

#15-1283: SF (NUXW7YEM) - NESSET PH 1 REST: ESTIMATED BENEFITS

CATEGORY	INDICATOR	Current Conditions	Proposed Conditions	Reach Length (miles)	Unit	Current Conditions (per mile)	Proposed Conditions (per mile)	CHANGE	Methods
Instream Habitat - Large Wood Restoration	# of pools formed	3	12	0.5	Count	6	24	300%	Current conditions: 3 pools mapped in 2014 in Phase 1 reach. Project benefit: Overlay structure locations with wetted channel(s) from USFS 2013 photo.
	# of deep (> 1m residual depth) primary pools formed	3	8		Count	6	16	167%	Current conditions: 3 primary pools mapped in 2014 in Phase 1 reach. Project benefit: Overlay structure locations with wetted channel(s) from USFS 2013 photo - assume those engaged with thalweg will form primary pool.
	Length of wood engaged at low flow	188	458		m	376	916	144%	Current: Measure length of complex wood engaged in USFS 2013 wetted channel within project extent (note: most accumulations considered transient based on examination of photo record 1998-2013). Project benefit: Measure length of complex wood associated with jams engaged in USFS 2013 wetted channel.
	Length of wood engaged at high flow	374	1172		m	748	2344	213%	Current: Measure length of complex wood engaged in USFS 2013 unvegetated active channel in project extent (note: most accumulations considered transient based on examination of photo record 1998-2013). Project benefit: Measure length of complex wood associated with jams engaged in USFS 2013 wetted channel.
	# of cold-water refuges formed or enhanced	0	4		Count	0	8	-	Current: 2013 cold-water refuge mapping (deep pools with temperatures >2°C cooler than ambient); Project benefit: co-location of log jams in mapped cold-water areas.
	Stable log jams	3	23		Count	6	46	667%	Current: Number of stable jams mapped in project extent (two are cabled left bank jams, 1 is Nessel 2008 jam). Project benefit: number of ELJs proposed.
	Wetted length of side channels available during spawning flows (m)	0	0		m	N/A	N/A	-	Current: existing conditions from USFS 2013 photo; Project benefit: interpreted channel response.
	Wetted length of side channels available during rearing flows (m)	537	1143		m	N/A	N/A	113%	Current: existing conditions from USFS 2013 photo; Project benefit: interpreted channel response.
Riparian Restoration	Area in and within 300 feet of Historic Migration Zone vegetated and on trajectory to PFC includes forest island area.	62	67.3		acres	N/A	N/A	8%	Current: existing conditions from USFS 2013 photo and 2015 mapped channel; Project benefit: area of forested island expected to develop