Alaska Department of Fish and Game

Habitat Section Southeast Region

109-42-10100-2001

Water body name: Quad: Petersburg D-4 Upper Reach Latitude: 56.903195 Longitude: -133.687856 Lower Reach Latitude: 56.888195 Longitude: -133.717459

Findings: We surveyed this cataloged stream using a backpack electrofisher, baited minnow traps, and GPS and captured juvenile coho salmon (Figure 1). Stream is forested, maintains a low gradient, and flows through multiple beaver complexes (Table 1; Figures 2–4). We concluded our survey due to a lack of time; anadromous fish habitat likely continues upstream of final survey point.

Recommendations: Extend upper extent of Stream No. 109-42-10100-2001 in the anadromous waters catalog and add rearing coho salmon to species (Figure 5). Nomination: Pending

Waynoint	Latitude	Longitude	Notes	Stream	Stream	Habitat	Gradient	Sample	Sample
waypoiin	Latitude	Longitude	Notes	Width ft	Substrate	Features	%	Effort	Results
129	56.886788	-133.706336	MT soaked for 3.5 hrs just upstream of 10-12' CSP	15-20	Sand Small Gravel		0-1	MT	No Fish
			culvert mlet; fairly rusted. No fish in MT; tried electrofishing and caught one 1-2 yr old CO. Suspect some of our bait eggs may be old/ineffective. Advancing upstream.						
139	56.886931	-133.706172	Young-of-year CO capture. Return to investigate main channel and tributaries upstream.	12-15	Small Gravel Sand	Cut Banks	0-1	EF	1 CO
157	56.886908	-133.704912	Small backwatered trib on river-left.						
158	56.887277	-133.704394	Surveying upstream from culvert. 50+ CO via visual identification.	15-20	Small Gravel		0-1	HN	2 CO
159	56.887243	-133.704130	Prevailing flow coming from river-left with river- right being likely large braid based on imagery. Large beaver dam ~40' upstream of confluence; blown out on river-right side and CO observed upstream via visual identification.						
160	56.887133	-133.703875							

Table 1.–109-42-10100-2001 survey data.

Survey date: 6/7/2023 Species & Lifestage: DVp Survey crew: CD, FC



ADDITION

Waypoint	Latitude	Longitude	Notes	Stream Width ft	Stream Substrate	Habitat Features	Gradient %	Sample Effort	Sample Results
160	56.887133	-133.703875							
161	56.887128	-133.702938	3-4' beaver dam with						
			equally deep or deeper						
			jump pool. CO observed						
			above via visual						
			identification.						
162	56.888007	-133.699845	Large interconnected						
			beaver dam complex.						
			Young-of-year CO						
			capture. Advancing						
			upstream towards more						
			forested area to find more						
			distinguished stream						
			channel.						
163	56.888253	-133.697990	Becomes confined to one	15-20	Small Gravel	Spawning	0-1	VI	25+ CO
			clear channel complete		Large Gravel				
			with gravel substrate and			Substrate			
			lots woody debris / low			LWD			
1.64	56 000100	100 (05510	flow spots.	15.00	I G I				
164	56.892180	-133.68//12	Confluence of river-right	15-20	Large Gravel	Incised	4-6		
			main channel and river-left		Cobble	Channel			
			inclusion in a second second						
			after marrieus deurstream						
			alter previous downstream						
			increases in gradient over						
			the last - 200' downstream						
			of this waynoint Still						
			observing voung-of-vear						
			CO via visual identification						
			Advancing up main.						
165	56.892976	-133.686775	Young-of-year CO capture	10-12	Cobble	Incised	4-6	EF	2 CO
			in side pool just		Bedrock	Channel			
			downstream of bedrock			Step			
			chute/falls accumulating			Pools			
			about 5'.						
166	56.894282	-133.685196	River-left tributary with						
			steep gradient precluding						
			anadromous fish passage.						
167	56.894678	-133.685513							
168	56.896210	-133.687179	Gradient mellowed out	12-15	Large Gravel		1-2	EF	CO
			over the last 300'		Small Gravel				
			downstream of this						
			waypoint and stream flows						
			from another beaver dam						
			complex. Have still						
			observed young-of-year						
			CO up to this point.						

Table 2.–109-42-10100-2001 survey data continued.

Waypoint	Latitude	Longitude	Notes	Stream	Stream	Habitat	Gradient	Sample	Sample
				Width ft	Substrate	Features	%	Effort	Results
169	56.896596	-133.687868	Young-of-year CO capture in river-left tributary leading into beaver pond. Return to extend after continuing up the main channel.	2-4	Small Gravel Large Gravel		1-2	EF	2 CO
170	56.900787	-133.688517	Young-of-year CO capture about 150' upstream of small river-left tributary as main channel is becoming more channelized.	2-4	Small Gravel Sand		1-2	EF	2 CO
171	56.899959	-133.689398	Jumped into woods to get over hill while stream was dechannelized in beaver pond complex. CO visual identification; advancing to where steam emerges from more forested area and rechannelizes.						
172	56.903532	-133.687150	Shocked for the last 200' downstream to this waypoint, but no fish capture. Ending survey due to time constraints.	6-8	Small Gravel Large Gravel		1-2	EF	No Fish
173	56.903203	-133.687856	Young-of-year CO capture just downstream of beaver dam with some subsurface flow. Taking more effort catch CO, seemingly lower fish density than downstream.	6-8	Small Gravel Large Gravel		1-2	EF	2 CO

Table 3.-109-42-10100-2001 survey data continued.



Figure 1.-Juvenile coho salmon captured at waypoint 170.



Figure 2.–Beaver dam at waypoint 161.



Figure 3.–Channel at waypoint 163.



Figure 4.–Channel at waypoint 173.



Figure 5.-Stream No. 109-42-10100-2001 addition map.