Elevation	Plot layout	Deployment and Sampling Timeline	Key	Soil Horizons
Lower Subalpine: 10,400'	2016- 2017	 Site selection and plot establishment Litter collection and deployment Lysimeter installation Sample collection and analysis during snow-free months Litter sampling Total C/N, FTIR analysis Porewater sampling C, N, SUVA Gas flux sampling CO₂, CH₄, N₂O gas flux Sacrifice of one ring from each sample Continued sampling (see above) 	Control 250g Healthy Spruce Needles 250g Impacted Spruce Needles 250g Lodgepole Needles Shaded Control	PVC Ring 10 cm 15 cm Lysimeter