

I hereby apply to the Minister for an Archaeological Licence under section 48 of The Ontario Heritage Act.  
Je sollicite par la présente du ministère un permis de recherche archéologique en vertu de l'article 48 de la Loi sur les biens culturels de l'Ontario.

Name of Applicant Nom du candidat	Christopher H. Phinney	Phone No. Numéro de téléphone	905-692-7322
Address Adresse	109 Cleghorn Dr.		
	Binbrook, ON	Postal Code Code postal	L0R 1C0

**Note:** Attach additional pages if the space for any answer is insufficient.

**Remarque :** Si l'espace manque, joindre des pages supplémentaires

**1. Is this an application for a renewal of a licence?**

**S'agit-il d'une demande de renouvellement du permis?**

No  
(if No, go to question 2)  
Non  
(passer à la question 2.)

Yes  
(if Yes, give date and licence no. of previous licence)  
Oui  
(préciser la date et le numéro du permis antérieur ►)

Date

Licence No.  
Numéro de permis

**2. Purpose for which licence is requested**

**Motif de la demande de permis**

(a) Reasons for the project(s)  
Raisons des recherches

To gather an inventory as well as surveys of representative artifacts in the former Welland Canal (bypassed area).

(b) Research objectives of the project(s)  
Objectifs des recherches

As a popular recreational diving site, the old Welland Canal (also known as "The Welland SCUBA Park") has a number of unidentified artifacts within its boundaries, in addition to items placed on the bottom by its current management organization, the Welland Recreational Canal Corporation (WRCC) as enhancements to the site. This section of the canal is closed to all boat traffic and has been converted into a recreational waterway. Local diving organizations have added navigational lines staked out to aide divers in locating interesting objects or features.

Pre-dating the WRCC's management are several artifacts that are believed to be remnants of the former canal, including very large wooden "gears" or "cogs" approximately 2m in diameter and 0.5m thick as well as long (~10m) bundles of pipe and sections of possible docking structure.

The objectives of the project are as follows; geo-locate all of these objects as well as the navigational lines, overlay them on a chart and perform detailed surveys of several representative samples (ie. wooden gear cogs).

2. (c) Theoretical approach, strategy, or process planned to achieve these objectives  
 Approches théoriques, programmes ou mesures envisagés pour atteindre ces objectifs.

Using diver propulsion vehicles (DPVs) in concert with side scan sonar, objects will be located and marked with a plastic inventory tag giving them a unique identifier. Divers will mark those locations (temporarily) utilizing inflatable safety tubes while surface teams record the position and inventory number. Video, still photographs as well as sketches will be taken to document each object.

On completion of the inventory, several objects will be chosen for a detailed survey and scale drawings produced to assist researchers in identifying their origin and use.

- (d) Outline of current knowledge about relevant issues including  
 Aperçu des connaissances actuelles sur les questions étudiées, y compris :

the area to be studied l'aire d'exploration	This site is controlled by the Welland Recreational Canal Corporation, their permission and endorsement will be required to proceed.
the type of site(s) le genre de site(s)	The old canal can have poor visibility while diving if all team members do not have good bouyancy skills as the bottom is composed of a fine silt. For that reason, participants will be required to undergo a check out dive to ensure that their bouyancy and trim are satisfactory.
the particular site(s) le site comme tel	
the cultural group(s) l'appartenance culturelle	

3. The Site or Study Area  
 Le site ou l'aire d'exploration

- (a) Precise geographic location of the proposed field work (In organized territory: lot concession and township or municipal address. In un-organized territory; lake, rivers, and drainage regions.)  
 Préciser l'endroit où les travaux sur le terrain devraient avoir lieu. (Dans le cas d'un territoire aménagé, indiquer le lot et le canton ou l'adresse du conseil municipal. S'il s'agit d'un territoire non aménagé, indiquer les lacs, les rivières et les bassins.)

The former Welland Canal, bounded by its shoreline (east and west), the Main St. bridge (north) (42.991664° x -79.251499°) and the Humberstone Rd backfill (south) (42.962640° x -79.253424°).

4 corners of the search area;

NW Corner: 42.991012° x -79.252657° NE Corner: 42.990761° x -79.250810°

SW Corner: 42.962473° x -79.254487° SE Corner: 42.962510° x -79.251999°

3. (b) General description of physical characteristics of the research site or area  
Description générale des traits physiques du site ou de l'aire d'exploration.

Dredged canal site approximately 10m deep, 140m wide and 3.22km long. Silt covered bottom with aquatic plants along the banks and shallow areas.

**Please Note:** All parts of questions 4 to 7 must be answered on additional sheets of paper.

**N.B.** Se servir de feuilles supplémentaires pour répondre aux questions 4 à 7.

**4. Qualifications and Experience of Senior Personnel**

- (a) Academic background, achievement and training in the field of archaeology;
- (b) Corporations or academic or other institutions, if any, with which the archaeologist is affiliated, or under whose auspices the work will take place (give details of relationships);
- (c) Practical field experience;
- (d) Record of publications;
- (e) List of archaeological and related organizations of which the archaeologist is presently a member;
- (f) List of previous licences or permits received under this Act.

**4. Antécédents et expérience professionnelle**

- (a) Antécédents académiques, formation et résultats dans le domaine de l'archéologie.
- (b) Sociétés ou institutions professionnelles ou autres, s'il y a lieu, avec lesquels l'archéologue a des liens, ou qui assureront le parrainage des travaux (préciser la nature de ces liens).
- (c) Expérience pratique sur le terrain.
- (d) Publications.
- (e) Liste des organismes archéologiques et connexes dont l'archéologue est membre.
- (f) Liste des permis obtenus antérieurement en vertu de ladite loi.

**5. Methods and Procedures**

- (a) Description of each component of the project, with work schedule;
- (b) Description of facilities and personnel (including archaeological training and experience of each) to prepare and carry out field work. Include details of crew supervision;
- (c) Proposed methods of recovery of archaeological objects, including excavation techniques;
- (d) Proposed facilities and personnel (including archaeological training and experience of each) for analysis of data and archaeological objects recovered;
- (e) Proposed methods of dating;
- (f) Proposed methods of recording data and cataloguing archaeological objects;
- (g) Proposed facilities and personnel (including archaeological training and experience) for conservation of archaeological objects;
- (h) Proposed methods of conservation of recovered archaeological objects and other remains where necessary;
- (i) Proposed method of restoration of the site following excavation;
- (j) Proposed plans, if any, for the protection of a segment of the site for future archaeological work.

**5. Méthodologie et procédure**

- (a) Décrire chaque volet du projet ainsi que le calendrier des travaux.
- (b) Décrire les installations et le personnel (en précisant la formation et l'expérience archéologiques de chacun) prévus pour la préparation et l'exécution des travaux sur le terrain. Indiquer comment se fera la surveillance de l'équipe.
- (c) Méthodes envisagées pour récupérer les objets archéologiques, y compris les techniques d'excavation.
- (d) Installations et personnel (en précisant la formation et l'expérience archéologiques de chacun) prévus pour l'analyse des données ainsi que des artefacts découverts.
- (e) Méthodes de datation envisagées.
- (f) Méthodes prévues pour consigner les données et répertorier les objets archéologiques.
- (g) Indiquer les installations et le personnel (en précisant la formation et l'expérience archéologiques de chacun) prévus pour conserver les objets archéologiques.
- (h) Méthodes envisagées pour conserver, au besoin, les artefacts et autres vestiges découverts.
- (i) Méthode envisagée pour restaurer le site après l'excavation.
- (j) Plans proposés, s'il y a lieu, pour protéger une partie du site en vue de fouilles archéologiques futures.

**6. Financial and Material Resources**

- (a) The source(s) of funds that have been requested or received;
- (b) All agreements that have been made with respect to (a);
- (c) Proposed budget for the entire project, including preparation, field work, analysis, reporting and conservation, broken down into phases;
- (d) Equipment to be used (e.g. trucks, trailers, camping equipment, boats, cameras, etc.).

**6. Ressources financières et matérielles**

- (a) Origine des fonds sollicités ou reçus.
- (b) Ensemble des accords conclus relativement à (a).
- (c) Budget prévu pour la totalité du projet, y compris la préparation, les travaux sur le terrain, l'analyse, la rédaction de rapports et la conservation des objets découverts, selon une ventilation par phase.
- (d) Équipement nécessaire (par exemple : camions, remorques, matériel de camping, bateaux, appareils photographiques, etc.)

7. Long term care of archaeological objects and records

- (a) Proposed care of archaeological objects and records after conclusion of field work, but pending conservation and analysis;
- (b) Anticipated schedule for analysing and cataloguing recovered archaeological objects and data;
- (c) Proposed long term care of the archaeological objects and records to make them accessible for public, educational and scholarly uses, including consideration of public institutions in the locality of the property or properties where work has been carried out.

7. Préservation à long terme des objets et des dossiers archéologiques

- (a) Moyens proposés pour préserver les objets et les dossiers archéologiques une fois que les travaux sur le terrain sont terminés, en attendant que des mesures soient prises pour leur conservation et leur analyse.
- (b) Échéancier prévu pour l'analyse et le catalogage des données et des artefacts découverts.
- (c) Moyens de préservation à long terme préconisés dans le but de rendre les artefacts et les dossiers archéologiques accessibles au public, aux établissements d'enseignement et aux chercheurs, en tenant compte des organismes publics situés dans la région où les travaux ont été exécutés.

8. Reports  
Rapports

- (a) Proposed use of results of project, other than publication  
Utilisation prévue des résultats du projet, autre que la publication

The results of the project will be turned over to the Welland Recreational Canal Corp and local diving interest groups to assist in strategic decision making with regards to the the future use of their site.

- (b) Plans, if any, concerning publication of the results of project  
Projets, s'il y a lieu, concernant la publication des résultats des recherches

Report to be published on Liquid Archaeology website.

- (c) General schedule of phases and methods of publication  
Calendrier général des étapes et méthodes de publication

Final report to be published at conclusion of the project.

The collection, use and disclosure of personal information is governed by the Freedom of Information and Protection of Privacy Act. Personal information contained on this form is collected pursuant to the Ontario Heritage Act. The personal information is to be used for the purpose of processing this application. For further information contact:

Archaeology Licence Office  
Heritage and Libraries Branch  
Ministry of Tourism, Culture and Recreation  
Telephone: (416) 314-7158

**Note:** Under section 69 of the Act, it is an offence to knowingly furnish false information in this application or in any material required to be filed with the Minister.

La collecte, l'utilisation et la divulgation de renseignements personnels sont régies par la Loi sur l'accès à l'information et la protection de la vie privée. Les renseignements personnels contenus dans cette formule sont recueillis en vertu de la Loi sur le patrimoine de l'Ontario aux fins de traitement de cette demande. Pour plus amples renseignements, prière de s'adresser à :

Bureau de délivrance des permis de recherche archéologiques  
Direction du patrimoine et des bibliothèques  
Ministère du Tourisme, de la Culture et des Loisirs  
Téléphone: (416) 314-7158

**Remarque :** En vertu de l'article 69 de la Loi, quiconque donne sciemment de faux renseignements dans la présente demande ou tout autre document requis par le ministère pour ses dossiers se rend coupable d'une infraction.

Date <b>August 18, 2011</b>	Signature of Applicant Signature du candidat
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Please return completed application with all attachments to:

Prière d'envoyer la demande dûment remplie ainsi que toutes les pièces jointes à l'adresse suivante :

Archaeology Licence Office  
Heritage and Libraries Branch  
Ministry of Tourism, Culture and Recreation  
400 University Avenue, 4<sup>th</sup> Floor  
Toronto ON M7A 2R9  
Telephone: (416) 314-7158 Fax: (416) 314-7175

Bureau de délivrance des permis de recherche archéologiques  
Direction du patrimoine et des bibliothèques  
Ministère du Tourisme, de la Culture et des Loisirs  
400 avenue University, 4<sup>e</sup> étage  
Toronto ON M7A 2R9  
Téléphone: (416) 314-7158 Téléc.: (416) 314-7175

#### 4. Qualifications and Experience of Senior Personnel

- (a) Academic background, achievement and training in the field of archaeology;
- (b) Corporations or academic or other institutions, if any, with which the archaeologist is affiliated, or under whose auspices the work will take place (give details of relationships);
- (c) Practical field experience;
- (d) Record of publications;
- (e) List of archaeological and related organizations of which the archaeologist is presently a member;
- (f) List of previous licences or permits received under this Act.

a) All senior members (Chris Phinney, Bryan Thomas, John Millar, Oren Levstein and Chris Moore) of the project team have achieved the Nautical Archaeology Society, Part II: Intermediate Certificate in Foreshore and Underwater Archaeology.

Chris Phinney is the Sr. NAS Tutor for Save Ontario Shipwrecks and teaches basic archaeological techniques to volunteer divers across the province and is pursuing an undergraduate degree in anthropology at McMaster University in Hamilton, ON.

Bryan Thomas is a NAS Tutor for Save Ontario Shipwrecks and teaches basic archaeological techniques to volunteer divers across the province.

b) Team leaders, Chris Phinney and Bryan Thomas sit on the board of directors of Save Ontario Shipwrecks (a provincial marine heritage organization). In addition, Mr. Thomas sits on the board of directors of the Ontario Underwater Council. All senior members are also active members of the advocational group Liquid Archaeology.

c) Team members have participated in several surveys of the shipwreck "Southern Trail" in Lake Ontario as well as monitoring surveys of the shipwreck "Sligo" located in Humber Bay near Toronto.

d)  
Survey of 93' Shipwreck - Tentative ID: Southern Trail -2005 Exterior Survey  
Survey of 93' Shipwreck - Tentative ID: Southern Trail -2008 Interior Survey

e)  
Liquid Archaeology  
Nautical Archaeology Society  
Save Ontario Shipwrecks  
Ontario Underwater Council  
Global Underwater Explorers  
Diver's Alert Network

f)  
2005-019  
2007-013  
2007-014  
2008-013  
2008-019

## 5. Methods and Procedures

- (a) Description of each component of the project, with work schedule;
- (b) Description of facilities and personnel (including archaeological training and experience of each) to prepare and carry out field work. Include details of crew supervision;
- (c) Proposed methods of recovery of archaeological objects, including excavation techniques;
- (d) Proposed facilities and personnel (including archaeological training and experience of each) for analysis of data and archaeological objects recovered;
- (e) Proposed methods of dating;
- (f) Proposed methods of recording data and cataloguing archaeological objects;
- (g) Proposed facilities and personnel (including archaeological training and experience) for conservation of archaeological objects;
- (h) Proposed methods of conservation of recovered archaeological objects and other remains where necessary;
- (i) Proposed method of restoration of the site following excavation;
- (j) Proposed plans, if any, for the protection of a segment of the site for future archaeological work.

### a) Project Phases

Phase 1 -Location, position fixing and tagging of objects to be performed over several weeks as weather and volunteer scheduling allows. To commence Sept 19th, 2011 ending approximately Oct 31, 2011

Phase 2 -Selection, recording and survey of representative objects will be carried out over several weeks as weather and volunteer scheduling allows. To commence Nov 1st, 2011 ending approximately Dec 1, 2011

Phase 3 -Overlaying of data on charts and research of unknown objects will take several months to complete. To commence Jan 1st, 2011 ending approximately April 30, 2012

Phase 4 -Publication of results and filing of Ministry report will be done at the conclusion of the project, approximately June 2012.

b) All facilities used for planning and preparation as well as equipment and vessels are owned privately by team members and are used at their discretion. Any additional team members will have at minimum the NAS Part I: Certificate in Foreshore and Underwater Archaeology and will be supervised by the senior members indicated in 4a.

c) N/A as no excavation will take place

d) All data will be analyzed and researched by senior team members. No objects will be recovered.

e) Comparative typology and relative dating methods only as no objects will be sampled or recovered.

f) Objects will be recorded via HD video, still photography, underwater sketch and scale survey drawings.

g) N/A as no objects will be recovered.

h) N/A as no objects will be recovered.

i) N/A as no excavation will take place

j) N/A as no excavation will take place

**6. Financial and Material Resources**

- (a) The source(s) of funds that have been requested or received;
- (b) All agreements that have been made with respect to (a);
- (c) Proposed budget for the entire project, including preparation, field work, analysis, reporting and conservation, broken down into phases;
- (d) Equipment to be used (e.g. trucks, trailers, camping equipment, boats, cameras, etc.).

a) All funds come from the Liquid Archaeology team and volunteers. No external funding has been recieved or requested.

b) No agreements are required.

c) Budget

It is important to note that most resources (ie. transportation, breathing gasses, equipment, etc) are owned or contributed by the volunteers at their own expense. Any other costs are covered by Liquid Archaeology from funds donated by its members each spring for projects.

Phase 1 -Location, Position Fixing and Tagging of Objects

Fuel for surface vessel (<) \$40

Numbered Tags and ties for attatchment (~) \$60

Phase 2 -Selection, Recording and Survey of Representative Objects

Underwater Paper (<) \$20

Phase 3 -Overlaying of Data on Charts and Research of Unknown Objects

Charts and document scanning (~)\$40

Phase 4 -Publication of Results and Filing of Ministry Report

Postage, printing and binding of reports (<) \$50

Total (max) \$210

d) Equipment and vessels are owned privately by team members and are used at their discretion at no cost.

Vessel Details;

Owner: John Millar

Type of Boat: 18' Inflatable manufactured by the Rubber Duck Corporation

Registration #: ON2117033

**7. Long term care of archaeological objects and records**

- (a) Proposed care of archaeological objects and records after conclusion of field work, but pending conservation and analysis;
- (b) Anticipated schedule for analysing and cataloguing recovered archaeological objects and data;
- (c) Proposed long term care of the archaeological objects and records to make them accessible for public, educational and scholarly uses, including consideration of public institutions in the locality of the property or properties where work has been carried out.

a) No objects will be recovered, primary source data will be help by the project director, Chris Phinney.

b) No objects will be recovered, data will be analyzed by senior team members for publication by the end of 2012.

c) N/A as no objects will be recovered.