Please see the ***Gulf of Maine Initiative: Application Guidelines*** for instructions on completing this application form.

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| 1. **Organization Information** |  | |
| Name: Association of Canadian Delegates to the Gulf of Maine Council on the Marine Environment | | | |
| Address: Robert Capozi, Secretariat  C/O Department of Environment and Local Government  P.O. Box / CP. 6000 Fredericton, New Brunswick E3B 5H1 | | | |
| Phone: (506) 453-8946 Fax: (   )    -  Email: Robert.Capozi@gnb.ca | | | |
| Organization Type *(select one)*  Non-profit  Aboriginal  University / Academic Institution  Other | | | |
| Website Address *(if available)* www.gulfofmaine.org | | | |
| Charitable/Non-Profit Organization Registration No. *(if available)* | | | |
| Briefly describe your organization’s mandate *(up to 200 words)* | | | |
| The Association of Canadian Delegates to the Gulf of Maine Council on the Marine Environment supports the Canadian activities of the Gulf of Maine Council on the Marine Environment (Council). The Council established in 1989, is focused on completing their 2012-2017 Action Plan (please see the Council's website [www.gulfofmaine.org](http://www.gulfofmaine.org) for more information). They have the following goals:  Goal 1: Restored and Conserved Habitats - We envision a healthy and resilient Gulf of Maine where people and aquatic life thrive.  Goal 2: Environmental and Human Health - Environmental conditions support the health of people and the ecosystem.  Goal 3: Sustainable Communities - People who live and work in communities around the Gulf of Maine have information needed to adapt to the changing environment.  The Council recognizes the importance of developing resources for managers including analysis of contaminants of emerging concern. The purpose of these resources is to increase the knowledge of decision makers on the key issues affecting the health of the Gulf of Maine. The Council provides information in a form that is easily accessible without compromising scientific validity. The Council has a well demonstrated management capacity to successfully complete projects, such as this one, which build on their prior work. | | | |
| **Project Contacts** | *Contacts must be knowledgeable on the contents of the application.* | | |
| Name: Dr Peter G. Wells | | Name: Dr. Gareth C.H. Harding | |
| Title: Canadian Co-Chair, Gulfwatch; Adjunct Professor, Dalh.U usie | | Title: Independent Consultant | |
| Phone (work): (902) 237-0600 | | Phone (work): (902) 422-7115 | |
| Phone (alternate): (902) 477-3674 | | Phone (alternate): (   )    - | |
| Email: oceans2@ns.sympatico.ca | | Email: Gareth.Harding@dfo-mpo.gc.ca | |

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| **2. Project Summary** |  |
| Project Title: Monitoring selected chemicals of emerging concern in mussels in the Bay of Fundy | |
| Project Location: Halifax, NS and Moncton, NB.  *(community, city, town, region, province within the Canadian side of the Gulf of Maine watershed)* | |
| Start Date Jan 2015 End Date March 2016 Length 15 months *(maximum 15 months)* | |
| Please provide a brief summary describing your project *(approximately 200 words)*.  This project is for the continuation of the Gulfwatch mussel monitoring program, initiated in 1991, run continuously from 1993 with a focus on the EPA priority toxic chemicals, producing a unique data and information base on the presence, distribution, levels and potential risks of persistent chemicals in marine organisms in the Gulf of Maine, including the Bay of Fundy. In this proposed project, the focus will be on selected CECs (chemicals of emerging concern) in mussel tissues, chemicals not previously analysed in this program, but known to be in the ecosystem from studies with marine mammals and fish (herring), and unstudied at lower trophic levels. There are many CECs of great concern and risk in coastal ecosystems – they include organotins, alkylated PAHs, toxaphene, personal care products, various endocrine disrupters, PBDEs, PFCs, pyrethroid pesticides, PPCPs, etc. It is the opinion of the Gulfwatch team that the group should measure the standard EPA chemicals less frequently now and initiate a program concentrating on a selection of such CECs, the preferred ones to start with being toxaphene and PBDEs. Hence a small subset of tissue samples from the Bay of Fundy sites, each year for two years, will be analysed for these two analyte categories, and the data compared to levels found in marine organisms in other coastal areas. If possible, depending upon the analytical techniques employed (e.g. GC-MS), data on other CECs of interest may be obtained. | |
| Funding amount requested (by fiscal year):  January 2, 2015 to March 31, 2015: $30,188.    April 1, 2015 to March 31, 2016: $26,737.  Total request: $56,925 | |
| **Prior History with Environment Canada:**  Identify if your organization is a new or returning applicant/recipient of funding from Environment Canada. | |
| First time applying for funding   Previously applied but did not receive funding  Past recipient of funding | |
| Have you applied to other Environment Canada funding programs for this project?  *Yes  No*  *If yes, please specify which program(s) and the year funding was provided:*  We have had funding from Environment Canada for other Gulfwatch initiative, but not for the sampling and analysis of chemicals of emerging concern. | |

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| 1. **Project Description** |  | |
| 1. **Program Priority: Select one or more of the following Priorities that your project will address:** | |
| Enhance habitat conservation | |
| Inform decisions and actions on responsible development | |
| Increase understanding and monitoring of ecosystem health | |
| Identify and reduce key stressors to ecosystem health | |
| **Project Type: Select one or more of the following Types of Project you will undertake:** | |
| Planning and Coordination | |
| Science, Research and Monitoring | |
| 1. **Project Purpose:**   In a few sentences, explain the purpose of this project. Describe the priority/priorities being addressed, how they will be addressed through this project and why the project is important to the Gulf of Maine ecosystem. | |
| The project’s purpose is to expand the established and well recognized long-term Gulfwatch program, monitoring toxic chemical contaminants in blue mussels, to include a focus on CECs or chemicals of emerging concern. It is vitally important to monitor persistent industrial chemicals in coastal and marine ecosystems, for the purposes of protecting both human and ecosystem health. Given the high economic importance of the shellfish industry on Maritime Canada, and the ecological importance of blue mussels (*Mytilus edulis*) to coastal wildlife (birds and mammals), knowledge of the presence, location and levels of persistent chemicals in mussel tissues is vitally important. The Gulfwatch program has a robust data base on the EPA chemicals. This project will initiate a refocussing of the program to CECs, starting with two – toxaphene and PBDEs. Toxaphene is a complex chlorinated pesticide mixture that is a known persistent organic pollutant (POP) and is banned globally; due to its long use, it is widely distributed in the environment and is of great concern due to its high toxicity to a range of organisms, and suspected carcinogenicity. PBDEs or polybrominated diphenyl ethers are flame retardants that are endocrine disruptors, with known or suspected reproductive and neurological effects in a range of organisms, including humans. The Gulfwatch team reached a consensus over the past two years that these two compound categories should be the focus of the re-focussed program. It will provide important information contributing to the ecological risk assessment of these compounds in the Bay of Fundy-GOM ecosystem. | |
| 1. **Project Goals and Objectives:**   Identify project goals and objectives that will be achieved within the timeframe of the project. Clearly explain how the project will benefit the Gulf of Maine ecosystem. | |
| This project will evaluate the presence, locations and levels of the two chosen CECs in the Bay of Fundy-GOM ecosystem, over a two year, two sampling period. Mussel samples will be obtained from a selection of the established Gulfwatch sites in the Bay of Fundy, processed and analysed, and data will be interpreted, including comparing the results to those from other coastal regions. The data will enable an evaluation of the risks of these two chemical categories to marine organisms (wildlife) in the GOM region, as well as provide a data set for evaluation of human health risks. | |
| **d) Key Activities/Work Plan:**  Describe the proposed project, providing details of the activities to be undertaken, the techniques involved, and planned timelines. | |
| Sampling at five NS sites and five NB sites will take place over two sampling seasons, Fall 2014 and Fall 2015. Hence the project starts prior to confirmed funding, of necessity due to the program always sampling post spawning mussels each fall from its established sites. In each season, four samples will be taken at each site, following the standard Gulfwatch sampling protocol; all samples will be processed and stored, but only two from each site will be randomly chosen for analysis, with two archived for future analyses. The analytical techniques will be those of either the EC labs in Moncton or the Battelle Analytical Laboratories, Battelle being established in this field and having been the contracting laboratory in the past. For both analyte categories, GC-MS techniques are employed, using standard EPA certified procedures (more information is available from the Moncton EC labs on the specifics of the techniques). The samples from each fall will be measured and reported upon by March of the following year, hence the data from 2014 will be available March 2015, the data from Fall 2015, by March 2016. The data and reports will be made available through the Gulf of Maine Council website and Ecosystem Indicator web tools. | |
| Please provide a **detailed** project work plan below, describing the activities and time frames. | |
| |  |  |  | | --- | --- | --- | | Activity | Description & Results | Time Frame | | Sampling Fall 2014; samples processed fall 2014. | Mussels are sampled from 10 sites, 5 in NB and 5 from NS. The samples are sent to the BIO laboratory for processing (de-watering, shucking, combining). | October-November 2014. | | Samples stored for analysis, fall 2014; samples analysed winter 2014-15. | The samples are stored in the deep temperature freezer at BIO, Dartmouth. The samples are sent to the contracting lab for analysis during the period Jan-March 2015.  Data are compiled and reported upon to the Gulfwatch Co-Chairs. | January-March 2015. | | Sampling Fall 2015; samples processed fall 2015. | Mussel are sampled from 10 sites, 5 in NB and 5 from NS. The samples are sent to the Bio laboratory for processing (de-watering, shucking, combining). | October-November 2015. | | Samples stored for analysis fall 2015; samples analysed winter 2015-16. | The samples are stored in the deep temperature freezer at BIO, Dartmouth. The samples are sent to the contracting lab for analysis during the period Jan-March 2016.  Data are compiled and reported upon to the Gulfwatch Co-Chairs. | January-March 2016. | | Uploading data to Gulf of Maine Council’s ESIP indicator reporting tool, announce new data, release ESIP Journal Entry. | The project leads will coordinate with ESIP to make data accessible to decision makers | January to March 2016 | | |

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| 1. **Project Team Experience:**   Identify relevant qualifications and experiences of the project team members to demonstrate the organization’s experience and capacity to carry out the project. |
| The Gulfwatch team, formerly the Gulfwatch Contaminants Monitoring Sub-Committee of the Gulf of Maine Council on the Marine Environment (GOMC), has been in place since 1991, with various members representing the jurisdictions and departments involved in the GOMC. Current members collectively are very knowledgeable about coastal monitoring (Harding, Wells, Jones), mussels (all members), sampling and sample preparation (Harding, Taylor, Bagnall, Roach, Thorpe), chemical contaminant analyses (Aube, Losier, Harding), ecotoxicology (Wells, Harding), and data analysis (Losier, Harding, Jones, Krahforst). Over the program since 1991, we have produced **78** papers, reports, posters, formal conference talks, and talks at GOMC meetings. One of our papers (Chase *et al.* 2001, Mar. Pollut. Bull.) has been cited 130 times, to date. Harding has just completed two major contaminant reviews for the GOMC (see [www.gulfofmaine.org/stateofthegulf](http://www.gulfofmaine.org/stateofthegulf)). We have attached evidence of our production to this proposal. Hence, we clearly have the expertise, experience, and drive to carry out this proposed work. |
| 1. **Project Partners:**   Detail the involvement and role of all project partners. (Do not include financial details here). |
| Project partners described are the Canadian members of the Gulfwatch team, residing in NS and NB, with the exception of Jones and Krahforst from the USA, who have been and are crucial members of the overall program.  **(Dr.) Peter Wells (Dalhousie University, International Oceans Institute; Environment Canada – retired)**  Gulfwatch Canadian Co-Chair; leader of the program; chair of Gulfwatch coordination meetings; attendance and talks on Gulfwatch at GOMC-WG meetings, every year; occasional assistance with sampling and sample processing; preparation of presentations and papers on Gulfwatch. Long-term member.  **(Dr.) Gareth Harding (Fisheries and Oceans – Scientists Emeritus)**  Original member of Gulfwatch Environmental Quality Monitoring Committee; Annual sampling at Bay of Fundy stations; sample preparation at DFO-BIO; preparation of papers and reviews on Gulfwatch and on contaminants in the GOM, especially organic compounds.  **Darrell Taylor (NS Department of Environment)**  NSE’s involvement in Gulfwatch includes both ongoing field work and Gulfwatch committee work - including drafting the annual Gulfwatch reports. Long-term member of Gulfwatch.  **Andrew Bagnall (NS Department of Fisheries and Aquiculture)**  Collection of NS field samples and help with initial processing of mussel samples at BIO, Dartmouth. Long-term member of Gulfwatch.  **Shawn Roach (Fisheries and Oceans, Bedford Institute of Oceanography)**  Coordination of NS sampling, field sampling (when needed), and the preparation of samples (NS & NB) for sending onwards to the contract analytical laboratories for analysis (same as previous years).  **Melanie Losier/Jamie Aube (Environment Canada, Environmental Sciences laboratory, Moncton, NB)**  Our lab can continue to offer support in the analysis of substrates collected for monitoring contaminants in the GoM. They may include arranging for contracts with other laboratories, arranging for transfer of samples between labs, storing samples in our freezers, attending coordination meetings of Gulfwatch, etc. Jamie is a long standing member of Gulfwatch, responsible for many years for the organic analyses, and can offer advice related to the program. Ms. Losier is new to the program but is familiar with its history, needs, analytical methods and overall objectives.  Environment Canada has been an active partner with the Gulfwatch Program for over 20 years. Contribution to this program starts at the planning stages where the type of analysis is discussed in meetings with the different collaborators. Environment Canada's expertise is also sought for analysis in our ISO 17025 accredited laboratories. Over the past years, Environment Canada has provided expertise in analysis of various organic contaminants like Organochlorine Pesticides, Polychlorinated Biphenyl (PCB), Polyaromatic Hydrocarbons (PAH) and Alkylated PAH. The Gulfwatch Program is evolving and looking at new emerging contaminants (i.e. Polybrominated Diphenyl Ether) of which were developed in parallel as regular testing under this same program. There is also a tight collaboration with the different partners of this program in regards to planning, sampling, report drafting as well as archiving samples for future studies. Environment Canada has been actively involved in all these aspects.  **Bruce Thorpe (Department of Agriculture, Aquaculture and Fisheries, Government of New Brunswick)**  Involvement with Gulfwatch is mostly field work.  This includes sample collection from the various stations in Southwestern NB, initial sample preparation and involvement in Gulfwatch meetings as required. Long-term member of Gulfwatch.  **(Dr.) Steve Jones (Jackson Marine Laboratory, University of New Hampshire, Durham, NH)**  Coordinator for annual sampling and sample transfer between laboratories; attendance and participation at Gulfwatch meetings; analysis of data and preparation of papers and reports on Gulfwatch results. Original and long-term member of Gulfwatch.  **(Dr.) Christian Krahforst (Washington College, Maryland/Univ. Mass, Boston)**  USA Co-ordinator of Gulfwatch; attendance and participation at Gulfwatch meetings; analysis of data and preparation of papers and reports on Gulfwatch results. Long-term member of Gulfwatch. |

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| 1. **Evaluation** |  | | |
| 1. **Evaluation Plan:**   Provide an evaluation plan that clearly demonstrates how you will assess whether the project goals and objectives have been met. The plan should include the methodology and any calculations/formulas used to measure your project’s results. | | | |
| We will produce a data report at the end of each season and set of analyses (March 2015, March 2016), and upload data to the ESIP reporting tool. In addition, a final publishable paper analysing, interpreting and summarizing the new data on the two selected chemicals, no later than end of 2016. | | | |
| 1. **Performance Indicators:**   Please complete your projected targets in the following ‘Indicators’ list. *You will be expected to report on these targets in project progress reports.* | | | |
| **Indicator:** | | **Target value** | **Unit (measure)** |
| Frameworks to assess key stressors | |  | Hectares covered |
| Geo-referenced map(s) that support health assessment | |  | Hectares covered |
| Monitoring plans implemented | | 2 seasons of monitoring, at 10 sites, both sides of the Bay of Fundy | Bay of Fundy – 16,000 sq km. |
| Number of data sharing plans/mechanisms created | | One – the data reports will be placed on the GOMC website | GOMC website |
| Number of integrated planning reports shared publicly | |  | Reports |
| Number of recommendations incorporated into decisions and actions to enhance habitat conservation and responsible development | | One or more, depending upon outcome of the analyses | One set of recommendations |
| Number of Joint priorities / plans developed | |  | Priorities |
| Number of collaborative activities | |  | Activities |
| Number of partners or organizations involved | | seven | Partnerships |
| Number of recipients of shared information | | All members of the GOMC – 5 jurisdictions, over 10 partnering agencies of the Council | Recipients |
| Number of jobs created | |  | Jobs |

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| 1. **Budget** | |  | | | | | | | |
| Please complete the following ‘Cash Flow Forecast’ with complete budget details, including all project contributors. | | | | | | | | | |
| **5.1 Total Project Funding** | | | \*Confirmed? | **Jan 2015 -**  **March 2015** | | **April 2015 -**  **March 2016** | | **Total** | |
| Contributor Name | Contributor Type | | **Cash** | **In-Kind** | **Cash** | **In-Kind** | **Cash** | **In-Kind** |
| Environment Canada | Environment Canada | | Cash –No; Match -Yes | 30,188 | 900 | 26,737 |  | 56,925 | 1,800 |
| Nova Scotia Environment | *Provincial Government* | | *Yes* |  |  |  | 5,000 |  | 5,000 |
| Nova Scotia Department of Fisheries and Aquiculture | *Provincial Government* | | *Yes* |  |  |  | 300 |  | 300 |
| New Brunswick Department of Agriculture, Aquiculture and Fisheries | *Provincial Government* | | Yes |  |  |  | 1,750 |  | 1,750 |
| Gulfwatch Co-chair  (Christian Krahforst) | Other | | Yes |  | 1,000 |  | 1,000 |  | 2,000 |
| Gulfwatch Co-Chair (Peter Wells) | Other | | Yes |  | 10,000 |  | 17,000 |  | 27,000 |
| Independent Consultant (Gareth Harding) | Other | | Yes |  | 6,000 |  | 10,800 |  | 16,800 |
| Bay of Fundy Ecosystem Partnership | Other | | Yes |  | 500 |  | 1,000 |  |  |
| Department of Fisheries and Oceans Canada | Other Federal Department | | Yes |  |  |  | 1,513 |  | 1,513 |
| **TOTAL** | | | | 30,188 | 18,400 | 26,737 | 39,263 | 56,925 | 57,663 |
| \*Confirmation of partner contributions must be submitted before the Contribution Agreement is signed with Environment Canada (if the proposal is successful). | | | | | | | | | |

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| **5.2 Total Project Expenditures** | | **January 2015 -**  **March 2015** | | **April 2015 -**  **March 2016** | | **Total** | |
| Expenditure Detail | Expenditure Type | **Cash** | **In-Kind** | **Cash** | **In-Kind** | **Cash** | **In-Kind** |
| Sample Analysis  (PBDE analysis for 20 samples and Toxaphene analysis for 20 samples plus lab charges such as freezer space during time of this project -– estimated by EC Moncton lab and Peter Wells) | Contractors | 21,750 |  | 18,250 |  | 40,000 |  |
| Sample Shipping | *Other* | 1,000 |  | 1,000 |  | 2,000 |  |
| Sample collection and office supplies | *Material and supplies* | 2,500 |  |  |  | 2,500 |  |
| ESIP Program Manager and Gulfwatch Outreach ($36.13/hour) | Contractual | 1,000 |  | 4,000 |  | 5,000 |  |
| Nova Scotia Environment  (Letter states $10,000 - $5,000 for 2014 not included here, only 5,000 for 2015-2016 included as is true with all in-kind match) | *Management and Professional Services* |  |  |  | 5,000 |  | 5,000 |
| Nova Scotia Department of Fisheries and Aquiculture (Andrew Bagnall**)** | *Management and Professional Services* |  |  |  | 300 |  | 300 |
| New Brunswick Department of Agriculture, Aquiculture and Fisheries  (Bruce Thorpe) | *Management and Professional Services* |  |  |  | 1,750 |  | 1,750 |
| Gulfwatch Co-chair  (Christian Krahforst, Department of Environmental Science and Studies, Washington College, Chestertown, Maryland) | *Management and Professional Services* |  | 1,000 |  | 1,000 |  | 2,000 |
| Gulfwatch Co-Chair (Peter Wells,  Adjunct Professor and Senior Research Fellow, Dalhousie University, Halifax, Nova Scotia) | *Management and Professional Services* |  | 10,000 |  | 17,000 |  | 27,000 |
| Gareth Harding  (Independent Consultant, Nova Scotia) | *Management and Professional Services* |  | 6,000 |  | 10,800 |  | 16,800 |
| Bay of Fundy Ecosystem Partnership | *Management and Professional Services* |  | 500 |  | 1,000 |  | 1,500 |
| Environment Canada  (Atlantic Laboratory for Environmental Testing, Moncton, NB) | *Management and Professional Services* |  | 900 |  | 900 |  | 1,800 |
| Department of Fisheries and Oceans Canada (Shawn Roach) | *Management and Professional Services* |  |  |  | 1,513 |  | 1,513 |
| Administration | Overhead | 3,938 |  | 3,487 |  | 7,425 |  |
| **TOTAL** | | 30,188 | 18,400 | 26,737 | 39,263 | 56,925 | 57,663 |

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| **5.3 Use of ENVIRONMENT CANADA Funding** | | **January -**  **March 2015** | | **April -**  **June 2015** | | **July -**  **September 2015** | | **October -**  **December 2015** | | **January -**  **March 2016** | |
| Expenditure Detail | Expenditure Type | **Cash** | **In-Kind** | **Cash** | **In-Kind** | **Cash** | **In-Kind** | **Cash** | **In-Kind** | **Cash** | **In-Kind** |
| Sample Analysis | *Contractors* | 21,750 |  |  |  |  |  | 18,250 |  |  |  |
| Sample Shipping | *Other* | 1,000 |  |  |  |  |  | 1,000 |  |  |  |
| Sample collection and office supplies | *Material and Supplies* | 2,500 |  |  |  |  |  |  |  |  |  |
| ESIP Program Manager/ Gulfwatch Coordination | *Contractors* | 1,000 |  |  |  |  |  |  |  | 4,000 |  |
| Environment Canada (lab Assistance) | *Other* |  | 900 |  |  |  |  |  | 900 |  |  |
| Administration | *Overhead* | 3,938 |  |  |  |  |  | 2,887 |  | 600 |  |
| **TOTAL** | | 30,188 | 900 |  |  |  |  | 22,137 | 900 | 4,625 |  |

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| 1. **Application Checklist** |  |
| Applications will be accepted by an Environment Canada regional office **on or before the October 3rd, 2014** application deadline. Email your completed forms to [GMI-IGM@ec.gc.ca](mailto:GMI-IGM@ec.gc.ca). If you are unable to email, contact us for information on alternative ways to submit your application.  The application package should include:  A complete and signed *Application Form*  A complete *Budget Cash Flow Forecast*  Target *Performance Indicators*  Letters of confirmation from other funding sources, cash and in-kind. It is highly recommended that all letters be forwarded with the *Application Form (if unavailable at the time of submission, letters may follow at a later date but before contribution agreements are negotiated)*. *(Note: all letters are to be dated and signed.)*  Other supporting information (if applicable) such as site maps; species lists; and general letters of support.  With the exception of letters confirming cash and in-kind support from other funding sources, which may follow at a later date, all other information and supporting documentation must be included with the *Application Form*. **No additional information received after the application deadline will be taken into consideration**.  For more information, please refer to the *Application Guidelines* document*.* For any questions, please contact an Environment Canada regional office. | | |

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| 1. **Certification** |  |
| I certify that the information provided in this application, including all enclosures, is accurate to the best of my knowledge and that I am authorized to sign on behalf of the organization | |
| Name: Robert Capozi | |
| Title: Canadian Association Secretariat | |
| Signature: | |
| Date: October 1, 2014 | |
| ***Reminder:*** *If you have not received a submission acknowledgement letter within 15 working days of the application deadline, please contact Environment Canada at the address below to confirm that your proposal was received.* | |

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| 1. **Contact Information** |  |
| For questions or concerns, please contact the Environment Canada office:  45 Alderney Drive 16th Floor, Queen Square Dartmouth, Nova Scotia B2Y 2N6 Phone: 902-426-8521 or 1-800-663-5755 (toll-free) Fax: 902-426-2062  **Email: GMI-IGM@ec.gc.ca** | |