MANAGE summary indicators - Chepachet wellhead protection areas

				Study Area Land Use Indicators					Riparian Indicators				
Study Area	**Scenario**	Acres	% Sewer	% High Intensity Land Use	% Im-pervious	% Forest	% Wetland	% Forest & wetland	RIP % HILU	RIP%Im-pervious	RIP % Forest	RIP % Wetland	RIP % Forest and Wetland
Chepachet WHPAs	Current Land Use	1055	0%	19%	14%	48%	7%	56%	16%	11%	50%	17%	68%

Estimated Nutrient Loading						Estimated Nitrate-N sources to grw recharge					**SOILS**	hyrdrologic groups		
NO3N in GW Recharge mg/l	NO3N to GW recharge lbs/ac/yr	N SW runoff lbs/ac/yr	Total N to study area lbs/ac/yr	% N in SW runoff from Atm.	P to SW lbs/ac/yr	Septic Systems	Lawn Fert.	Agri. Fert	Pet Waste	Other	***% A***	***% B***	***% C***	***% D***
2.9	12.6	4.5	17.1	3.3%	0.8	64%	8%	19%	3%	5%	24%	15%	59%	2%

				SWAP		Estimated Water Budget / Runoff / Recharge								
%SHWT <1.5-3.5'	%SHWT 1.5'-3.5'	%Restr. C,.2"/hr	% Erode	HILU on A soil	HILU on HWT <3.5'	# ISDS	ISDS /Acre	Precip Inches	ET Inches	Avail. Precip Inches	SW runoff Inches	Net recharge Precip. Inches	ISDS recharge Inches	SW runoff % avail.
51.5%	32%	45%	29%	5%	8%	560	0.53	45	18	27	8.9	18.1	0.9	33%

GW recharge avail	%	Precip Mgal/yr	ET Mgal/yr	Avail. Precip Mgal/yr	surface runoff Mgal/yr	Avg.net recharge precip.	ISDS recharge	If 100% forested surface	Lost recharge from 100%
67%		1290	516	774	256	518	25	82	174

Note: Runoff and nutrient loading estimates based on local RIGS land use and soils data, local research on nitrogen leaching, and assumptions from literature review.

Nutrient loading estimates represent potential sources entering runoff or groundwater recharge.

Nutrient removal in surface or groundwater is not quantified but depends on multiple factors such as extent and location of developed land, extent of wetlands and forest, soil types, and undeveloped shoreline buffers .