

Predicting Oil Spill Trajectories

Sub Area	Spring	Summer	Autumn	Winter		
Upper Cook Inlet	<i>Tidal mixing & prevailing winds</i>				Broken ice will concentrate oil	
	Extreme high TSS					
Middle Cook Inlet	Extreme tides	Convergence zones				Broken ice will concentrate oil
		Very high TSS W side/lower TSS E side				
		Stronger S current on W side (freshwater input)			Strong NE winds	
		E side driven by lower CI/W side by Upper CI			E side rip; Kenai River N push	
				Kenai River N flow; NW net flow/non-tidal		
Lower Cook Inlet	Stagnant flow from Anchor Point to Clam Gulch				Broken ice will concentrate oil	
	W side moderate TSS		AK coastal current into Kachemak Bay			

TSS = total suspended solids