An aerial photograph of a river valley. The river flows through the center, surrounded by green fields and some trees. In the background, a town is visible, and further back, there are mountains under a cloudy sky. The foreground shows large, dark brown agricultural fields, some of which appear to be recently plowed. A road runs along the right side of the river.

Yakama Nation IP habitat proposals 2017-2019

Yakama Nation Department of
Natural Resources

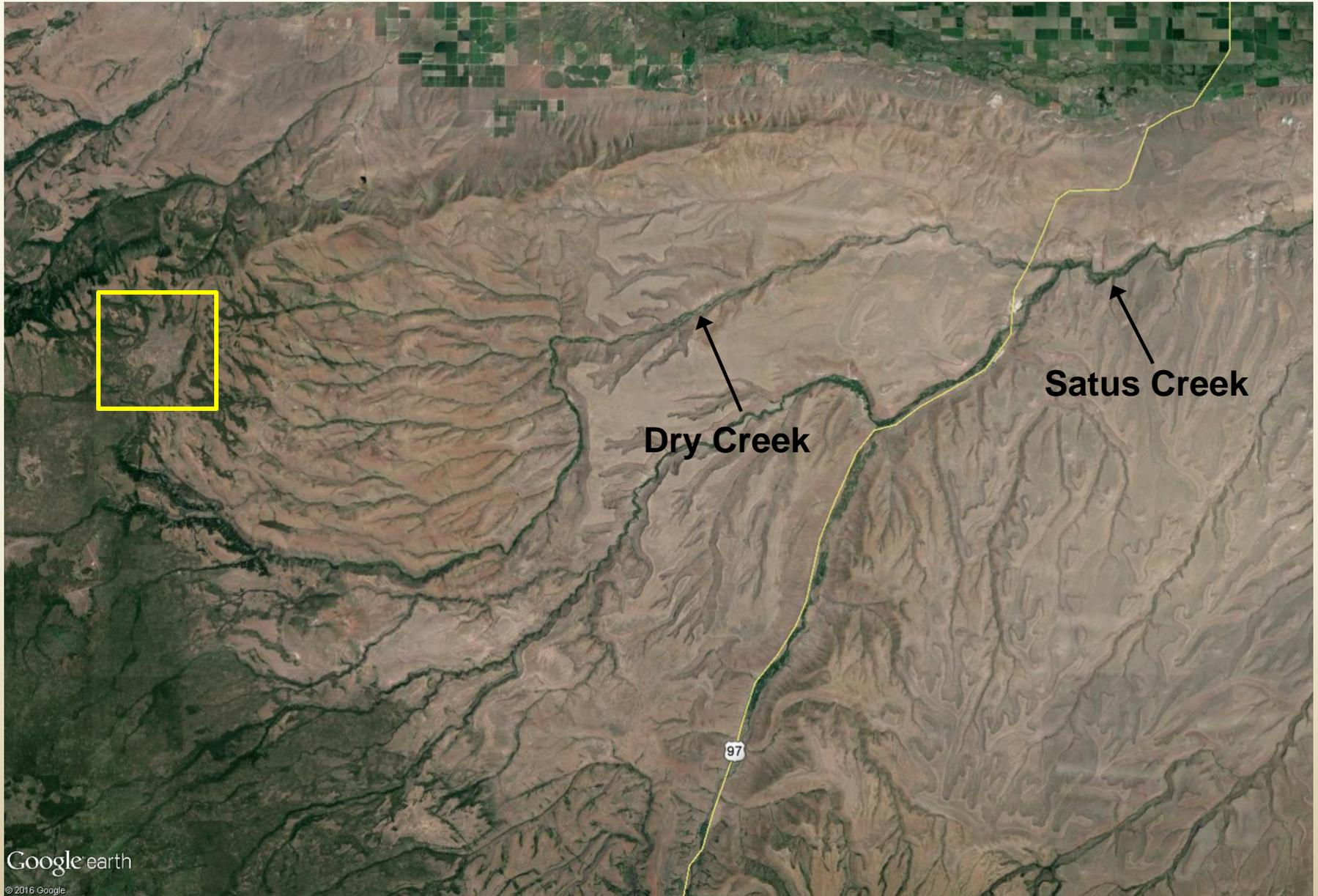
2017-2019 Projects Selected from Long Term Project List

ID	Seq	Name	Location	Description	benefits	est cost	note
Integrated Plan Funding Only at \$1.5 million							
	1	Island Rd floodplain	Toppenish Creek rm 28	raise water surface with grade control (could be LWD, rock, BDA) selectively breach spoils berm, reconnect floodplain and side channels	reconnect 700 to 1000 acres of floodplain and 2 to 2.5 miles of channel, reconnect 2 to 3 miles of side channels	\$ 350,000	part of Toppenish Creek Corridor plan, complementary to rebuilding Unit 2 dm, Wildlife manages affected lands
	2	Toppenish Fan Habitat Project	Toppenish Creek Fan	install instream wood, protect floodplain with fences, create off-channel habitat	increase habitat complexity and abundance	\$ 450,000	expands and speeds up ongoing restoration on Toppenish Creek Fan
	3	RM 89.5 Levee	Yakima River rm 89.5	remove or breach up to 1000 ft of levee, connect side channel, connect floodplain	1.2 miles side channel reconnected, 200 acres of floodplain reconnected	\$ 500,000	Wildlife manages affected lands
	4	3-way levee	Toppenish Creek Fan	set back levee, reconnect floodplain	restore habitat complexity and channel processes on upper Toppenish Fan	\$ 200,000	partially funded through RCPP, need additional funding to ensure completion, in Toppenish Creek Corridor plan
Integrated Plan + new RCPP Match, \$2.5(2.7) million							
	5	Buena Riparian Planting	Yakima River rm 93 to 94.4	install cottonwood and willow stakes over 5 acres of gravel bar (~20,000 plants), install roughness elements	rejuvenate riparian forest, long-term increased woody debris recruitment, stabilize highly mobile gravel bars, improve bank habitat	\$ 200,000	could be pilot for long-term riparian planting program on Wapato Reach, includes roughness elements
	6	Wanity Slough	Yakima River rm 106.7	connect 6 miles of Wanity Slough and drains, and 2.5 miles of side channels, create wetlands, recharge alluvial aquifer	recharge alluvial aquifers (10 to 15 k acre-ft?), 50 acres of seasonal wetlands, activate 2.5 miles of side channels in winter	\$ 500,000	could attract additional funding sources from IP, NAWCA
	7	Pond 5	Yakima River rm 98.3	breach levee, reconnect floodplain, maintain side channel connectivity	relieve major floodplain constriction, reconnect 50 floodplain acres, convert pond to wetlands	\$ 500,000	initiates work on major constriction zone of Wapato Reach, WSDOT involved
	8	Parker Ponds reconnection	Yakima River rm 108	remove/breach levee, habitat enhancement in ponds	increase connectivity for 42 acres of floodplain, enhance habitat in 0.8 miles of side channel, pond, and wetland habitat	\$ 400,000	work would be in cooperation with Columbia Asphalt-added complexity
	9	Starvation Flats Meadow Restoration	Dry Creek headwaters	restore incised channels, reconnect to meadow system	restore 4 miles of channel, wildlife habitat over 1400 acres, increase water storage for downstream steelhead spawning areas	\$ 1,000,000	can be accomplished incrementally, partial funding ok

YN 2015-2019 projects



Starvation Flats, Dry Creek Drainage



Starvation Flats

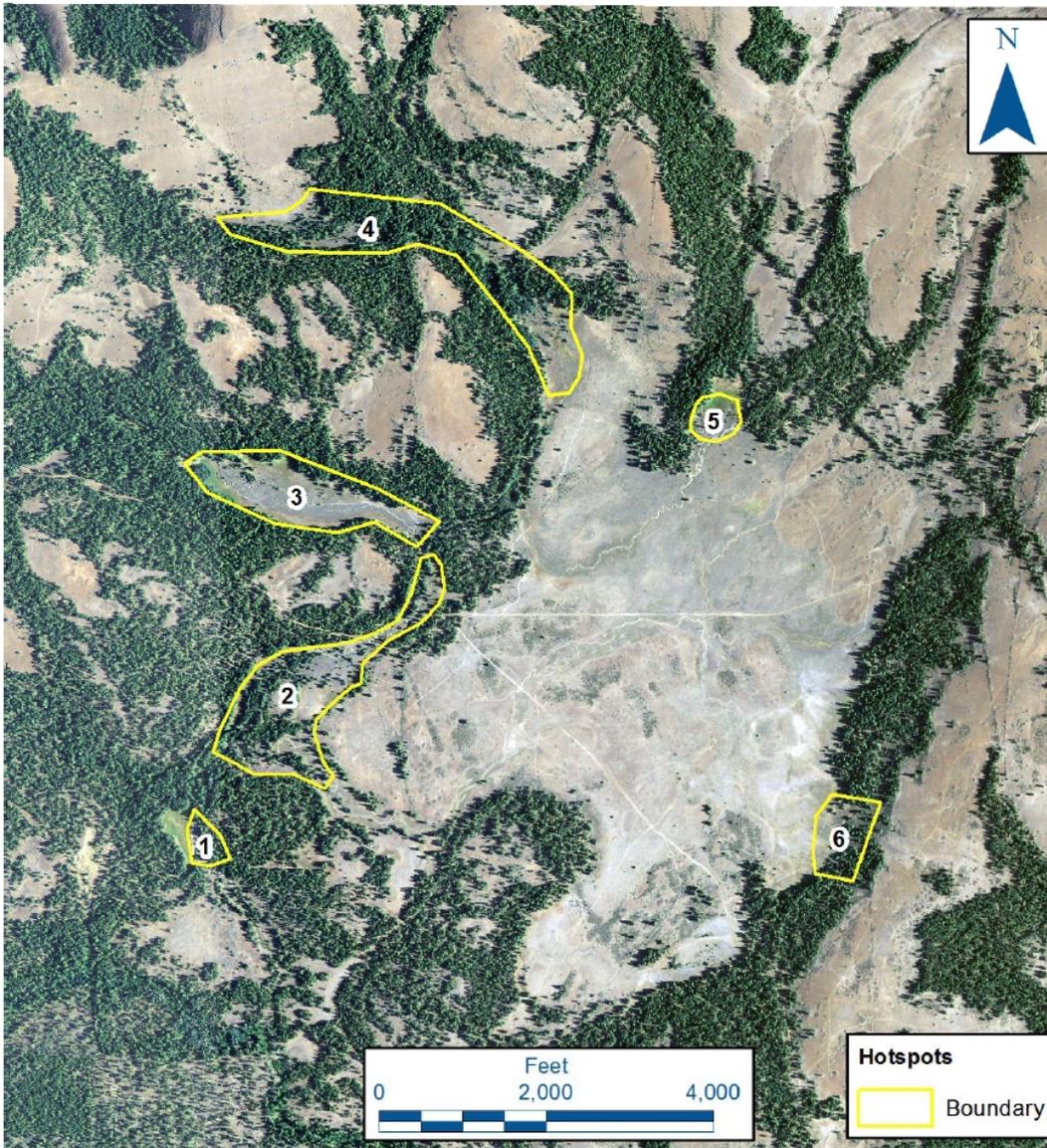


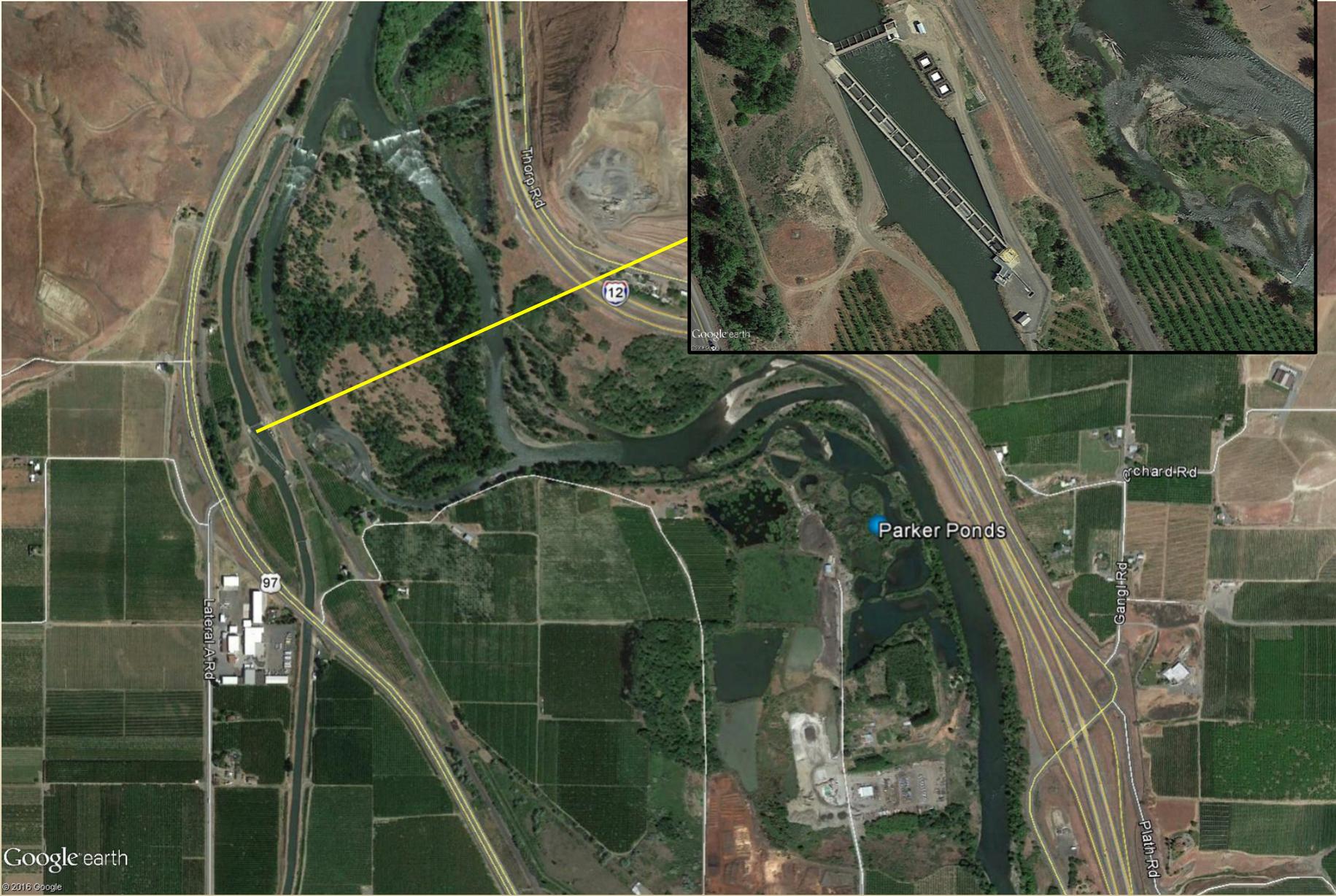
Figure 18. Identified hotspots of pronounced landscape change, 1955-2013. Basemap source: USGS EarthExplorer aerial imagery.



Figure 7. Ephemeral stream (dry season) in Starvation Flats Meadow (subwatershed 140) – September 2015.



Parker Ponds Enhancement



Parker Ponds Enhancement



Buena Riparian Restoration



