR.2.2.7.1	\$17,008						\$17,008	CDFW
	SONCC-UTR.2.2.7.2	\$818,064						\$818,064	CDFW
	Action Total:	\$835,072						\$835,072	
SONCC-UTR.14.2.22									
	SONCC-UTR.14.2.22.1	\$34,015						\$34,015	CDFW
	SONCC-UTR.14.2.22.2	\$5,112	\$5,112	\$5,112	\$5,112	\$5,112	\$5,112	\$30,672	CDFW
	Action Total:	\$39,127	\$5,112	\$5,112	\$5,112	\$5,112	\$5,112	\$64,687	
SONCC-UTR.10.1.60									
	SONCC-UTR.10.1.60.1	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$110,310	USFS

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-UTR.10.1.60.2	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$110,310	USFS
	Action Total:	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$220,620</i>	
SONCC-UTR.10.1.14									
	SONCC-UTR.10.1.14.1	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$110,310	USFS
	SONCC-UTR.10.1.14.2	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$18,385	\$110,310	USFS
	Action Total:	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$36,770</i>	<i>\$220,620</i>	
SONCC-UTR.3.1.66									
	SONCC-UTR.3.1.66.1	\$17,008						\$17,008	CDFW
	SONCC-UTR.3.1.66.2	\$42,519	\$42,519	\$42,519	\$42,519	\$42,519	\$42,519	\$255,111	CDFW
	Action Total:	<i>\$59,526</i>	<i>\$42,519</i>	<i>\$42,519</i>	<i>\$42,519</i>	<i>\$42,519</i>	<i>\$42,519</i>	<i>\$272,119</i>	
SONCC-UTR.3.1.38									
	SONCC-UTR.3.1.38.1	\$17,008						\$17,008	CDFW
	SONCC-UTR.3.1.38.2	\$42,519	\$42,519	\$42,519	\$42,519	\$42,519	\$42,519	\$255,111	CDFW
	Action Total:	<i>\$59,526</i>	<i>\$42,519</i>	<i>\$42,519</i>	<i>\$42,519</i>	<i>\$42,519</i>	<i>\$42,519</i>	<i>\$272,119</i>	
SONCC-UTR.3.1.45									
	SONCC-UTR.3.1.45.1	\$73,540						\$73,540	CDFW
	SONCC-UTR.3.1.45.2	\$36,770						\$36,770	CDFW
	SONCC-UTR.3.1.45.3	\$73,540						\$73,540	CDFW
	Action Total:	<i>\$183,850</i>						<i>\$183,850</i>	
SONCC-UTR.3.1.16									
	SONCC-UTR.3.1.16.1	\$34,015						\$34,015	NMFS
	SONCC-UTR.3.1.16.3	\$18,385						\$18,385	BOR
	Action Total:	<i>\$52,400</i>						<i>\$52,400</i>	
SONCC-UTR.3.1.17									
	SONCC-UTR.3.1.17.1	\$76,136						\$76,136	NGO
	Action Total:	<i>\$76,136</i>						<i>\$76,136</i>	
SONCC-UTR.5.1.68									
	SONCC-UTR.5.1.68.1	\$22,270						\$22,270	CDFW
	SONCC-UTR.5.1.68.2	\$261,627						\$261,627	CDFW
	Action Total:	<i>\$283,897</i>						<i>\$283,897</i>	
SONCC-UTR.5.1.69									
	SONCC-UTR.5.1.69.1	\$22,270						\$22,270	CDFW
	SONCC-UTR.5.1.69.2	\$72,675						\$72,675	CDFW
	Action Total:	<i>\$94,945</i>						<i>\$94,945</i>	
SONCC-UTR.5.1.10									
	SONCC-UTR.5.1.10.1	\$22,270						\$22,270	CDFW
	SONCC-UTR.5.1.10.2	\$261,627						\$261,627	CDFW
	Action Total:	<i>\$283,897</i>						<i>\$283,897</i>	
SONCC-UTR.5.1.11									
	SONCC-UTR.5.1.11.1	\$22,270						\$22,270	CDFW
	SONCC-UTR.5.1.11.2	\$72,675						\$72,675	CDFW
	Action Total:	<i>\$94,945</i>						<i>\$94,945</i>	
SONCC-UTR.2.2.64									
	SONCC-UTR.2.2.64.1	\$27,008						\$27,008	CDFW
	SONCC-UTR.2.2.64.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$112,045</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$537,233</i>	
SONCC-UTR.2.2.8									
	SONCC-UTR.2.2.8.1	\$13,504						\$13,504	CDFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-UTR.2.2.8.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	<i>\$98,541</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$85,038</i>	<i>\$523,729</i>	
SONCC-UTR.10.1.13									
	SONCC-UTR.10.1.13.1	\$36,770						\$36,770	BOR
	SONCC-UTR.10.1.13.2	\$45,962	\$45,962	\$45,962	\$45,962	\$45,962	\$45,962	\$275,772	BOR
	Action Total:	<i>\$82,732</i>	<i>\$45,962</i>	<i>\$45,962</i>	<i>\$45,962</i>	<i>\$45,962</i>	<i>\$45,962</i>	<i>\$312,542</i>	
SONCC-UTR.10.7.61									
	SONCC-UTR.10.7.61.1	\$8,504						\$8,504	CDFW
	SONCC-UTR.10.7.61.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-UTR.10.7.57									
	SONCC-UTR.10.7.57.1	\$8,504						\$8,504	CDFW
	SONCC-UTR.10.7.57.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	<i>\$59,629</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$51,125</i>	<i>\$315,254</i>	
SONCC-UTR.16.1.23									
	SONCC-UTR.16.1.23.1	\$34,015						\$34,015	NMFS
	SONCC-UTR.16.1.23.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-UTR.16.1.24									
	SONCC-UTR.16.1.24.1	\$34,015						\$34,015	NMFS
	SONCC-UTR.16.1.24.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-UTR.16.1.55									
	SONCC-UTR.16.1.55.1	\$34,015						\$34,015	NMFS
	SONCC-UTR.16.1.55.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-UTR.16.1.56									
	SONCC-UTR.16.1.56.1	\$34,015						\$34,015	BIA/Tribe
	SONCC-UTR.16.1.56.2	\$34,015						\$34,015	BIA/Tribe
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-UTR.16.2.25									
	SONCC-UTR.16.2.25.1	\$34,015						\$34,015	NMFS
	SONCC-UTR.16.2.25.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-UTR.16.2.26									
	SONCC-UTR.16.2.26.1	\$34,015						\$34,015	NMFS
	SONCC-UTR.16.2.26.2	\$34,015						\$34,015	NMFS
	Action Total:	<i>\$68,030</i>						<i>\$68,030</i>	
SONCC-UTR.2.2.43									
	SONCC-UTR.2.2.43.1	\$0						\$0	CDFW
	Action Total:	<i>\$0</i>						<i>\$0</i>	
SONCC-UTR.27.2.46									
	SONCC-UTR.27.2.46.1	\$34,015		\$34,015		\$34,015		\$102,045	CDFW
	Action Total:	<i>\$34,015</i>		<i>\$34,015</i>		<i>\$34,015</i>		<i>\$102,045</i>	
SONCC-UTR.27.2.32									
	SONCC-UTR.27.2.32.1	\$136,060						\$136,060	CDFW
	SONCC-UTR.27.2.32.2		\$81,800		\$81,800		\$81,800	\$245,400	CDFW
	Action Total:	<i>\$136,060</i>	<i>\$81,800</i>		<i>\$81,800</i>		<i>\$81,800</i>	<i>\$381,460</i>	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-UTR.27.2.33	SONCC-UTR.27.2.33.1	\$137,947		\$137,947		\$137,947		\$413,841	CDFW
	Action Total:	\$137,947		\$137,947		\$137,947		\$413,841	
SONCC-UTR.27.2.34	SONCC-UTR.27.2.34.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	CDFW
	SONCC-UTR.27.2.34.2	\$34,015						\$34,015	CDFW
	Action Total:	\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-UTR.27.2.54	SONCC-UTR.27.2.54.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-UTR.27.1.40	SONCC-UTR.27.1.40.1	\$32,165	\$32,165	\$32,165	\$32,165	\$32,165	\$32,165	\$192,990	CDFW
	Action Total:	\$32,165	\$32,165	\$32,165	\$32,165	\$32,165	\$32,165	\$192,990	
SONCC-UTR.27.1.42	SONCC-UTR.27.1.42.1	\$34,015						\$34,015	NMFS
	SONCC-UTR.27.1.42.2	\$0						\$0	NMFS
	Action Total:	\$34,015						\$34,015	
SONCC-UTR.27.1.48	SONCC-UTR.27.1.48.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-UTR.27.1.27	SONCC-UTR.27.1.27.1	\$96,496	\$96,496	\$96,496	\$96,496	\$96,496	\$96,496	\$578,976	CDFW
	Action Total:	\$96,496	\$96,496	\$96,496	\$96,496	\$96,496	\$96,496	\$578,976	
SONCC-UTR.27.1.28	SONCC-UTR.27.1.28.1	\$68,030		\$68,030		\$68,030		\$204,090	CDFW
	Action Total:	\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-UTR.27.1.29	SONCC-UTR.27.1.29.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-UTR.27.1.30	SONCC-UTR.27.1.30.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-UTR.27.1.31	SONCC-UTR.27.1.31.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-UTR.27.1.53	SONCC-UTR.27.1.53.1	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	CDFW
	Action Total:	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$6,120,000	
SONCC-UTR.27.4.49	SONCC-UTR.27.4.49.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-UTR.27.4.50	SONCC-UTR.27.4.50.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-UTR.27.4.51	SONCC-UTR.27.4.51.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	
SONCC-UTR.27.4.52	SONCC-UTR.27.4.52.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
Population Total:		\$17,400,504	\$3,013,525	\$3,171,717	\$3,013,525	\$3,171,716	\$3,013,525	\$32,784,510	
Population: Wilson Creek									
SONCC-WiIC.2.1.26									
	SONCC-WiIC.2.1.26.1	\$17,008						\$17,008	NGO
	SONCC-WiIC.2.1.26.2	\$436,910						\$436,910	NGO
	Action Total:	\$453,918						\$453,918	
SONCC-WiIC.2.1.1									
	SONCC-WiIC.2.1.1.1	\$17,008						\$17,008	NGO
	SONCC-WiIC.2.1.1.2	\$436,910						\$436,910	NGO
	Action Total:	\$453,918						\$453,918	
SONCC-WiIC.2.2.27									
	SONCC-WiIC.2.2.27.1	\$17,008						\$17,008	CDFW
	SONCC-WiIC.2.2.27.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-WiIC.2.2.27.3	\$10,000						\$10,000	CDFW
	Action Total:	\$112,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$537,233	
SONCC-WiIC.2.2.28									
	SONCC-WiIC.2.2.28.1	\$17,008						\$17,008	NGO
	SONCC-WiIC.2.2.28.2	\$81,551						\$81,551	NGO
	Action Total:	\$98,558						\$98,558	
SONCC-WiIC.2.2.10									
	SONCC-WiIC.2.2.10.1	\$17,008						\$17,008	CDFW
	SONCC-WiIC.2.2.10.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	CDFW
	SONCC-WiIC.2.2.10.3	\$10,000						\$10,000	CDFW
	Action Total:	\$112,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$537,233	
SONCC-WiIC.2.2.11									
	SONCC-WiIC.2.2.11.1	\$17,008						\$17,008	NGO
	SONCC-WiIC.2.2.11.2	\$81,551						\$81,551	NGO
	Action Total:	\$98,558						\$98,558	
SONCC-WiIC.5.1.29									
	SONCC-WiIC.5.1.29.1	\$22,270						\$22,270	NGO
	SONCC-WiIC.5.1.29.2	\$319,767						\$319,767	NGO
	Action Total:	\$342,037						\$342,037	
SONCC-WiIC.5.1.4									
	SONCC-WiIC.5.1.4.1	\$44,540						\$44,540	CDFW
	SONCC-WiIC.5.1.4.2	\$639,534						\$639,534	CDFW
	Action Total:	\$684,074						\$684,074	
SONCC-WiIC.5.1.5									
	SONCC-WiIC.5.1.5.1	\$22,270						\$22,270	NGO
	SONCC-WiIC.5.1.5.2	\$319,767						\$319,767	NGO
	Action Total:	\$342,037						\$342,037	
SONCC-WiIC.7.1.2									
	SONCC-WiIC.7.1.2.1	\$34,015						\$34,015	Private
	SONCC-WiIC.7.1.2.2	\$60,724						\$60,724	Private
	SONCC-WiIC.7.1.2.3	\$446,515						\$446,515	Private
	Action Total:	\$541,254						\$541,254	
SONCC-WiIC.2.2.21									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-WiIC.2.2.21.1	\$0						\$0	CDFW
	Action Total:	\$0						\$0	
SONCC-WiIC.8.1.30	SONCC-WiIC.8.1.30.1	\$2,099,057						\$2,099,057	NGO
	Action Total:	\$2,099,057						\$2,099,057	
SONCC-WiIC.8.1.7	SONCC-WiIC.8.1.7.1	\$2,099,057						\$2,099,057	CDFW
	Action Total:	\$2,099,057						\$2,099,057	
SONCC-WiIC.10.7.25	SONCC-WiIC.10.7.25.1	\$8,504						\$8,504	CDFW
	SONCC-WiIC.10.7.25.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-WiIC.10.7.23	SONCC-WiIC.10.7.23.1	\$8,504						\$8,504	CDFW
	SONCC-WiIC.10.7.23.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	CDFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-WiIC.7.1.3	SONCC-WiIC.7.1.3.1	\$0						\$0	Private
	Action Total:	\$0						\$0	
SONCC-WiIC.2.1.24	SONCC-WiIC.2.1.24.1	\$34,015						\$34,015	CDFW
	SONCC-WiIC.2.1.24.2	\$68,030						\$68,030	CDFW
	Action Total:	\$102,045						\$102,045	
SONCC-WiIC.27.2.8	SONCC-WiIC.27.2.8.1	\$136,060						\$136,060	CDFW
	SONCC-WiIC.27.2.8.2			\$81,800			\$81,800	\$163,600	CDFW
	Action Total:	\$136,060		\$81,800			\$81,800	\$299,660	
SONCC-WiIC.27.2.15	SONCC-WiIC.27.2.15.1	\$10,069		\$10,069		\$10,069		\$30,207	CDFW
	Action Total:	\$10,069		\$10,069		\$10,069		\$30,207	
SONCC-WiIC.27.2.16	SONCC-WiIC.27.2.16.1	\$10,069		\$10,069		\$10,069		\$30,207	CDFW
	Action Total:	\$10,069		\$10,069		\$10,069		\$30,207	
SONCC-WiIC.27.2.17	SONCC-WiIC.27.2.17.1	\$10,069		\$10,069		\$10,069		\$30,207	CDFW
	Action Total:	\$10,069		\$10,069		\$10,069		\$30,207	
SONCC-WiIC.27.2.22	SONCC-WiIC.27.2.22.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-WiIC.27.1.20	SONCC-WiIC.27.1.20.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
	Action Total:	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-WiIC.27.1.9	SONCC-WiIC.27.1.9.1	\$34,015						\$34,015	CSP
	SONCC-WiIC.27.1.9.2	\$34,015						\$34,015	CSP
	Action Total:	\$68,030						\$68,030	
SONCC-WiIC.27.1.12	SONCC-WiIC.27.1.12.1	\$8,690	\$8,690	\$8,690	\$8,690	\$8,690	\$8,690	\$52,140	CDFW
	Action Total:	\$8,690	\$8,690	\$8,690	\$8,690	\$8,690	\$8,690	\$52,140	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-WiIC.27.1.13	SONCC-WiIC.27.1.13.1	\$34,015						\$34,015	NMFS
	SONCC-WiIC.27.1.13.2	\$0						\$0	NMFS
	Action Total:	<i>\$34,015</i>						<i>\$34,015</i>	
SONCC-WiIC.27.4.18	SONCC-WiIC.27.4.18.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-WiIC.27.4.19	SONCC-WiIC.27.4.19.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-WiIC.8.1.6	SONCC-WiIC.8.1.6.1							\$0	Private
	SONCC-WiIC.8.1.6.2							\$0	Private
	Action Total:							<i>\$0</i>	
Population Total:		\$8,138,951	\$485,105	\$597,112	\$485,105	\$515,312	\$566,905	\$10,788,489	
Population: Winchuck River									
SONCC-WinR.10.6.46	SONCC-WinR.10.6.46.1	\$0						\$0	ODA
	SONCC-WinR.10.6.46.2	\$0						\$0	ODA
	SONCC-WinR.10.6.46.3	\$0						\$0	ODA
	SONCC-WinR.10.6.46.4	\$0						\$0	ODA
	SONCC-WinR.10.6.46.5	\$0						\$0	ODA
	SONCC-WinR.10.6.46.6	\$0						\$0	ODA
	Action Total:	<i>\$0</i>							<i>\$0</i>
SONCC-WinR.19.1.47	SONCC-WinR.19.1.47.1	\$68,030						\$68,030	ODF
	SONCC-WinR.19.1.47.2	\$0						\$0	ODF
	SONCC-WinR.19.1.47.3	\$0						\$0	ODF
	SONCC-WinR.19.1.47.4	\$0						\$0	ODF
	SONCC-WinR.19.1.47.5	\$0						\$0	ODF
	Action Total:	<i>\$68,030</i>							<i>\$68,030</i>
SONCC-WinR.2.1.63	SONCC-WinR.2.1.63.1	\$17,008						\$17,008	USFS
	SONCC-WinR.2.1.63.2	\$372,538						\$372,538	USFS
	Action Total:	<i>\$389,546</i>						<i>\$389,546</i>	
SONCC-WinR.2.1.7	SONCC-WinR.2.1.7.1	\$17,008						\$17,008	USFS
	SONCC-WinR.2.1.7.2	\$372,538						\$372,538	USFS
	Action Total:	<i>\$389,546</i>						<i>\$389,546</i>	
SONCC-WinR.2.2.64	SONCC-WinR.2.2.64.1	\$17,008						\$17,008	USFS
	SONCC-WinR.2.2.64.2	\$69,535						\$69,535	USFS
	Action Total:	<i>\$86,543</i>						<i>\$86,543</i>	
SONCC-WinR.2.2.65	SONCC-WinR.2.2.65.1	\$17,008						\$17,008	ODFW
	SONCC-WinR.2.2.65.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-WinR.2.2.65.3	\$10,000						\$10,000	ODFW
	Action Total:	\$112,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$537,233	
SONCC-WinR.2.2.5									
	SONCC-WinR.2.2.5.1	\$17,008						\$17,008	USFS
	SONCC-WinR.2.2.5.2	\$69,535						\$69,535	USFS
	Action Total:	\$86,543						\$86,543	
SONCC-WinR.2.2.6									
	SONCC-WinR.2.2.6.1	\$17,008						\$17,008	ODFW
	SONCC-WinR.2.2.6.2	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
	SONCC-WinR.2.2.6.3	\$10,000						\$10,000	ODFW
	Action Total:	\$112,045	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$537,233	
SONCC-WinR.2.4.42									
	SONCC-WinR.2.4.42.1	\$34,015						\$34,015	ODFW
	SONCC-WinR.2.4.42.2	\$126,600						\$126,600	ODFW
	Action Total:	\$160,615						\$160,615	
SONCC-WinR.10.4.60									
	SONCC-WinR.10.4.60.1	\$0						\$0	OWRD
	Action Total:	\$0						\$0	
SONCC-WinR.10.4.39									
	SONCC-WinR.10.4.39.1	\$0						\$0	OWRD
	Action Total:	\$0						\$0	
SONCC-WinR.2.5.43									
	SONCC-WinR.2.5.43.1	\$44,540						\$44,540	ODFW
	SONCC-WinR.2.5.43.2	\$45,633						\$45,633	ODFW
	Action Total:	\$90,173						\$90,173	
SONCC-WinR.2.7.66									
	SONCC-WinR.2.7.66.1	\$17,008						\$17,008	FSA
	SONCC-WinR.2.7.66.2	\$85,038						\$85,038	FSA
	SONCC-WinR.2.7.66.3	\$85,038						\$85,038	FSA
	Action Total:	\$187,083						\$187,083	
SONCC-WinR.2.7.4									
	SONCC-WinR.2.7.4.1	\$17,008						\$17,008	FSA
	SONCC-WinR.2.7.4.2	\$85,038						\$85,038	FSA
	SONCC-WinR.2.7.4.3	\$85,038						\$85,038	FSA
	Action Total:	\$187,083						\$187,083	
SONCC-WinR.22.3.40									
	SONCC-WinR.22.3.40.1	\$0						\$0	County
	SONCC-WinR.22.3.40.2	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-WinR.10.2.16									
	SONCC-WinR.10.2.16.1	\$0						\$0	EPA
	Action Total:	\$0						\$0	
SONCC-WinR.2.7.3									
	SONCC-WinR.2.7.3.1	\$34,015						\$34,015	USFS
	SONCC-WinR.2.7.3.3	\$376,747						\$376,747	USFS
	Action Total:	\$410,762						\$410,762	
SONCC-WinR.26.1.59									
	SONCC-WinR.26.1.59.1	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	
SONCC-WinR.2.2.55									
	SONCC-WinR.2.2.55.1	\$0						\$0	ODFW
Action Total:		\$0						\$0	
SONCC-WinR.10.2.38									
	SONCC-WinR.10.2.38.1	\$76,136						\$76,136	ODEQ
	SONCC-WinR.10.2.38.2	\$0						\$0	ODEQ
Action Total:		\$76,136						\$76,136	
SONCC-WinR.10.2.41									
	SONCC-WinR.10.2.41.1	\$0						\$0	County
	SONCC-WinR.10.2.41.2	\$0						\$0	County
	SONCC-WinR.10.2.41.3	\$0						\$0	County
Action Total:		\$0						\$0	
SONCC-WinR.10.2.15									
	SONCC-WinR.10.2.15.1	\$76,136						\$76,136	OWRD
Action Total:		\$76,136						\$76,136	
SONCC-WinR.28.3.67									
	SONCC-WinR.28.3.67.1	\$22,270						\$22,270	Watershed Cnsl
	SONCC-WinR.28.3.67.2	\$190,909						\$190,909	Watershed Cnsl
Action Total:		\$213,179						\$213,179	
SONCC-WinR.28.3.12									
	SONCC-WinR.28.3.12.1	\$22,270						\$22,270	Watershed Cnsl
	SONCC-WinR.28.3.12.2	\$190,909						\$190,909	Watershed Cnsl
Action Total:		\$213,179						\$213,179	
SONCC-WinR.1.2.30									
	SONCC-WinR.1.2.30.1	\$34,015						\$34,015	ODFW
	SONCC-WinR.1.2.30.2	\$34,015						\$34,015	ODFW
	SONCC-WinR.1.2.30.3	\$341,075						\$341,075	ODFW
Action Total:		\$409,105						\$409,105	
SONCC-WinR.10.4.61									
	SONCC-WinR.10.4.61.1	\$17,008						\$17,008	OWRD
	SONCC-WinR.10.4.61.2	\$13,068						\$13,068	OWRD
	SONCC-WinR.10.4.61.3	\$8,523	\$8,523	\$8,523	\$8,523	\$8,523	\$8,523	\$51,135	OWRD
	SONCC-WinR.10.4.61.4	\$18,385						\$18,385	OWRD
Action Total:		\$56,983	\$8,523	\$8,523	\$8,523	\$8,523	\$8,523	\$99,596	
SONCC-WinR.10.4.8									
	SONCC-WinR.10.4.8.1	\$17,008						\$17,008	OWRD
	SONCC-WinR.10.4.8.2	\$13,068						\$13,068	OWRD
	SONCC-WinR.10.4.8.3	\$8,523	\$8,523	\$8,523	\$8,523	\$8,523	\$8,523	\$51,135	OWRD
	SONCC-WinR.10.4.8.4	\$18,385						\$18,385	OWRD
Action Total:		\$56,983	\$8,523	\$8,523	\$8,523	\$8,523	\$8,523	\$99,596	
SONCC-WinR.10.4.9									
	SONCC-WinR.10.4.9.1	\$76,136						\$76,136	OWRD
Action Total:		\$76,136						\$76,136	
SONCC-WinR.3.1.58									
	SONCC-WinR.3.1.58.1	\$36,770						\$36,770	OWRD
Action Total:		\$36,770						\$36,770	
SONCC-WinR.2.7.1									

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
	SONCC-WinR.2.7.1.1	\$0						\$0	County
	SONCC-WinR.2.7.1.2	\$0						\$0	County
	Action Total:	\$0						\$0	
SONCC-WinR.28.1.13									
	SONCC-WinR.28.1.13.1	\$150,909						\$150,909	USFS
	SONCC-WinR.28.1.13.2	\$1,276,096						\$1,276,096	USFS
	SONCC-WinR.28.1.13.3	\$225,293						\$225,293	USFS
	SONCC-WinR.28.1.13.4	\$370,295						\$370,295	USFS
	Action Total:	\$2,022,593						\$2,022,593	
SONCC-WinR.10.7.62									
	SONCC-WinR.10.7.62.1	\$8,504						\$8,504	ODFW
	SONCC-WinR.10.7.62.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-WinR.10.7.57									
	SONCC-WinR.10.7.57.1	\$8,504						\$8,504	ODFW
	SONCC-WinR.10.7.57.2	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$306,750	ODFW
	Action Total:	\$59,629	\$51,125	\$51,125	\$51,125	\$51,125	\$51,125	\$315,254	
SONCC-WinR.10.2.37									
	SONCC-WinR.10.2.37.1	\$45,925						\$45,925	ODFW
	SONCC-WinR.10.2.37.2	\$76,136						\$76,136	ODFW
	Action Total:	\$122,061						\$122,061	
SONCC-WinR.16.1.17									
	SONCC-WinR.16.1.17.1	\$34,015						\$34,015	NMFS
	SONCC-WinR.16.1.17.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-WinR.16.1.18									
	SONCC-WinR.16.1.18.1	\$34,015						\$34,015	NMFS
	SONCC-WinR.16.1.18.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-WinR.16.2.19									
	SONCC-WinR.16.2.19.1	\$34,015						\$34,015	NMFS
	SONCC-WinR.16.2.19.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-WinR.16.2.20									
	SONCC-WinR.16.2.20.1	\$34,015						\$34,015	NMFS
	SONCC-WinR.16.2.20.2	\$34,015						\$34,015	NMFS
	Action Total:	\$68,030						\$68,030	
SONCC-WinR.14.3.44									
	SONCC-WinR.14.3.44.1	\$76,047						\$76,047	NRCS/RCD
	Action Total:	\$76,047						\$76,047	
SONCC-WinR.27.2.52									
	SONCC-WinR.27.2.52.1	\$68,030						\$68,030	ODFW
	Action Total:	\$68,030						\$68,030	
SONCC-WinR.27.2.53									
	SONCC-WinR.27.2.53.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	NGO
	Action Total:	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	
SONCC-WinR.27.2.29									
	SONCC-WinR.27.2.29.1	\$34,015		\$34,015		\$34,015		\$102,045	ODFW

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
Action Total:		\$34,015		\$34,015		\$34,015		\$102,045	
SONCC-WinR.27.2.34									
	SONCC-WinR.27.2.34.1	\$65,911	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$264,786	ODFW
	SONCC-WinR.27.2.34.2	\$34,015						\$34,015	ODFW
Action Total:		\$99,926	\$39,775	\$39,775	\$39,775	\$39,775	\$39,775	\$298,801	
SONCC-WinR.27.2.24									
	SONCC-WinR.27.2.24.1	\$136,060						\$136,060	ODFW
	SONCC-WinR.27.2.24.2		\$81,800		\$81,800		\$81,800	\$245,400	ODFW
Action Total:		\$136,060	\$81,800		\$81,800		\$81,800	\$381,460	
SONCC-WinR.27.2.25									
	SONCC-WinR.27.2.25.1	\$106,400		\$106,400		\$106,400		\$319,200	ODFW
Action Total:		\$106,400		\$106,400		\$106,400		\$319,200	
SONCC-WinR.27.2.26									
	SONCC-WinR.27.2.26.1	\$106,400		\$106,400		\$106,400		\$319,200	ODFW
Action Total:		\$106,400		\$106,400		\$106,400		\$319,200	
SONCC-WinR.27.2.27									
	SONCC-WinR.27.2.27.1	\$106,400		\$106,400		\$106,400		\$319,200	ODFW
Action Total:		\$106,400		\$106,400		\$106,400		\$319,200	
SONCC-WinR.27.2.28									
	SONCC-WinR.27.2.28.1	\$106,400		\$106,400		\$106,400		\$319,200	ODFW
Action Total:		\$106,400		\$106,400		\$106,400		\$319,200	
SONCC-WinR.27.2.56									
	SONCC-WinR.27.2.56.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-WinR.27.1.51									
	SONCC-WinR.27.1.51.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	NMFS
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-WinR.27.1.33									
	SONCC-WinR.27.1.33.1	\$68,030		\$68,030		\$68,030		\$204,090	ODFW
Action Total:		\$68,030		\$68,030		\$68,030		\$204,090	
SONCC-WinR.27.1.35									
	SONCC-WinR.27.1.35.1	\$34,015						\$34,015	NMFS
	SONCC-WinR.27.1.35.2	\$0						\$0	NMFS
Action Total:		\$34,015						\$34,015	
SONCC-WinR.27.1.36									
	SONCC-WinR.27.1.36.1	\$68,030						\$68,030	ODFW
Action Total:		\$68,030						\$68,030	
SONCC-WinR.27.1.21									
	SONCC-WinR.27.1.21.1	\$84,747	\$84,747	\$84,747	\$84,747	\$84,747	\$84,747	\$508,482	ODFW
Action Total:		\$84,747	\$84,747	\$84,747	\$84,747	\$84,747	\$84,747	\$508,482	
SONCC-WinR.27.1.22									
	SONCC-WinR.27.1.22.1	\$28,249	\$28,249	\$28,249	\$28,249	\$28,249	\$28,249	\$169,494	ODFW
Action Total:		\$28,249	\$28,249	\$28,249	\$28,249	\$28,249	\$28,249	\$169,494	
SONCC-WinR.27.1.23									
	SONCC-WinR.27.1.23.1	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	ODFW
Action Total:		\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$85,038	\$510,225	
SONCC-WinR.27.4.48									
	SONCC-WinR.27.4.48.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
Action Total:		\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	

Appendix G Cost and Potential Lead for Recovery Actions

ActionID	Step ID	Cost 5yrs	Cost 10yrs	Cost 15yrs	Cost 20yrs	Cost 25yrs	Cost >25yrs	Total Cost	Potent. Lead
SONCC-WinR.27.4.49	SONCC-WinR.27.4.49.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-WinR.27.4.50	SONCC-WinR.27.4.50.1	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$17,008	\$102,045	NMFS
	Action Total:	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$17,008</i>	<i>\$102,045</i>	
SONCC-WinR.27.4.54	SONCC-WinR.27.4.54.1	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$102,250	\$613,500	ODFW
	Action Total:	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$102,250</i>	<i>\$613,500</i>	
	Population Total:	\$7,715,159	\$1,085,701	\$1,531,546	\$1,085,701	\$1,531,546	\$1,085,701	\$14,035,354	
	ESU Total:	\$3,525,089,272	\$82,051,639	\$510,905,992	\$77,709,714	\$506,828,130	\$257,160,106	\$4,959,744,852	

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Appendix H. Glossary and List of Abbreviations and Acronyms

H.1 Glossary

abundance: The number of individuals in a population or subpopulation.

adaptive management: In salmon recovery planning, a method of decision making in the face of uncertainty. A plan for monitoring, evaluation, and feedback is incorporated into an overall implementation plan so that the results of action can become feedback on design and implementation of future actions.

alevins: Larval life stage which lives in a redd and is dependent on food stored in a yolk sac.

anadromous: Species (e.g., salmon) that migrate as juveniles from freshwater to saltwater and then return as adults to spawn in freshwater.

anthropogenic: Of, relating to, or resulting from the influence of human beings on nature (Webster 2001).

artificial propagation: Any assistance provided by man in the reproduction of salmon. This assistance includes, but is not limited to, spawning and rearing in hatcheries, stock transfers, creation of spawning habitat, egg bank programs, captive breeding broodstock programs, and cryopreservation (Hard et al. 1992).

basin: Area of land where surface water converges to a single point, usually the exit of the basin, where the waters join another water body. Examples of basins are the Eel River basin, Rogue River basin, and Klamath-Trinity River basin. The basin is the largest classification unit in a hierarchical drainage system adopted by NMFS for the SONCC coho salmon ESU recovery plan. This hierarchical drainage system is made up of basins (largest scale), sub-basins (intermediate scale), and watersheds (smallest scale). See also *sub-basin* and *watershed*.

biological review team (BRT): The team of scientists from the National Marine Fisheries Service formed to conduct a status review.

broad-sense recovery: Goal of having populations of naturally produced salmon sufficiently abundant, productive, and diverse (in terms of life history and geographic distribution) that the ESU/DPS as a whole (a) will be self-sustaining, and (b) will provide significant ecological, cultural, and economic benefits (ODFW and NMFS 2011). This goal is consistent with ESA delisting, but is designed to achieve a level of performance for the ESUs and constituent population that is far more robust than that needed to remove the ESU from ESA protection (ODFW and NMFS 2011).

captive broodstock program: A form of artificial propagation involving the collection of individuals or gametes from a natural population and rearing of these individuals to maturity in captivity (Hard et al. 1992).

carrying capacity: The maximum population of a species that an area or specific ecosystem can support indefinitely without deterioration of the character and quality of the resource (NOAA 2006).

coefficient of variation (cv): the ratio of the standard deviation to the mean, which shows the extent of variability in relation to the mean.

confluence: A flowing together of two or more streams.

critical habitat: The specific areas within the geographical area occupied by the listed species at the time it is listed in accordance with the provisions of section 4 the ESA, on which are found those physical or biological features that are essential to the conservation of the species and which may require special management considerations or protection; and specific areas outside the geographical area occupied by the species at the time it is listed in accordance with the provisions of section 4 of the ESA, upon a determination by the Secretary that such areas are essential for the conservation of the species (ESA of 1973, as amended, 16 U.S.C. §1531 et seq.).

delist: When an ESA-listed species is removed from the list of species protected under the ESA.

delisting criteria: Criteria used to determine whether an ESA-listed species no longer needs the protections of the ESA and may be delisted.

dependent population: Populations that rely upon immigration from surrounding populations to persist. Without these inputs, Dependent Populations would have a lower likelihood of persisting over 100 years (Williams et al. 2006).

demographic: the statistics of a given population, such as abundance or growth rate.

depensation: The effect where a decrease in spawning stock leads to reduced survival or production of eggs through either (1) increased predation per egg given constant predator pressure, or (2) the "Allee effect" (the positive relationship between population density and the reproduction and survival of individuals) with reduced likelihood of finding a mate (Liermann and Hilborn 2001).

diversity: All the genetic and phenotypic (life history, behavioral, and morphological) variation within a population (NOAA 2006). Diversity includes diversity of (potential) selective environments, diversity of phenotypes, including life history types, and diversity of genetic variation, both neutral and selected (Williams et al. 2006).

diversity stratum: Groups of populations that span the diversity and distribution that currently exists or historically existed within the ESU (Williams et al. 2006). Diversity, broadly defined, was the basis for delineating these groups (Williams et al. 2006).

domestication selection: Natural selection operating on a population during artificial propagation that encourages adaptation to the hatchery environment at the expense of adaptation to the natural environment (Hard et al. 1992).

El Niño: A warming of the ocean surface off the western coast of South America that occurs every 4 to 12 years when upwelling of cold, nutrient-rich water does not occur. It causes die-offs of plankton and fish and affects Pacific jet stream winds, altering storm tracks and creating unusual weather patterns in various parts of the world (NOAA 2006).

ephemeral population: Populations which have a substantial likelihood of going extinct within a 100-year time period in isolation, and do not receive sufficient immigration to affect this likelihood. Habitats that support such populations are expected to be occupied only for relatively short periods of time, and rarely at high densities (Williams et al. 2006).

estuary: A coastal ecological ecosystem that is partially enclosed, receives freshwater input from land, and has a horizontal fresh-salt salinity gradient; the average salinity of estuarine waters is defined as being 30 practical salinity units (PSU) for at least 1 month per year (NOAA 2006).

extant: Not destroyed or lost (Webster 2001).

extinction: In evolutionary biology, the failure of groups of organisms of varying size and inclusiveness (e.g., local geographic or temporally-defined groups to species) to have surviving descendants.

extinction risk: The probability that a given population will become extinct within 100 years. Low probability of extinction is defined for this purpose as 5 percent over 100 years (Williams et al. 2006).

extirpation: Population-level extinction.

fry: A life stage of coho salmon defined by emergence from gravel in redds; the smallest fry are typically 30 to 45 mm, and at 50 to 60 mm they transition to the “juvenile” life stage. Both fry and juveniles are called “young of the year”.

functionally independent population: Populations with a high likelihood of persisting in isolation over a 100-year time scale, which are not substantially altered by exchanges of individuals with other populations (Williams et al. 2006).

hatchery: Salmon hatcheries typically spawn adults in captivity and raise the resulting progeny in fresh water for release into the natural environment. In some cases, fertilized eggs are out-planted (usually in “hatch-boxes”), but it is more common to release fry (young juveniles) or smolts (juveniles that are physiologically prepared to undergo the migration into salt water). The fish are released either at the hatchery (on-station release) or away from the hatchery (off-station release). Releases may also be classified as within basin (occurring within the river basin in which the hatchery is located or the stock originated from) or out-of-basin (occurring in a river basin other than that in which the hatchery is located or the stock originated from). The

broodstock of some hatcheries is based on adults that return to the hatchery each year; others rely on fish or eggs from other hatcheries, or capture adults in the wild each year (Hard et al. 1992).

hatchery fish: Fish that have spent some portion of their lives, usually their early lives, in a hatchery.

hatchery-origin fish: See *hatchery fish*.

independent population: Any collection of one or more local breeding units whose population dynamics or extinction risk over a 100-year time period is not substantially altered by exchanges of individuals with other populations (Williams et al. 2008). Also see “potentially independent population” and “functionally independent population”.

Intrinsic Potential: The potential of the landscape to support a population. The Intrinsic Potential of a watershed or stream reach, is used to evaluate the likelihood of the area to support fish, and is used when population characteristics are unknown (Williams et al. 2006).

jacks: Male salmon that return from the ocean to spawn one or more years before full-sized adults return. For coho salmon in California, Oregon, Washington, and southern British Columbia, jacks are 2 years old, having spent only 6 months in the ocean, in contrast to adults, which are 3 years old after spending 1½ years in the ocean (NOAA 2006).

juvenile: Life stage after the fry stage, beginning at about 50 to 60 mm. Juveniles typically rear in fresh water for up to 15 months, then migrate to the ocean as “smolts” in the spring.

key limiting stresses: Those stresses which have the greatest impact on current population viability.

key limiting threats: Those threats which have the greatest impact on current population viability.

large woody debris: Any large piece of woody material that intrudes into a stream channel, whose smallest diameter is greater than 10cm, and whose length is greater than 1 m.

limiting factor: An environmental factor that limits the growth or activities of an organism or that restricts the size of a population or its geographical range.

listed species: Any species of fish, wildlife or plant which has been determined to be endangered or threatened under the ESA.

natural fish: See *wild fish*.

natural-origin fish: See *wild fish*.

osmoregulation: The active regulation of an organism’s fluids to keep them from becoming too diluted or too concentrated.

pelagic: Of or pertaining to the open ocean.

phenotype: The observable physical or biochemical characteristics of an organism, as determined by both genetic makeup and environmental influences.

pinniped: Carnivorous aquatic mammals that include the seals, walrus, and similar animals having finlike flippers as organs of locomotion.

population: A group of individuals of the same species that live in the same place at the same time and exhibit some level of reproductive isolation from other such groups. In some contexts, a randomly mating group of individuals that is reproductively isolated from other groups is considered a population. A population may consist of a single isolated run or more than one connected run. Synonymous with *stock* (McElhany et al. 2000).

population size: The number of adults in a population.

potentially independent population: Populations with a high likelihood of persisting in isolation over a 100-year time scale, but which are too strongly influenced by immigration from other populations to exhibit independent dynamics (Williams et al. 2006).

power analysis: A statistical procedure to determine the probability of detecting a trend when a trend in fact exists.

productivity: The population growth rate, measured as the spawner-to-spawner ratio (returns per spawner or recruits per spawner).

recovery: The reestablishment or rehabilitation of a threatened or endangered species to a self-sustaining level in its natural ecosystem (NOAA 2006).

recovery domain: The geographic area for which a Technical Recovery Team is responsible.

recovery plan: Under the ESA, a document identifying actions needed to improve the status of a species or ESU to the point that it no longer requires protection (*Hard et al. 1992*) (see ESA Section 4(f), 16 U.S.C. §1533(f), for applicable requirements).

recovery supplementation: Short-term artificial propagation designed to reduce the risk of extinction of a small or chaotically fluctuating recovering population in its natural habitat by temporarily increasing population size using recovery hatchery fish, while maintaining available genetic diversity and avoiding genetic change in the natural and hatchery populations.

redd: Gravel nest excavated by spawning female coho salmon.

refugia: An area where special environment circumstances occur, enabling individuals to survive in specific life stages.

residualization: The process by which anadromous juvenile salmonids fail to emigrate seawards within the primary migration period.

riparian area: An area with distinctive soils and vegetation between a stream or other body of water and the adjacent upland. It includes wetlands and those portions of floodplains and valley bottoms that support riparian vegetation (Belsky et al. 1999).

riparian vegetation: Vegetation growing on or near the banks of a stream or other body of water in soils that exhibit some wetness characteristics during some portion of the growing season (Welsch 1991).

self-sustaining population: A population that perpetuates itself without human intervention, without chronic decline, and in its natural ecosystem, at sufficient levels that the protections of the ESA are no longer required.

smoltification: The process whereby a salmonid fry transforms into the smolt life stage.

spatial structure: The spatial distribution of individuals in a population.

spawner surveys: Spawner surveys utilize counts of live fish, redds (nests dug by females in which they deposit their eggs) and fish carcasses to estimate spawner abundance and identify habitat being used by spawning fish. Annual surveys can be used to compare the relative magnitude of spawning activity between years.

species: Generally, a fundamental category of taxonomic classification, ranking below a genus or subgenus and consisting of related organisms capable of interbreeding. Under the ESA, it includes any subspecies of fish or wildlife or plants, and any distinct population segment of any species of vertebrate fish or wildlife which interbreeds when mature (ESA of 1973, as amended, 16 U.S.C. §1531 et seq.)

stochastic: The term is used to describe natural events or processes that are random. Examples include environmental conditions such as rainfall, runoff, and storms, or life-cycle events, such as survival or fecundity rates.

stock: See *population*.

stress: The physical, biological, or chemical conditions and associated ecological processes that may impede SONCC coho salmon ESU recovery. Stresses are caused by threats.

sub-basin: Area of land draining into a stream or river within a large basin. Examples of sub-basins are the Middle Klamath River, the Upper Mainstem Eel River, the Lower Rogue River, and the South Fork Trinity River. The sub-basin is the intermediate classification in a hierarchical drainage system adopted by NMFS for the SONCC coho salmon ESU recovery plan. This hierarchical drainage system is made up of basins (largest scale), sub-basins (intermediate scale), and watersheds (smallest scale). See also *basin* and *watershed*.

take: To harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct to a Federally listed species (ESA of 1973, as amended, 16 U.S.C. §1531 et seq.).

technical recovery team (TRT): The team of scientists from NMFS and other entities formed to develop biological viability criteria for listed Evolutionarily Significant Units (ESUs) that will be considered in setting recovery goals (Williams et al. 2006).

threat: Activities or impacts that cause or contribute to the stresses that limit recovery of the SONCC coho salmon ESU.

threatened species: Any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range (ESA, as amended, 16 U.S.C. §1531 et seq.).

viability: The likelihood that a population will sustain itself over a 100-year time frame (McElhany et al. 2000).

viable salmonid population: An independent population of any Pacific salmonid (genus *Oncorhynchus*) that has a negligible risk of extinction due to threats for demographic variation (random or directional), local environmental variation, and genetic diversity changes (random or directional) over a 100-year time frame (McElhany et al. 2000).

watershed: Area of land draining into a stream or river within a basin or sub-basin. The watershed is the smallest classification in a hierarchical drainage system adopted by NMFS for the SONCC coho salmon ESU recovery plan. This hierarchical drainage system is made up of basins (largest scale), sub-basins (intermediate scale), and watersheds (smallest scale). See also *basin* and *sub-basin*.

wild fish: Fish that are offspring of parents that spawned in the wild. Wild fish spend their entire lives in the natural environment.

young-of-the-year: Term used to collectively refer to fry and juvenile life stages.

H.2 Abbreviations and Acronyms

The following are is a list of selected acronyms and abbreviations used throughout the plan.

ACOE	-U.S. Army Corps of Engineers
ACS	-Aquatic Conservation Strategy
ARWC	-Applegate River Watershed Council
BCWC	-Bear Creek Watershed Council
BLM	-Bureau of Land Management
BMPs	-Best Management Practice
BOF	-California Board of Forestry
BRT	-Biological review teams
CAP	-Conservation Action Planning
CalFire	-California Department of Forestry and Fire Protection
CDFG	-California Department of Fish and Game (now California Department of Fish and Wildlife)
CDFW	-California Department of Fish and Wildlife (formerly California Department of Fish and Game)
CDWR	-California Department of Water Resources
CEQA	-California Environmental Quality Act
CFR	-Code of Federal Regulations
cfs	-Cubic feet per second
CPS	-Coastal Pelagic Species
CWA	-Federal Clean Water Act
dbh	-Diameter at breast height
DIDSON	-Dual-frequency IDentification SONar
DPS	-Distinct Population Segment
EPT	-Ephemeroptera Plecoptera Trichoptera
ESA	-Federal Endangered Species Act
ESU	-Evolutionarily Significant Unit
FEMAT	-Forest Ecosystem Management Assessment Team
FERC	-Federal Energy Regulatory Commission
FR	-Federal Register
ft	-Feet
GDRC	-Green Diamond Resource Company
GIS	-Geographic Information System
HBHRC	-Humboldt Bay Harbor, Recreation, and Conservation District
HBMWD	-Humboldt Bay Municipal Water District
HBWAC	-Humboldt Bay Watershed Advisory Council
HCP	-Habitat Conservation Plan
HCRC	-Humboldt County Resource Conservation District
HGMP	-Hatchery and Genetic Management Plan
HRC	-Humboldt Redwood Company
HSRG	-Hatchery Scientific Review Group
HSA	-Hydrologic Subarea
HVT	-Hoopa Valley Tribe

IBI	-Index of Biological Integrity
IMST	-Independent Multidisciplinary Science Team
IP	-Intrinsic Potential
KNF	-Klamath National Forest
KRIS	-Klamath River Information System
LCM	-Life Cycle Monitoring
LRMP	-Land and Resource Management Plan
LWD	-Large Woody Debris
MKWC	-Middle Klamath Watershed Council
MRC	-Mendocino Redwood Company OR Mattole Restoration Council
MRSD	-Minimum required spawner density
MSA	-Magnuson-Stevens Fishery Conservation and Management Act
MWAT	-Mean Weekly Average Temperature
MWMT	-Mean Weekly Mean Temperature
NA or N/A	-Not Applicable
NCCP	-Natural Community Conservation Plan
NCRWQCB	-North Coast Regional Quality Control Board
NCWAP	-North Coast Watershed Assessment Program
NMFS	-National Marine Fisheries Service
NOAA	-National Oceanic and Atmospheric Administration
NPDES	-National Pollutant Discharge Elimination System
NRC	-National Research Council
NRCS	-Natural Resources Conservation Service
NTU	-Nephelometric Turbidity Unit
NWFP	-Northwest Forest Plan
ODEQ	-Oregon Department of Environmental Quality
ODFW	-Oregon Department of Fish and Wildlife
ODOT	-Oregon Department of Transportation
OFPA	-Oregon Forest Practices Act
OWEB	-Oregon Watershed Enhancement Board
OWRD	-Oregon Water Rights Division
PALCO	-Pacific Lumber Company
PDO	-Pacific Decadal Oscillation
PFMC	-Pacific Fishery Management Council
PIT	-Passive Integrated Transponder
PWA	-Pacific Watershed Associates
RCD	-Resource Conservation District
RM	-River Mile
RNSP	-Redwood National and State Parks
RWQCB	-Regional Water Quality Control Board
SCWC	-South Coast Watershed Council
SOD	-Sudden oak death
SONCC	-Southern Oregon/Northern California Coast Coho
Sq mi	-Square mile
SRRC	-Salmon River Restoration Council
SWRCB	-California State Water Resources Control Board

SRWC	-Scott River Watershed Council
TMDL	-Total Maximum Daily Load
TNC	-The Nature Conservancy
TRH	-Trinity River Hatchery
USDA	-United States Department of Agriculture
USDOJ	-United States Department of the Interior
USEPA	-United States Environmental Protection Agency
USFS	-United States Forest Service
USFWS	-United States Fish and Wildlife Service
USGS	-United States Geological Survey
VSP	-Viable Salmonid Population
WCF	- Watershed Condition Framework
YTFP	- Yurok Tribal Fisheries Program

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Appendix I. Electronic Maps Used in Threats Assessment

I.1 Overview

NOAA's National Marine Fisheries Service (NMFS) created GIS (Geographic Information System) maps using the instream monitoring and landscape data compiled for each population. *These maps are available upon request from the SONCC recovery coordinator in Adobe Acrobat (PDF) format and are designed to be used as electronic documents, not printed.* The many layers in the maps can be toggled on/off and users can zoom in to see more detail. There are two PDF maps included for each population. The main set of maps contains the stress and threats data, in addition to base layers such as coho salmon IP and streams, and was completed in May 2010. The second set of maps was completed in December 2009 and includes canopy change over various time periods and tree size. Due to the large number of layers in the maps, full legends could not be included within the individual maps; therefore, a separate legend PDF is provided for each of the two map types. These maps were used to analyze and interpret habitat condition across the landscape.

I.2 Inventory of Electronic Files

There are 92 electronic map files in PDF format:

- One introductory guide that explains how to use the stresses and threats PDF maps, and provides a legend for the layers in the stresses and threats map. File name:
 - o soncc_pop_maps_legend_and_instructions_2011_12_11.pdf
- 40 PDF maps (one for each population in the SONCC coho salmon ESU) with stress data and threats data. The file name of each map starts with the population name, then ends with “_soncc_cap_indicators_sources.pdf”:
 - o Bear River_soncc_cap_indicators_sources.pdf
 - o Brush Creek_soncc_cap_indicators_sources.pdf
 - o Chetco River_soncc_cap_indicators_sources.pdf
 - o Elk Creek_soncc_cap_indicators_sources.pdf
 - o Elk River_soncc_cap_indicators_sources.pdf
 - o Guthrie Creek_soncc_cap_indicators_sources.pdf
 - o Humboldt Bay Tributaries_soncc_cap_indicators_source.pdf
 - o Hunter Creek_soncc_cap_indicators_sources.pdf
 - o Illinois River_soncc_cap_indicators_sources.pdf
 - o Little River_soncc_cap_indicators_sources.pdf
 - o Lower Eel - Van Duzen Rivers_soncc_cap_indicators_source.pdf
 - o Lower Klamath River_soncc_cap_indicators_sources.pdf
 - o Lower Rogue_soncc_cap_indicators_sources.pdf
 - o Lower Trinity River_soncc_cap_indicators_sources.pdf
 - o Mad River_soncc_cap_indicators_sources.pdf
 - o Mainstem Eel River_soncc_cap_indicators_sources.pdf

- Maple Creek - Big Lagoon_soncc_cap_indicators_source.pdf
 - Mattole River_soncc_cap_indicators_sources.pdf
 - Middle Fork Eel River_soncc_cap_indicators_sources.pdf
 - Middle Klamath River_soncc_cap_indicators_sources.pdf
 - Middle Mainstem Eel River_soncc_cap_indicators_sourc.pdf
 - Middle Rogue - Applegate Rivers_soncc_cap_indicators.pdf
 - Mussel Creek_soncc_cap_indicators_sources.pdf
 - North Fork Eel River_soncc_cap_indicators_sources.pdf
 - Norton - Widow White Creek_soncc_cap_indicators_source.pdf
 - Pistol River_soncc_cap_indicators_sources.pdf
 - Redwood Creek_soncc_cap_indicators_sources.pdf
 - Salmon River_soncc_cap_indicators_sources.pdf
 - Scott River_soncc_cap_indicators_sources.pdf
 - Shasta River_soncc_cap_indicators_sources.pdf
 - Smith River_soncc_cap_indicators_sources.pdf
 - South Fork Eel River_soncc_cap_indicators_sources.pdf
 - South Fork Trinity River_soncc_cap_indicators_source.pdf
 - Strawberry Creek_soncc_cap_indicators_sources.pdf
 - Upper Klamath River_soncc_cap_indicators_sources.pdf
 - Upper Mainstem Eel River_soncc_cap_indicators_source.pdf
 - Upper Rogue_soncc_cap_indicators_sources.pdf
 - Upper Trinity River_soncc_cap_indicators_sources.pdf
 - Wilson Creek_soncc_cap_indicators_sources.pdf
 - Winchuck River_soncc_cap_indicators_sources.pdf
- One introductory guide that explains how to use the canopy change and tree size PDF maps, and provides a legend for the layers in the stresses and threats map. File name:
- change_detect_legend_and_instructions_2011_12_11.pdf
- 40 PDF maps (one for each population in the SONCC coho salmon ESU) of the canopy change and tree size data. The file name of each map starts with the population name, then ends with “_change_detect.pdf”:
- Bear River_change_detect.pdf
 - Brush Creek_change_detect.pdf
 - Chetco River_change_detect.pdf
 - Elk Creek_change_detect.pdf
 - Elk River_change_detect.pdf
 - Guthrie Creek_change_detect.pdf
 - Humboldt Bay Tributaries_change_detect.pdf
 - Hunter Creek_change_detect.pdf
 - Illinois River_change_detect.pdf
 - Little River_change_detect.pdf
 - Lower Eel - Van Duzen Rivers_change_detect.pdf
 - Lower Klamath River_change_detect.pdf
 - Lower Rogue_change_detect.pdf

- Lower Trinity River_change_detect.pdf
- Mad River_change_detect.pdf
- Mainstem Eel River_change_detect.pdf
- Maple Creek - Big Lagoon_change_detect.pdf
- Mattole River_change_detect.pdf
- Middle Fork Eel River_change_detect.pdf
- Middle Klamath River_change_detect.pdf
- Middle Mainstem Eel River_change_detect.pdf
- Middle Rogue - Applegate Rivers_change_detect.pdf
- Mussel Creek_change_detect.pdf
- North Fork Eel River_change_detect.pdf
- Norton - Widow White Creek_change_detect.pdf
- Pistol River_change_detect.pdf
- Redwood Creek_change_detect.pdf
- Salmon River_change_detect.pdf
- Scott River_change_detect.pdf
- Shasta River_change_detect.pdf
- Smith River_change_detect.pdf
- South Fork Eel River_change_detect.pdf
- South Fork Trinity River_change_detect.pdf
- Strawberry Creek_change_detect.pdf
- Upper Klamath River_change_detect.pdf
- Upper Mainstem Eel River_change_detect.pdf
- Upper Rogue_change_detect.pdf
- Upper Trinity River_change_detect.pdf
- Wilson Creek_change_detect.pdf
- Winchuck River_change_detect.pdf

I.3 Example Images Created from the PDF Map Files

Figure I-1 and Figure I-2 show example images for the Mattole River created from the map files described above.

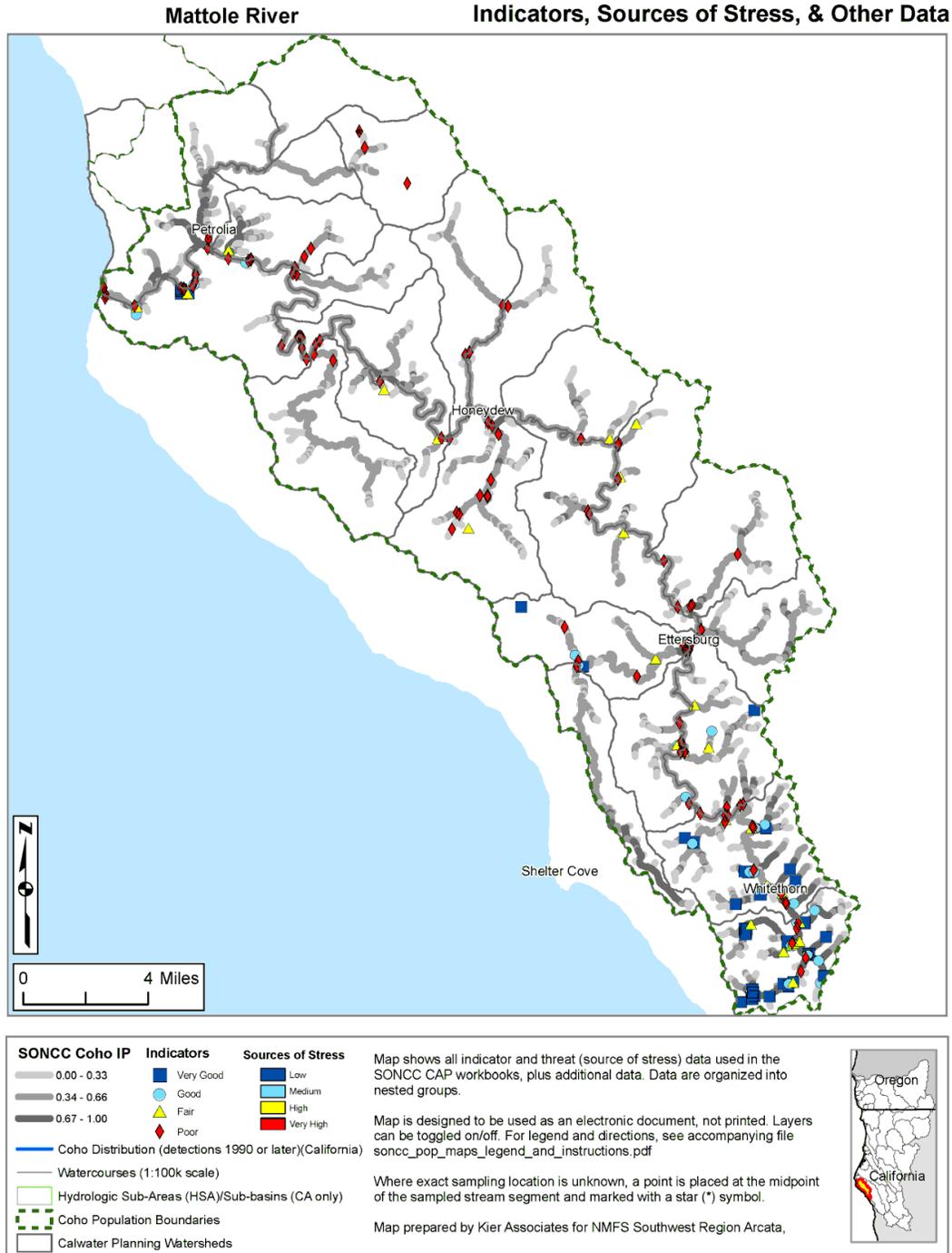


Figure I-1. Example image from map of Mattole River stress data. Map shows water temperature monitoring stations, modeled Intrinsic Potential (IP) of coho salmon habitat, and boundaries of Calwater Planning Watersheds (all other layers in map are turned off). These are just a few many data layers available in the “Mattole River_soncc_cap_indicators_sources.pdf” map file. Complete legend is available in “soncc_pop_maps_legend_and_instructions_2011_12_11.pdf”.

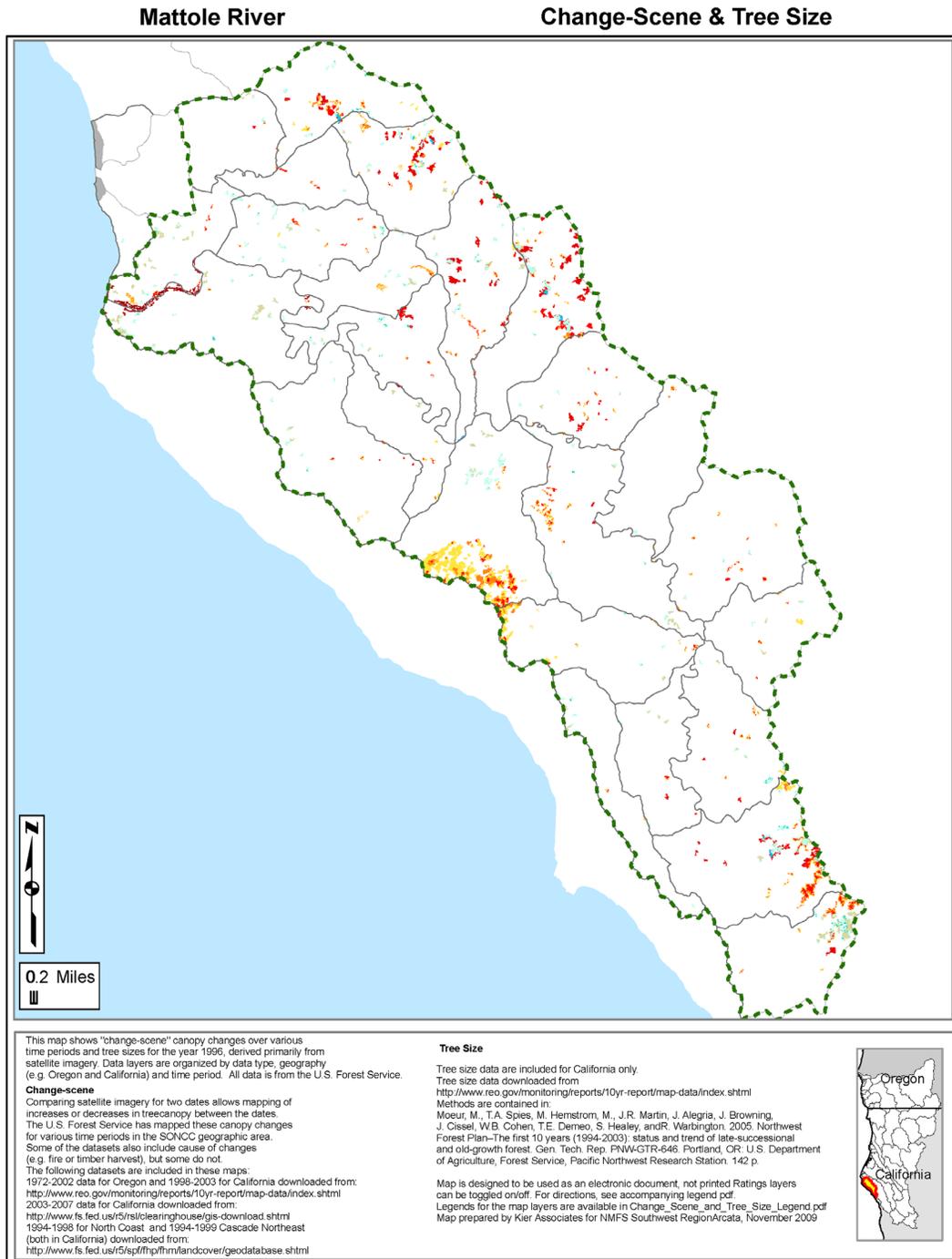


Figure I-2. Example image from PDF map of Mattole River canopy change and tree size data. Map shows areas where remote sensing detected canopy change in the years 1994 to 2007 and boundaries of Calwater Planning Watersheds (all other layers in map are turned off). These are just a few several data layers available in the “Mattole River_change_detect.pdf” map file. Complete legend is available in “change_detect_legend_and_instructions_2011_12_11.pdf”.

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