

**Arise Logistics Inc.**

**Preliminary Costing in support of Executive Summary 22 Feb 2018 regarding  
outreach to Tuktoyaktuk, Northwest Territories**

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Situation: Gaps in primary care (the first point of contact with the healthcare system) in Tuktoyaktuk and the Beaufort Delta are clear and cogent from Dr. Ashton situational assessment.

Observations: Gaps include:

1. Lack of emergency response capacity within the community; there is no paramedic service to act as first responders and transport clients to the Nursing Station;
2. Absence of home-based care for post hospital discharge patients, the frail elderly and those who suffer from chronic disease, mental health and addictions issues;
3. Absence of communications and ground ambulance support for local and commercial on the Inuvik Tuktoyaktuk Highway. This was brought forcefully apparent through my witness of a potentially fatal motor vehicle accident where my (untrained) driver and I were the only first responders available to attend to assessment of clients involved who were already beginning to experience hypothermia; and,
4. Absence of communications and ground ambulance support for tourists who will travel on the Inuvik Tuktoyaktuk Highway. Being the only community in Canada connected to the Arctic Ocean by road, and a charming community as well, Tuktoyaktuk is expected to experience a boom in tourist travel through the ITH. Motor vehicle accidents will happen on the ITH in numbers not previously encountered prior; EMS response is a vital necessity.

Assessment: Solutions to the gap analysis noted above have not yet been developed in terms of human, infrastructure and equipment specifications and needs. As such, Arise Logistics recognizes that unique solutions, based on local input and Canadian skills and technology need development and application. Arise has developed the solutions for application and provided a cost estimate as listed below.

Plan:

A uniquely Canadian design with Inuit and Southern input has been developed to provide a high level plan and budget to address the above.

Given current service gaps and an objective to provide a comprehensive, rather than iterative solution plan to address immediate and imminently pressing needs, the following is proposed:

2 x Community Paramedic Response Units (CPRUs) deployed on a 24/7 basis to support Tuktoyaktuk, the Beaufort Delta and adjoining communities on the Inuvik Tuktoyaktuk Highway.

1 x local ground ambulance team within Tuktoyaktuk to facilitate transport for care within the community.

Each CPRU team will comprise:

2 x Advanced care paramedic with Community Paramedic training

1 x Driver/ Bear & Wildlife Monitor

1 x Paramedic Assistant/Trainee

Overall Human Resources Requirement:

3 crews to manage 2 x mobile Community Paramedic Response Units:

- 6 x ACP @\$275,000/year = \$1,650,000
- 3 x Bear Monitor/ Driver @ \$70,000/ year = \$210,000
- 3 x Paramedic Assistant/ Trainee @ \$40,000/year = \$120,000
- Total HR = \$1,980,000/year

1 crew to manage local transport:

- 1 x Primary Care Paramedic @\$230,000/year = \$230,000
- 1 x Driver @\$60,000/year = \$60,000

Administrative Support

- 1 x Management = \$60,000
- 1 x Admin/IT Assistant = \$50,000

Total HR Annual Costs:

\$2,380,000

Vehicle/Equipment Capabilities:

- Full capacity to navigate the ITH under all conditions
- Advanced communications with Base Hospital(s) and communities
- Advanced Cardiac Life Support with thrombolytic capacity en route
- Advanced Trauma Life Support with minimum bag/mask/endotracheal tube capability
- Pediatric Advanced Life Support
- Neonatal delivery capability with isolette
- Ability to withstand prolonged periods of detainment by weather/demand while ensuring safe stabilization of clients.

Solution:

2 x fully outfitted ambulance custom designed/built by Almonte national auto/trucking manufacturers on International WorkStar severe duty diesel chassis – cost: \$400,000 each

1 x fully outfitted ambulance custom designed/built by Almonte national auto/trucking manufacturers on Ford F550 heavy duty diesel chassis – cost: \$275,000

O&M: \$125,000 per vehicle serviced & fueled locally with manufacturer support in Tuktoyaktuk and Inuvik

Vehicle costs assuming 3 year lifespan of vehicles: \$485,000/ year

Communications Support: \$100,000/year

Vehicle Station Lease: \$100,000/ year

Total Annual Costs (HR, Capital, O&M, Communications, Facility): \$3,115,000/year