Salmon River Riparian Assessment 2006-2008

Salmon River Restoration Council Sawyers Bar, CA

Funded by Bella Vista Foundation and North Coast Regional Water Quality Control Board

In cooperation with Klamath National Forest

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Project Description:

The Salmon River Riparian Assessment Project took place between 2006-2008 with the intention of assessing the riparian corridor for shade deficient sites in order to plan and implement future riparian vegetation restoration efforts on the Salmon River and its tributaries.

The Salmon River watershed is considered to be temperature impaired and subject to regulation by Section 303(d) of the Clean Water Act, as a result of excessive summertime stream temperatures. According to the Salmon River Watershed Total Maximum Daily Load for Temperature (TMDL), an increase in stream shade from current vegetation conditions to more natural and mature vegetation conditions would lead to improved stream temperatures. The TMDL requires that the Salmon River be managed for a definitive trend of increasing vegetation cover and increasing vegetation height within the riparian zones.

The primary adverse impacts associated with elevated temperatures in the Salmon River pertain to the anadromous salmonid fishery. Anadromous fish rely on both ocean and freshwater habitat for various life stages. The water quality present in the Klamath River basin, including the Salmon River and its tributaries, are not fully supportive of anadromous salmonid species, contributing to severe population declines. Juvenile Coho salmon, Chinook salmon and Steelhead, as well as migrating and holding adults, are vulnerable to increased water temperatures associated with loss of riparian cover and pool infilling. The riparian corridor in the Salmon River has been impacted by debris torrents, intense fire, extensive hydraulic placer mining, roads, and clearing for various purposes. Riparian vegetation has been lost, and stream channels destabilized. Restoration of riparian areas in order to increase shade will ideally result in cooler water temperatures and therefore increase the health of the anadromous fisheries.

Methods:

The assessment began by reviewing all applicable background data in order to identify and map all potentially shade deficient sites on the Salmon River. This review of background data included the following steps:

- 1. Scan and review aerial photos from 1944, 1955, 1964, 1965, and newer to determine where there were areas that were vegetated (after the hydraulic mining era) that are not now. Areas to be looked at include the mainstems (north fork, south fork and mainstem) and the lower reaches of major tributaries. Areas of special interest are sections of the river or tributaries that have abandoned hydraulic mines or tailing piles on them. We obtained hydraulic mines and abandoned mines map coverages from National Geographic TOPO, in order to help identify these sites.
- 2. Review existing water temperature data to determine if there are sections of the river that seem to be heating up more than others.
- 3. Review riparian areas that have been planted (from rr_plant polygon coverage)

Sites were identified based on the above information and mapped for field assessment. A protocol for field assessment was then developed in coordination with the US Forest Service, the North Coast

Regional Water Quality Control Board, and the Karuk Tribe. Field Crews conducted on-the-ground assessments of each site. Since the goal of the assessment was primarily to identify sites that could provide shade to the river, sites were only surveyed ~ 200 feet back from the water's edge. Solar pathfinder readings were taken in the middle of the river channel at each site.

The following data was collected:

- 1. Using Trimble GPS Data Logger, collect site data Appendix 1 (Aspect, Slope, Vegetation type, cover, soil type, ...)
- 2. GPS the entire devegetated site (map out refugia areas and tailing piles separately), and complete site sketches
- 3. Establish photo points in each area
- 4. Determine soil type and depth using a penetrometer
- 5. Use solar pathfinders to determine the potential shading effect and area if mature vegetation were present
- 6. Establish a potential species composition list for each area (identify native riparian plants and/or hardwoods and conifers that will be appropriate for each site)
- 7. Determine potential planting project techniques for site and determine type and magnitude of project (i.e., plant and leave site, site needs development and maintenance consider access to the site is planting feasible, etc.)

After field assessment was completed, a multi-factor prioritization of sites was done. The following factors guided the prioritization:

- 1. Tailing Pile recovery projects on mainstems and tributaries
- 2. Revegetation of other vegetation impaired areas
- 3. Refugia areas that could be vegetated to increase shading and cover for anadromous fish species

Sites were prioritized based on two different primary goals – their potential to increase riparian shading, and their potential to create high quality fish habitat. Each site was given 2 different priority ratings based on the different rating criteria for each goal. The shade and fish habitat rating schemes are attached in Appendix 2.

Results:

154 total sites were surveyed on the Mainstem, North Fork and South Fork Salmon. 44 of those were rated high priority for shade improvement, and 40 were rated high priority for fish habitat based on the rating schemes in Appendix 2. Of those, 15 sites rated high priority for both shade and fish habitat. See Appendix 3 for high priority site lists, and their attributes.

The highest density of high priority sites occurred in 3 reaches of the river. We therefore consider the North Fork between Red Bank and Sawyers Bar, the lower South Fork between Indian Crossing and Negro Creek, and the upper South Fork at Petersburg as the highest priority river reaches to focus large scale restoration projects on.

FIELD EQUIPMENT LIST:

- " GPS (check batteries and cables)
- Solar Pathfinder with Tripod and Case
- " Blank pathfinder cards (20)
- " Grease pencil, two colors (and refills)
- " Dry bag (for river crossing with GPS)
- " Maps
- · Clinometer
- · Penetrometer
- · Thermometer
- · Compass
- .. Camera
- " Field notebook
- " Flagging (dark blue)
- ·· Noxious weed flagging (to flag noxious weed sites)
- " Noxious weed book (to identify noxious weed species)
- " Sharpie(s)
- " Pencil(s) for notebook
- " Daypack or Field vest
- · Boots
- " Water
- " Lunch
- · Sunscreen
- " Appropriate clothing

Data Dictionary

SURVEY AREA

Watershed Name: "Salmon River" default

Observers: abbreviated names of surveyors, 30 characters

Site Name, text, 15: Each surveyed area should be given a unique name. For example, a site on the North Fork Salmon River might be called NF01.

NOTE: **A catalog of all used names will be kept in the Solar Pathfinder case.**

Location, text, 100: Use this field if surveyed area is near some known landmark. For example, a site near the Galia Mine might have 'Galia' as a location.

Date: automatic

Quad Name, text, 30: lookup quad name before going into the field, or make sure that it is on your field map.

Stream Name, text, 25: on map

Stream Class: Select from List

"Perennial", (default): a stream that flows year round on an average year

"Intermittent": a stream that flows part of the time because of a connection with groundwater or because of seasonal snow melt

"Ephemeral": a watercourse generally without a well-defined channel which flows only in response to rainfall or snowmelt

Stream Gradient, numeric: Measure with clinometer, report as %

Fluvial Deposit Type: Select from List

"Bar": River Bar;

"Terrace": an accumulation of river deposits along the sides of a river valley which were deposited when river levels were higher, i.e. old floodplain or bar through which the river has cut a new, deeper channel.

"Floodplain": land next to a stream or river that is flooded during high-water events

"Fan": deposits from a stream that form gently sloping fan-shaped sediments, often seen at the base of a hill or gorge where the gradient and thus velocity of water decrease

"Landslide Deposit": deposit created by the downslope movement of rock and soil under the influence of gravity, and precipitation
"Other"

Geomorphic Valley: Select from List

"BR Control": stream channel controlled by bedrock, stream can not move freely or change course due to steep valley walls.

"Alluvial": channel can not move freely or change course, but controlled by alluvial deposits instead of bedrock.

"Braided": stream form consisting of one or more channels separated by bars

Sub-ecosystem Type: Select from List

Note: Mesoriparian habitats are usually associated with perennial or intermittent watercourses or shallow ground water. Xeroriparian habitat is supported by intermittent or ephemeral stream flows that increase the amount of water available to plants beyond that available by direct rainfall. Xeroriparian habitats commonly contain the same plant communities as the adjacent upland vegetation, but have larger plants and denser growth due to the availability of water.

History of Deposit: Select from List

Refugia: Yes or No. Answer YES only if there are obvious refugia present. An obvious refugium would likely be a tributary with COOL water and a pool.

River Mile: numeric – *should appear on your field map*

Slope: record clinometer reading for average site slope

Aspect: Select from List – average aspect of the site being surveyed

Flood Freq: Select from List

Scoured?: Select from List; default is 'no'. Answer YES only if site appears to be defined by scour

or if entire site is scoured

Distance from Bank Full: in Feet; average distance of the site edge from bank of stream or river

Max Dist from BF: in Feet

Size Class Canopy: Size class of the tallest trees on the site (NOT shrubs or brush); Select from

List

Soil Type: Select from List

Soil Depth: in Feet

Soil Cover %: *Select from List*

Depth to Water Table: for our purposes measure vertical depth to stream channel

Plantability: Select from List

Drainage: Select from List

Site Productivity: Select from List. Remember: this field refers to the <u>potential</u> of a site.

Slope Stability: Select from List

Depth to Hardpan: Select from List

Site Prep: Select from List

Planting Techniques: Select from List

Tree Name: Select from List

Tree Cover %: *Select from List*

Total Tree Cover %: Select from List

Shrub Cover %: *Select from List*

Forbs Cover %: Select from List

Grass Cover %: Select from List

Noxious Weed: Select from List

Noxious Weed Cover %: Select from List

Maintenance: Select from List

Maintenance 2: *Select fro List, default is NONE*

Accessible: Select from List

- Yes: There is a road going to the site that can be driven and is adequate for bring in machinery.
- No: *There is no road site is accessible by foot only.*
- · Crossing: Site is on opposite side of river, but there is a road and crossing.
- Needs Work: *There is a road, but it needs work to be accessible by machinery.*

Penetrometer: Select from List. RED = unacceptable, GREEN = acceptable, YELLOW = marginal

Current Status: Select from List

Priority: Select from List (High means this will shade a good stretch of stream)

In Recovery: Select from List

Other Restoration Potential: *Text*; *Example: existing trees need water*

PHOTO POINT

Be sure to flag and label the location of the photo points

Location, text, 100, Use this field if surveyed area is near some known landmark. For example, a site near the Galia Mine might have 'Galia' as a location.

Site Name, text, 15: Each surveyed area should be given a unique name. For example, a site on the North Fork Salmon River might be called NF01. This site name should be the same as the site name used for the survey area.

Photo Pt #, text, 2: Number each photo point at each site (most sites will only have 1 photo point).

Picture # North, text, 3: This is the picture number from the camera for the photo taken pointing North (0°) from the photo point.

Picture # West, text, 30: *This is the picture number from the camera for the photo taken pointing West (270°) from the photo point.*

Picture # South, text, 30: This is the picture number from the camera for the photo taken pointing South (180°) from the photo point.

Picture # East, text, 30: This is the picture number from the camera for the photo taken pointing East (90°) from the photo point.

Notes, text, 30 Date, date, auto Time, time, auto, 24

POINT OF INTEREST

(add a point feature for any points of interest that are present on the site)

Notes, text, 100

REFUGIA

(add a point feature if any refugia are present on the site)

Notes, text, 100

SP POINT

(add a point feature for each Solar Pathfinder location at each site)

SITE NAME: This is the same site name as for the survey area

SP_POINT #: This is for sites with more than one Solar Pathfinder Location. Number them as 1, 2, 3, etc.

PICTURE NUMBER: This is the picture number from the camera for the photo of the solar pathfinder.

NOTES, text, 100

Appendix 2

Fish – Riparian Assessment Rating Criteria

Fluvial Deposit Type: Bar = 3; Floodplain = 2; Other, Landslide or Terrace = 0

Geomorphic Type: Braided = 10; Entrenched = 3; Alluvial = 2; Bedrock Control = 0

Sub-ecosystem Type: aquatic = 3; mesoriparian = 2; xeroriparian and upland = 0

History of Deposit: Mining = 3; Flood = 1; Landslide and other = 0

Refugia: Yes = 10; No = 0

Slope: 0-10 = 2, over 10 = 0

Aspect: North = 3; East and West = 2; South = 0

Flood Frequency: Never or Every 10 or 100 Years = 2; Every 2-5 years = 1; Annually = 0

Scoured: No = 2; Yes = 0

Plantability: High = 3; Medium = 2; Low = 0

Priority: High = 3; Medium = 2; Low = 0

Soil Cover: 0-40% = 0; 41-100% = 2

Shade – Riparian Assessment Rating Criteria

Fluvial Deposit Type: Terrace = 3; Bar = 2; Floodplain = 1; Other, Landslide or Terrace = 0

Geomorphic Type: Entrenched = 3; Alluvial = 2; Braided = 1; Bedrock Control = 0

Sub-ecosystem Type: Not Rated

History of Deposit: Mining = 3; Flood = 1; Landslide and other = 0

Refugia: Yes = 3; No = 0

Slope: 0-56 = 2, over 56 = 0

Aspect: North = 3; East and West = 2; South = 0

Flood Frequency: Never or Every 10 or 100 Years = 2; Every 10 Yrs = 1; Every 2-5 years and Annually = 0

Scoured: No = 1; Yes = 0

Plantability: High = 3; Medium = 2; Low = 0

Priority: High = 3; Medium = 2; Low = 0

Soil Cover: 0-40% = 0; 41-100% = 2

							Tree Total	Novigue	Novious Novious			Str. Flu Geo Su	th His El Er Scou Plant Soil
	Stream Stream	am Fluvial Sub-ecosystem River	Distance Max Dist	Soil Depth to Site	Slope Depth to Tree 1	Tree 2 Tree 3 Tree 4	Tree 5 Other Tree Shrub Forbs Gra	Noxious Noxious Noxious Weed1 Wee	ed2 Noxious Weed3	l In		GPS GPS Gra Dep Typ Ec	o Dep Refu Slop Aspe eg red ab Cov
Watershed Observers Site Name Location	Date Quad Name Stream Name Class Gradi	ient Deposit Geomorphic Type type History_of Refugia Mile	Slope Aspect Flood Frequency Scoured feet feet Size Cla	Class Soil Type Depth Soil Cover Water Plantability Drainage Productivity S	ability Hardpan Site Prep Planting Technique Tree Name Cover	Tree Name2 Cover Tree Name3 Cover Tree Name4 Cover Tree Na	me5 Cover Cover Cover Cover Cover Cov	ver Weed1 Cover Noxious Weed2 Cov	rer Weed3 Cover Maintenance Maintenance2 Accessible Penetrome	eter Current Status Priority Recovery Other Restoration	Notes GP:	S Date GPS Time Area Perimeter R R eR F	R g_R e_R ct_R R R R R Ratir
Salmon River SH LS SF18 WINDY BAR	9/12/2006 YOUNGS PEAK SF Perennial	1 Bar Braided xeroriparian Flood Yes 4.0	0 North Every 100 years No 0 100 Med/Lai	arge Sand 4 41-50% 10 High Good Medium S	able 0-2' Hand Thinning Some Development Alder 6-10% N	ladrone 0-5% Ponderosa Pine 0-5% Bigleaf Maple 0-5% Douglas F	r 0-5% 0-5% 51-60% 05% 51-60% 0-5%	6 Dyers Woad 0-5% Starthistle 0-5%	None 0% Pump & Water System Mulching Yes N/A	Somewhat Vegetated Medium n/a	ROAD RUNS THRU HIGH ACTIVITY 9/1	2/2006 11:22:13am 0.599 1208.375 2 3 10	0 1 10 2 3 2 2 3 2 4
Salmon River RW SH MS BUTLER CR	1/25/2007 ORLEANS MTN. BUTLER CR Perennial	6 Bar Braided mesoriparian Flood Yes 0.0	2 West Annually No 6 40 Pole	Rock 50-10% 7 Medium Good Low S	able N/A None Some Development Alder 6-10% N	one 0-5% None 0-5% None 0-5% None	0-5% 0-5% 0-5% 0-5% 0-5% 0-5%	% None 0% None 0%	None 0% Gravity System None Needed Yes N/A	Somewhat Vegetated Medium Low	SEE SKETCH PHOTOS 617 618 619 620 1/2 flooding occurs at upstream south side some scouring glasgow	25/2007 02:53:04pm 0.000 17.991 2 3 10	2 1 10 2 2 0 2 2 0 3
Salmon River sl kg NF 17 island bar below jims bridge	7/28/2006 SAWYERS BAR NF Perennial	3 Bar Braided xeroriparian Flood Yes 12.5	2 North Every 100 years No 3 10 Medium	m Sand 3 61-70% 10 Medium Good Medium S	able N/A None Plant/no prep Alder 31-40% E	igleaf Maple 0-5% Douglas Fir 0-5% None 0-5% None	0-5% 0-5% 0-5% 11-20% 21-30% 0-5%	6 Dyers Woad 0-5% Spotted Knapweed 0%	None 0% Gravity System Mulching Crossing Hard	Somewhat Vegetated Low Medium	refugia upstream of site 7/2	28/2006 03:43:09pm 1.008 1242.622 2 3 10	0 1 10 2 2 2 2 2 2
											06 flood broke bent alders in high H2O area they are still		
Salmon River RW SL NF22 NORTH FORK	8/16/2006 SAWYERS BAR NF Perennial	2 Bar Alluvual mesoriparian Flood Yes 11.0	7 East Every 10 years No 5 80 Medium	m Sand 10 51-60% 10 Medium Good High S	able N/A None Plant/no prep Alder 21-30% E	igleaf Maple 0-5% None 0-5% None 0-5% None	0-5% 0-5% 51-60% 6-10% 0-5% 0-5%	6 None 0% None 0%	None 0% Gravity System Mulching Yes Acceptable	e Somewhat Vegetated High Medium	growing. Ig alders taken out in refugia 8/1 NO SAT ON S END DREW ON MAP 7/2	16/2006 08:37:30am	2 1 10 2 3 2 2 2 ?
Salmon River DP LS SF10 PETERSBERG	7/21/2006 TOMPSON PEAK SF Perennial	UBar Braided mesoriparian Flood No 23.0	U North Every 10 years No 0 50 Saplings	gs Sand 8 61-70% 8 High Good High S	able IN/A INone Plant/no prep Ponderosa Pine I0-5% A	ider 0-5% Cottonwood 0-5% None 0-5% None	0-5% 0-5% 0-5% 0-5% 0-5%	% None 0% None 0%	None U% Gravity System Mulching No Acceptable	e Somewnat Vegetated High N/a	loggd by miners?lg trees piled by cat-was healthy-3terraces-	21/2006 12:02:08pm 0.107 343.223 2 3 10	2 1 0 2 3 2 2 3 2 3
Salmon River kg sh sf36 bar cross riv bot cecil privat	9/20/2006 CECILVILLE SF Perennial	4 Floodplain Braided xeroriparian Mining No 15.8	2 West Every 10 years No 3 10 Large	Sand 10 51-60% 10 High Good High S	able >10' None Plant/no prep Ponderosa Pine 0-5% A	lder 0-5% Douglas Fir 0-5% Live Oak 0-5% Black/Wh	e Oak 0-5% 0-5% 6-10% 05% 0-5% 0-5%	6 Dyers Woad 11-20% None 0%	None 0% Mulching None Needed Work Needed Acceptable	e Somewhat Vegetated High Low flatten recent tailings-redistrib soil	top1 forestd-some good soil deposits 9/2	20/2006 10:33:48am 3.188 1972.085 2 2 10	0 3 0 2 2 2 3 2
Salmon River BA BD LS MS42 ABOVE HOUGIES HOLE	10/26/2006 SOMES BAR MS Perennial	1 Bar Alluvual mesoriparian Flood Yes 1.0	15 North Every 2-5 years No 30 100 Pole	Sand 5 91-100% 12 High Good Medium S	able 5-10' None Plant/no prep Live Oak 6-10% [ouglas Fir 0-5% Cottonwood 0-5% Bigleaf Maple 0-5% Alder	0-5% 21-30% 51-60% 11-20% 41-50% 0-5%	6 Scotch Broom 0-5% Dyers Woad 0-5%	None 0% Pump & Water System None Needed Yes Acceptable	e Somewhat Vegetated Medium n/a	10/2	26/2006 11:46:22am 1.033 1738.216 2 3 2	2 1 10 0 3 1 2 3 2 ?
Salmon Bivor DW St. NE23 NORTH FORK	9/16/2006 SAMVERS BAR I NE Paranial	O Par Allumual magazinarian Flood Vac 11.0	8 West Fyery 10 years Ves	Rock 0.0% 0.Modium Good Modium S	phla N/A Nana Plant/na prop Alder 0.5% N	0.5% None 0.5% None	0.59/ 0.59/ 0.59/ 0.59/ 0.59/	/ None O%/ None O%/	None 0% None Needed None Needed Yes Acceptable	o Somowhat Vogotated High Low	LNF Refugia area: 06 FLOOD TOOK OUT SEVERAL	16/2006 10:45:43am 0.235 424 517 2 2	
Saimon River RVV SL INF25 NORTH FORK	6/10/2000 SAWTERS BAN LINE PETETITION	O Bai Aliuvuai illesoripariari Flood 1 es 11.0	o west Every to years ites o o role	Rock 00% Unredigiti Good Integratifi S	Able IVA Notice Platit/10 prep Alder 0-5% II	OTIE 0-5% INOTIE 0-5% INOTIE 0-5% INOTIE	0-3/6 0-3/6 0-3/6 0-3/6 0-3/6	76 NOTE 076 NOTE 076	None 0% None Needed None Needed res Acceptable	e Somewhat vegetated Flight Low	LONG STRETCH WELL-ESTABLISHED WILLOWS ALONG	10/2000 10.45.45am 0.255 424.517 2 3 2	2 1 10 2 3 2 0 2 0 3
											BANK BTWN GPS LINE & RIVER. SANDY ISLAND DN ENTIRE		
Salmon River RW BD MS10 BELOW FORKS SCHOOL	9/29/2006 FORKS MS Perennial	2 Bar Braided mesoriparian Flood No 0.5	8 West Every 2-5 years No 30 150 Medium	m Sand 10 61-70% 10 High Good Medium S	able N/A None Plant/no prep Live Oak 0-5% II	ncense Cedar 0-5% Black/White Oak 0-5% None 0-5% None	0-5% 0-5% 0-5% 6-10% 21-30% 0-5%	6 None 0% None 0%	None 0% Pump & Water System Mulching Yes Acceptable	e Somewhat Vegetated Medium Low	LENGT 9/2	29/2006 10:10:25am	2 1 0 2 2 1 2 3 2 ?
Salmon River SLLS NF 12 IACKASS	18991230 SAWYERS BAR NF Perennial	1 Bar Braided mesoriparian Flood No 9.5	5 South Every 10 years No 10 100 Medium 20 North Never No 0 10 Large	m Sand 8 91-100% 8 Medium Good Medium S Rock 1 71-80% 50 Low Good Medium U	stable N/A None Plant/no prep Alder 6-10% E	Igleaf Maple	0% 0% 6-10% 05% 6-10% 0-5% Pine 0-5% 0-5% 81-90% 11-20% 11-20% 0-5%	6 None 0% None 0%	None 0% None Needed None Needed No Acceptable None 0% Pump & Tank System Mulching Crossing Hard	e Somewhat Vegetated High Medium no Somewhat Vegetated Low Medium	signs of scour -W Braid much less watr - 7/1 SITE VARYS BAR TAILINGS POND FLAT TO STEEP 7/2	14/2006 12:42:26pm 1.092 898.069 3 3 10 27/2006 09:59:26am 4.040 2941.463 2 3 2	2 1 0 2 0 2 2 2 3
Calmon river GE EG 14 12 0/10/1/10	172172000 GAVATERO BARA TAI	T Dai 7 mayaar mesoriparian iyiiriirig 1 cs 15.0	20 North Nevel No 10 Earge	Nock 171 0070 30 Edw Good Wediam C	Stable 1477 None Mach Development Mach	oughas I ii	11 110 0 370 0 370 0 1 3070 1 1 2070 1 1 2070 0 370	Notice 070 Notice 070	There one trained ystem watering crossing train	Comewhat vegetated Low Medium	LITTLE REFUGIA. WELL VEGED. ALDER WILLOW &GRASS	2772000 03.33.20diii 4.040 2341.403 2 3 2	
Salmon River LC SL NF 24 CRONAN GULCH	8/17/2006 SAWYERS BAR NF Perennial	1 Bar Alluvual aquatic Flood Yes 9.5	2 South Annually No 0 0 Med/Lar	arge Sand 5 0% 0 High Good Medium S	able N/A None Plant/no prep Alder 71-80% E	igleaf Maple 41-50% Douglas Fir 31-40% None 0-5% None	0-5% 0-5% 81-90% 05% 0-5% 51-6	60% None 0% None 0%	None 0% None Needed None Needed Yes Acceptable	e Well Vegetated Low n/a		7/2006 10:38:03am 0.017 128.654 2 3 2	3 1 10 2 3 0 2 3 0 5
SF RD MILE15 ORANGE PEE	EL 0/40/2006 CECILVILLE SE Paranial	1 Per Proided verginaries Mining No. 15.0	2 North Every 2 5 years No. 0 150 Medium	m Sand 5 24 200/ 7 Madium Cood Madium S	phie 3.5! None Pient/ne prep Alder 11.200/ F	landarasa Dina (0.5%) Dauglas Fir (0.5%) Biglast Manla (0.5%) Nana	00/ 00/ 24 200/ 6 400/ 00/ 0 50/	/ Dyora Wood O 59/ None	None OV Dump 8 Water System Mulebing Yes Assentable	Somewhat Vagatatad Madium Madium CLEANLID SOME ILINIK	2 DOTEN DI ANT SITES VEDV DIEFEDENT	10/2006 01:40:35pm	
Salmon River SH LS SF33 IMINE	9/19/2006 CECILVILLE SF Perennial	Tibar Braided xeronparian ivining No 15.0	2 North Every 2-5 years No 0 150 Medium	m Sand 5/21-30% / Iviedium Good Iviedium S	Able 3-5 None Plant/no prep Alder 11-20% F	onderosa Pine 10-5% Douglas Fir 10-5% Biglear Maple 10-5% None	0% 0% 21-30% 6-10% 0% 0-5%	byers woad 10-5% None 0%	None 0% Pump & water System Muching Yes Acceptable	e Somewhat Vegetated Iviedium Iviedium CLEAN OP SOME JONK	3 POTEN PLANT SITES VERY DIFFERENT 9/1 3levl terrace riv silt/covrd in bberry/grape/lg fir stumps	19/2006 01:40:35pm 1.477 1405.106 2 3 10	0 3 0 2 3 1 2 2 0 3
Salmon River kg sh MS02 terrace across frm brazilfield	9/27/2006 FORKS MS Perennial	1 Terrace Braided xeroriparian Flood No 16.2	8 North Every 100 years No 5 10 Medium	m Silt 9 61-70% 15 High Good High S	able >10' Hand Thinning Plant/no prep Douglas Fir 0-5% E	igleaf Maple 0-5% Alder 0-5% Black/White Oak 0-5% None	0% 0-5% 0-5% 81-90% 71-80% 21-3	30% Dyers Woad 0-5% None 0%	None 0% Weeding Mulching Work Needed Acceptable	e Somewhat Vegetated High Medium	burnt'87/new trees shaded out/pool blw 9/2	27/2006 11:14:09am 1.158 1000.584 2 0 10	0 1 0 2 3 2 2 3 2
Salmon River RW SH EF2 MOUTH OF TAYLOR CR	2/14/2007 TAYLOR CR Perennial	3 Bar Alluvual mesoriparian Flood Yes 0.0	10 West Every 2-5 years No 0 0 Med/Lar	arge Sand 5 1 Medium Good Medium S	able Plant/no prep Alder 41-50% [ouglas Fir 6-10% Live Oak 0-5% Bigleaf Maple 0-5% None	0-5% 0-5% 61-70% 6-10% 0-5% 0-5%	6 None 0% None 0%	None 0% None Needed Yes	Well Vegetated Low High	2/1	14/2007 02:23:26pm 0.012 106.149 2 3 2	2 1 10 2 2 1 2 2 0 7
Salmon River RW SH NF30 KANAKA	8/30/2006 SAWYERS BAR NF Perennial	2 Floodplain Alluvual aquatic Flood Yes 7.8	3 South Every 10 years No 0 0 No Tree	ees Sand 00% 0 Good S	able N/A None Not Feasible None 0-5% N	one 0-5% None 0-5% None 0-5% None	0-5% 0-5% 0-5% 0-5% 0-5% 0-5%	6 None 0% None 0%	None 0% None Needed None Needed No N/A	No Vegetation Low n/a	CONFLUENCE KANAKA & NORTH FORK soilless talings upstrm2/3 of site- bot 1/3sand+silt-opening cold	30/2006 10:13:44am 0.086 288.512 2 2 2	3 1 10 2 3 2 2 0 0 2
Salmon River kg sh sf30 bar in bend blw lwr plummer ro	d 9/13/2006 CECILVILLE SF Perennial	1 Terrace Alluvual xeroriparian Mining Yes 12.8	1 West Every 100 years No 0 5 Large	Sand 3 21-30% 7 Medium Good Medium S	able 0-2' None Plant/no prep Alder 0-5% F	onderosa Pine 0-5% Live Oak 0-5% Douglas Fir 0-5% Black/Wh	e Oak 0-5% 0-5% 21-30% 11-20% 0-5% 0-5%	% None 0% None 0%	None 0% Pump & Water System Mulching Work Needed Acceptable	e Somewhat Vegetated Medium Medium	b plntd-lg deep pool bot lg trees 9/1	3/2006 03:20:06pm 0.972 1263.711 2 0 2	0 3 10 2 2 2 2 2 0
Salmon River SH LS SF 35 ST CLAIRE REFUGIA	9/19/2006 CECILVILLE ST CLAIRE Perennial	3 Bar Alluvual xeroriparian Mining Yes 16.0	0 North Every 100 years No 0 0 Medium	m Bedrock 5 0% 10 Low Good Medium S	able N/A None Plant/no prep Alder 21-30% F	onderosa Pine 0-5% Douglas Fir 0-5% Bigleaf Maple 0-5% None	0-5% 0-5% 41-50% 05% 6-10% 6-10	0% None 0% None 0%	None 0% Pump & Water System None Needed Acceptable	e Somewhat Vegetated Low n/a	b plntd-lg deep pool bot lg trees 9/1 ACCESS PRIV PROP GOOD REF BY BDRK 9/1 WHITES GLCH REFUGIA. LARGE ALDERS AT CRK MTH.	9/2006 03:21:21pm 0.036 170.391 2 3 2	0 3 10 2 3 2 2 0 0
											WHITES GLCH REFUGIA. LARGE ALDERS AT CRK MTH. OTHER SIDE OF RVR BEDRCK. COULD PLNT WILLOW		
Salmon River I C SI NE 07 MOUTH OF WHITES GUI CH	8/17/2006 TANNERS NE Perennial	3 Bar Bedrock Control laquatic Flood Yes 18.0	15 North Annually No 0 5 Med/La	arge Sand 3 41-50% 5 Medium Good Medium S	able N/A None Plant/no prep Alder 41-50% F	igleaf Maple 0-5% None 0-5% None 0-5% None	0-5% 0-5% 51-60% 05% 0-5% 0%	None 0% None 0%	None 0% None Needed None Needed Yes Acceptable	e Well Vegetated I ow n/a		17/2006 02:59:18pm 0.019 122.819 2 3 0	3 1 10 0 3 0 2 2 2
	9, 1, 1, 2, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	9 24.	7					7.00.00			OLD HOMESTEAD. RECLAIMED MINING AREA. BEST		
Salmon River RW LS NF40 SAWPIT	9/6/2006 SAWYERS BAR NF Perennial	3 Bar Alluvual mesoriparian Mining No 3.9	0 North Every 100 years No 20 120 Medium	m Sand 20 71-80% 25 High Good High S	able N/A None Plant/no prep Ponderosa Pine 6-10% Lable N/A None Plant/no prep Alder 51-60% N	ive Oak 0-5% Black/White Oak 0-5% Douglas Fir 0-5% Incense C	edar 0-5% 0-5% 11-20% 05% 6-10% 31-4	0% Dyers Woad 0-5% Starthistle 6-109	% None 0% Pump & Water System Pump & Tank System Yes Acceptable	e Somewhat Vegetated Medium Medium	SHADE POTENTIAL-WEST END. pool well shaded by alders-pool filled in 9/2	/6/2006 12:03:35pm 1.052 1314.896 2 3 2	2 3 0 2 3 2 2 3 2 7
Salmon River Ic kg bd sf44 refugia mouth of knownothing	9/21/2006 YOUNGS PEAK SF Perennial	1 Bar Alluvual aquatic Flood Yes 2.0	10 North Annually Yes 0 0 Medium	m Rock 591-100% 5Low Good Medium S	able N/A None Plant/no prep Alder 51-60% N	one 0-5% None 0-5% None 0-5% None	0-5% 0-5% 51-60% 05% 0-5% 0-5%	% None 0% None 0%	None 0% None Needed None Needed Yes Hard	Somewhat Vegetated Low Low bank stabilization	pool well shaded by alders-pool filled in 9/2 REFUGIA-EXIT FILLED IN THIS WINTER/NOT	21/2006 01:56:31pm 0.017 108.670 2 3 2	3 1 10 2 3 0 0 0 2 2
										CLEAR REFUGIA MOUTH/NOT CONNECTD TO RIV-	CONNECTED/H2O XITS UNDER BOULDER/DEVEGD IN		
Salmon River kg sh MS05 FONG WAH REFUGIA	9/27/2006 FORKS MS Perennial	2 Bar Alluvual aquatic Flood Yes 15.7	0 East Every 2-5 years Yes 0 0 Medium	m Sand 2 21-30% 0 Medium Good Medium U	known 0-2' None Plant/no prep Alder 11-20% N	one 0% None 0% None 0% None	0% 0-5% 11-20% 6-10% 0-5% 0%	None 0% None 0%	None 0% None Needed None Needed No Acceptable	e Somewhat Vegetated Low Low REPLANT WILLIWS/ALDERS	STORM/COLD H2O 9/2	27/2006 02:35:53pm 0.055 316.167 2 3 2	3 1 10 2 2 1 0 2 0 7
Salmon River sh-bd indian creek sf	10/20/2006 YOUNGS PEAK SF Perennial	1 Terrace Alluvual xeroriparian Mining Yes 0.0	15 West Every 100 years No 20 150 Med/Lai	arge Loam 5 51-60% 20 High Good High S	able N/A None Plant/no prep None 0-5% N	One	0-5% 0-5% 0-5% 0-5% 0-5% 0-5%	6 None 0% None 0%	None 0% Pump & Water System None Needed Yes Acceptable	e Somewhat Vegetated Low n/a	10/2	20/2006 10:49:35am 1.026 1838.178 2 0 2 2 2 2 2 2 2 2	0 3 10 0 2 2 2 3 2 2
Salmon River RW SH MS60 3 DOLLAR BAR	1/29/2007 SOMES BAR MS Perennial	2 Bar Braided mesoriparian Flood No 2.8	1 East Every 2-5 years No 5 120 No Tree	m Sand 2 21-30% 0 Medium Good Medium U arge Loam 5 51-60% 20 High Good High S arge Loam 5 51-60% 20 High Good High S ees Sand 5 21-30% 8 Medium Good Medium S	able N/A None Plant/no prep Ponderosa Pine 0-10% P	lone 0-5% None 0-5% None 0-5% None	0-5% 0-5% 0-5% 0-5% 21-30% 11-2	20% None 0% None 0%	None 0% Pump & Water System Pump & Tank System Crossing Acceptable	e No Vegetation Low No	DATA TAKEN FROM ACROSS RIVER 1/2	29/2007 02:52:12pm 0.010 96.817 2 3 10	2 1 0 2 2 1 2 2 0
REFUGIA-N&S													
Salmon River RW JM RUS JCT	7/17/2006 TANNERS RUSSIAN Perennial	4 Bar Alluvual mesoriparian Flood Yes 0.5	6 North Every 100 years Yes 0 0 Med/Lai	arge Sand 5 0% 5 Good High S	able N/A None Plant/no prep Alder 31-40% C	ottonwood 6-10% Incense Cedar 6-10% Douglas Fir 6-10% Bigleaf M	ple 6-10% 0-5% 81-90% 6-10% 0-5% 0-5%	<u>% None 0% None 0%</u>	None 0% None Needed No N/A	Well Vegetated Low High	SEE NOTEBOOK. EXEMPLARY REFUGIA AREA. 7/1	17/2006 03:53:07pm 0.000 68.474 2 3 2	2 1 10 2 3 2 0 0 0 2
Salmon River kg sh sf29 mouth of plumber/refugia	9/14/2006 CECILVILLE SF Perennial	1 Bar Alluvual aquatic Flood Yes 13.2	7 East Annually Yes 0 0 Med/La	arge Rock 5 0% 0 Medium Good Medium S	able N/A None Plant/no prep Alder 11-20% N	lone 0-5% None 0-5% None 0-5% None	0-5% 0-5% 11-20% 05% 0-5% 0%	None 0% None 0%	None 0% Pump & Water System None Needed No N/A	Somewhat Vegetated Low Low plant willows	refugia-wide strm mouth-cold seapage upstrm-scour in creek+dwnstrm mouth - poly fixd in office 9/1	4/2006 05:25:59pm 0.047 282.414 2 3 2	3 1 10 2 2 0 0 2 0
										crk mouth full of cobble&boulders/impassable/needs cle	earing mouth cecil crk-lg pool bedrock dwnstrm SW-mouth filled in		
Salmon River kg sh sf41 REFUGIA cecil creek	9/20/2006 CECILVILLE SF Perennial	0 Fan Alluvual aquatic Flood Yes 18.5	14 North Annually No 0 0 Med/Lai	arge Rock 5 71-80% 0 Low Good Medium S m Sand 5 91-100% 6 High Good High S arge Sand 5 71-80% 15 Medium Good Medium S	able 3-5' None Plant/no prep Alder 51-60% E	igleaf Maple 11-20% Douglas Fir 0-5% None 0-5% None	0-5% 0-5% 51-60% 6-10% 6-10% 0-5% e Oak 0-10% 0-10% 31-40% 11-20% 21-30% 0-10	6 None 0% None 0%	None 0% None Needed None Needed No Acceptable	e Well Vegetated Low Medium for fish passage	w/boulders/blw gean adams private 9/2	20/2006 03:19:16pm 0.001 42.995 2 2 2	3 1 10 0 3 0 2 0 2 2
Salmon River STAFF Salmon River RW SH SF62 MP 2	2/7/2007 YOUNGS PEAK SF Perennial	4 Bar Entrenched xeroriparian Mining No 9.8 2 Bar Alluvual mesoriparian Mining No 21.5	3 Fast Every 100 years No 20 150 Med/Lai	m Sand 5 91-100% 6 High Good High S	able None Plant/no prep Ponderosa Pine 11-20% L	louglas Fir U-10% Madrone U-10% Alder U-10% Black/Wh	0-5% 0-5% 0-5% 11-20% 21-30% 0-10	10% Spotted Knapwu% Dyers vvoad 0-10%	% Pump & Tank System Possibly Acceptable Pump & Water System Mulching	e Somewhat Vegetated High Medium TREES NEED H2O Somewhat Vegetated Medium Medium	EXSTING TREES DONT SHADE H2O. 6/3 ACCESS SEE SE61 2/	77/2007 02:31:09pm 0 028 146 675 2 3 2	0 3 0 2 3 2 0 3 2 2 2 2 2 2 2
			5 243. 2.3. 100 years 100 20 100 Wed/Lai	S. G. C.	1 1010 1 1010 1 100 1 100 1 100 2 1 00 /0 E	5 5 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	010		1. Samp & Tracer O Jecons Producting		ACCESS SEE SF61 2/ CLOSE TO 100 PERCENT CANOPY COVER OVER STREAM.	11.25. 52.5.15.55.11 5.52.5 110.010 Z 0 Z	
Salmon River RW JM N RUSSIAN 2 100' EAST CONFL N&S RUSS	SIAN 7/17/2006 TANNERS N RUSSIAN Perennial	2 Bar Alluvual mesoriparian Mining No 0.0	2 North Every 100 years No 15 150 Medium	m Sand 10 81-90% 10 High Good High S	able N/A None Plant/no prep Alder 11-20% E	lack/White Oak 11-20% Ponderosa Pine 6-10% Incense Cedar 6-10% Douglas F	r 6-10% 6-10% 51-60% 05% 11-20% 21-3	80% Dyers Woad 0-5% None 0%	None 0% Pump & Tank System Pump & Tank System Acceptable	e Well Vegetated Low High	TANK ABOVE SITE. LOM WATER CROSSING. 7/1	7/2006 01:42:33pm 5.395 3625.718 2 3 2	2 3 0 2 3 2 3 2
Salmon River sf04 loro	7/20/2006 TOMPSON PEAK SF Perennial	1 Bar Alluvual mesoriparian Flood No 25.0 2 Bar Alluvual mesoriparian Flood No 11.8	1 North Every 2-5 years No 1 125 Pole	Sand 5 41-50% 10 High Good High S	Able N/A None Plant/no prep Alder 0-5% F	onderosa Pine 0-5% None 0-5% None	0-5% 0-5% 0-5% 0-5% 0-5% 0-5%	6 None 0% None 0% O% O% O% O% O% O% O%	None 0% None Needed None Needed Work Needed Acceptable	e Somewhat Vegetated High Medium	7/2	20/2006 12:53:15pm 0.423 918.838 2 3 2	2 1 0 2 3 1 2 3 2 2
DAITHOUT NIVEL INVV JIVI INFZ I NELL I DAK	OF TOTALOUS DAN TENS DAN TINE PETERINAL	ZIDAI MIUVUAI IITESUIIPAITAIT FIUUU INO 11.8	ZIVVEST LVELY TO YEARS INO SI TOU IVIEQUUM	in joana 10j01-3070 Ojiviedidili 15000 Inigi1 5	ADIC TWA TRUTTE FRANKTIO PLEP AIGET 10-3% L	700gias i ii 0-070 FUHUELUSA FIHE 0-070 NUHE 0-070 NUHE	0-370 0-370 0-1070 41-3070 21-3070 0-370	Dyers wodu 0-370 Notice 0%	Prione 1070 Fullip & viater System Fullip & viater System (198 Acceptable	e pomewnat vegetated priigit priedluiti	NORTH END HIGH FLOOD POTENTIAL. MIDDLE OF SITE	10/2000 02.21.3/μπ 1.103 13/0.10/ 2 3 2	2 1 0 2 3 2 2 2 2
											WOULD SHADE IF PLANTED ONLY IN AM. SOUTH END		
Salmon River RW SH NF31 RED BANK Salmon River RW LS NF38 WINDLER	8/30/2006 SAWYERS BAR NF Perennial	2 Bar Alluvual mesoriparian Flood No 7.0	0 North Every 10 years No 10 300 Medium	m Sand 7 71-80% 10 High Good Medium S	able N/A None Plant/no prep Ponderosa Pine 0-5% A	Ider 0-5% Cottonwood 0-5% Live Oak 0-5% Incense C	edar 0-5% 0-5% 0-5% 05% 71-80% 0-5%	6 Dyers Woad 0-5% None 0%	None0%Pump & Water System None NeededCrossingAcceptableNone0%Pump & Water System None NeededYesAcceptable	e Somewhat Vegetated Medium Medium	ALREADY 8/3 SCOURED BAR.RVR RUNS E-W.ESTAB TREELINEAT BANK. 9/	30/2006 11:15:56am 6.073 3739.701 2 3 2	2 1 0 2 3 2 2 3 2 2
Salmon River RVV LS NF38 WINDLER	9/6/2006 SAWYERS BAR NF	U Bedrock Control mesoriparian Flood Yes 0.0	UNORTH Every 100 years NO 0 0 No Tree	ees Sand 5 0% 10 Medium Good Medium S	able IN/A INone Plant/no prep None 0-5% N	one U-5% None U-5% None 0-5% None		<u>% None U% None 0% </u>	INONE U% Pump & Water System None Needed Yes Acceptable	e Somewnat vegetated Low n/a	I G BAR WIDE FILLED CHANNI /SOME WILL IW/S/S CHNI	/6/2006 09:35:04am 0.006 1081.352 2 0 0	<u>Z 1 10 2 3 2 2 2 0 2</u>
											LG BAR WIDE FILLED CHANNL/SOME WILLIWS/S CHNL BRAIDS IN WINTR LG POOL@SW EDGE W/SEEP-MANY		
Salmon River KG SH MS03 cobblebar across frm brazil	9/27/2006 FORKS MS Perennial	2 Bar Alluvual mesoriparian Flood Yes 16.1	1 North Every 2-5 years Yes 0 10 Seedling	ngs Sand 3 21-30% 10 Low Good Low U	stable N/A None Plant/no prep Alder 0-5% N	one 0% None 0% None 0% None	0% 0% 0-5% 6-10% 0-5% 0%	None 0% None 0%	None 0% Mulching None Needed Work Needed Marginal	Somewhat Vegetated Low Low MORE WILLOWS	FISHES 9/2	27/2006 12:22:19pm 1.177 1881.906 2 3 2	2 1 10 2 3 1 0 0 0
Salmon River KG SH MS03 cobblebar across frm brazil Salmon River dp sh sf02 loro Salmon River LC LG SF12 MTH MCNEIL	7/20/2006 YOUNGS PEAK SF Perennial	2 Bar Alluvual mesoriparian Flood No 25.0	1 West Every 2-5 years No 10 75 Medium	m Sand 5 71-80% 10 High Good High S	Able N/A None Plant/no prep Alder 6-10% F	onderosa Pine 0-5% None 0-5% None long 0-5% None 0-5% None	0-5% 0-5% 6-10% 05% 0-5% 0-5%	% None 0% None 0% % None 0% None 0%	None0%MulchingNone NeededWork Needed MarginalNone0%None NeededNone NeededCrossingAcceptableNone0%None NeededNone NeededNoAcceptable	e Somewhat Vegetated High Medium	p of int is upstr end 7/2 MTH STEEP & BRAIDED,ENTERING INTO SWIFT H2O 9/1 black bear refugia-classic looks excellent-bdrock abv keeps	27/2006 12:22:19pm 1.177 1881.906 2 3 2 20/2006 11:08:58am 1.031 884.244 2 3 2 11/2006 09:50:24am 0.001 48.026 2 2 0	2 1 0 2 2 1 2 3 2 2
Saimon River LC LG SF12 IVITA WICINETL	3/ 11/2000 FORNS SF Perennial	THE ALL DECITOR COLLEGE AQUALIC FIGURE 1 (5)	SUPPORTE AFFICIALLY INO U U VIVIEGIUM	in Nock 0 0-10/6 Hiviedium Good Low 5	ADIC INA INDIE FIAIN/ID PIEP ANDEI 41-50% N	NOTICE 10-370 INOTICE 10-370 INOTICE 10-370 INOTICE 10-370 INOTICE		70 INUTIE U /0 INUTIE U%	INOTIE 1070 INOTIE NEEded INOTIE NEEded INO ACCEPTABLE	e ivveii vegetateu Luw Fligh UNEATE FION PUULO	black bear refugia-classic looks excellent-bdrock abv keeps		
Salmon River KG SH SF26 mouth black bear creak	9/13/2006 CECILVILLE SF Perennial	1 Bar Bedrock Control aquatic Flood Yes 8.0	0 South Annually No 0 0 Medium	m Sand 50% 0 Medium Good Medium S	able N/A None Plant/no prep Alder 41-50% L	ive Oak 6-10% None 0-5% None 0-5% None	0-5% 0-5% 51-60% 05% 0-5% 0-5%	6 Dyers Woad 0-5% None 0%	None 0% None Needed None Needed No Acceptable	e Well Vegetated Low High	warm h2o out 9/1	3/2006 10:12:37am 0.027 145.924 2 3 0	3 1 10 2 0 0 2 2 0 7

Site Name Watershed KN01 Salmon River MS 61 Salmon River MS02 Salmon River MS10 Salmon River MS40 Salmon River MS42 Salmon River MS42 Salmon River MS45 Salmon River	d Observers Location KNOWNOTHING CREEK Ver KG LC LOWEST MINE 10 ACROSS/UP GEORGE	Date QuadName Stream N KNOWNO	Stream Stream ame Class Grad	am Fluvial ent Deposit Geomorphic Type	Sub-ecosystem History e type of Refug	River	Flood Dist	stance Dist Soil	Soil Soil to	Site	Depth to		Tree1	Tree2 Tree3	Tree4	Tree5 Other Tree Shrub	h Forhs Grass	Weed1	Weed2 Noxious Weed3			l ln			Gra	_ Flu_ Geo Sub_ His_	
MS 61 Salmon River MS 02 Salmon River MS10 Salmon River MS40 Salmon River	Control Cont	Date QuadName Stream N KNOWNO	ame Class Gradi HING	ent Deposit Geomorphic Type	e type of Refug	ial Mila Slana Asnact	Lroguesov Cooured to			.		a				- 11000 01101 1100 011100	b 10105 01055		Woodz Noxiodo Woodo							I_ Dep _Typ Eco_ Dep Refu Slop P	Aspe eq_ red_ ab_ Cov_Sol
MS40 Salmon River	ver KG LC LOWEST MINE 10 ACROSS/UP GEORGE	10/24/2006 VOLINGS DEAK CREEK				ia Wille Slope Aspect	Frequency Scoured 16	reet reet Size Class Type I	Depth Cover Wat	ter Plantability Drainage Production S	Slope Stab Hardpan S	Site Prep Planting Technique Tree N	Name1 Cover Tree Name2	Cover Tree Name3 Cover	Tree Name4 Cover Tree Name	ne5 Cover Cover Cover Cover	er Cover Cover Noxious Weed1	1 Cover Noxious Weed2	Cover Weed3 Cover	Maintenanc Maint	ntenan2 Accessible P	Penetromet Current Veg State Priority Recover	ry Other Restoration CLEAN MINE	Notes OPEN PIT MINE-2LG PITS 1 W/POND. NEW TAILINGS	GPS Date GPS Time R	R e_R RR g_R e_R c	st_R R R R R R
MS40 Salmon River	ACROSS/UP GEORGE	10/24/2000 TOUNGS PEAR CREEK	Perennial	3 Terrace Alluvual	xeroriparian Mining No	0.3 3 North E	Every 100 years No	30 40 Saplings Sand	15 81-90%	18 Medium Good Medium S	Stable N/A Ma	achine work Some Development Alder	0-5% Douglas Fir	0-5% Ponderosa Pine 0-5%	Live Oak 0-5% Cottonwood	0-5% 0-5% 11-20% 21-30%	% 6-10% 21-30% Starthistle	0-5% None	0% None 0% I	Pump & Tank System Mulching	Yes H	Hard Somewhat Vegetated Medium Low	TRASH/TRAILER.	ATOP OLDER-RD RUNS THROUGH COMPACTING SITE	10/24/2006 11:59:51am	2 3 2 0 3 0 2	3 3 1 2 2 3.
MS40 Salmon River	ver LS BA GEARY ^	11/2/2006 SOMES BAR MS	Perennial	2 Bar Bedrock Control	xeroriparian Flood No	2.0 5 North E	Every 100 years No	5 100 Medium Sand	5 81-90%	15 High Good Medium S	Stable N/A No	one Plant/no prep Madrone	e 6-10% Live Oak	0-5% Douglas Fir 0-5%	None 0-5% None	0-5% 0-5% 0-5% 05%	6-10% 61-70% Dyers Woad	0-5% None	0% None 0% I	Pump & Water System None Neede	ded Crossing A	Acceptable Somewhat Vegetated High n/a		Part of this Map may be on private property	11/2/2006 02:47:35pm	2 2 0 0 1 0 2	1 3 3 1 3 2 4
MS40 Salmon River		0/07/0000 507/0				40.0	- 100	- 40.14 " 0"	204 =204	4-1.5	2, 11	1-11	E: 0.50/ B: 1.44 1	2 - 2	DI 1000 C 10 TO	00/ 0.70/ 0.70/ 0.4.000	2/ -4 222/ 24 222/ 2	0.504						3levl terrace riv silt/covrd in bberry/grape/lg fir stumps	0/07/0000 44 44 00		
MS40 Salmon River	ver kg sh terrace across frm brazilfield 9 ver RW BD BELOW FORKS SCHOOL 9	9/27/2006 FORKS MS 9/29/2006 FORKS MS	Perennial Perennial	1 Terrace Braided 2 Bar Alluvual	mesoriparian Hood No	0.0 0 North E	Every 100 years No	0 0 No Trees Sand	9 61-70% 7 5 0% 7	15 High Good High S 10 Medium Good Medium S	Stable >10' Hai	ind Thinning Plant/no prep Douglas one Plant/no prep None	0-5% Bigleat Maple 0 0-5% None	0-5% Alder 0-5% 0-5% None 0-5%	None 0-5% None	0.5% 0.5% 0.5% 0.5% 0.5%	% 71-80% 21-30% Dyers Woad 0-5% 0-5% None	0-5% None 0% None	0% None 0%	Vveeding Mulching Pump & Water System None Neede	ded Yes A	Acceptable Somewhat Vegetated High Medium Acceptable Somewhat Vegetated Low n/a		burnt'87/new trees shaded out/pool blw	9/27/2006 11:14:09am 9/29/2006 09:44:28am	2 2 2 0 3 0 2	3 3 1 3 2 5.9 1 3 3 1 2 0 5
MS42 Salmon River MS45 Salmon River	ver BD LS MOUTH OF SALMON 10	0/25/2006 SOMES BAR MS	Perennial	2 Terrace Alluvual	xeroriparian Flood No	0.5 8 North E	Every 10 years No	0 150 Saplings Sand	12 61-70%	25 High Good Low S	Stable >10' No	ne Plant/no prep Madrone	e 0-5% Douglas Fir 0	0-5% Alder 0-5%	Bigleaf Maple 0-5% None	0-5% 0% 6-10% 6-10%	6 51-60% 11-20% Dyers Woad	0-5% None	0% None 0% I	Pump & Water System Mulching	Yes A	Acceptable Somewhat Vegetated High n/a		GREAT ASPECT BD SAYS 2 THUMBS WAY UP	10/25/2006 11:56:09am	2 3 2 0 1 0 2	3 1 1 3 2 5.
MS45 Salmon River	ver BA BD LS ABOVE HOUGIES HOLE 10	ORLEANS MS	Perennial	1 Bar Alluvual	mesoriparian Flood Yes	1.0 15 North E	Every 2-5 years No	30 100 Pole Sand	5 91-100%	12 High Good Medium S	Stable 5-10' No	one Plant/no prep Live Oak	c 6-10% Douglas Fir C	0-5% Cottonwood 0-5%	Bigleaf Maple 0-5% Alder	0-5% 21-30% 51-60% 11-20%	% 41-50% 0-5% Scotch Broom	0-5% Dyers Woad	0-5% None 0%	Pump & Water System None Neede	ded Yes A	Acceptable Somewhat Vegetated Medium n/a		THIS INFO IS FOR THE OTHER SIDE OF THE RIVER	10/26/2006 11:46:22am	2 2 2 0 1 3 2	3 0 1 3 2 5.2
	ver LS BA SOUTH SIDE R. 1	1/15/2006 MOUNTAIN MS	Perennial	2 Bar Alluvual	xeroriparian Flood No	2.5 20 North E	Every 10 years No	0 50 No Trees Loam	6 71-80%	10 High Good High S	Stable N/A No	one Plant/no prep Douglas	Fir 11-20% Alder 6	6-10% Madrone 0-5%	Ponderosa Pine 0-5% Bigleaf Mapl	le 0-5% 0-5% 31-40% 6-10%	6 21-30% 51-60% None	0% None	0% None 0% I	Pump & Water System None Neede	ded Crossing A	Acceptable Somewhat Vegetated High n/a		WHICH WE COULDN'T GET TO DUE TO HIGH FLOWS.	11/15/2006 03:15:16pm	2 2 2 0 1 0 2	3 1 1 3 2 5.
MS55 Salmon River	ver RW SH FRATE CLAIM	1/25/2007 ORLEANS MTN. MS	Perennial	2 Terrace Bedrock Control	mesoriparian Mining No	6.8 0 North N	Never No	100 140 Medium Sand	10 91-100% 5	50 High Good High S	Stable N/A No	one Plant/no prep Live Oak	x 11-20% Black/White Oak 6	6-10% Madrone 0-5%	Douglas Fir 6-10% None	0-5% 0-5% 0-5% 05%	5 71-80% 81-90% Tree of Heaven	0-5% None	0% None 0%	Pump & Water System Pump & Tan	ank System Yes A	Acceptable Well Vegetated Medium Medium	IVY PRESENT. CABLE	SOME WELL-VEGGED AREAS & SOME STERILE TAILING	1/25/2007 03:39:01pm	2 3 0 0 3 0 2	2 3 1 3 2 4.7
MS8 Salmon River	ver RW SH FONG WAH TERRACE	9/28/2006 FORKS MS	Perennial	2 Terrace Bedrock Control	xeroriparian Mining No	15.5 6 East E	Every 100 years No	40 100 Med/Large Sand	5 31-40%	35 Medium Good Medium S	Stable N/A Ha	andtools Much Development Live Oak	41-50% Black/White Oak 0	0-5% Douglas Fir 0-5%	Ponderosa Pine 0-5% Madrone	0-5% 21-30% 61-70% 6-10%	6 11-20% 21-30% None	0% None	0% None 0% I	Pump & Tank System Mulching	Work Needed A	Acceptable Somewhat Vegetated Medium Medium		PILES.	9/28/2006 12:14:54pm	2 3 0 0 3 0 2	2 3 1 2 0
N RUSSIAN 2A Salmon River	VEL BW IM NRUSSIAN	TANNERS 7/17/2006 PEAK North Russ	an Perennial	O Bar Alluvual	mesoriparian Mining No.	0.0 0 North E	Every 100 years No	0 0 No Trees Sand	5,0%	10 Medium Good Medium S	Stable N/A No.	nne Plant/no pren None	0-5% None	0-5% None 0-5%	None 0-5% None	0-5% 0-5% 0-5% 05%	0-5% None	0% None	0% None 0% I	Pump & Water System None Neede	ded Yes A	Acceptable Somewhat Vegetated Low In/a			7/17/2006 02:30:17pm		
TATACOCITATA CAITION TAVOL	TOTAL TOOLS IN THE TOTAL	ORLEANS North (Case)	dii i ciciiiai	o Bai Milavaai	mesonparian wining no	0.0 01401111 L	every 100 years 110	0 0 140 11CCS Cana	3 0 70	To Wediam Cood Wediam C	Otable 14/7	Tidity to prep Thoric	0 070 NOTIC	0 070 110110 0 070 1	THORE O 570 THORE	0 370 0 370 0 370	3 0 0 70 0 0 70 None	070 NOTIC	1 TOTIC 070	Tump & Water Gystem Hone Neede	103	rioceptable Comewhat regetated Low 11/a			771772000 02.00.17 pm		
NC 1 Salmon River	ver RW SH .33	1/25/2007 MOUNTAIN NORDHEII TANNERS	1ER Perennial	3 Terrace Bedrock Control	mesoriparian Mining No	0.3 10 North E	Every 100 years No	40 120 Medium Rock	5 31-40%	50 Medium Good Medium S	Stable N/A Ha	indtools Some Development Black/W	hite Oak 11-20% Live Oak 6	6-10% Douglas Fir 0-5%	None 0-5% None	0-5% 0-5% 31-40% 6-10%	6 21-30% 21-30% None	0% None	0% None 0% I	Pump & Tank System Pump & Wat	ater System N	N/A Somewhat Vegetated Medium Medium	TAILING PILE RECOVERY	ACROSS RIVER. TRAIL ACCESS RECLAIMED PLANTED MINING CLAIM. SM TAILING PILES	1/25/2007 11:27:04am	2 3 0 0 3 0 2	3 3 1 2 0
NF 04 Salmon River	ver LC KG JM NANCY'S	7/18/2006 PEAK NF	Perennial	0 Terrace Alluvual	xeroriparian Mining No	19.3 2 South E	Every 100 years No	20 40 Medium Loam	5 91-100%	0 High Good Medium S	Stable 5-10' No.	one Plant/no prep Pondero	sa Pine 21-30% Douglas Fir 2	21-30% Incense Cedar 0-5%	Black/White Oak 0-5% Sugar Pine	0-5% 0-5% 51-60% 05%	0-5% 71-80% None	0% None	0% None 0% I	None Needed None Neede	ded Work Needed A	Acceptable Somewhat Vegetated Low Medium	PLANTATION PINE	DWN RVR EXED FROM SITE.M	7/18/2006 02:16:31pm	2 3 2 0 3 0 2	0 3 1 3 2 4
NF 08 Salmon River	/er LC LS NF ABV SCHOOL HOLE	7/25/2006 SAWYERS BAR NF	Perennial	1 Terrace Alluvual	xeroriparian Mining No	14.2 65 South E	Every 100 years No	5 30 Med/Large Loam	10 81-90%	25 Medium Good Medium L	Unstable N/A No	one Some Development Douglas	Fir 11-20% Ponderosa Pine 6	6-10% Alder 0-5%	Black/White Oak 0-5% Live Oak	0-5% 0-5% 51-60% 6-10%	6 0% 0% Dyers Woad	0-5% None	0% None 0% I	Pump & Water System Mulching	Yes A	Acceptable Somewhat Vegetated Medium Medium		CUT BANK OUT OF RIV M TAILS ABOVE	7/25/2006 09:04:34am	2 3 2 0 3 0 0	0 3 1 2 2 4.7
INF 12 Salmon River	/er SL LS JACKASS	1/21/2006 SAWYERS BAR INF	Perenniai	1 Bar Alluvual	mesoriparian Mining Yes	13.0 20 North N	Never INO	0 10 Large Rock	1 /1-80%	50 Low Good Medium C	Unstable IVA INO	one Iviuch Development (Alder	31-40% Douglas Fir	6-10% Bigleaf Maple 6-10% I	Black/Wnite Oak 0-5% Ponderosa F	Pine 0-5% 0-5% 81-90% 11-20%	% 11-20% 0-5% None	U% None	U% INONE U%	Pump & rank System Mulching	Crossing F	Hard Somewhat vegetated Low Medium		SITE VARYS BAR TAILINGS POND FLAT TO STEEP flooding occurs at upstream south side some scouring	7/27/2006 09:59:26am	2 2 2 0 3 3 2	3 3 1 0 2 7.7
NF 17 Salmon River	ver sl kg island bar below jims bridge	7/28/2006 SAWYERS BAR NF	Perennial	3 Bar Braided	xeroriparian Flood Yes	12.5 2 North E	Every 100 years No	3 10 Medium Sand	3 61-70%	10 Medium Good Medium S	Stable N/A No	one Plant/no prep Alder	31-40% Bigleaf Maple 0	0-5% Douglas Fir 0-5%	None 0-5% None	0-5% 0-5% 0-5% 11-20%	% 21-30% 0-5% Dyers Woad	0-5% Spotted Knapwee	ed 0% None 0% (Gravity System Mulching	Crossing H	Hard Somewhat Vegetated Low Medium		glasgow refugia upstream of site	7/28/2006 03:43:09pm	2 2 1 0 1 3 2	2 3 1 2 2 4.
																								FLAT ON INSIDE OF RVR BEND. COUPLE LRG ALDER ON BAR BUT MST VEG BCK ON FLAT. CHNL GETS TOPO			
NF 25 Salmon River	ver LC SL ABV WINDLER 8	8/17/2006 SAWYERS BAR NF	Perennial	2 Bar Alluvual	mesoriparian Flood No	9.2 12 East E	Every 100 years No	30 80 Medium Sand	5 61-70%	8 High Good Medium S	Stable N/A No	one Plant/no prep Alder	11-20% Douglas Fir	0-5% Ponderosa Pine 0-5%	Black/White Oak 0-5% None	0-5% 0-5% 21-30% 05%	31-40% 51-60% None	0% None	0% None 0% I	Pump & Water System Mulching	No A	Acceptable Somewhat Vegetated Medium n/a		SHADE.	8/17/2006 11:27:39am	2 2 2 0 1 0 2	2 3 1 3 2 3
NF14 Solmon Biyor	ver KG SL Bottom jackass bar #3	7/28/2006 SAM/VEDS DAD NE	Doronnial	1 Bar Allungol	mesorinarian Flood No.	12.7 11 11 11/204	Every 100 years No	3 5 Modium Sond	5 81_000/	10 High Good Modium	Stable N/A No.	Diant/no prop	11-20% Daugles Eir	11-20% Pandarasa Pina 44-200/	Rideaf Manle 10.5% Cottonwood	0.5% 0.5% 31 40% 34 30%	96 11-5096 21-209/ Dyoro Mood	6-10% None	0% None 0%	Mulching None None	ded Voc	Acceptable Somewhat Vacatated Madium Llich		well vegd Xcept openng top site-2nd layer planting helpful- side chnl N runs in hi flow	7/28/2006 10:14:520		
NF19 Salmon River		8/15/2006 SAWYERS BAR NF	Perennial	2 Terrace Alluvual	mesoriparian Flood No	12.7 11 West E	Every 100 years No	5 70 Saplings Sand	10 81-90%	10 High Good Medium S	Stable N/A No	one Plant/no prep Douglas	Fir 0-5% Ponderosa Pine 0	0-5% Alder 0-5%	None 0-5% Cottonwood None	0-5% 0-5% 6-10% 6-10%	6 41-50% 0-5% Dyers Woad Dyers Woad	0-5% None	0% None 0% I	Pump & Water System Pump & Water System	ater System Yes A	Acceptable Somewhat Vegetated Medium Medium		HI H2O CHNL BTN TERRACE & RD.	8/15/2006 12:26:41pm	2 3 2 0 1 0 2	3 3 1 3 2 5
NF21 Salmon River	er RW JM KELLY BAR	8/15/2006 SAWYERS BAR NF	Perennial	2 Bar Alluvual	mesoriparian Flood No	11.8 2 West E	Every 10 years No	3 150 Medium Sand	10 81-90%	6 Medium Good High S	Stable N/A No	one Plant/no prep Alder	0-5% Douglas Fir 0	0-5% Ponderosa Pine 0-5%	None 0-5% None	0-5% 0-5% 6-10% 41-50%	% 21-30% 0-5% Dyers Woad	0-5% None	0% None 0% I	Pump & Water System Pump & Water System	ater System Yes A	Acceptable Somewhat Vegetated High Medium			8/15/2006 02:21:57pm	2 2 2 0 1 0 2	3 1 1 2 2 6.
NF22 Salmon River	er RW SL NORTH FORK	8/16/2006 SAWYERS BAR NF	Perennial	2 Bar Alluvual	mesoriparian Flood Yes	11.0 7 East E	Every 10 years No	5 80 Medium Sand	10 51-60%	10 Medium Good High S	Stable N/A No	one Plant/no prep Alder	21-30% Bigleaf Maple	0-5% None 0-5%	None 0-5% None	0-5% 0-5% 51-60% 6-10%	6 0-5% 0-5% None	0% None	0% None 0%	Gravity System Mulching	Yes A	Acceptable Somewhat Vegetated High Medium		06 flood broke bent alders in high H2O area they are still growing. Ig alders taken out in refugia	8/16/2006 08:37:30am	2 2 2 0 1 3 2	. 3 1 1 2 2 5
					- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1																	- in the second of the second		LNF Refugia area: 06 FLOOD TOOK OUT SEVERAL	3, 13, 233 333 333 33		
NF23 Salmon River	ver RW SL NORTH FORK 8	8/16/2006 SAWYERS BAR LNF	Perennial	0 Bar Alluvual	mesoriparian Flood Yes	11.0 8 West E	Every 10 years Yes	0 0 Pole Rock	0 0%	0 Medium Good Medium S	Stable N/A No	ne Plant/no prep Alder	0-5% None 0	0-5% None 0-5%	None 0-5% None	0-5% 0-5% 0-5% 05%	5 0-5% 0-5% None	0% None	0% None 0% I	None Needed None Neede	ded Yes A	Acceptable Somewhat Vegetated High Low		(PERENIAL) ALDERS . PHOTOS 41& 42.KV NORTH END HIGH FLOOD POTENTIAL. MIDDLE OF SITE	8/16/2006 10:45:43am	2 2 2 0 1 3 2	3 1 0 2 0
																								WOULD SHADE IF PLANTED ONLY IN AM. SOUTH END			
NF31 Salmon River	ver RW SH RED BANK	8/30/2006 SAWYERS BAR NF	Perennial	2 Bar Alluvual	mesoriparian Flood No	7.0 0 North E	Every 10 years No	10 300 Medium Sand	7 71-80%	10 High Good Medium S	Stable N/A No	one Plant/no prep Pondero	sa Pine 0-5% Alder 0	0-5% Cottonwood 0-5%	Live Oak 0-5% Incense Ced	dar 0-5% 0-5% 0-5% 05%	5 71-80% 0-5% Dyers Woad	0-5% None	0% None 0% I	Pump & Water System None Neede	ded Crossing A	Acceptable Somewhat Vegetated Medium Medium		ALREADY OLD HOMESTEAD. RECLAIMED MINING AREA. BEST	8/30/2006 11:15:56am	2 2 2 0 1 0 2	3 1 1 3 2 4.5
NF40 Salmon River	ver RW LS SAWPIT	9/6/2006 SAWYERS BAR NF	Perennial	3 Bar Alluvual	mesoriparian Mining No	3.9 0 North E	Every 100 years No	20 120 Medium Sand	20 71-80%	25 High Good High S	Stable N/A No	one Plant/no prep Pondero	sa Pine 6-10% Live Oak	0-5% Black/White Oak 0-5%	Douglas Fir 0-5% Incense Ced	dar 0-5% 0-5% 11-20% 05%	6-10% 31-40% Dyers Woad	0-5% Starthistle	6-10% None 0% I	Pump & Water System Pump & Tan	ank System Yes A	Acceptable Somewhat Vegetated Medium Medium		SHADE POTENTIAL-WEST END.	9/6/2006 12:03:35pm	2 2 2 0 3 0 2	3 3 1 3 2 4
	DW OIL	4/00/0007 00M50 DAD		0.7		0.0 45 4 5	- 400 N	0 400 M .!'	40.74.000/	40151	0.11	Di 1/	04.000/ 14.1	0.50/	D 50/ N	0.50/ 0.50/ 44.500/ 0.50/	0.50/	00/	00/	D 0.11/1 0 1 D 0.T	1.0 /			RECENTLY BURNT.LOW INTENSITY ACCESS 1/4 MI	4/00/0007 00 47 45		
SF 35 Salmon River	ver SH LS ST CLAIRE REFUGIA	9/19/2006 CECILVILLE ST CLAIRE	Perennial	2 Terrace Alluvual 3 Bar Alluvual	mesoriparian Flood No xeroriparian Mining Yes	2.2 1 East E	Every 100 years No	0 0 Medium Bedrock	10 71-80%	10 High Good High S	Stable N/A No	one Plant/no prep Alder one Plant/no prep Alder	21-30% Madrone C 21-30% Ponderosa Pine C	0-5% Cottonwood 6-10% 0-5% Douglas Fir 0-5%	Bigleaf Maple 0-5% None	0-5% 0-5% 41-50% 05%	5 0-5% 0-5% 6 6-10% 6-10% None	0% None		Pump & Water System Pump & Tan Pump & Water System None Neede		Acceptable Well Vegetated Medium Medium Acceptable Somewhat Vegetated Low n/a		HIKE. UNDER PUBLIC EYE. TAKEN FROM ACROSS ACCESS PRIV PROP GOOD REF BY BDRK	9/19/2006 03:47:45pm 9/19/2006 03:21:21pm	2 2 2 0 1 0 2	1 3 3 1 0 0
		TOMPSON																									
SF10 Salmon River SF11 Salmon River	ver DP LS PETERSBERG	7/21/2006 PEAK SF	Perennial Perennial	0 Bar Braided 4 Bar Alluvial	mesoriparian Flood No	23.0 0 North E	Every 10 years No Every 100 years No	0 50 Saplings Sand 2 60 Saplings Sand	8 61-70% 12 41-50%	8 High Good High S	Stable N/A No.	one Plant/no prep Pondero pne Plant/no prep Pondero	sa Pine 0-5% Alder 0	0-5% Cottonwood 0-5% 1 0-5% None 0-5% 1	None 0-5% None No	0-5% 0-5% 0-5% 05%	0-5% 0-5% None 0-5% 0-5% Dvers Woad	0% None 0-5% None	0% None 0% 0 0% None 0% I	Gravity System Mulching Pump & Water System Mulching	No A	Acceptable Somewhat Vegetated High n/a Acceptable Somewhat Vegetated Medium Low		NO SAT ON S END DREW ON MAP LOTS ALDER ALONG RVR MARGIN	7/21/2006 12:02:08pm 7/21/2006 12:48:01pm	2 2 1 0 1 0 2	3 1 1 3 2 5.7
Of 11 Caminon 14001	TETERODERO	772172000 1 0 0140 0 1 2744 01	1 Grorinar	, mavaar	AOTOTIPATIAN TIOCA ITO	22.0 2 77001 2	every 100 yours 110	2 00 Supingo Cana	12 11 0070	TZ T ligit Cood Low C		Tiditatio prop		0 070	THORIS O O70 THORIS	0 0 70 0 0 70 0 0 70	by 0 070 0 070 Dyolo woda	O O 70 INCHO	110110 070 1	T drip a vvator System Ividioring	100 /	Nooptable Comownat vogotated Woaldin Low		FULL GROWN CONIFERS NEEDED TO PROVIDE	772 172 000 12. 10.0 1pm		
SF13 Salmon River	ver LC LG INDIAN CMPGRND 9	9/11/2006 FORKS SF	Perennial	0 Terrace Bedrock Control	xeroriparian Mining No	0.5 5 North N	Never No	10 100 Medium Loam	1 51-60%	10 Medium Good Medium S	Stable No.	one Some Development Live Oak	c 6-10% Douglas Fir C	0-5% Ponderosa Pine 0-5%	Black/White Oak 0-5% None	0-5% 0-5% 0-5% 6-10%	6 0-5% 71-80% Starthistle	11-20% Tree of Heaven	0-5% None 0% I	Pump & Water System Mulching	Yes A	Acceptable Somewhat Vegetated Low Medium		RIPARIAN SHADE LOTS OF BEDROCK. MAY BE DIFFICULT TO GET	9/11/2006 11:07:24am	2 3 0 0 3 0 2	3 3 1 2 2
SF14 Salmon River	ver LC LG 1 MILE	9/11/2006 FORKS SF	Perennial	1 Bar Alluvual	mesoriparian Mining No	1.0 20 East A	Annually No	0 60 Med/Large Sand	5 71-80%	5 Medium Good Medium S	Stable N/A No	one Plant/no prep Pondero	sa Pine 0-5% Live Oak 6	6-10% Alder 0-5%	Douglas Fir 6-10% None	0-5% 0-5% 11-20% 6-10%	6 11-20% 0-5%	6-10% None	0% None 0% I	Pump & Water System Mulching	No A	Acceptable Somewhat Vegetated Medium Medium		LARGER TREES ESTABLISHED.	9/11/2006 12:26:02pm	2 2 2 0 3 0 2	2 0 1 2 2
SF18 Salmon River	ver SH LS WINDY BAR	9/12/2006 YOUNGS PEAK SF	Perennial	1 Bar Braided	xeroriparian Flood Yes	4.0 0 North E	Every 100 years No	0 100 Med/Large Sand	4 41-50%	10 High Good Medium S	Stable 0-2' Ha	and Thinning Some Development Alder	6-10% Madrone 0	0-5% Ponderosa Pine 0-5%	Bigleaf Maple 0-5% Douglas Fir	0-5% 0-5% 51-60% 05%	51-60% 0-5% Dyers Woad	0-5% Starthistle	0-5% None 0% I	Pump & Water System Mulching	Yes N	N/A Somewhat Vegetated Medium n/a		ROAD RUNS THRU HIGH ACTIVITY	9/12/2006 11:22:13am	2 2 1 0 1 3 2	3 3 1 3 2 4.
		AND																						SLOPED TAILINGS WOULD NEED MACHINE WORK FLR			
SF22 Salmon River	ver SH LS BLW METHODIST 9	9/12/2006 CECILVILLE SF	Perennial	2 Terrace Alluvual	xeroriparian Mining No	5.0 10 North E	Every 100 years No	0 150 Large Rock	1 41-50%	45 Medium Good Medium L	Unstable N/A Ma	achine work Much Development Madrone	e 6-10% Black/White Oak 0	0-5% Ponderosa Pine 0-5%	Alder 0-5% Ponderosa F	Pine 0-5% 0-5% 41-50% 11-20%	% 6-10% 0-5% Starthistle	0-5% None	0% None 0% I	Pump & Water System Mulching	Yes A	Acceptable Somewhat Vegetated Medium Medium		POT ACCES RD QUESTIONABLE IF OPEN	9/12/2006 01:44:12pm	2 3 2 0 3 0 2	3 3 1 2 2 4.
		YOUNGS PEAK AND																									
SF23 Salmon River		9/12/2006 CECILVILLE SF	Perennial	2 Bar Alluvual	mesoriparian Other No	6.0 45 North E	Every 100 years No	0 100 Medium Silt	5 91-100%	20 High Good Medium S	Stable 3-5' Ha	andtools Some Development Live Oak	c 0-5% Alder 0	0-5% Black/White Oak 0-5%	Bigleaf Maple 0-5% Madrone	0-5% 0-5% 21-30% 71-80%	% 0-5% 11-20% Starthistle	6-10% None	0% None 0% I	Pump & Tank System Mulching	Yes A	Acceptable Somewhat Vegetated Medium Medium	REMOVE BARBED WIRE		9/12/2006 03:01:11pm	2 2 2 0 0 0 2	3 3 1 3 2 5
SF27 Salmon River	OLD JUGHAED CLAIM Ver kg sh 9 25rd mile	9/13/2006 CECILVILLE SE	Perennial	1 Terrace Alluvual	upland Mining No.	9.4 4 South N	Jever No	60 85 Med/Large Clay	2 21-30%	5 Medium Good Low	Stable 0-2' Ma	achine work Much Development II ive Oak	6-10% Douglas Fir	0-5% Douglas Fir 0-5%	Incense Cedar 10-5% Black/White	Oak 0-5% 0-5% 11-20% 11-20%	% 0-5% Starthistle	0-5% None	0% None 0% 1	Pump & Tank System None Neede	ded Yes A	Acceptable Somewhat Vegetated Medium Low	just add soil+water will	see fieldbookSF1pg21- lg tailings pockets of trees+soil - 4minng chnls-shades river-trash at mine sit	9/13/2006 10·50·01am		
	bar in bend blw lwr plummer	S, 10,2000 OLOILVILLE OI	I Giorniai	TITOTIQUO Miluvuai	apiana IVIIIIII IV	J TOUGHT IN	TWO	55 55 NICW Large Olay	2 2 1 30 /0	Siviodiditi Good Low G	U-Z IVId	2013110 WOIN INTOOL DEVELOPHIELL LIVE OUR	. O 1070 Douglas I II C	5 570 Douglas I II	moonee dedai 0-070 DidoN WHILE	San 0 0 /0 11-20 /0 11-20 /	, o o o o o o o o o o o o o o o o o o o	U U I I I I I I I I I I I I I I I I I I				A SSOPTABIO SOMEWHAL V OGGLATEG IVIGUIUM LOW	, over	soilless talings upstrm2/3 of site- bot 1/3sand+silt-opening	5, 15, 2000 10.00.01aiii		
sf30 Salmon River	ver kg sh rd s	9/13/2006 CECILVILLE SF	Perennial	1 Terrace Alluvual	xeroriparian Mining Yes	12.8 1 West E	Every 100 years No	0 5 Large Sand	3 21-30%	7 Medium Good Medium S	Stable 0-2' No	one Plant/no prep Alder	0-5% Ponderosa Pine 0	0-5% Live Oak 0-5%	Douglas Fir 0-5% Black/White	Oak 0-5% 0-5% 21-30% 11-20%	% 0-5% 0-5% None	0% None	0% None 0% I	Pump & Water System Mulching	Work Needed A	Acceptable Somewhat Vegetated Medium Medium	flatton recent toilings	cold b plntd-lg deep pool bot lg trees loggd by miners?lg trees piled by cat-was healthy-3terraces-	9/13/2006 03:20:06pm	2 3 2 0 3 3 2	2 3 1 2 0 5.7
sf36 Salmon River	ver kg sh bar cross riv bot cecil privat	9/20/2006 CECILVILLE SF	Perennial	4 Floodplain Braided	xeroriparian Mining No	15.8 2 West E	Every 10 years No	3 10 Large Sand	10 51-60%	10 High Good High S	Stable >10' No	one Plant/no prep Pondero	sa Pine 0-5% Alder 0	0-5% Douglas Fir 0-5%	Live Oak 0-5% Black/White	Oak 0-5% 0-5% 6-10% 05%	0-5% 0-5% Dyers Woad	11-20% None	0% None 0% I	Mulching None Neede	dedWork Needed A	Acceptable Somewhat Vegetated High Low	flatten recent tailings- redistrib soil		9/20/2006 10:33:48am	2 1 1 0 3 0 2	2 1 1 3 2 5
																								top1 forestd-some good soil deposits BIG TAILINGS NO SOIL - TRENCHES WITH POCKETS OF			
SF42 Salmon River	er LC KG BD INDIAN CROSSING	9/21/2006 FORKS SF	Perennial	2 Terrace Bedrock Control	xeroriparian Mining No	1.0 16 West F	Every 100 years No	50 70 Pole Rock	15 91-100%	40 Low Good Low S	Stable >10' Ma	achine work Much Development Douglas	Fir 6-10% Live Oak	0-5% Ponderosa Pine 0-5%	Sugar Pine 0-5% Madrone	0-5% 0-5% 21-30% 11-20%	% 0-5% 0-5% None	0% None	0% None 0% I	Pump & Water System Pump & Tan	ank System Yes	Hard Somewhat Vegetated Medium Medium	WATER EXISTING VFG	TREES - MORE SOIL DWNSTRM - LG TREES WLD SHADE H2O	9/21/2006 10:41:03am	2 3 0 0 3 0 2	$\begin{bmatrix} 1 & 2 & 3 & 1 & 0 & 2 \end{bmatrix}$
33	glasgow bar below missouri							7, 5,5																			
sf43 Salmon River	ver lc kg bd bar	9/21/2006 FORKS SF TOMPSON	Perennial	3 Terrace Bedrock Control	xeroriparian Mining No	1.5 20 North E	Every 100 years No	18 30 Pole Loam	3 81-90%	5 High Good High S	Stable 3-5' No	one Plant/no prep Pondero	sa Pine 6-10% Douglas Fir 0	0-5% Black/White Oak 0-5%	Bigleaf Maple 0-5% None	0-5% 0-5% 11-20% 21-30%	% 41-50% 81-90% Starthistle	21-30% None	0% None 0% I	Pump & Water System Pump & Tan	ank System Yes A	Acceptable Somewhat Vegetated High Medium		15 yr old p.pine upstrm side - eroded gully thru site	9/21/2006 12:10:35pm	2 3 0 0 3 0 2	3 3 1 3 2
SF56 Salmon River	ver RW SH SUMMERVILLE	2/1/2007 PEAK SF	Perennial	2 Bar Alluvual	mesoriparian Flood No	24.5 3 North E	Every 100 years No	4 100 Pole Sand	4 31-40%	12 Medium Good High S	Stable No.	one Plant/no prep Alder	41-50% Ponderosa Pine	0-5% Douglas Fir 0-5%	None 0-5% None	0-5% 0-5% 31-40% 31-40%	% 11-20% 21-30% None	0% None	0% None 0% I	Pump & Water System Mulching	No A	Acceptable Somewhat Vegetated Medium Medium		REDD-ACCESS ON FOOT. FLOOD SIGN FROM /97.	2/1/2007 01:09:27pm	2 2 2 0 1 0 2	3 3 1 2 0
QEEO Calman Disco	OT DOLL DETERORIDO CAMP	TOMPSON SE	Doronnial				Eveny 100 years No	15 00 Madium 05-3	5	10 Medium Good Medium S	Stable NI/A	Danalous	on Pino	Aldon O 50/	None O FO/ Name	0.59/	O 50/ Non-	00/ None			V22	Accontable Computat Versited Mading Mading		DATA EDOM ACDOSS BIVED	2/1/2007 02:40:22		
SF58 Salmon River	ver RSH PETERSBURG CAMP	ZI II ZUUT PEAK SF	rerenniai	2 Bar Alluvual	mesoriparian Flood No	22.4 1 North E	every 100 years INO	15 80 Medium Sand	5 '	rojiviedium S	Stable IVA	Pondero	sa Pine Douglas Fir	Aluer U-5%	U-5% NONE	U-3%	0-5% None	U% INONE	U% NONE U%	Pump & Water System Mulching	Y es A	Acceptable Somewhat Vegetated Medium Medium	LOTS OF TAILING PILES.	DATA FROM ACROSS RIVER	Z/ 1/ZUU/ U3:4U:ZZPM	2 2 2 0 1 0 2	3 3 1 2 0
	DW 011	GRASSHOPPE GRASSHOPPE									0.11		5										SILT FLATS. MAN MADE	DIV (EDGE GITE	0/=/0.50=		
0500		2/1/2007 R RIDGE SF 2/7/2007 SAWYERS BAR SE	Perennial	2 I errace Bedrock Control 2 Bar Alluvial	mesoriparian Mining No	22.0 3 East Events 21.5 3 East Events	Every 100 years No Every 100 years No Every 100 years No	10 130 Medium Silt 20 150 Med/Large Sand	2 31-40% 5 71-80%	1 Medium Good Medium S 15 Medium Good Medium S 10 Medium Good High S	Stable 3-5' Hai	andtools Plant/no prep Pondero one Plant/no prep Pondero	sa Pine 11-20% Alder 6 sa Pine 21-30% Douglas Fir 0	6-10% Douglas Fir 0-5% 0-5% Alder 0-5%	Vone 0-5% Madrone None 0-5% None	0-5% 0-5% 21-30% 21-30% 0-5% 0-5% 0-5% 11-20%	% 21-30% 61-70% None 81-90%	U% None	0% None 0% (Gravity System Mulching Pump & Water System Mulching Pump & Water System None Neede Pump & Tank System	Yes A	Acceptable Somewhat Vegetated Medium Medium Somewhat Vegetated Medium Me	DAMS/POOLS.	DIVERSE SITE. ACCESS SEE SF61	2///2007 11:43:37am 2/7/2007 02:31:09pm	2 3 0 0 3 0 2 2 2 2 0 3 0 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
SF60 Salmon River SF62 Salmon River	011 011 011 0111 011110	11/9/2006 VOLINGS SE	Perennial	1 Bar Alluvual	mesoriparian Mining No	3.2 45 East E	Every 100 years No	20 150 Med/Large Sand 2 15 Medium Loam	5 71-80%	10 Medium Good High S	Stable N/A No	nne Plant/no prep Alder	51-60% Douglas Fir 0	0-5% None 0-5%	None 0-5% None	0-5% 0-5% 61-70% 51-60%	% 41-50% 51-60% Starthistle	6-10% None	0% None 0%	Pump & Water System None Neede	ded Yes A	Acceptable Well Vegetated Medium n/a		STEEP BANK BELOW ROAD EXSTING TREES DONT SHADE H2O.	11/9/2006 02:30:03pm	2 2 2 0 3 0 2 2 2 2 0 3 0 2	2 3 1 2 2
SF60 Salmon River SF62 Salmon River SF87 Salmon River Salmon River	ver RW SH MP 2 ver SH BA RETAINING WALL ver STAFF Across from Gallia	11/9/2000 1001000	1. 0.01			The state of the s	very 100 years	1			Stable N/A Ha	undtools Plant/no prep Pondero	 		1 10110	0 0 70 0 0 70 0 1 1 0 70 0 1 0 0 7	70 11 0070 01 0070 01011	0 1070 110110		<u> </u>		· · · · · · · · · · · · · · · · · · ·		· ·	6/30/2006 12:21:25pm		