Date: 1/21/21 – 1/26/21

Observer(s): Montana Pagano & Katie Frenyea
Contracting Officer(s): Katie Frenyea

Nez Perce Tribe Fisheries – Watershed Division
DAILY OBSERVATION REPORT

SITE(S): Tamkaliks
LOCATION: Wallowa River, Wallowa, Oregon
CONTRACT NO: BPA 74017 REL 51; OWEB 219-5026
CONTRACTOR: Steve Lindley Construction
CONTRACTOR SUPERINTENDENT: Pierce Sernett
TEMPERATURE: **1/21:** 31° F; **1/25:** 21° F; **1/26:** 29° F
WEATHER: **1/21:** snowing; **1/25:** mostly sunny; **1/26:** mostly sunny
SHIFT HOURS: **1/21:** 10:15 – 16:00; **1/25:** 08:30 – 14:30; **1/26:** 08:30 – 15:30

DESCRIPTION OF WORK AS PER-BID ITEM:

A.1 – SMALL BOULDERS:

A.2 – LARGE BOULDERS:

A.3 – 8" MINUS WASHED DRAIN ROCK MATERIAL:

C.1 – MOBILIZATION:

C.2 – COFFERDAMS:

In preparation for summer in water work, approximately 160 isolation gravel bags were filled with excess excavation material from side channel (SC) 3 and stored on site concurrent with excavation activities

C.3 – PUMPING AND DEWATERING: 6" pump operational in ditch plug area (1/21) and downstream SC-1 channel node (1/25-current). Water was discharged into the adjacent ditch. No erosion was observed.

C.4 – SURVEYING:

C.5 – CLEARING AND GRUBBING (INCLUDES PLANT SALVAGE AND REPLANT):

C.6 – ENVIRONMENTAL PROTECTION:

C.7 – ESC PLAN AND TEMP DRAINAGE FACILITY:

C.8 – EARTHWORK AND OFFSITE HAUL AND DISPOSAL:

A large extent of SC2 and SC3, and sections of SC1 were excavated. SC2 was excavated near its connection point with SC1, up to the inlet plug. SC3 was excavated from below the inlet plug (upstream), downstream near the connection point with SC1 (Figure 2). SC1 excavation has been done in a downstream to upstream approach.

Some cobble/alluvium sorting from SC3 excavated material was conducted (Figure 1). Offsite general fill and onsite topsoil haul was ongoing as side channels were excavated.

C.9 – BEDROCK WORK AND OFFSITE HAUL AND DISPOSAL:

C.10 – FLOODPLAIN ROUGHNESS GRADING:

C.11 – DITCH PLUGS:

C.12 – MAINCHANNEL BOULDER PLACEMENT (INSTALL ONLY):

C.13 – RIFFLE CONSTRUCTION:

C.14 – DRAIN ROCK CONSTRUCTION:

C.15 – WILLOW TRENCH (INSTALL ONLY):

C.16 – BRUSH BANK TREATMENT (INSTALL ONLY):

C.17 – SIDE CHANNEL INLET HABITAT STRUCTURE (INSTALL ONLY):

C.18 – SIDE CHANNEL WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

C.19 – ALCOVE WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

C.20 – FLOODPLAIN ROUGHNESS (INSTALL ONLY):

C.21 – PLANTING, SEEDING, AND DECOMPACTION:

PERTINENT CONVERSATIONS WITH THE CONTRACTOR & OTHER ISSUES:

1/21: The contractor was awaiting arrival of PPI, the excavator GPS manufacturer, to conduct maintenance on the 245 excavator as that system has not been functioning properly, and therefore use of that machine has been limited to activities that don't require GPS. It was determined in the afternoon PPI was expected to service the machine on Saturday. Prior to my arrival, Beau informed me that they had laid down another layer of geotextile fabric and rock fill material on the access road into the project area. KF and JF discussed regarding the compacted access road areas adjacent to the side channels. These areas should be "fluffed" to allow for planting and to be certain the side channel bank line has not been altered. BW and KF discussed the off-site spoils area regarding communication and preferences with the landowner; specifically that material should be sorted and graded when piles reach a high level. BW indicated they would grade before the end of the work day 1/22. KF verified 1/25/2021. Angela Bombaci visited the site to discuss spoils. MP, BW, KF, and PS were present. AB located the location where excess top soil should be stockpiled. MP, BW, KF, JF, and PS then visited the downstream upcoming sweat lodge area. JF confirmed through visual assessement the stability of the channel and

adjacent floodplain and indicated it should be stable and a low flood risk. Contractor will fill and grade the area with excess spoils at a later date.

1/22: Beau informed us that due to warm/muddy conditions on site, minimal work would be accomplished today, and in order to prevent from working over-time, they would only work 6 hrs today. The work plan for the day, if conditions allowed, would be to haul topsoil from the pile located in the staging area within the project area, across the road to the longer-term Homeland Project storage location. Smoothing out the haul road throughout the project area in preparation for colder temperatures over the weekend would also occur.

1/25: KF and PS call – 9:30 a.m. KF approved using e-mail format to inform scheduling. SC-2 complete. ~90 super sacks were filled with excess spoils material. SC-1 access near confluence of SC-3, ending at station 7+54.

1/26: Beau said due to warm/muddy site conditions there was some loss in fill haul production – short ~200 cy of fill haul for the day because of mud. However, they were able to fill ~75 gravel bags, and excavated SC1 from ~Station 800+00 up to ~Station 600+00.

From 12:30 – 13:30 MP & KF participated in an on-site interview with Ellen Bishop. The interview consisted of Q&A about how the project came to be, as well as why and how it's being completed. Construction was halted while we walked the site during the interview, however, maintenance was conducted on the CAT 336 during this downtime. PPI also came out on site today and maintenance the GPS system on the John Deere 245 and were able to get it working within the acceptable limits for construction purposes.

1/27: Today's work entailed much of the same as 1/26; SC1 excavation, fill haul, and finishing up gravel bag filling (need <200 bags total).

DAILY LABOR SUMMARY

Name	Company or Agency	Activities
Beau Wicklander, Charlie Roe, Carl Powatkee, Eli Childs, Rancy Williams, Beau Thompson,	SLC	Side channel excavation, hauling of fill, cobble sorting, gravel bag filling and access road improvements

Jayden McClure, Mike Matiaco, and Donny Stone		
Montana Pagano	NPT	Construction observation
Katie Frenyea	NPT	Construction observation

DAILY EQUIPMENT SUMMARY

Equipment	Make/Model	Activities
Excavator	John Deere 245	Sand bags
Excavator	CAT 336	Channel excavation
Backhoe Loader	John Deere 544	Sand bags
End Dumps	4 Various makes and models	Fill haul

Figure 1. Sorted cobbles from SC3 fill. 4” rock sifter utilized.

Figure 2. The CAT 336 excavating downstream in SC3 and placing fill material (general fill) in the end dump for haul off site.

DELIVERABLE DISTRIBUTION

ELECTRONIC COPY OF THIS FORM SUBMITTED BY EMAIL TO THE FOLLOWING:

Name	Agency	Email	Responsibility
Kate Frenyea	NPT	kathrynf@nezperce.org	Contracting Officer, Funding Sponsor
Montana Pagano	NPT	montanap@nezperce.org	COR, Construction Observation
Emmit Taylor	NPT	emmitt@nezperce.org	Watershed Division, Director
Jeff Fealko	Rio	jeff@rioase.com	Project Engineer
Pierce Sernett	SLC	slcestimator@gmail.com	Construction Superintendent
Lee Ricker	SLC	rickerlj@gmail.com	Project Manager
Beau Wicklander	SLC	b.wicklander68@gmail.com	Construction Foreman
Tracy Hauser	BPA	tlhauser@bpa.gov	Project COTR
Chris Nygaard	BPA	cjnygaard@bpa.gov	F&W Program Engineer

Sean Welch	BPA	spwelch@bpa.gov	Tributary Habitat Policy Lead, Engineer
Travis Kessler	BPA	tdkessler@bpa.gov	Environmental Compliance Lead / Funding Agency
Ian Wilson	GRMW	ian@grmw.org	Wallowa County Project Coordinator
John Stevenson	USFWS	john_stephenson@fws.gov	Fish and Wildlife Biologist
Bill Lind	NOAA	Bill.lind@noaa.gov	NOAA Fisheries, Southern Snake Branch Chief
Sarah Fesenmyer	NOAA	Sarah.fesenmyer@noaa.gov	NOAA Fisheries, Natural Resources Specialist
Jeff Yanke	ODFW	jeff.yanke@state.or.us	District Fish Biologist
Kyle Bratcher	ODFW	kyle.w.bratcher@state.or.us	Assistant District Fish Biologist

Date: 1/28/21 – 2/8/21

Observer(s): Montana Pagano & Katie Frenyea
Contracting Officer(s): Katie Frenyea

Nez Perce Tribe Fisheries – Watershed Division
DAILY OBSERVATION REPORT

SITE(S): Tamkaliks
LOCATION: Wallowa River, Wallowa, Oregon
CONTRACT NO: BPA 74017 REL 51
CONTRACTOR: Steve Lindley Construction
CONTRACTOR SUPERINTENDENT: Pierce Sernett
TEMPERATURE: **1/28:** 28° F
WEATHER: **1/28:** Partly cloudy
SHIFT HOURS: **1/28:** 10:15 – 16:00

DESCRIPTION OF WORK AS PER-BID ITEM:

A.1 – SMALL BOULDERS:

A.2 – LARGE BOULDERS:

A.3 – 8" MINUS WASHED DRAIN ROCK MATERIAL:

C.1 – MOBILIZATION:

C.2 – COFFERDAMS:

C.3 – PUMPING AND DEWATERING:

C.4 – SURVEYING:

C.5 – CLEARING AND GRUBBING (INCLUDES PLANT SALVAGE AND REPLANT):

C.6 – ENVIRONMENTAL PROTECTION:

C.7 – ESC PLAN AND TEMP DRAINAGE FACILITY:

C.8 – EARTHWORK AND OFFSITE HAUL AND DISPOSAL:

The majority of the remainder of SC1, SC2, and SC3 were excavated, with the exception of plugs kept intact for machinery access.

Some cobble/alluvium sorting from SC3 excavated material was conducted. Offsite general fill and onsite topsoil haul was ongoing as side channels were excavated.

C.9 – BEDROCK WORK AND OFFSITE HAUL AND DISPOSAL:

C.10 – FLOODPLAIN ROUGHNESS GRADING:

C.11 – DITCH PLUGS:

C.12 – MAINCHANNEL BOULDER PLACEMENT (INSTALL ONLY):

C.13 – RIFFLE CONSTRUCTION:

C.14 – DRAIN ROCK CONSTRUCTION:

C.15 – WILLOW TRENCH (INSTALL ONLY):

C.16 – BRUSH BANK TREATMENT (INSTALL ONLY):

C.17 – SIDE CHANNEL INLET HABITAT STRUCTURE (INSTALL ONLY):

C.18 – SIDE CHANNEL WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

C.19 – ALCOVE WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

C.20 – FLOODPLAIN ROUGHNESS (INSTALL ONLY):

C.21 – PLANTING, SEEDING, AND DECOMPACTION:

PERTINENT CONVERSATIONS WITH THE CONTRACTOR & OTHER ISSUES:

1/28: KF spoke with BW regarding stations of excavation on SC-1 and work schedule. Sc1 excavation ended at station 4+45 at end of the day. No photos were taken.

1/29: No construction observation occurred today, as the contractor continued to excavate SC1 (from upstream, down to station 1+40, and from downstream, up to station 1+80). Photos were taken following construction (Figure 1 and 2).

2/1 – 2/8: No construction took place this week due to warm weather and muddy conditions on site. However, on 2/5, the project sponsor harvested approximately 675 of the 2,138 willow whips needed for construction and delivered them on site.

DAILY LABOR SUMMARY

Name	Company or Agency	Activities
Beau Wicklander, Charlie Roe, Carl Powatkee, Eli Childs, Rancy Williams, Beau Thompson, Jayden McClure, Mike Matiaco, and Donny Stone	SLC	Side channel excavation, hauling of fill, and cobble sorting
Montana Pagano	NPT	Construction observation
Katie Frenyea	NPT	Construction observation

DAILY EQUIPMENT SUMMARY

Equipment	Make/Model	Activities
Excavator	John Deere 245	Sand bags
Excavator	CAT 336	Channel excavation
Backhoe Loader	John Deere 544	Sand bags
End Dumps	4 Various makes and models	Fill haul

Figure 1. Photo taken from trail on Tick Hill overlooking site to the southeast, taken on 1/29.

Figure 2. Photo taken from trail on Tick Hill overlooking site to the south, taken on 1/29.

Figure 3. Photo taken from trail on Tick Hill overlooking site to the southwest, taken on 1/29.

DELIVERABLE DISTRIBUTION

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Name	Agency	Email	Responsibility
Kate Frenyea	NPT	kathrynf@nezperce.org	Contracting Officer, Funding Sponsor
Montana Pagano	NPT	montanap@nezperce.org	COR, Construction Observation
Emmit Taylor	NPT	emmitt@nezperce.org	Watershed Division, Director
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Pierce Sernett	SLC	slcestimator@gmail.com	Construction Superintendent
Lee Ricker	SLC	rickerlj@gmail.com	Project Manager
Beau Wicklander	SLC	b.wicklander68@gmail.com	Construction Foreman
Tracy Hauser	BPA	tlhauser@bpa.gov	Project COTR
Chris Nygaard	BPA	cjnygaard@bpa.gov	F&W Program Engineer
Sean Welch	BPA	spwelch@bpa.gov	Tributary Habitat Policy Lead, Engineer

Travis Kessler	BPA	tdkessler@bpa.gov	Environmental Compliance Lead / Funding Agency
Ian Wilson	GRMW	ian@grmw.org	Wallowa County Project Coordinator
John Stevenson	USFWS	john_stephenson@fws.gov	Fish and Wildlife Biologist
Bill Lind	NOAA	Bill.lind@noaa.gov	NOAA Fisheries, Southern Snake Branch Chief
Sarah Fesenmyer	NOAA	Sarah.fesenmyer@noaa.gov	NOAA Fisheries, Natural Resources Specialist
Jeff Yanke	ODFW	jeff.yanke@state.or.us	District Fish Biologist
Kyle Bratcher	ODFW	kyle.w.bratcher@state.or.us	Assistant District Fish Biologist

Date: 2/9/21 – 2/19/21

Observer(s): Jeff Fealko, Montana Pagano & Katie Frenyea
Contracting Officer(s): Katie Frenyea

Nez Perce Tribe Fisheries – Watershed Division
DAILY OBSERVATION REPORT

SITE(S): Tamkaliks
LOCATION: Wallowa River, Wallowa, Oregon
CONTRACT NO: BPA 74017 REL 51
CONTRACTOR: Steve Lindley Construction
CONTRACTOR SUPERINTENDENT: Pierce Sernett
TEMPERATURE: **2/9:** 31° F; **2/10:** 31° F; **2/11:** 22° F; **2/12:** 24° F
WEATHER: **2/9:** snowy; **2/10:** snowy; **2/11:** snowy; **2/12:** snowy;
SHIFT HOURS: **2/9:** 9:00 – 16:00; **2/10:** 10:00 – 16:00; **2/11:** 10:45 – 16:30; **2/12:** 08:30 – 16:00

DESCRIPTION OF WORK AS PER-BID ITEM:

A.1 – SMALL BOULDERS:

A.2 – LARGE BOULDERS:

A.3 – 8" MINUS WASHED DRAIN ROCK MATERIAL:

C.1 – MOBILIZATION:

C.2 – COFFERDAMS:

C.3 – PUMPING AND DEWATERING:

Two pumps, one with a 4" hose and one with a 6" hose, were used intermittently for dewatering localized work areas for riffle construction. Water was initially pumped upstream of the work site onto the floodplain, and then was moved to adjacent side channel sections where work was not taking place.

C.4 – SURVEYING:

C.5 – CLEARING AND GRUBBING (INCLUDES PLANT SALVAGE AND REPLANT):

C.6 – ENVIRONMENTAL PROTECTION:

(See C.3)

C.7 – ESC PLAN AND TEMP DRAINAGE FACILITY:

C.8 – EARTHWORK AND OFFSITE HAUL AND DISPOSAL:

Finished all possible extent of SC1 excavation, with the exception of plugs kept intact for machinery access; continued excavation of SC3.

Some cobble/alluvium sorting from SC2, 3 excavated material was conducted. Offsite general fill and onsite topsoil haul was ongoing as side channels were excavated.

C.9 – BEDROCK WORK AND OFFSITE HAUL AND DISPOSAL:

C.10 – FLOODPLAIN ROUGHNESS GRADING:

Began floodplain roughness grading adjacent to upstream portion of SC1. Granding of Wetlands 1 and 2 other than where abuts access road.

C.11 – DITCH PLUGS:

Constructed ditch plugs and added fill. Need final compaction.

C.12 – MAINCHANNEL BOULDER PLACEMENT (INSTALL ONLY):

C.13 – RIFFLE CONSTRUCTION:

Constructed two downstream most riffles in SC1 from ~Station 10+35 to 9+87 (Figure 1 and 2).

Riffle material and sorted cobble material was hauled from storage, and deposited in downstream end of SC1 with end dumps.

Boulders were placed throughout riffles as per the design plan set, and buried 60 – 90% of their diameter.

C.14 – DRAIN ROCK CONSTRUCTION:

C.15 – WILLOW TRENCH (INSTALL ONLY):

C.16 – BRUSH BANK TREATMENT (INSTALL ONLY):

Installed four brush bank treatments (166’ total) in left and right banks in downstream end of SC1 from ~Station 10+75 up to 8+50 (Figure 3).

Slash was hauled and deposited for use in brush bank construction using the 730 haul truck.

C.17 – SIDE CHANNEL INLET HABITAT STRUCTURE (INSTALL ONLY):

C.18 – SIDE CHANNEL WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

Installed three structures at downstream end of SC1 at ~Station 10+00, 9+50, and 9+00. Installed one structure at downstream end of SC3 at ~Station 3+00 – this structure (near existing mature willow tree and branch overhanging SC3) was shifted ~ 5’ upstream to allow for easier access for excavation (Figure 5).

Whole trees, racking, and slash was hauled and deposited near downstream end of SC1 for use in side channel whole tree habitat structure construction using the 730 haul truck.

C.19 – ALCOVE WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

Installed three structures in alcove (node) at ~Station 8+75 (Figure 4).

Whole trees, racking, and slash was hauled and deposited near downstream end of SC1 for use in alcove whole tree habitat structure construction using the 730 haul truck.

C.20 – FLOODPLAIN ROUGHNESS (INSTALL ONLY):

C.21 – PLANTING, SEEDING, AND DECOMPACTION:

PERTINENT CONVERSATIONS WITH THE CONTRACTOR & OTHER ISSUES:

2/9: MP, CP, KF discussed Hanging Rock on site 1/29/21 to break up racking and slash to meet spec. BW, KF discussed operation of 245 excavator. GPS controls down, machine only to be used to sort riffle material until fixed.

2/10: JF, BW, KF discussed riffle material spec. A 2:1 mixture of different size material will be utilized. Where possible finishing the riffles to grade with a 1:1 mixture.

2/11: Beau, Jeff, Katie, and Montana discussed proper mix of native alluvium and sorted cobbles. It was determined that generally a 2:1 mix of native alluvium to sorted cobble will be used moving forward, with the potential for a final load of 1:1 to finish the riffle can be applied where feasible. It was also discussed that if riffle material is wetter than desired, creating soft "pockets", the contractor will wait for excess water to settle out. Following settling period, the C.O. may request material be ripped up and additional material be added to areas as needed prior to compaction and/or a second layer being added.

An example of a maximum sized boulder for used in the side channel riffles was identified by Jeff and marked for reference.

2/12: Jeff emphasized the importance of installing the willow stakes in the brush bank treatments deep enough to access the water table, but not so deep that they are too wet (causing root rot). He also recommended adjusting rootwads associated with SC whole tree habitat structures in a way that will intercept/deflect the majority of the velocity coming from upstream. This can be determined by looking downstream at the rootwad as it is being installed and adjusting accordingly. All the SC wood structures should vary slightly and be built to be site specific (e.g., to maximize complexity, fill in gaps between wood and bank with racking, etc.).

When installing willow stakes in wood structures, install them vertically on the opposite side of the excavated fill to make for easier soil replacement/compaction and reduce damage to willows. Excessively long willow stakes can be cut into multiple stakes.

Discussed modifications of 84' brush bank treatments on right bank, downstream end of SC1 (~ Station 10+25 to 11+75). This section of brush bank treatment will be modified to a series of diagonal willow

trenches (See Figure 6 for details). The purpose of this change is to retain existing riparian vegetation/ bank stabilization and intercept variable flow/water levels in this specific area.

Beau asked Jeff about specific floodplain wood placement (spatial distribution). Jeff confirmed that detail is not on the plan set and should be placed variably throughout the floodplain (at the direction of the C.O.). Beau also pointed out a typo in the plan set: the alcove whole tree wood structures call for a "type II log broken to length for piles" – Jeff confirmed this typo and said it should call for a "type I" log. See expanded discussion in notes under 2/17.

2/15: HOLIDAY: no work on site

2/16: No work on site due to weather conditions.

2/17-2/19: No work on site due to weather conditions.

The following discussion was held over the phone on 2/17 between Jeff, Katie, and Montana in relation to Jeff's desired modifications/adjustments and to address questions that came up during construction on 2/11 and 2/12. These notes will be distributed to Pierce, Beau, and others:

Slash was added to 1 right bank SC structure (below alcove node), as well as 2 left bank structures, and 1 out of 3 alcove whole tree placements, but, no slash currently on 2 alcove structures due to confusion as to the placement of slash in relation to the orientation of the tree. JF - slash on whole trees act as supplemental branches BEFORE the tree is placed. Now that there are 3 (alcove trees) installed slash is not required. SC1 and SC3 is another location with alcove areas. These will be locations to place slash first. JF will take detail sheet (D3) and mark where slash will be placed.

Racking quantities - Is the understanding of KF that JH (Hanging Rock) called to haul 30+' trees to break into 15' sticks. KF will follow up with Beau re: material.

Type 2 logs - Beau stated there may have been a typo in the plan set and should be using type 1 log as piles for anchoring alcove whole tree structures. Specs state broken type 2 log, but, then there is a remaining root wad leftover. Clarification - JF - should be a type 1, was a mistake in the plan set. Will there be enough type 1 logs? JF - will review quantities (16 type 1). Continue to use type 1 and use rootwad in pinned structures (SC whole tree structures) and use type II on inlet structures. May have to use type II to use ~9 strategically, specifically the smaller type on alcove structures.

Brush Bank Mod - change to more perpendicular to flow and break it up. Calls for 84', start building and try to get to 84'+/-. Will have breaks in between instead of continuous. i.e - D/S of willow (PP3; 14-31) excavated from both sides. From willow down to turn where alcove turns back to mainstem. ST10+25-10+75 - Operator may want to consider excavating from other side of river moving material towards the channel in order to see around existing vegetation. Brush should be placed above willow stakes then backfill willow trench.

2/18 – 2/19: No work on site due to weather conditions.

DAILY LABOR SUMMARY

Name	Company or Agency	Activities
Beau Wicklander, Charlie Roe, Carl Powatkee, Eli Childs, Rancy Williams, Beau Thompson, Jayden McClure, Mike Matiaco, and Donny Stone	SLC	Side channel excavation, hauling of fill, and cobble sorting
Montana Pagano	NPT	Construction observation
Katie Frenyea	NPT	Construction observation
Jeff Fealko	Rio ASE	Construction observation/engineering

DAILY EQUIPMENT SUMMARY

Equipment	Make/Model	Activities
Excavator	John Deere 245	Sand bags
Excavator	CAT 336	Channel excavation
Backhoe Loader	John Deere 544	Sand bags
End Dumps	4 Various makes and models	Fill haul
Haul Truck	CAT 730	Haul

Figure 1. Riffle construction at downstream end of SC1, taken on 2/11.

Figure 2. Riffle finished to grade in downstream end of SC1, taken on 2/11.

Figure 3. Brush bank treatment installation left bank in downstream extent of SC1, taken 2/11.

Figure 4. Installation of alcove whole tree habitat structure and associate pilings (~Station 8+75), taken 2/12.

Figure 5. Installation of side channel whole tree habitat structure in SC3, taken 2/12.

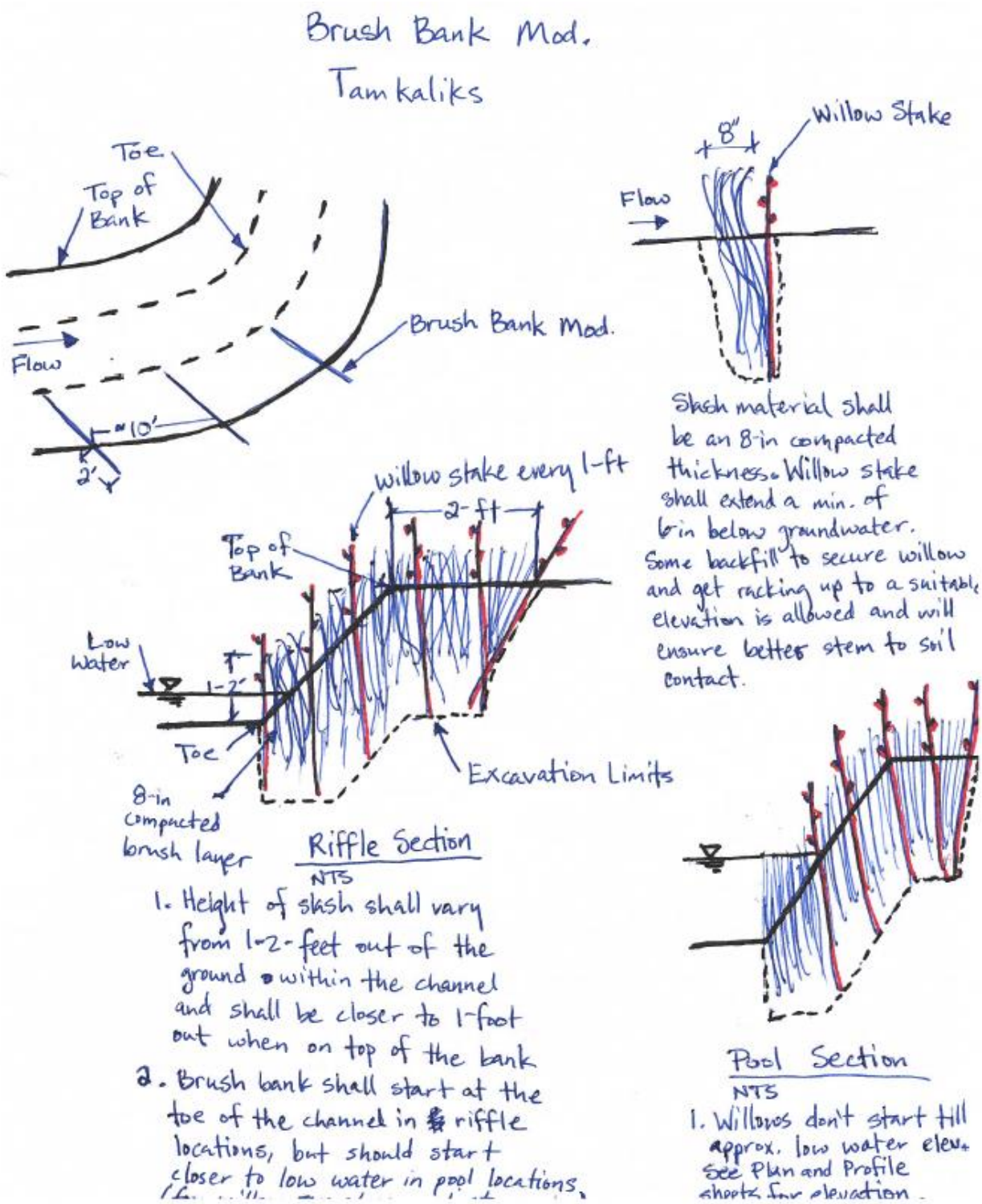

Figure 6. Jeff's detailed description of willow trenches that will be used to replace 84' brush bank treatment between ~Station 10+25 to 10+75.

DELIVERABLE DISTRIBUTION

ELECTRONIC COPY OF THIS FORM SUBMITTED BY EMAIL TO THE FOLLOWING:

Name	Agency	Email	Responsibility
Kate Frenyea	NPT	kathrynf@nezperce.org	Contracting Officer, Funding Sponsor
Montana Pagano	NPT	montanap@nezperce.org	COR, Construction Observation
Emmit Taylor	NPT	emmitt@nezperce.org	Watershed Division, Director
Jeff Fealko	Rio	jeff@rioase.com	Project Engineer
Pierce Sernett	SLC	slcestimator@gmail.com	Construction Superintendent
Lee Ricker	SLC	rickerlj@gmail.com	Project Manager
Beau Wicklander	SLC	b.wicklander68@gmail.com	Construction Foreman
Tracy Hauser	BPA	tlhauser@bpa.gov	Project COTR
Chris Nygaard	BPA	cjnygaard@bpa.gov	F&W Program Engineer
Sean Welch	BPA	spwelch@bpa.gov	Tributary Habitat Policy Lead, Engineer
Travis Kessler	BPA	tdkessler@bpa.gov	Environmental Compliance Lead / Funding Agency
Ian Wilson	GRMW	ian@grmw.org	Wallowa County Project Coordinator
John Stevenson	USFWS	john_stephenson@fws.gov	Fish and Wildlife Biologist
Bill Lind	NOAA	Bill.lind@noaa.gov	NOAA Fisheries, Southern Snake Branch Chief
Sarah Fesenmyer	NOAA	Sarah.fesenmyer@noaa.gov	NOAA Fisheries, Natural Resources Specialist
Jeff Yanke	ODFW	jeff.yanke@state.or.us	District Fish Biologist
Kyle Bratcher	ODFW	kyle.w.bratcher@state.or.us	Assistant District Fish Biologist

Date: 1/28/21 – 2/8/21

Observer(s): Montana Pagano & Katie Frenyea
Contracting Officer(s): Katie Frenyea

Nez Perce Tribe Fisheries – Watershed Division
DAILY OBSERVATION REPORT

SITE(S): Tamkaliks
LOCATION: Wallowa River, Wallowa, Oregon
CONTRACT NO: BPA 74017 REL 51
CONTRACTOR: Steve Lindley Construction
CONTRACTOR SUPERINTENDENT: Pierce Sernett
TEMPERATURE: **1/28:** 28° F
WEATHER: **1/28:** Partly cloudy
SHIFT HOURS: **1/28:** 10:15 – 16:00

DESCRIPTION OF WORK AS PER-BID ITEM:

A.1 – SMALL BOULDERS:

A.2 – LARGE BOULDERS:

A.3 – 8" MINUS WASHED DRAIN ROCK MATERIAL:

C.1 – MOBILIZATION:

C.2 – COFFERDAMS:

C.3 – PUMPING AND DEWATERING:

C.4 – SURVEYING:

C.5 – CLEARING AND GRUBBING (INCLUDES PLANT SALVAGE AND REPLANT):

C.6 – ENVIRONMENTAL PROTECTION:

C.7 – ESC PLAN AND TEMP DRAINAGE FACILITY:

C.8 – EARTHWORK AND OFFSITE HAUL AND DISPOSAL:

The majority of the remainder of SC1, SC2, and SC3 were excavated, with the exception of plugs kept intact for machinery access.

Some cobble/alluvium sorting from SC3 excavated material was conducted. Offsite general fill and onsite topsoil haul was ongoing as side channels were excavated.

C.9 – BEDROCK WORK AND OFFSITE HAUL AND DISPOSAL:

C.10 – FLOODPLAIN ROUGHNESS GRADING:

C.11 – DITCH PLUGS:

C.12 – MAINCHANNEL BOULDER PLACEMENT (INSTALL ONLY):

C.13 – RIFFLE CONSTRUCTION:

C.14 – DRAIN ROCK CONSTRUCTION:

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C.19 – ALCOVE WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

C.20 – FLOODPLAIN ROUGHNESS (INSTALL ONLY):

C.21 – PLANTING, SEEDING, AND DECOMPACTION:

PERTINENT CONVERSATIONS WITH THE CONTRACTOR & OTHER ISSUES:

1/28: KF spoke with BW regarding stations of excavation on SC-1 and work schedule. Sc1 excavation ended at station 4+45 at end of the day. No photos were taken.

1/29: No construction observation occurred today, as the contractor continued to excavate SC1 (from upstream, down to station 1+40, and from downstream, up to station 1+80). Photos were taken following construction (Figure 1 and 2).

2/1 – 2/8: No construction took place this week due to warm weather and muddy conditions on site. However, on 2/5, the project sponsor harvested approximately 675 of the 2,138 willow whips needed for construction and delivered them on site.

DAILY LABOR SUMMARY

Name	Company or Agency	Activities
Beau Wicklander, Charlie Roe, Carl Powatkee, Eli Childs, Rancy Williams, Beau Thompson, Jayden McClure, Mike Matiaco, and Donny Stone	SLC	Side channel excavation, hauling of fill, and cobble sorting
Montana Pagano	NPT	Construction observation
Katie Frenyea	NPT	Construction observation

DAILY EQUIPMENT SUMMARY

Equipment	Make/Model	Activities
Excavator	John Deere 245	Sand bags
Excavator	CAT 336	Channel excavation
Backhoe Loader	John Deere 544	Sand bags
End Dumps	4 Various makes and models	Fill haul

Figure 1. Photo taken from trail on Tick Hill overlooking site to the southeast, taken on 1/29.

Figure 2. Photo taken from trail on Tick Hill overlooking site to the south, taken on 1/29.

Figure 3. Photo taken from trail on Tick Hill overlooking site to the southwest, taken on 1/29.

DELIVERABLE DISTRIBUTION

ELECTRONIC COPY OF THIS FORM SUBMITTED BY EMAIL TO THE FOLLOWING:

Name	Agency	Email	Responsibility
Kate Frenyea	NPT	kathrynf@nezperce.org	Contracting Officer, Funding Sponsor
Montana Pagano	NPT	montanap@nezperce.org	COR, Construction Observation
Emmit Taylor	NPT	emmitt@nezperce.org	Watershed Division, Director
Jeff Fealko	Rio	jeff@rioase.com	Project Engineer
Pierce Sernett	SLC	slcestimator@gmail.com	Construction Superintendent
Lee Ricker	SLC	rickerlj@gmail.com	Project Manager
Beau Wicklander	SLC	b.wicklander68@gmail.com	Construction Foreman
Tracy Hauser	BPA	tlhauser@bpa.gov	Project COTR
Chris Nygaard	BPA	cjnygaard@bpa.gov	F&W Program Engineer
Sean Welch	BPA	spwelch@bpa.gov	Tributary Habitat Policy Lead, Engineer

Travis Kessler	BPA	tdkessler@bpa.gov	Environmental Compliance Lead / Funding Agency
Ian Wilson	GRMW	ian@grmw.org	Wallowa County Project Coordinator
John Stevenson	USFWS	john_stephenson@fws.gov	Fish and Wildlife Biologist
Bill Lind	NOAA	Bill.lind@noaa.gov	NOAA Fisheries, Southern Snake Branch Chief
Sarah Fesenmyer	NOAA	Sarah.fesenmyer@noaa.gov	NOAA Fisheries, Natural Resources Specialist
Jeff Yanke	ODFW	jeff.yanke@state.or.us	District Fish Biologist
Kyle Bratcher	ODFW	kyle.w.bratcher@state.or.us	Assistant District Fish Biologist

Date: 2/22/21 – 2/23/21

Observer(s): Jeff Fealko, Montana Pagano & Katie Frenyea
Contracting Officer(s): Katie Frenyea

Nez Perce Tribe Fisheries – Watershed Division
DAILY OBSERVATION REPORT

SITE(S): Tamkaliks
LOCATION: Wallowa River, Wallowa, Oregon
CONTRACT NO: BPA 74017 REL 51
CONTRACTOR: Steve Lindley Construction
CONTRACTOR SUPERINTENDENT: Pierce Sernett
TEMPERATURE: **2/22:** 37° F; 2**/23:** 34° F
WEATHER: **2/22:** rain, overcast; 2**/23:** Cloudy
SHIFT HOURS: **2/22:** 9:00-15:30; **2/23:** 8:00 – 13:30

DESCRIPTION OF WORK AS PER-BID ITEM:

A.1 – SMALL BOULDERS:

A.2 – LARGE BOULDERS:

A.3 – 8" MINUS WASHED DRAIN ROCK MATERIAL:

C.1 – MOBILIZATION:

C.2 – COFFERDAMS:

C.3 – PUMPING AND DEWATERING:

6" pump was used for dewatering SC3, SC1 for brush mattress and large wood material construction. Water was pumped to adjacent side channel sections where work was not taking place.

C.4 – SURVEYING:

C.5 – CLEARING AND GRUBBING (INCLUDES PLANT SALVAGE AND REPLANT):

C.6 – ENVIRONMENTAL PROTECTION: 336F excavator hydraulic hose replaced. Fluid meets environmental requirements and was contained.

2/23/21 – Silt fence installed at RL/alcove outlet location to capture any sediment associated with the channel overtopping.

(Also See C.3)

C.7 – ESC PLAN AND TEMP DRAINAGE FACILITY:

C.8 – EARTHWORK AND OFFSITE HAUL AND DISPOSAL:

C.9 – BEDROCK WORK AND OFFSITE HAUL AND DISPOSAL:

C.10 – FLOODPLAIN ROUGHNESS GRADING:

Continued floodplain roughness grading adjacent to upstream portion of SC3.

C.11 – DITCH PLUGS:

C.12 – MAINCHANNEL BOULDER PLACEMENT (INSTALL ONLY):

C.13 – RIFFLE CONSTRUCTION:

C.14 – DRAIN ROCK CONSTRUCTION:

C.15 – WILLOW TRENCH (INSTALL ONLY): See C16. BW, KF discussed cutting long whips down to avoid heavy browse and utilize material in other trench and brush bank treatments.

C.16 – BRUSH BANK TREATMENT (INSTALL ONLY):

Installed approximately 176LF of brush bank treatments in left and right banks in downstream end of SC3 from ~Station 1+50 up to 3+00 (Figure 3) and SC-1 at ~station 4+40. Additional willow cuttings and slash added to bank treatment completed prior at ~station 8+50.

Installed approximately 51LF on SC1 and 41LF on SC3.

Slash was hauled and deposited for use in brush bank construction using the 730 haul truck.

C.17 – SIDE CHANNEL INLET HABITAT STRUCTURE (INSTALL ONLY):

C.18 – SIDE CHANNEL WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

Installed two structures at upstream end of SC3 at ~Station 1+25, 2+25. Installed one structure at upstream end of SC1 at ~Station 5+35. Tree did not have limbs as spec's, used racking material to fill in any extra voids to meet structure intent. Structure @ Station 3+00 was racked and an additional log and racking was added at the upstream end of the structure. (Figures 1, and 2).

Installed structures at ~station 5+76 and 4+65 on SC1 (Figure 4).

Whole trees, racking, and slash was hauled and deposited near downstream end of SC1, 3 for use in side channel whole tree habitat structure construction using the 730 haul truck.

C.19 – ALCOVE WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

C.20 – FLOODPLAIN ROUGHNESS (INSTALL ONLY):

C.21 – PLANTING, SEEDING, AND DECOMPACTION:

PERTINENT CONVERSATIONS WITH THE CONTRACTOR & OTHER ISSUES:

2/22: BW, CR and KF discussed new brush mattress spec for downstream extent as recorded in the 2/9-2/19 observation report. KF, JF, and BW had a call to verify intent and methodology.

2/23: CR, LR, KF, JF discussed the need for additional slash and verified quantities. KF, JF discussed various aspects of racking and wood placement.

2/24 – 2/26: No work on site due to weather and site (flooding) conditions**.**

DAILY LABOR SUMMARY

Name	Company or Agency	Activities
Beau Wicklander, Charlie Roe, Carl Powatkee, Eli Childs, B0 Thompson, and Kyle M	SLC	Side channel excavation, hauling of fill, and cobble sorting
Montana Pagano	NPT	Construction observation
Katie Frenyea	NPT	Construction observation

DAILY EQUIPMENT SUMMARY

Equipment	Make/Model	Activities
Excavator	John Deere 245	Sand bags
Excavator	CAT 336	Channel excavation
Haul Truck	CAT 730	Haul

Figure 1. LWM installed at SC3 at ~Station 2+25.

Figure 2. LWM installed at SC1 at ~Station 1+25.

Figure 3. Brush Mattress install on SC3.

Figure 4. LWM install on Sc1 @ `~station 5+76

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Kate Frenyea	NPT	kathrynf@nezperce.org	Contracting Officer, Funding Sponsor
Montana Pagano	NPT	montanap@nezperce.org	COR, Construction Observation
Emmit Taylor	NPT	emmitt@nezperce.org	Watershed Division, Director
Jeff Fealko	Rio	jeff@rioase.com	Project Engineer
Pierce Sernett	SLC	slcestimator@gmail.com	Construction Superintendent
Lee Ricker	SLC	rickerlj@gmail.com	Project Manager
Beau Wicklander	SLC	b.wicklander68@gmail.com	Construction Foreman
Tracy Hauser	BPA	tlhauser@bpa.gov	Project COTR
Chris Nygaard	BPA	cjnygaard@bpa.gov	F&W Program Engineer
Sean Welch	BPA	spwelch@bpa.gov	Tributary Habitat Policy Lead, Engineer
Travis Kessler	BPA	tdkessler@bpa.gov	Environmental Compliance Lead / Funding Agency
Ian Wilson	GRMW	ian@grmw.org	Wallowa County Project Coordinator
John Stevenson	USFWS	john_stephenson@fws.gov	Fish and Wildlife Biologist
Bill Lind	NOAA	Bill.lind@noaa.gov	NOAA Fisheries, Southern Snake Branch Chief
Sarah Fesenmyer	NOAA	Sarah.fesenmyer@noaa.gov	NOAA Fisheries, Natural Resources Specialist
Jeff Yanke	ODFW	jeff.yanke@state.or.us	District Fish Biologist
Kyle Bratcher	ODFW	kyle.w.bratcher@state.or.us	Assistant District Fish Biologist

Date: 2/22/21 – 2/23/21

Observer(s): Jeff Fealko, Montana Pagano & Katie Frenyea
Contracting Officer(s): Katie Frenyea

Nez Perce Tribe Fisheries – Watershed Division
DAILY OBSERVATION REPORT

SITE(S): Tamkaliks
LOCATION: Wallowa River, Wallowa, Oregon
CONTRACT NO: BPA 74017 REL 51
CONTRACTOR: Steve Lindley Construction
CONTRACTOR SUPERINTENDENT: Pierce Sernett
TEMPERATURE: **2/22:** 37° F; 2**/23:** 34° F
WEATHER: **2/22:** rain, overcast; 2**/23:** Cloudy
SHIFT HOURS: **2/22:** 9:00-15:30; **2/23:** 8:00 – 13:30

DESCRIPTION OF WORK AS PER-BID ITEM:

A.1 – SMALL BOULDERS:

A.2 – LARGE BOULDERS:

A.3 – 8" MINUS WASHED DRAIN ROCK MATERIAL:

C.1 – MOBILIZATION:

C.2 – COFFERDAMS:

C.3 – PUMPING AND DEWATERING:

6" pump was used for dewatering SC3, SC1 for brush mattress and large wood material construction. Water was pumped to adjacent side channel sections where work was not taking place.

C.4 – SURVEYING:

C.5 – CLEARING AND GRUBBING (INCLUDES PLANT SALVAGE AND REPLANT):

C.6 – ENVIRONMENTAL PROTECTION: 336F excavator hydraulic hose replaced. Fluid meets environmental requirements and was contained.

2/23/21 – Silt fence installed at RL/alcove outlet location to capture any sediment associated with the channel overtopping.

(Also See C.3)

C.7 – ESC PLAN AND TEMP DRAINAGE FACILITY:

C.8 – EARTHWORK AND OFFSITE HAUL AND DISPOSAL:

C.9 – BEDROCK WORK AND OFFSITE HAUL AND DISPOSAL:

C.10 – FLOODPLAIN ROUGHNESS GRADING:

Continued floodplain roughness grading adjacent to upstream portion of SC3.

C.11 – DITCH PLUGS:

C.12 – MAINCHANNEL BOULDER PLACEMENT (INSTALL ONLY):

C.13 – RIFFLE CONSTRUCTION:

C.14 – DRAIN ROCK CONSTRUCTION:

C.15 – WILLOW TRENCH (INSTALL ONLY): See C16. BW, KF discussed cutting long whips down to avoid heavy browse and utilize material in other trench and brush bank treatments.

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Installed approximately 51LF on SC1 and 41LF on SC3.

Slash was hauled and deposited for use in brush bank construction using the 730 haul truck.

C.17 – SIDE CHANNEL INLET HABITAT STRUCTURE (INSTALL ONLY):

C.18 – SIDE CHANNEL WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

Installed two structures at upstream end of SC3 at ~Station 1+25, 2+25. Installed one structure at upstream end of SC1 at ~Station 5+35. Tree did not have limbs as spec's, used racking material to fill in any extra voids to meet structure intent. Structure @ Station 3+00 was racked and an additional log and racking was added at the upstream end of the structure. (Figures 1, and 2).

Installed structures at ~station 5+76 and 4+65 on SC1 (Figure 4).

Whole trees, racking, and slash was hauled and deposited near downstream end of SC1, 3 for use in side channel whole tree habitat structure construction using the 730 haul truck.

C.19 – ALCOVE WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

C.20 – FLOODPLAIN ROUGHNESS (INSTALL ONLY):

C.21 – PLANTING, SEEDING, AND DECOMPACTION:

PERTINENT CONVERSATIONS WITH THE CONTRACTOR & OTHER ISSUES:

2/22: BW, CR and KF discussed new brush mattress spec for downstream extent as recorded in the 2/9-2/19 observation report. KF, JF, and BW had a call to verify intent and methodology.

2/23: CR, LR, KF, JF discussed the need for additional slash and verified quantities. KF, JF discussed various aspects of racking and wood placement.

2/24 – 2/26: No work on site due to weather and site (flooding) conditions**.**

DAILY LABOR SUMMARY

Name	Company or Agency	Activities
Beau Wicklander, Charlie Roe, Carl Powatkee, Eli Childs, B0 Thompson, and Kyle M	SLC	Side channel excavation, hauling of fill, and cobble sorting
Montana Pagano	NPT	Construction observation
Katie Frenyea	NPT	Construction observation

DAILY EQUIPMENT SUMMARY

Equipment	Make/Model	Activities
Excavator	John Deere 245	Sand bags
Excavator	CAT 336	Channel excavation
Haul Truck	CAT 730	Haul

Figure 1. LWM installed at SC3 at ~Station 2+25.

Figure 2. LWM installed at SC1 at ~Station 1+25.

Figure 3. Brush Mattress install on SC3.

Figure 4. LWM install on Sc1 @ `~station 5+76

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Kate Frenyea	NPT	kathrynf@nezperce.org	Contracting Officer, Funding Sponsor
Montana Pagano	NPT	montanap@nezperce.org	COR, Construction Observation
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Pierce Sernett	SLC	slcestimator@gmail.com	Construction Superintendent
Lee Ricker	SLC	rickerlj@gmail.com	Project Manager
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Bill Lind	NOAA	Bill.lind@noaa.gov	NOAA Fisheries, Southern Snake Branch Chief
Sarah Fesenmyer	NOAA	Sarah.fesenmyer@noaa.gov	NOAA Fisheries, Natural Resources Specialist
Jeff Yanke	ODFW	jeff.yanke@state.or.us	District Fish Biologist
Kyle Bratcher	ODFW	kyle.w.bratcher@state.or.us	Assistant District Fish Biologist

Date: 3/3/21 – 3/9/21

Observer(s): Montana Pagano & Katie Frenyea
Contracting Officer(s): Katie Frenyea

Nez Perce Tribe Fisheries – Watershed Division
DAILY OBSERVATION REPORT

SITE(S): Tamkaliks
LOCATION: Wallowa River, Wallowa, Oregon
CONTRACT NO: BPA 74017 REL 51
CONTRACTOR: Steve Lindley Construction
CONTRACTOR SUPERINTENDENT: Pierce Sernett
TEMPERATURE: **3/3:** 21° F; **3/4:** 26° F; **3/5:** N/A F; **3/8:** N/A F; **3/9:** 31° F
WEATHER: **3/3:** sunny; **3/4:** sunny; **3/5:** N/A; **3/8:** N/A; **3/9:** overcast, snow.
SHIFT HOURS: **3/3:** 07:15 – 16:00; **3/4:** 07:25 – 13:00; **3/5:** no construction obs.; **3/8:** no construction obs.; **3/9:** 08:30 – 16:00.

DESCRIPTION OF WORK AS PER-BID ITEM:

A.1 – SMALL BOULDERS:

A.2 – LARGE BOULDERS:

A.3 – 8" MINUS WASHED DRAIN ROCK MATERIAL:

C.1 – MOBILIZATION:

C.2 – COFFERDAMS:

C.3 – PUMPING AND DEWATERING:

A 6" pump was used intermittently for dewatering localized work areas.

C.4 – SURVEYING:

C.5 – CLEARING AND GRUBBING (INCLUDES PLANT SALVAGE AND REPLANT):

C.6 – ENVIRONMENTAL PROTECTION:

Restored and stabilized crossing over SC1 to enable machine access D/S areas.

Silt fencing in place spanning SC1 upstream of large alcove and along left bank of alcove "outlet" in front of earthen plug.

C.7 – ESC PLAN AND TEMP DRAINAGE FACILITY:

C.8 – EARTHWORK AND OFFSITE HAUL AND DISPOSAL:

Excavated plugs at SC3 and SC2 confluences with SC1.

730 haul truck used for hauling.

C.9 – BEDROCK WORK AND OFFSITE HAUL AND DISPOSAL:

C.10 – FLOODPLAIN ROUGHNESS GRADING:

Floodplain roughness grading occurred in both the roughened FP designated quadrant along the left bank of SC3, as well as the area in between SC2 & SC3.

C.11 – DITCH PLUGS: Ditch plugs were grading on 3/5; seeding on 3/9/2021.

C.12 – MAINCHANNEL BOULDER PLACEMENT (INSTALL ONLY):

C.13 – RIFFLE CONSTRUCTION:

Excavated fill from SC1 and SC3 confluence plug and placed native alluvium D/S in SC1 riffle ~ST 8+00-8+50.

C.14 – DRAIN ROCK CONSTRUCTION:

C.15 – WILLOW TRENCH (INSTALL ONLY):

To the extent possible, avoiding areas where access will be required during in-water work phase (July-August), willow trench installation occurred in SC3 floodplain quadrant (Figures 1).

SC1 - Installed engineer modified willow trenches (6) in right bank of D/S alcove, below ST 11+00, in lieu of original 84 LF of brush bank (Figure 2). Accessed from roadway along toe of Tick Hill.

3/8: BW, EC, KF measured all completed willow trenches. BW stated he would mark what is measured to avoid duplicate counting of trenches when work resumes in June 2021.

C.16 – BRUSH BANK TREATMENT (INSTALL ONLY):

SC1 - Installed brush bank treatments (48 LF) from ~ST 7+00, D/S, and just below SC1 & SC3 confluence at ~ST 8+00 (34 LF).

Slash was hauled and deposited for use in brush bank construction using the 730 haul truck.

3/8: BW, EC, KF measured all completed brush bank treatments.

C.17 – SIDE CHANNEL INLET HABITAT STRUCTURE (INSTALL ONLY):

C.18 – SIDE CHANNEL WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

C.19 – ALCOVE WHOLE TREE HABITAT STRUCTURE (INSTALL ONLY):

SC1 - Installed four structures in alcove (node) between ~Station 5+00 and 6+00. Some structures were pinned inland of grade line slightly (~10-15') to achieve 4' bury depth for the piling logs.

SC3 – Installed three alcove whole tree structures in alcove node at confluence with SC1. Again, some structures were adjusted inland (~10') to achieve necessary piling depth and avoid willow trench.

Contractor saw cut piling ends for later "roughening" with excavator bucket, and secured piling ends with manila rope.

Whole trees, racking, and slash was hauled and deposited near alcove whole tree habitat structure installation locations using the 730 haul truck.

C.20 – FLOODPLAIN ROUGHNESS (INSTALL ONLY):

Floodplain roughness features (furrows and ridges) and associated slash and racking installation occurred in West quadrant of the floodplain adjacent to SC3 (left bank) (Figure 3).

Slash, racking, and top soil was hauled and staged for FP roughness construction using the 730 haul truck.

C.21 – PLANTING, SEEDING, AND DECOMPACTION:

3/8-3/9: seeding of the floodplain roughness areas and a ditch plug areas were seeded.

PERTINENT CONVERSATIONS WITH THE CONTRACTOR & OTHER ISSUES:

3/3: The CO clarified the need for additional willow cuttings and the placement/locations of willow trenches throughout the roughened floodplain. The CO contacted the engineer for clarification upon initiation of the roughened channel construction and relayed details onto the contractor. The onsite CO also discussed adjustments made to alcove tree structures in order to achieve 4' depth for pilings. Discussion and confirmation of minimum depths of willow trenches was also had with the engineer and relayed to the contractor.

3/4: Upon CO's arrival, it was determined that no willows had been installed the previous day in the piling excavation around one of the alcove tree structures at the confluence of SC3 & SC1. The CO had the contractor remove the pilings, install the willow cuttings and reinstall and compact the pilings. Following the installation of several roughened FP features, the CO sent pictures to the engineer, who gave feedback (per engineer: ~70% slash material in furrows and ~30% applied to ridges). After several more furrows and ridges were installed and photos were sent to the engineer, they were approved. Around 1100, it was determined that the contractor would run out of willow cuttings for the willow trenches. The CO and one laborer collected 125 additional willow stakes. To date, 1,090 willow whips have been delivered on site by the CO, ~1/3 – 1/2 of which were cut in half to produce two stakes (minimum length 6').
Upon departure CO's departure, the contractor was top soil dressing the area between SC2 & SC3 for roughness grading and willow trenches.

DAILY LABOR SUMMARY

Name	Company or Agency	Activities
Beau Wicklander, Charlie Roe, Carl Powatkee, Eli Childs, and Beau Thompson	SLC	Side channel excavation, hauling of fill, racking, slash and whole trees for installation, and cobble sorting
Montana Pagano	NPT	Construction observation
Katie Frenyea	NPT	Construction observation

DAILY EQUIPMENT SUMMARY

Equipment	Make/Model	Activities
Excavator	John Deere 245	Sand bags
Excavator	CAT 336	Channel excavation
Backhoe Loader	John Deere 544	Sand bags
End Dumps	4 Various makes and models	Fill haul
Haul Truck	CAT 730	Haul

Figure 1. Willow trench installation along left/West bank of SC3, taken on 3/3.

Figure 2. Modified willow trench install in downstream right bank of alcove in SC1, taken on 3/3.

Figure 3. Completed floodplain roughness and willow trenches in West quadrant/left bank of SC3, taken 3/4.

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Beau Wicklander	SLC	b.wicklander68@gmail.com	Construction Foreman
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Kyle Bratcher	ODFW	kyle.w.bratcher@state.or.us	Assistant District Fish Biologist