



CITY OF HAMILTON
COMMUNITY AND EMERGENCY SERVICES DEPARTMENT
Hamilton Fire Department

TO:	Chairs and Members Emergency & Community Services Committee
COMMITTEE DATE:	February 12, 2018
SUBJECT/REPORT NO:	Hamilton Fire Department – Ice Rescue (CES18010) (City Wide)
WARD(S) AFFECTED:	City Wide
PREPARED BY:	John Verbeek 905-546-2424 Ext. 7120
SUBMITTED BY:	Dave Cunliffe Chief, Hamilton Fire Department Community and Emergency Services Department
SIGNATURE:	

RECOMMENDATION

- (a) That a tri-service ice rescue response unit consisting of resources from the Hamilton Fire Department, Hamilton Police Service and the Hamilton Beach Rescue Unit be developed to facilitate the most effective, timely and safe ice rescue response in and around the City of Hamilton;
- (b) That the development, training and equipping of the tri-service unit be completed prior to December 31, 2019;
- (c) That the applicable start-up costs in the amount of approximately \$200,000 for the Hamilton Fire Department to participate in the ice rescue response unit be submitted by the Hamilton Fire Department for consideration of Council as part of the 2019 Capital Budget process; and,
- (d) That the Fire Chief work with the applicable City staff to develop the necessary changes to the Fire Department Establishing and Regulating By-law 68-34, to authorize the Fire Department to perform shore based/on ice rescue services, for approval by Council.

EXECUTIVE SUMMARY

At the meeting on February 10, 2016 Council approved the following motion regarding Ice Rescue Services:

That the General Manager of Community and Emergency Services be directed to report back to the Emergency and Community Services Committee with respect to

the feasibility of the Hamilton Fire Service assuming from the Hamilton Police Service, the Ice Rescue service.

The City of Hamilton has a unique combination of bodies of water within and in close proximity to its borders that are used for commercial, recreational, agricultural and environmental protection purposes. These bodies of water include but are not limited to; Lake Ontario, Hamilton Harbour, Cootes Paradise, various Conservation Areas in Stoney Creek, Glanbrook and Flamborough, small lakes and ponds and the many creeks and various water retention ponds across the City. With the use of these waterfront areas and Conservation properties during the winter months there is a greater probability of incidents to occur due to the increased level of popularity of outdoor activities and with the current and future increase in the use of the bay front areas. Ice water rescue responses are a low frequency call however the consequences/risks associated with these calls is extremely high as time is critical when dealing with victims that may be suffering from hypothermia. Information from the Hamilton Police Marine Unit identified that they responded to and conducted two ice water rescues in 2017.

Currently there are two organizations within the City that provide ice rescue response services. Those organizations are the Hamilton Police Service and the Hamilton Beach Rescue Unit. Prior to amalgamation, no Fire Departments in the former Regional Municipality of Hamilton-Wentworth provided ice water rescue services and currently, the Hamilton Fire Department does not provide this service.

The Hamilton Police Service Marine Unit is comprised of four full-time members who operate in two teams of two Officers. During the winter months, the Marine Unit Officers work 7am – 7pm, Monday through Saturday and 8am – 4pm on Sunday. If an incident occurs, the two Marine Officers will respond, however no additional trained personnel are paged or called in. If an incident occurs outside of the hours in which Marine Officers are working, these Officers are not on call or on standby, thus identifying a gap in resources to respond to an incident should one occur. A May 2013 Hamilton Police Service report identified some key concerns with respect to training and a concern regarding the limited staff resources available to provide ice water rescue services in a consistent, timely and safe manner throughout the City. This report identified estimated response times to various Conservation Areas across the City ranging from 25 minutes to 60 minutes. Background information on the Hamilton Police Service is included in Appendix A to Report CES18010.

The Hamilton Beach Rescue Unit provides limited year round rescue capabilities to Lake Ontario as an auxiliary Coast Guard unit. These volunteers are paged and then respond to their station and/or dock locations located on Hamilton's Beach Strip, where they mobilize the necessary resources for the incident they are being dispatched to. The

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Hamilton Beach Rescue Unit estimates that it would take between 30 minutes and one hour for their team to be ready for deployment to a scene.

To mitigate the current and potential risk, the optimization and utilization of the three services (Hamilton Fire Department, Hamilton Police Service and Hamilton Beach Rescue Unit) resources is being recommended for implementation. This joint tri-service ice rescue response unit would be able to provide a more consistent, timely and safe response. The Hamilton Police Service and Hamilton Beach Rescue Unit would maintain their existing resources and level of deployment for ice rescue and Hamilton Fire Department resources would be trained to be able to provide shore based/on ice rescue. Shore based/on ice rescue involves the use of an inflatable rapid deployment craft that is tethered to the shore during deployment. Personnel outfitted in special thermal insulated wet suits and specialized equipment (also tethered by a rope secured on shore) then walk/slide/float out on the ice to the individual(s) in distress.

The addition of Hamilton Fire Department resources trained to provide shore based/on ice rescue services would:

- Allow Fire Department personnel to be strategically deployed from five current Fire Station locations (both Full Time and Volunteer) within the City, to fill the response gaps (based on the Police Marine Unit's deployment from their Harbour Front location) currently identified and improve response times.
- Ensure that the minimum staffing levels required to safely execute a shore based/on ice rescue would be available when needed.

The recommendation of a tri-service ice rescue response unit will involve no changes to the staffing of all three services or to the financial obligations of either the Hamilton Police Service or the Hamilton Beach Rescue Unit. Initial start-up costs for the Hamilton Fire Department to be able to participate in ice rescue response, including both training and equipment would be approximately \$200,000. This capital cost would be submitted by the Hamilton Fire Department for consideration by Council as part of the 2019 Capital Budget process.

Ice rescue and specifically in water ice water rescue is extremely dangerous. Recent fatalities during ice water rescue training led to a Coroner's Inquest being held in 2017. On May 25, 2017, the Coroner's Jury released its verdict which included 15 recommendations that included placing in abeyance all training exercises for ice/cold water rescue. The Coroner's Jury Recommendations is included as Appendix B to Report CES18010.

The Province of Ontario has adopted these recommendations and as a result all training programs of ice/cold water rescue have been put in abeyance until such time as new curriculum and training standards can be created and agreed upon by stakeholders.

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Based on recent information received from the Ontario Fire Marshal's Office, there has been progress in developing new curriculum and there could be an end to the moratorium sometime in 2018. Until the moratorium is lifted, training of Hamilton Fire Department staff cannot be planned or implemented. It would therefore be expected that with the necessary funding approvals and the availability of the applicable training courses, this joint tri-service ice rescue response unit would not be operational until December 31, 2019.

Alternatives for Consideration – See Page 10

FINANCIAL – STAFFING – LEGAL IMPLICATIONS

Financial:

The initial start up costs to train and equip Fire Department personnel is approximately \$200,000. These costs would be submitted as part of the 2019 Capital Budget process for consideration by Council. Ongoing equipment replacement costs would be built into future capital equipment replacement budgets. Ongoing training costs would be built into the overall Departmental training program and would be absorbed within the annual operating budget.

Initial Training Costs

These costs are based on the training of personnel from five fire stations (two career stations – 40 fire fighters and three volunteer stations – 75 fire fighters) to ensure 24/7 coverage and timely response to all areas of the City.

TRAINING COURSE	COST PER PERSON	TOTAL COST (115 FIREFIGHTERS)
Awareness Level Course E - Learning	\$35	\$4,025
Operations Level Course 2 day course	\$395	\$45,425
Technician Level Course 2 day course	\$395	\$45,425
TOTAL		\$94,875
Instructors Level Course 3 day course for 6 firefighters only	\$750	\$4,500
TOTAL		\$99,375

Initial Equipment Costs

These costs are based equipment needs for five fire stations (two career stations and three volunteer stations) with sufficient equipment for five personnel from each station.

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EQUIPMENT	COST (each)	TOTAL COST (5 STATIONS) (5 FIREFIGHTERS)
Ice Water Rescue Personal Protective Suits Mustang Ice Commander Pro Suits (25 suits)	\$1,500	\$37,500
Rescue Sling Kit (Includes Tether Haul Kit, Ice Picks x 2, Sling Collar and a Rescue Board (5 Kits))	\$3,000	\$15,000
Fortuna Rapid Deployment Sled (5 Sleds)	\$6,000	\$30,000
Rescue Tethers and Carabiners (25 of each)	\$150	\$3,750
Floating Rescue Rope – 300' 2 ropes per station (10 in total)	\$400	\$4,000
Rescue Knives, Helmets and Cleats (25 needed)	\$180	\$4,500
TOTAL		\$94,750

Approximate Overall cost: \$99,375 (training) + \$94,750 (equipment) = \$194,125.

Any annual costs associated with ongoing training and equipment replacement would be covered within annual operating budgets. All pricing does not include HST. With taxes rounded up the cost will be approximately \$200,000.

Staffing:

No additional staffing requirements are necessary for the Hamilton Fire Department, Hamilton Police Department and the Hamilton Beach Rescue Unit relative to the delivery of ice rescue response.

Legal:

There will need to be an amendment to By-law 68-34 (Hamilton Fire Department Establishing and Regulating By-law) to enable and authorize the Hamilton Fire Department to perform additional duties related to shore based/on ice rescue.

HISTORICAL BACKGROUND

The Hamilton Fire Department has provided specialized rescue services including shore based water rescue, confined space rescue, high angle rope rescue and hazardous material response for approximately 30 years. These are in addition to our standard emergency response, fire protection and prevention services. The Hamilton Fire Department does not provide any in water rescue services or any ice rescue services. Current equipment utilized for shore based water rescue includes a throw bag (small bag with a length of floating rope inside), other floats including ring buoys and jim buoys

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or an inflated fire hose. The use of these devices allows Hamilton Fire Department personnel to reach a person in the water no further than 100' (30m) from shore.

Prior to amalgamation, in water rescue response was provided by the former Township of Glanbrook Fire Department (Binbrook Station). This was in place primarily for responses to the Binbrook Conservation Area. This response did not include ice rescue. At the time of amalgamation, it was found that the equipment utilized for the in water rescues was in need of replacement and significant additional staff training was required. A decision was made to remove this limited service from the mandate of the Hamilton Fire Department.

Ice and water rescue functions were traditionally performed by the former Hamilton Harbour Police specifically in the Harbour, Lake Ontario and abutting areas. With the disbanding of the Hamilton Harbour Police in 1986, these search and rescue functions along with all enforcement (including the Canada Shipping Act) and prevention functions became the responsibility of the Hamilton-Wentworth Regional Police and subsequently the Hamilton Police Service. As a result, the Hamilton Police Service has been the only emergency service available with personnel trained to respond to any off shore water and ice water incidents, not only in the Harbour but to all other bodies of water in the City of Hamilton.

The City of Hamilton is also fortunate to have a group of dedicated volunteers who are well trained in water and boat rescue techniques. The Hamilton Beach Rescue Unit is an auxiliary Canada Coast Guard unit located on the Lake Ontario side of the Hamilton Beach, who respond year round to water and boat emergencies, primarily on Lake Ontario. The Hamilton Beach Rescue Unit will respond to requests for assistance from both the Hamilton Police Service and the Hamilton Fire Department.

In December of 2006, the Hamilton Beach Rescue Unit were requested to assist with severe flooding in the Greenhill Avenue/National Drive neighbourhood. Utilizing various watercraft, the Hamilton Beach Rescue Unit were instrumental in assisting residents with evacuation of their homes across flooded streets and properties. Following this incident, the Hamilton Fire Department worked with the Hamilton Beach Rescue Unit and developed a procedure in which our communication staff could page out Hamilton Beach Rescue Unit personnel to an incident. In addition, radio channel interoperability was achieved so that we could communicate directly with each other at a scene. The Beach Rescue Unit have limited ice water rescue capabilities, focusing on responding to people in distress along the Lake Ontario shoreline where shelf ice forms. Their shore based ice water rescue involves the use of flexible ladders.

Within the Hamilton City limits there are a number of bodies of water where the potential for an ice water rescue could take place. These include but are not limited to: Lake Ontario, Hamilton Harbour, Cootes Paradise, various Conservation Areas, small lakes

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and ponds including various water retention ponds. While these bodies of water have many positive impacts on the community they also have the potential to provide a number of unique operational risks to emergency services if the rescue of person(s) is needed when these bodies of water are frozen.

Information received from the Hamilton Police Marine Unit identified two ice water rescues performed by their Marine Unit Officers in 2017. A review of Hamilton Fire Department responses for open water rescues over the past five years revealed only one incident that involved a rescue of an individual who had fallen through ice. As previously indicated, the frequency of calls is low however the consequences/risk can be severe.

POLICY IMPLICATIONS AND LEGISLATED REQUIREMENTS

There are no corporate policies or legislative requirements impacted by the recommendations listed in this report. Depending on the direction taken, there will be a need for internal Hamilton Police Service and/or Hamilton Fire Department policies that will require development and/or amending.

There is one other mitigating factor when considering timelines and the specialized training requirements for ice rescue, and that is the present suspension of Ontario Fire Marshal recognized training programs that meet NFPA standards. As previously identified in this report, these training programs were suspended due to a Coroner's Jury recommendations. The recommendations were the result of an inquest into the deaths of a Volunteer firefighter with the Point Edward Fire Department who died January 2010 and a Pre - fire service student at Durham College who died February 2015, both during in water/ice rescue training exercises.

The Coroner's Jury recommended that there was a need to put all training of ice/cold water rescue and swift water rescue in abeyance until such time new curriculum and training standards are created and agreed upon by stakeholders. The jury also recommended amendments to some existing legislation and regulations to ensure appropriate health and safety issues are addressed (i.e. *Ontario Occupational Health and Safety Act*). There has been a recent update to the Ontario Coroner's Office by the Ontario Fire Marshal that suggests there has been progress in developing new curriculum that will adhere to updated standards. This could then see an end to the moratorium sometime in 2018. If this is successful, it will still require training providers that we may procure, to adapt their programs in order to meet the new standards and to create a program calendar.

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RELEVANT CONSULTATION

Several other Ontario Fire Departments, based on their geographical location, do provide a form of ice water rescue. Capabilities of those Departments are varied based upon needs. The Hamilton Police Marine Unit and the Hamilton Beach Rescue Unit were contacted for input to this report.

ANALYSIS AND RATIONALE FOR RECOMMENDATION

Mitigation of Risk

The existing response capabilities of both the Hamilton Police Service and the Hamilton Beach Rescue Unit's to incidents throughout the City suggests that consideration must be given to increasing the resources and/or changing the way that the City delivers ice rescue response.

To mitigate the current and potential risk, the optimization and utilization of the three services (Hamilton Fire Department, Hamilton Police Service and Hamilton Beach Rescue Unit) resources is being recommended for implementation. This joint tri-service ice rescue response unit would be able to provide a more consistent, timely and safe response. While the Hamilton Police Service and Hamilton Beach Rescue Unit would maintain their existing resources and level of deployment, Hamilton Fire Department resources would be added to fill the current service delivery gaps. With the approval of Council and the updating of the Establishing and Regulating By-law for the Fire Department, the Hamilton Fire Department through the acquisition of specialized equipment and completion of training would implement shore based/on ice rescue capabilities into their service delivery. The addition of Hamilton Fire Department resources would provide similar on-ice rescue capabilities as the Hamilton Police Service and would complement those existing resources of the Hamilton Police Service. Having these additional resources at a scene would ensure that the minimum safety requirements in terms of the number of personnel on scene are met.

The combined tri-services response unit can provide a far superior model than the individual services can provide on their own. With the addition of Hamilton Fire Department resources that are already strategically located throughout the City near the highest hazard areas, there is a significant potential to reduce the current level of risk and to strengthen the current service delivery model. Response times to incidents can be improved upon and rescue capabilities would be enhanced. The creation of a joint tri-services (Hamilton Fire Department, Hamilton Police Service and Hamilton Beach Rescue Unit) ice rescue response unit would have the most probable opportunity for increased positive outcomes for people requiring ice rescue service across the City. There would be an increase in the number of specially trained personnel who would be readily available to respond in a timely manner to an ice rescue emergency.

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Based upon the locations of the various bodies of water across the City of Hamilton, the Hamilton Fire Department shore based/on ice rescue teams would be deployed from a combination of both volunteer stations and career stations. Shore based/on ice rescue teams strategically deployed across the City would allow for the Hamilton Fire Department to effectively respond in a timely manner to incidents that may occur on inland waters and on both the harbour and Lake Ontario.

Shore based/on ice rescue involves the use of an inflatable rapid deployment craft that is tethered to the shore during deployment. Personnel outfitted in special thermal insulated wet suits and specialized equipment (also tethered by a rope secured on shore) then slide/float out on the ice to the individual(s) in distress. They are typically limited to a distance of 300 – 500 feet from shore, as that is the maximum rope length for these types of incidents.

For the purpose of this report and based upon the various locations of waterways to which a shore based/on ice response may be necessary, it is being recommended to have three volunteer stations and two career stations trained and equipped to respond to a shore based/on ice rescue call. The determination of which stations would be equipped will be determined at a later date after a more comprehensive analysis is completed.

Some waterways and areas of concern are as follows:

- **Hamilton Harbour** – During extremely cold winters, the harbour has been known to freeze over 90%. Increasingly, the harbour has become a recreational destination of choice. Development's which include Pier 4, Waterfront park, the waterfront trail system, Williams Cafe, the outdoor skating rink have added to increasing popularity of the harbour. Activities such as ice fishing, skating and ice boat sailing occur within the harbour. These activities and venues tend to bring more citizens to the waterfront which in turn increases the probability of an incident occurring.
- **Cootes Paradise** - While generally shallow, there are many areas of deep water. Cootes Paradise is popular for skating, ice fishing and hiking as it borders many of the year round trails of the RBG.
- **Confederation Park** – The park borders Lake Ontario and contains a couple of large ponds on site and is in close proximity to the waterfront trail system.
- **Fifty Point Conservation Area** – This site contains a large fishing pond which is used for ice skating as well as a large marina with numerous boat slips which when frozen is used for ice skating and fishing.
- **Binbrook Conservation Area** – This site contains a 175 hectare man-made lake which also borders many private homes. Winter activities include ice fishing, skating and hiking.

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- **Valens Conservation Area** – This site contains a 76 hectare lake and is a popular winter activity area with activities that include ice fishing, skating and hiking.
- **Christie Conservation Area** – This site contains a large man-made lake as well as large streams. Winter activities include ice skating, cross country skiing and hiking.
- **Mountsberg Conservation Area** – This conservation area is split on the boundary with Halton Region. Winter activities include ice skating, ice fishing, cross country skiing and hiking.

The Hamilton Fire Department currently has radio interoperability with the Hamilton Beach Rescue Unit and utilizes the same radio system as the Hamilton Police Service. Mobile and portable radios from both the Hamilton Police Service Marine Unit and the Hamilton Fire Department could be reprogrammed to include a common channel that would be utilized by both services for more effective communication at a scene. In addition, Hamilton Fire has the ability to “patch” the Beach Rescue radios onto this operational channel thus allowing all three agencies to operate on a single radio channel, enhancing the delivery of this rescue service.

ALTERNATIVES FOR CONSIDERATION

Option A

Hamilton Police Service discontinue the provision of ice rescue services completely and the Hamilton Fire Department increases rescue capabilities to include shore based and in water ice rescue. The Hamilton Beach Rescue Unit would be utilized to augment where possible. This would require in addition to the equipment and training costs previously identified, additional costs for all fire department personnel in ice rescue stations to obtain rescue training in boating safety and boat operations proficiency. They would require Transport Canada recognized training for each fire fighter to include, a Safe Boating Card, Small Vessel Operator Proficiency (SVOP) certification, and Small Non-Pleasure Vessel Basic Safety (MED A3) certification. This would also require the purchase of an appropriate on ice/in water, powered response vessels with trailers, and the sundry support tools.

Financial:

The initial start up costs to train and equip Fire Department personnel is approximately \$500,000. These costs would be submitted as part of the 2019 Capital Budget process for consideration by Council. Ongoing equipment replacement costs would be built into future capital equipment replacement budgets. Ongoing training costs would be built into the overall Departmental training program and would be absorbed within the annual operating budget.

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Training Costs

These costs are based on the training of personnel from five fire stations (two career stations – 40 fire fighters and three volunteer stations – 75 fire fighters) to ensure 24/7 coverage and timely response to all areas of the City.

TRAINING COURSE	COST PER PERSON	TOTAL COST (115 FIREFIGHTERS)
Awareness Level Course E - Learning	\$35	\$4,025
Operations Level Course 2 day course	\$395	\$45,425
Technician Level Course 2 day course	\$395	\$45,425
TOTAL		\$94,875
Instructors Level Course 3 day course for 6 firefighters only	\$750	\$4,500
Safe Boating Card E-Learning	\$50	\$5,750
Small Vehicle Operator Proficiency (SVOP) 4 day course	\$600	\$69,000
Small Non-Pleasure Vessel Basic Safety (MED A3) – 2 day course	\$200	\$23,000
TOTAL		\$197,125

Equipment Costs

These costs are based equipment needs for five fire stations (two career stations and three volunteer stations) with sufficient equipment for five personnel from each station.

EQUIPMENT	COST (each)	TOTAL COST (5 STATIONS) (5 FIREFIGHTERS)
Ice Water Rescue Personal Protective Suits Mustang Ice Commander Pro Suits (25 suits)	\$1,500	\$37,500
Rescue Sling Kit (Includes Tether Haul Kit, Ice Picks x 2, Sling Collar and a Rescue Board (5 Kits)	\$3,000	\$15,000
Fortuna Rapid Deployment Sled (5 Sleds)	\$6,000	\$30,000
Rescue Tethers and Carabiners (25 of each)	\$150	\$3,750
Floating Rescue Rope – 300' 2 ropes per station (10 in total)	\$400	\$4,000
Rescue Knives, Helmets and Cleats (25 needed)	\$180	\$4,500
Ice Water Rescue Powered Watercraft and Trailer (2 required)	\$100,000	\$200,000
TOTAL		\$294,750

Overall approximated cost for Option A: \$197,125 (training) + \$294,750 (equipment) = \$491,875

Any annual costs associated with ongoing training and equipment replacement would be covered within annual operating budgets. All pricing does not include HST.

Staffing:

No additional staffing requirements for the Hamilton Fire Department, Hamilton Police Department and the Hamilton Beach Rescue Unit relative to the delivery of ice water rescue response.

Legal:

There will need to be an amendment to By-law 68-34 (Hamilton Fire Department Establishing and Regulating By-law) to enable and authorize the Hamilton Fire Department to perform additional duties related to shore base and in water ice water rescue.

Option B

Hamilton Police Service discontinue the provision of ice rescue services and the Hamilton Fire Department supplement its current service delivery in terms of rescue capabilities to include shore based/on ice rescue. The Hamilton Beach Rescue Unit would be utilized to augment where possible. The determination of Hamilton Fire

Department stations to be involved in ice rescue is based on those station locations relative to risk as it pertains to locations across the City where an ice rescue may occur.

Financial:

The initial start-up costs to train and equip Fire Department personnel is approximately \$200,000. These costs would be submitted as part of the 2019 Capital Budget process for consideration by Council. Ongoing equipment replacement costs would be built into future capital equipment replacement budgets. Ongoing training costs would be built into the overall Departmental training program and would be absorbed within the annual operating budget.

Training Costs

These costs are based on the training of personnel from five fire stations (two career stations – 40 fire fighters and three volunteer stations – 75 fire fighters) to ensure 24/7 coverage and timely response to all areas of the City.

TRAINING COURSE		COST PER PERSON	TOTAL COST (115 FIREFIGHTERS)
Awareness Level Course	E - Learning	\$35	\$4,025
Operations Level Course	2 day course	\$395	\$45,425
Technician Level Course	2 day course	\$395	\$45,425
		TOTAL	\$94,875
Instructors Level Course	3 day course for 6 firefighters only	\$750	\$4,500
		TOTAL	\$99,375

Equipment Costs

These costs are based equipment needs for five fire stations (two career stations and three volunteer stations) with sufficient equipment for five personnel from each station.

EQUIPMENT	COST (each)	TOTAL COST (5 STATIONS) (5 FIREFIGHTERS)
Ice Water Rescue Personal Protective Suits Mustang Ice Commander Pro Suits (25 suits)	\$1,500	\$37,500
Rescue Sling Kit (Includes Tether Haul Kit, Ice Picks x 2, Sling Collar and a Rescue Board (5 Kits))	\$3,000	\$15,000
Fortuna Rapid Deployment Sled (5 Sleds)	\$6,000	\$30,000
Rescue Tethers and Carabiners (25 of each)	\$150	\$3,750
Floating Rescue Rope – 300' 2 ropes per station (10 in total)	\$400	\$4,000
Rescue Knives, Helmets and Cleats (25 needed)	\$180	\$4,500
TOTAL		\$94,750

Approximate Overall cost for Option B: \$99,375 (training) + \$94,750 (equipment) = \$194,125

Any annual costs associated with ongoing training and equipment replacement would be covered within annual operating budgets. All pricing does not include HST.

Staffing:

No additional staffing requirements for the Hamilton Fire Department, Hamilton Police Department and the Hamilton Beach Rescue Unit relative to the delivery of ice water rescue response.

Legal:

There will need to be an amendment to By-law 68-34 (Hamilton Fire Department Establishing and Regulating By-law) to enable and authorize the Hamilton Fire Department to perform additional duties related to shore based on ice water rescue.

ALIGNMENT TO THE 2016 – 2025 STRATEGIC PLAN

Healthy and Safe Communities

Hamilton is a safe and supportive city where people are active, healthy, and have a high quality of life.

Our People and Performance

Hamiltonians have a high level of trust and confidence in their City government.

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APPENDICES AND SCHEDULES

Appendix A to Report CES18010: Hamilton Police Service background information

Appendix B to Report CES18010: Coroner’s Jury Recommendations