

Task Order	MMS Issue Addressed	Monitoring Hypotheses	Methods	Key Monitoring Result or Parameter for Decision Making
<p>002 – “Hydrocarbon and Metal Characterization of Sediments in the cANIMIDA Study Area”</p>	<p>Will offshore oil development and production at Northstar and potential development at Liberty result in increased or chronic pollution from industrial sources of petroleum or metals?</p>	<p>H1. The concentrations of organic (H1a) and metal (H1b) chemicals of concern in sediments do not show any increase as a result of the development of the Northstar and/or Liberty units.</p> <p>H2. Concentrations of organic (H2a) and metal (H2b) chemicals of concern adjacent to the Northstar and/or Liberty developments do not pose an ecological risk to marine organisms as determined by sediment quality benchmarks.</p> <p>H3. The concentrations of organic (H3a) and metal (H3b) chemicals of concern in sediments do not show any trend within the sediment cores as a result of past and present oil exploration, development, and production activities.</p>	<p>Summer sampling of surficial sediments and sediment cores with analysis for metals, grain size, TOC, PAHs, saturated hydrocarbons, and steranes and triterpanes (Table 1 through 4). Corresponding radionuclide dating of both surficial sediments and sediment cores.</p>	<p>Annual interpretative report with tabulated data on sediment levels of chemical analyses will be provided, with statistical tests of potential interannual significant differences.</p> <p>Contractor will alert MMS COTR of any important trends or changes.</p>