A 42-person capacity hovercraft is used during the shoulder seasons for crew changes. The hovercraft has a 5.7 metric ton freight capacity to transport small loads. The hovercraft has twin engine design (lift and thrust) and can work in a maximum operational wind speed of 30 knots (40-knot gusts) and a minimum operational temperature of -37 degrees Celsius (°C).

Transportation of Equipment and Materials

Transportation will align with the current practice. Equipment and materials will be transported predominately over paved and gravel roads to OPP (Nikaitchuq Development). Drill pipe most likely will be transported via rail to Fairbanks, then via truck to OPP. From OPP, materials will be transported to SID via barge or ice road.

Table L-1 – Logistics and Transportation Support Including the Nikaitchuq North Exploration Drilling Project (2017 – 2019)

	Hovercraft (trips) a	Crew Boat (trips) a	Barge (trips) a
2017 (estimated)	1,163	614	152
2018 (estimated)	1,163	1,378	108
2019 (estimated)	862	614	8

Notes: a = All trips are one-way

(b) Air emissions

Per 30 CFR 550.224(b), the source, composition, frequency, and duration of air emissions associated with the support vessels, offshore vehicles, and aircrafts used for the project that will operate within 25 miles of the drilling unit must be provided. The support vessel air emissions result from the combustion of diesel-fuel from onboard equipment such as propulsion engines and generator engines. Tables L-2 through L-7 provide a summary of the air emissions for the equipment onboard the crew boat, hovercraft, and tug and barge. No aircraft is anticipated to be used within 25 miles of the drilling unit to support the exploration activities.

(c) Drilling fluids and chemical products transportation

Please refer to ***Figure L-1,*** *"Waste Estimated to be Generated, Treated and/or Downhole Disposed or Discharged to the Beaufort Sea"* and the *Chemical Products* as ***Figure L-2*** for further detailed information related to drilling fluids and chemical products transportation.

(d) Solid and liquid wastes transportation

All solid and liquid wastes from the drilling unit will be made in accordance with the existing permits in place. Please refer to ***Figure L-3*** *"Waste and Surplus Estimated to be Transported and/or Disposed of Onshore"* for further detailed information related to Wastes.