COMPILATION OF GEOSCIENCE DATA RELATED TO NON-FUEL MINERALS AND AGGREGATES ON THE INNER SCOTIAN SHELF, LUNENBURG TO COUNTRY HARBOUR

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GEOLOGICAL SURVEY
OTTAWA

Submitted by:

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DSS contract: SC90-00307-(014)/A
Scientific Authority: Gordon B.J.Fader
EOR Project #: 90-68
Project Manager: John Peters
Project Geologist: Marten Douma
Date: June 4, 1991

Earth & Ocean Research Ltd.

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SUMMARY

This compilation identifies the marine geological and geophysical database relevent to non-fuel marine minerals and aggregates in the nearshore zone extending from Cape Lahave Island, Lunenburg County, to Berry Head, Guysborough County. The database includes samples, seismic tracks, and interpretations from the present shoreline to the 180 metre isobath.

The sample and seismic data have been separated into that collected by federal government agencies, predominately the Bedford Institute of Oceanography, and data collected by provincial agencies, university or commercial interests. The criteria for this breakdown is based on the affiliation of the chief scientist or investigator. Therefore, even though some commercial concerns, for example the Nova Scotia Research Foundation Corporation, used a federal research vessel and a government referenced cruise number, the track plot will appear on the compilation map of industry and university seismic tracks. So too will activities by staff or students of universities utilizing federal research vessels, or whose project may have been run simultaneously with a government operation.

Sampling patterns vary significantly between government and university sponsored studies. While government sample are evenly distributed across the shelf, industry and university sampling is concentrated in coastal waters, particularly in bays and inlets.

Seismic coverage follows the pattern of sample distribution, with the exception of Halifax Inlet, which has been surveyed extensively in recent years by government, and largely ignored by university and industry.

For the most part, sample and seismic acquisition have not been undertaken with resource evaluation as a primary objective, and quality and volume of potentially economic sediments are unknown.

1 INTRODUCTION

Under the authority of Mr. Gordon B.J. Fader of the Environmental Marine Geology Subdivision of the Atlantic Geoscience Centre, Energy, Mines and Resources Canada, an investigation was undertaken to summarize the existing marine geological and geophysical database relevent to non-fuel marine minerals and aggregates for the inner shelf zone from Cape Lahave Island to Berry head, Nova Scotia. The

investigation was carried out under DSS contract SC90-00307-(014)/A and was supported by the MDA-2 between the federal and Nova Scotia provincial governments.

The study was initiated to provide a framework for future studies of the non-fuel mineral and aggregate potential of the nearshore zone off Nova Scotia, and to assist in the design of field programs for the development of placer genesis models. To date, very few studies have addressed mineral potential of the nearshore area of Nova Scotia, despite the large volume of sample and seismic data collected.

This report will summarize the quality and distribution of the sample and seismic data illustrated on the accompanying map sheets, and offer comment on the results of the compilation of the summarized geological interpretations. Adequacy of the data toward assessing non-fuel minerals and aggregates at the seabed and in the subsurface will be summarized, in addition to recommending areas which might benefit from further seismic and sample data collection.

2 SAMPLE AND SEISMIC DATABASES

Most of the material presented with this report consists of sample data and seismic data. A smaller component of the work consists of published and preliminary marine geological interpretations, based on the seismic and sample data compiled here.

2.1.1 SAMPLE DATA

Sample data presented here consists of material removed from the seabed for analysis, as well as photographs or video tapes. Classification of sample is based upon the device used to collect them, the most common sample types being grabs, cores, boxcores, and dredges. Classification of the sample type is relatively generic, and does not extend to the specific device used to collect a sample, such as vibrocorer of IKU grab.

2.1.2 SEISMIC DATA

Seismic data is that obtained by the use of acoustic reflection or refraction technique. In general, the present study excludes seismic tracks obtained exclusively by echosounder. While sounder data can prove useful for geologic interpretations, it is used most commonly by itself by the Canadian Hydrographic Survey. The density of the data in the nearshore zone is such that one may consider

that coverage is virtually complete. Field sheets covering the study area are included with this report, and track lines may be inferred from the position of the data postings.

Classification of the seismic tracks is based on the type of device used to collect the data. Commonly, these devices are identifed on the accompanying maps as sidescan, seismic reflection, deep tow, and multichannel. An explanation of the naming criteria, based on the function of the device, follows.

Sidescan sonar is towed behind a vessel, near the seabed, and insonifies the seafloor to either side of the ship's track. The narrow beam width, fore and aft, produces what is in effect, a plan view of the seabed within range of the sidescan fish. The device operates at high frequency, commonly 100 to 500 KHz, and therefore produces no record of features below the seabed. Sidescan provides information on the nature of the seafloor such as bottom roughness, and the areal extent of textural units such as sand, gravel, and mud or bedrock outcrop. It also is capable of detecting both natural and man-made disturbances of the seabed, such as iceberg furrows, slumps, pockmarks, trawl marks, and cables and pipelines.

In marine surveys the term "profiler" can be used to describe any instrument that directs its acoustic signal downward to the seabed and records the return from that signal. For the purposes of clarity, a restricted definition of the term is used in this compilation. Here, "profiler" will be used in the sense of seismic reflection profiler, and connote systems that provide penetration of the seabed, anywhere from tens of centimetres to hundreds of metres, and may include devices such as the ORE microprofiler, IKB Seistec profiler, boomer, airgun and surface sparkers. Not included in this subdivision are multichannel seismic systems, deep tow systems, or most echosounder surveys. An exception to the echosounder class is the extensive surveying of St. Margarets Bay by Piper, which used an echosounder as a profiler for geologic interpretation.

Multichannel seismic profiles are collected using higher energy and lower frequency content than normal seismic reflection sources, and an array of receiving hydrophones, intended to increase the signal to noise ratio, and image to a greater depth in the sub-seafloor section. The low frequency, which aids penetration, degrades resolution, and makes this type of survey device useful for profiling thick

tills and bedrock strata, but limits its usefulness as a tool for describing surficial of near surface sediments.

The "deep tow" classification includes two systems - the Huntec Deep Tow Boomer and the NSRFC Deep Tow Sparker - both of which are towed at some depth below the water surface, and close to the seabed. These devices provide very high resolution profiles of the near surface sediments, on the order of 30 centimetres or better, due to the characteristics of their power spectrum, and their deployment near the seafloor. They are capable of penetrating till and coarse sands and gravels, which excludes the ORE Microprofiler from this classification, although it may be towed at depth. These characteristics place the deep tow systems in a separate catagory because of their suitability toward mineral resource mapping.

2.1.3 INTERPRETIVE INFORMATION

A requirement of this compilation is to provide a regional synthesis of existing geological interpretations of sediment distribution, textural characteristics, bedforms and other seabed and shallow subsurface features. The synthesis, at a scale common to the seismic and sample compilations, is to be used as a planning document in the future collection of marine geological data relevant to offshore placers and aggregates. Landmark studies from the 1970's by King (1970), Drapeau and King (1972), and MacLean, Fader and King (1977) provide the base maps for the synthesis. These basic interpretations of the surficial geology were supplemented by other studies of a more local nature, mostly in coastal waters. Surficial geology and seabed features, sometimes slightly simplified to improve the visual appeal of the map, from Piper et al. (1986), Hall (1985), Miller (1987), Miller and Fader (1988), and Fader et al. (1991) were used to supplement the regional geological maps.

2.2 METHODOLOGY

2.2.1 DATA COLLECTION

Data collection for this compilation began by consulting the two baseline compilations of the geological and geophysical data available for the area compiled by Earth & Ocean Research in the recent past. A 1986, Environmental Studies Revolving Fund report, "Surficial Geology Surveys on the Scotian Shelf: Compilation of Maps from Government,

Industry, University and Foreign Sources" and the 1988 report to the Mineral Policy Sector, EMR, entitled "Compilation of Information of Surficial Mineral Resources Off Eastern Canada" contain most of the information that appears, in a slightly different format, in this report. While the ESRF report includes most of the Scotian Shelf, including the area under study in this compilation, the report and maps are in hard copy, with neither drawing files nor databases in digital form. The 1988 compilation has both, and formed the basis for the present data set. The limitation of the 1988 data set is that it extends only to the 50 metre isobath, on the inner shelf, which was considered to be the technological limit for ocean mining. However, by combining the digital components of the two studies, and digitizing relevant data from the 1986 ESRF report, along with updating our holdings for data collected subsquent to those reports, we have a digital database and digital map collection for the area included in this compilation.

New information was researched by canvassing local interested persons and organizations. Most of the effort expended in researching suitable data for this compilation was directed to studies conducted since 1988, for coastal areas, and subsequent to 1986 for studies concerning the zone between the 50 and the 180 metre isobaths, as this area was excluded from the 1988 compilation.

The degree of interest in the commercial development of mineral and aggregate resources offshore is indicated by the lack of new studies, sponsored by industry, toward developing these resources. A library search at the Nova Scotia Department of Mines and Energy turned up only one new entry, an information pamphlet entitled "Aggregates in Nova Scotia", containing one paragraph and one map concerning marine aggregate deposits.

Most of the new seismic track and sample data was obtained in a digital format through the Program Support Subdivision at AGC. Other data, was obtained from cruise reports and summaries provided by scientists at AGC.

2.2.2 DATA INPUT

The sample data for this compilation was tranferred exclusively in a digital format. Existing data from the 1988 Mineral Resource Off Eastern Canada compilation, in the form of dBASE III+ database files (.dbf) was manipulated with FOXPRO, a dBASE III+ workalike, and culled to include only the area selected for this compilation. New sample

data was acquired from the Program Support Subdivision's Sample Information Database in ASCII format, and appended to the EOR database.

In addition to the key fields of the sample database, which include entries for cruise, agency, latitude, longitude, etc., the EOR database has a field for uniquely identifying any sample in the database. The pre-1988 data had previously been assigned these numbers, and new records are given numbers as they are appended to the database. Unique identifier numbers for government samples are prefixed with "G", in order to distinguish them from industry samples.

Much of the seismic track data used in this compilation had previously been presented in the form of AUTOCAD maps, although in scales and projections that were inappropriate for this compilation. Drawing files were converted to .DXF files and processed with a utility of EOR's SUPERTECH program to more suitable displays. The utility, called TWISTER, retained the original layer structure of the input files, and the labelling of the seismic tracks, which is an important feature due to the number of uniquely identified seismic tracks, particularly in the industry and university database.

Most new seismic track navigation data was input from ASCII files provided by Program Support Subdivision at AGC. The data files provided show updates every minute, which results in unnecessary detail, given the map scales in use, and were culled and transformed into SUPERTEC track file format simultaneously by EOR's BREAKBIO utility. In preparation for display, seismic track data were sorted on the basis of the types of equipment used to collect the seismic data.

Some track data was unavailable in digital format, and was digitized from existing track plots. This data consisted of older AGC and NSRFC tracks that appeared in the 1986 ESRF compilation, but was too far offshore to be included in the digital files of the 1988 compilation. Scale and projection conversion was unnecessary, as the ESRF maps were prepared at the same scale as this study's master maps. The digital database was updated by direct keyboard entry.

2.2.3 DATA OUTPUT

At the outset of the compilation, the area of investigation was defined as being inside the 180 metre isobath on the inner shelf off Nova Scotia, between Berry Head, Guysborough County and Cape Lahave Island, Lunenburg County. In terms of map area, the most economical way to display this area

would be to rotate the base map until the coastline lies approximately horizontally, however a conventional projection, with lines of latitude and longitude parallel to the map boundaries, was selected. Such a display is simpler to construct from a drafting perspective, and allows the master sheets to be used as overlays on the published surficial geology map, mentioned earlier. These maps are 1:300000 scale, Mercator projections, with latitude of true scale at 48 degrees north. This compilation includes five maps at this scale, presenting government cruise tracks, industry and university cruise tracks, government sample locations, industry and unversity sample positions, and a compilation map of existing surficial geology and related interpretations.

Sample type and location were converted from FOXPRO database files to ASCII format, and read into a SUPERTECH routine which outputs a data exchange format (.DXF) file containing each sample's unique identifier and its' plot location, and a script (.SCR) file which, when run inside the AUTOCAD environment, reads in a drawing file which represents each of the sample types in the plot, and writes that symbol to the requisite location on the plot. The resulting map, displays the symbol for the sample type and a unique identifier number keying that sample to the database. Such plots, however, often require considerable editing in order to make sample number legible due to printing in close proximity. The budget of this compilation dictated that sample numbers not be included on the plots.

Track lines of seismic surveys were obtained by converting AUTOCAD drawing files from the 1988 surficial mineral resource compilation to .DXF format, and converting them to the master sheet scale and projection with TWISTER, a SUPERTEC utility. Where necessary, the TWISTER'ed output could be re-TWISTER'ed to the scale used in the detail maps. Some tracks were digitized directly from maps of the 1986 ESRF compilation. The base sheets of this compilation are the same scale and projection as the master maps of this study. Again, where required, these digitized lines could be TWISTER'ed to conform to the parameters of the detail map.

A series of detail maps is included for areas where industry or university trackline or sample density was found to be too dense to display at the scale of the master sheets. Most detail maps are 1:50000 Universal Transverse Mercator projections, based on a central meridian at 63 degrees west longitude. A plot of industry tracks in the outer harbour of Halifax Inlet was plotted at 1:10000. Some plots contain

inset maps which illustrate details for which separate maps were not warranted. The separate detail maps are identified on the master maps by a "sheet" number, which appears near the upper left corner of the detail maps. The sheet number is derived from the enclosure number of the master map.

The coastline and the 50 and 100 fathom isobaths (approximately 90 and 180 metres, respectively) that appear on the maps were digitized from Canadian Hydrographic Service charts 4013-G, 4039-G, and 4040-G, which were also digitized for surficial geology. These maps are not published with metric units. Occasionally, mismatches between shoreline and track or sample locations occur which results in plotting of these feature on the shore. Culling of data points from the navigation track files, prior to conversion to map format means that portions of a ship's track which show it to steer around and island or headland may have been deleted, causing the plotted track to cross the shoreline.

A simple explanation for some of the sample mismatches is that the map detail of the original CHS chart and its subsequent digital derivative is insufficient to show all the minutae of the coastline, or the streams, marshes and lakes that may have been sampled. The result is that samples have plotted on shore. Other samples may have ended up on shore due to positioning errors when collected, or typographic errors when being loaded into the Sample Information Database.

Track lines may be identified by either a unique identifier keyed to the database, or by a cruise number assigned by the government to cruises conducted on federal research vessels. The unique identifier it a holdover from the 1988 compilation. Since the track data provided by AGC to update the database was not split into individual line numbers, the plotted tracks are identified by the cruise number.

Track lines are graphically coded into catagories that best describe the device or devices used to collect the data. Note that the categories and linetypes are not interchangeable between the government charts and the industry/university maps.

2.2.4 SAMPLE AND SEISMIC TRACK APPENDICES

Seismic tracks may be cross referenced to more detailed information in the appendices via the unique identifier numbers or cruise numbers presented on the maps. Unfortunately, no similar facility exists for the sample

data, although complete listings of the sample databases appear as appendices to this report. Locating the sample parameters must be done by cross referencing the latitude and longitude of the sample on the map with this sample listing.

Government sample locations within the study area are shown in Appendix 1, and are arranged in approximately chronological order by sorting on the cruise number. Government samples are assigned a prefix "G" to their unique identifier number in order to distinguish the from industry and university samples, which bear no prefix. The cruise number, and the entry in the reference field will allow the sample to be located in the appropriate cruise report. Not all fields in the digital database are printed in this table.

Appendix 2 shows most of the details of the industry and university sample database. The samples are sorted in order of unique identifier number. In addition to the sample type and the latitude and longitude of the sample, which are plotted on Enclosure 1, the table also lists the appropriate attribution for the sample by reference, sample number and station number, as well as the general geographic area in which the sample was collected and the waterdepth. In some cases not all fields will contain entries. The entries in the reference field correspond with entries in Appendix 5. Most of these references were not directly accessed for this study, but are included as references in databases and reports from which parts of this study were assembled. To conserve space, not all the fields in the database have been printed. One of these fields, called "Class", shows the grain size classification based on Folk's (1954) classification scheme for marine aggregates.

Appendix 3 shows details of the government seismic surveys, including the officiating scientist, year, survey vessel, type of seismic data collected and the type of navigation used. Further details of surveys are to be found in the cruise reports which are prepared upon the completion of a survey by members of the scientific staff. Such cruise reports typically outline the objectives of the cruise, the participants, a chronological summary of operations, a summary of equipment performance, and an outline of the scientific results.

Industry and university sponsored seismic cruises are summarized in Appendix 4. Seismic tracks in this database correspond to the track plots shown on Enclosures 7 through 11. Most of the tracks are keyed by unique identifier

number, although some university and NSRF cruises were not partitioned into individual lines, and so appear without a unique identifier.

3 RESULTS

Samples constrained by the map limits previously described are listed in Appendices 1 and 2 and are separated on the same criteria as the master map sheets, that is, whether the sample was collected by the federal government or by an industry/university operation. Sample types and locations, but unfortunately, not sample number, are shown on Enclosures 1 through 5. Enclosure 1 depicts government sample locations, Enclosures 2, 3, 4, and 5 show the distribution of the samples collected by industry or universities and their agents. Enclosures 1 and 2 are Mercator projections at 1:300000, latitude of true scale at 48 degrees north, while Enclosures 3, 4, and 5 are plotted as Universal Transverse Mercator projections, central meridian at 63 degrees west longitude. Seismic track lines are organized in a similar fashion, with government and industry/university tracks on separate 1:300000 Mercator projections (Enclosures 6 and 7), and 1:50000 UTM maps of areas where industry and university tracks requiring greater detail are shown (Enclosures 8, 9, 10 and 11).

Because much of the present database originated with an earlier compilation, the search used to acquire the sample and seismic data is now second-hand. Detailed descriptions of sampling activity are to be found in the "Compilation of Information of Surficial Mineral Resources off Eastern Canada", 1988. The references marked with an asterix in the bibliography have not been accessed directly for this study, and are provided to show proper attribution of the data.

3.1 SAMPLE COVERAGE

An obvious difference exists between the distribution of samples collected by industry and university agents and those collected by government. Industry and university samples are generally restricted to the nearshore zone, most often in the bays and inlets along the coast. Industry activity as a result of gold exploration in the nearshore zone and route surveys for pipelines from offshore hydrocarbon developments most often occurs at the mouths of the drowned estuaries along the Eastern Shore. Easy access and the varied geology along the Eastern Shore and the South Shore makes the coastal environment attractive from an academic point of view, as well. Activity in Mahone Bay and St. Margarets Bay is a mixture of AGC, NSRFC and Dalhousie

University sponsored studies carried out on the 1970's. Although most samples appear on the industry and university map sheets, some duplicates occur on the government maps. A synthesis of the study was presented in Piper et al. (1986), and includes contributions from several theses.

A survey of Halifax Harbour by Canplan Consultants, Ltd (1975), intended to define potential aggregate deposits for landfill in a container pier resulted in a number of samples, boreholes and gravity cores.

Lighthouse Bank, off McNab's Island, was the subject of a study by Geomarine Associates Ltd. (Stewart, 1975) to ascertain the effects of a jettisoned cargo of gypsum from the MV Colon Brown. Grain size analysis was performed on 27 grab samples.

Along the Eastern Shore, the sample inventory is dominated by work directed by Dr. Ron Boyd and Dr. David Scott, both of Dalhousie. Much of the work directed by Boyd has appeared in the form of undergraduate and graduate theses. Samples have been collected by DeIure (1983) in the outer Halifax Harbour, by Easton (1982) at Jeddore Head and Hartlen Point, by Hoskin (1983) at Lawrencetown Beach, by Hall (1985) at Hartlen Point and Jeddore Head, and by Sonnichsen (1984) at Hartlen Point and Terminal Beach.

Scott (1977) has collected numerous surface samples and drill hole samples from coastal marshes for foraminifera and Holocene sealevel studies, accounting for the samples plotted onshore at Chezzetcook Inlet.

Government samples are more uniformly distributed over the entire study area, and reflecting the systemmatic mapping carried our in the 1960's and subsequent years by scientists at the Atlantic Geoscience Centre. Halifax Inlet, Sheet Harbour and Country Harbour show more concentrated sampling effort. Activity in the Halifax Inlet - Bedford Basin, the inner and outer harbour, etc.- is mostly of recent vintage, and includes cruises 89009 Phase A, 89039, 90010, Creed90 (90301), and 90301B.

D.L. Forbes collected sediment samples along the Eastern Shore from the vicinity of Halifax to Ship Harbour, and from the shoreline to the northern margin of Emerald Basin during Dawson 87042. Most of the samples in Sheet Harbour originate with Navicula Cruise 88018 Phase 14, also headed by Forbes.

Samples in and around Country Harbour were collected during

Navicula 90038, a cruise presided over by R.O. Miller.

Many other nearshore samples were collected as part of extensive beach sampling conducted by the Bedford Institute of Oceanography, not all of which appear with attribution in the database.

3.2 SEISMIC COVERAGE

The maps of seismic track line distribution show similar patterns as those for samples. Industry and university tracks dominate the inshore areas, except for Halifax Inlet, while government seismic activities dominate in the offshore areas. The exception noted, that of Halifax Inlet, has been extensively surveyed during cruises over the period 1988 to 1990. Most of university seismic coverage along the South Shore was collected by students, and by BIO and NSRF on behalf of Dalhousie, and synthesized in Piper et al. (1986). Some exceptions include a survey of Rose Bay by Ocean Science and Engineering and a cable route survey for Teleglobe Canada from Pennant Point to Lahave Bank and Lahave Basin was conducted in 1987.

The nearshore area from Hartlen point to Jeddore Cape, some 33 km. further north east along the coast has be extensively surveyed since about 1980, most in conjunction with the sampling programs headed by Boyd, mentioned in the previous section.

Industry activity along the Eastern Shore is dominated by gold exploration and seabed surveying for pipeline landfalls. Surveying for gold began in 1967 by Ocean Science and Engineering for Matachewan Canadian Gold Ltd. in Sheet Harbour and Ship Harbour areas, and expanded in subsequent years by NSRF and Geosea Services for Seabright Resources to the Country Harbour area. Gold exploration was brought to a close in 1984, but surveying for a pipeline route for Mobil Oil Canada and Sable Gas Systems was conducted from 1983 to 1984 by Geomarine, McElhanney Services, and Geonautics.

4 LITERATURE SUMMARY

Sand and gravel, had, until 1975, been removed from beaches along the Nova Scotia coastline in large quantities. The Beaches Preservation and Protection Act, proclaimed in 1975 as the result of mounting public pressure against beach minig, has forced aggregate suppliers to look eslewhere. Presently, sand and gravel supplies are provided by onshore pits and crushing plants, with no offshore resource being

pursued. Several market studies have been conducted and exist as Open File reports at the Nova Scotia Department of Mines and Energy, but they do not include data for offshore resources. Miller and Fowler (1987) summarize some of the local aggregate market potential, and include a simplified map of the distribution of offshore sand and gravel, adapted from regional surficial geology maps. This report was updated in an information circular by Prime (1988) that included a small map adapted from several others, and a single paragraph.

King (1970), Drapeau and King (1972), and MacLean, Fader and King (1977) are significant papers outlining the physiography and surficial geology of the Scotian Shelf, Particularly of the unconsolidated sediments of interest as non-fuel minerals and aggregates.

In general, the offshore physiography is composed of three main components - a narrow inner shelf, a central area of broad basins that parallel the margin of the inner shelf, and an offshore bank area that extends to the continental margin. Of greatest interest from the point of view of ocean mining is the inner shelf, which extends to about 30 km offshore, and which is the focus of the present study. King (1970) developed a detailed description of the surficial units found on the Scotian Shelf, and although he and co-workers revised it slightly in subsequent maps, it has remained virtually intact. In MacLean, Fader and King (1977), mapped units 1 through 6 are comprised of indurated or semi-indurated strata of Paleozoic to early Cenozoic age, and are classified as bedrock (see Enclosure 12, this report). The unconsolidated strata of Units 7 through 11 are of Quaternary age and would be the likely target of non-fuel and aggregate resource exploration. Several of the map units are unlikely to be of great interest because they are dominated by material whose grainsize and mineralogical content renders them unsuitable either for aggeregate or as economically valuable non-fuel minerals. This refers primarily to the fine sediment classes, since they are unsuitable as aggregate and since gold and heavy minerals, the focus of non-fuel based exploration, are not hydaulically equivalent to muds and silts and are unlikely to be found in close association.

Glacial material is identified on Enclosure 12 as map Unit 7, termed Scotian Shelf drift, and consists of poorly sorted, dark greyish brown, cohesive sand, silt, and clay, and commonly contains pebble-to-boulder sized angular fragments.

Map Unit 8 is a proglacial silt that usually overlies the Scotian Shelf drift, and is overlain, in turn, by the Lahave clay. Unit 8, named the Emerald silt by King (1970), is a very dark grayish brown, poorly sorted sandy mud that may contain some gravel.

A sandy unit, the Sambro sand, is composed of dark greyish-brown medium- to fine-grained, well sorted and angular sand. It appears on Enclosure 12 as map unit 9, and is in part the lateral equivalent of the Emerald silt. The Sambro sand consists of a very dark grayish brown, silty and clayey sand with some gravel. Where gravel content is less than 10%, the unit is designated 9a, where gravel exceeds 10%, 9b. It was deposited in and adjacent to the littoral zone of the Pleistocene shoreline, and therefore occurs in water depths greater then 110 metres, the approximate depth of the prominent terrace which marks the Pleistocene lowstand. It is exposed primarily at the edge of the Sable Island Sand and Gravel.

The Lahave clay is predominately silty clay (map Unit 10a) or clayey silt (10b) overlying the Scotian Shelf drift and Emerald silt, and laterally equivalent to the Sable sland sand and gravel.

The most recent sediments, representing basal transgressive deposits formed during the most recent post-glacial inundation of the coastal zone, are significant. Fines winnowed from the banks during the transgression were deposited in the basins (Lahave Clay), and sand was redistributed throughout the high energy, coastal environment, leaving behind lag deposits of the gravel component. This Sable Island Sand and Gravel Unit consists of clean, buff to greyish brown, medium- to coarse-grained, very well sorted sand grading laterally to very coarse gravel with boulders, and intergradations of these types. The unit is identified as Unit 11 on the accompanying Enclosure 12, and is sub-divided by textural analyses of samples into 11a, sand with less than 50 % gravel, 11b, gravel with less than 50% sand, 11c, a variable mixture of sand, gravel and clay that does not appear on this map, and 11d, undifferentiated sand and gravel. This includes areas for which textural data are absent, but which display acoustically hard bottom and occur at depths shallower than the Pleistocene terrace at about 110 metres below present sea level.

In general terms, the maps produced by King (1970), Drapeau and King (1972), and MacLean, Fader and King (1977), and combined in the form of Enclosure 12, show that gravel

dominates the inner shelf, out to the 50 fathom (about 90 metre) isobath, except for an area near the mouth of Halifax Harbour, which, during the last lowstand, was the bed of the Sackville River, and a path of sand on the inner shelf near Spry Harbour. Beyond 90 metres water depth, at the outer margin of the Sable Island sand and gravel unit on the inner shelf, lie the Sambro sand and then Scotian Shelf drift. The seabed beyond the 180 metre isobath is dominated by Emerald silt and Lahave clay.

The studies of King (1970), Drapeau and King (1972), and MacLean, Fader and King (1977) relied primarily on interpreting subtle changes in echosounder records, ground truthed using grab samples and seabed photographs, to construct their surficial distribution maps. A more recent perspective of the surficial units of the Scotian Shelf is given in King and Fader (1986). They reconstructed the Wisconsinan glaciation of the shelf areas using more modern seismic techniques and improved sampling methods, including coring, and developed a conceptual model for the deposition of glacial and glaciomarine deposits.

corStudies confined to smaller areas of the inner Scotian Shelf include a significant compilation and interpretation of data collected by students at Dalhousie University and prepared by Piper et al. (1986). This work covers the inshore area (closer than 10 kilometres from shore) from Peggys Cove to Sable River. Data from class projects, theses and research reports were interpreted to describe the marine geology of the South Shore. The sediment distribution map is reproduced on Enclosure 12, and shows the surficial distribution of till, sandy and gravelly facies of the Sable Island sand and gravel, and Lahave clay, as well as areas of bedrock. The facies definitions of the Sable Island sand and gravel are more restricted than those used by King (1970), but they are described in the legend of Enclosure 12.

Research efforts at the Atlantic Geoscience Centre and Dalhousie University have also elucidated details of the surficial sediment distribution along the Eastern Shore, northeast of Halifax. Hall (1985) describes the inner shelf in terms of acoustic facies and surficial sediment distribution for the area from Hartlen Point, outside Halifax Inlet, to Jeddore Cape, about 33 km northeast, outwards to the 70 metre isobath. His sediment distribution map is reproduced in Enclosure 12, and describes the surficial geology in terms of sand, mud, gravel, or bedrock, without using King's (1970) classification.

LaPierre and Boyd (1985) and Forbes and Boyd (1987) report on the occurence of gravel ripples at the seabed in areas off the Eastern Shore.

Forbes and Boyd (1989) report on observations of surficial sediments made during submersible dives off Cole Harbour, near Halifax These observations provide good ground truthing for some of the interpretations made by Hall (1985) and LaPierre (1985). Forbes and Drapeau (1989) show that gravel transport still occurs in water depths less than 30 metres. The occurence of gravel ripples is not limited to the Eastern Shore. Miller and Fader (1988) report that patches of gravel and gravel ripples occur in the areas off Pennant Bay and Sambro Bay, with the largest area southwest of Pennant Point. Samples showed these gravels to consist of granule to pebble sized, angular granite fragments.

5 APPRAISAL

The scientific literature shows that large portions of the Inner Shelf of Nova Scotia are covered with some variable thickness of gravel and sand, components of the Sable Island Sand and Gravel unit originally proposed by King (1970). A statistical analysis of 516 samples on the Inner Shelf, within 100 kilometres of Halifax, conducted for a commercial client by EOR, showed that 52% of samples in BIO's Sediment Analysis Database fall within the gravel, sand, sandy gravel or gravelly sand grain size range of Folk's classification of marine aggregates.

References to non-fuel minerals, such as gold and heavy minerals, are much less frequent. Reports to the Nova Scotia Department of Mines and Energy are confined to exploration for placer gold deposits, recently in the Country Harbour area, but also with respect to other Eastern Shore sites and the Ovens Point area on the South Shore. Heavy mineral analyses are mentioned in several graduate theses related to the South Shore, and Piper et al. (1986). The dominant heavy minerals are opaques and pyroxene, according to Piper et al. (1986), and they appear to be derived from the red drumlinoid till. Because variations in the heavy mineral distribution appears to correspond to variations in the onshore tills, Piper et al. (1986) suggests that nearshore sand is derived from erosion of till, either at the present coastline, or at earlier coastlines, and has not been subject to very much longshore transport in the nearshore zone.

It is clear from both the sample and seismic track maps that the nearshore zone of the South Shore, between, St.

Margarets Bay and Chebucto Head, outside Halifax Inlet, except for Pennant Point, and the Eastern Shore between Ship Harbour and Sherbrooke, are under-represented with respect to both sampling and seismic surveying.

Surveys of the Halifax Inlet, Pennant Point area (Miller and Fader, 1988) and Eastern Shore from Hartlen Point to Ship Harbour, (Forbes, 1990; Forbes and Boyd, 1989; Forbes, Boyd and Shaw, in press; Hall, 1985, and others) show that sampling and seismic surveying coverage is probably sufficient, at this stage, to begin assessing the volume and quality of marine aggregates. Areas of special interest should include the zones where patches of gravel ripples have been mapped on the sidescan sonar records.

An examination of seismic reflection and sidescan data for a number of government cruises shows that overall data quality is fair to good on cruises 76-016, 79-011, 84-011, 86-034, 87-003, 87-300, 88-010, and 88-300. These data were examined in 1989, and did not include the recent Halifax Inlet, 87-042 Eastern Shore, or 90-038 Country Harbour cruises, portions of which have appeared in cruise reports. Industry surveys are a largely unknown factor, other knowledge of the data type. The Mobil Oil pipeline landfall survey offshore of Country Harbour would be a useful survey to have access to, for instance. In conjunction with the 90-038 BIO survey, one would have the entire approach to Country Harbour covered with both deep tow and sidescan data.

The best surveys for appraising the aggregate resource potential would be those for which deep tow seismic data and sidescan sonar have been collected simultaneously, so the the vertical extent as well as the horizontal extent of a deposit can be evaluated. Conventional seismic profilers may have neither the penetration nor resolution to accurately distinguish the thickness of a marine aggregate unit. Once sidescan and deep tow records have been correlated and 'calibrated' by some criteria which allows the deep tow records to be used independently of sidescan records, it may be possible to review areas for which only deep tow, but no sidescan data exist, to form some assessment of the marine aggregate potential. It would be instructive to prepare some type of statistical analysis of the size, thackness, shape, orientation, waterdepth, distance from shore, etc. of the various patches of potential aggregate.

One factor that is rarely addressed in the literature reviewed for this study is the suitability of the potential

marine aggregates for commercial purposes requiring aggregate or silica. Descriptions of the gravel often include presence of Lithothamnia., a calcareous marine algae that coats 5 to 100% of the surface of gravel clasts on the seabed in water depths greater than 30 metres (Hall, 1985). Along the Eastern Shore, the gravel may be expected to be composed largely of metagreywacke and slate (Hall, 1985). The South Shore gravel component of offshore tills is also metagrewacke and slate, but beach gravels also incorporate a granite component (Piper et al., 1986). Hall (1985) describes quartz as the second most abundant component of the terrigenous sediment in his Eastern Shore study area, particularly off beaches, and out to 25 metres water depth. Most quartz is to be found in the silt and sand size fractions.

A report by Jacques, Whitford and Associates, commisioned by EOR in 1988 as part of the mineral resource compilation for the Mineral Policy Sector, comments that the sample size submitted for aggregate quality analyses were not large enough to perform a full suite of tests (although the report does not explain what these might be). As the samples submitted were splits from archived grab samples that measured several kilograms originally one might expect that a single 'Shipek' sized sample may be insufficient for a representative sample.

Something not covered by this study is an examination of the technology available to dredge, sort, and deliver a marine aggregate product to shore.

6 CONCLUSIONS AND RECOMMENDATIONS

1) Sufficient sidescan and deep tow seismic relection data exist to enable distribution maps and volume estimates of marine aggregates to be made in several heavily surveyed areas of the Eastern Shore near Halifax and Country Harbour. Emphasis should be placed on detection and mapping paleofluvial channels. The preservation potential for drowned beaches, as a source of aggregate is probably slim, but placer deposits of heavy minerals, such as gold, might be preserved where beaches, now dispersed by post-glacial transgression, once existed.

2) Hall's (1985) sediment thickness and isopach maps of the area between Osborne Head and Jeddore Cape should be updated with the interpretations of the 87-042 cruise. Data from the Country Harbour, 90-038 cruise should be compared with the Mobil Oil Venture pipeline landfall data from the area offshore of Country Harbour, if available.

3) The absence of sufficient testing of samples to determine their suitability as aggregates or sources of silica for commercial purposes should be rectified in any future study. The sample material archived from previous surveys would be a good place to begin a baseline study of the general quality of the various samples and of the sampling techniques. For truly representative samples, it may be necessary to consider samples other than the small surface grabs commonly acquired.

4) New seismic reflection and sidescan surveys in the nearshore zone should be be designed to enhance, concurrently, the state of knowledge of offshore aggregate potential and non-fuel mineral potential. The economic imperative probably limits the non-fuel mineral to gold, although cassiterite, ilmenite, garnet, and zircon exist in enough abundance onshore to warrant inclusion in the list of potential offshore placer minerals. Development of a model of placer distribution for the Nova Scotia shelf, prior to setting the survey location, based on the present state of mapping, and a review of the scientific literature, particularly with respect to sea-level adjustments and sediment transport, would be useful.

BIBLIOGRAPHY

DeIure, A.M. 1983 THE EFFECT OF STORMS ON SEDIMENTS IN HALIFAX INLET, NOVA SCOTIA. Unpublished M.Sc. thesis, Dalhousie University, 216p

Drapeau, G. and King, L.H. 1972 SURFICIAL GEOLOGY OF THE YARMOUTH - BROWN'S BANK MAP AREA. Marine Science Paper 2, Geological Survey of Canada Paper 72-24, 6 p. +map.

Earth & Ocean Research Ltd. 1986. SURFICIAL GEOLOGY SURVEYS ON THE SCOTIAN SHELF: COMPILATION OF MAPS FROM GOVERNMENT, INDUSTRY, UNIVERSITY AND FOREIGN SOURCES. Environmental Studies Revolving Funds. Report 029. Ottawa. 42 p., 24 maps.

Earth & Ocean Research Ltd. 1988. COMPILATION OF INFORMATION OF SURFICIAL MINERAL RESOURCES OFF EASTERN CANADA. Vol 1-3, submitted to Mineral Policy Sector, EMR, Ottawa.

Easton, J.A. 1982 MARINE AND COASTAL GEOLOGY BETWEEN HARTLEN POINT AND JEDDORE CAPE, NOVA SCOTIA. Unpublished B.Sc. thesis, Dalhousie University, Halifax, Nova Scotia.

Fader, G.B.J., Miller, R.O. and Pecore, S. 1991. SURFICIAL GEOLOGY OF HALIFAX HARBOUR - BEDFORD BASIN TO CHEBUCTO HEAD

Forbes, D.L. and Boyd, R. 1987. GRAVEL RIPPLES ON THE INNER SCOTIAN SHELF. Journal of Sedimentary Petrology. 57: p. 46-54.

Forbes, D.L. and Boyd, R. 1989. SUBMERSIBLE OBSERVATIONS OF SURFICIAL SEDIMENTS AND SEAFLOOR MORPHOLOGY ON THE INNER SCOTIAN SHELF In Piper, D.J.W. (Ed.) Submersible observations off the eastern coast of Canada, Geological Survey of Canada, Paper 88-20, p. 71-81

Forbes, D.L., Boyd, R. and Shaw, J. in review LATE QUATERNARY SEDIMENTATION AND SEA-LEVEL CHANGES ON THE INNER SCOTIAN SHELF.

Forbes, D.L. and Drapeau, G. 1989. NEAR-BOTTOM CURRENTS AND SEDIMENT TRANSPORT ON THE INNER SCOTIAN SHELF: SEAFLOOR RESPONSE TO WINTER STORMS DURING CASP. Atmosphere-Ocean 27 (1) p. 258-278.

Hall, R.K. 1985. INNER SHELF ACOUSTIC FACIES AND SURFICIAL SEDIMENT DISTRIBUTION OF THE EASTERN SHORE, NOVA SCOTIA. Dalhousie University, Centre for Marine Geology, Tech. Rep. 8, Halifax, N.S., 150 p.

Hoskin, S. 1983 COASTAL SEDIMENTATION AT LAWRENCETOWN BEACH, EASTERN SHORE, NOVA SCOTIA. Center for Marine Geology, Dalhousie University, Technical Report No. 5.

King, L.H. 1970. SURFICIAL GEOLOGY OF THE HALIFAX - SABLE ISLAND MAP AREA. Marine Sciences Branch, Dept. of Energy Mines and Resources, Paper no. 1, 16 p. + map.

King, L.H. and Fader, G.B. 1986. WICONSINAN GLACIATION OF THE CONTINENTAL SHELF - SOUTHEAST ATLANTIC CANADA. Geological Survey of Canada, Bulletin 363, 72 p.

LaPierre, A. and Boyd, R. 1985. COARSE-GRAINED MEGARIPPLES ON THE EASTERN SHORE, INNER SHELF, NOVA SCOTIA. In Forbes, D.L. (Ed.) Proc., Canadian Coastal Conference 1985: Ottawa, National Research Council Canada, Associate Committee for Research on Shoreline Erosion and Sedimentation, p. 121-142.

MacLean, B., Fader, G.B.J. and King, L.H. 1977. SURFICIAL GEOLOGY OF CANSO BANK AND ADJACENT AREAS. Marine Sciences Paper 20, Geological Survey of Canada Paper 76-15, 11p. + map.

Miller, C.K. and Fowler, J.H. 1987. DEVELOPMENT POTENTIAL FOR OFFSHORE PLACER AND AGGREGATE RESOURCES OFF NOVA SCOTIA, CANADA. Marine Mining, Vol. 6, p. 121-139.

Miller, R.O. 1987. CRUISE REPORT - ARCTIC PROWLER, TELEGLOBE CANADA SURVEY FOR TAT-9. June 7 - June 12, 1987.

Piper, D.J.W., Mudie, P.J., Letson, J.R.J, Barnes, N.E. and Iuliucci, R.J. 1986. THE MARINE GEOLOGY OF THE INNER SHELF OFF THE SOUTH SHORE, NOVA SCOTIA. Geological Survey of Canada Paper 85-19. 65 p. + map.

Prime, G. 1988. AGGREGATES IN NOVA SCOTIA. Nova Scotia Department of Mines and Energy, Information Circular No. 20

Scott, D.B. 1977. DISTRIBUTIONS AND POPULATION DYNAMICS OF ESTUARINE FORAMINIFERA WITH IMPLICATIONS TO RELOCATING HOLOCENE SEA LEVELS; unpublished Ph.D. dissertation, Dalhousie University, Halifax, 252 p.

Stewart, J. McG., 1975, SURVEY OF GYPSUM CARGO JETTISONED FROM M/V COLON BROWN, LIGHTHOUSE BANK, HALIFAX HARBOUR, NOVA SCOTIA. Geological Survey of Canada Open File 398, Ottawa.

Sonnichsen, G. 1984 THE RELATIONSHIP OF COASTAL DRUMLINS TO BARRIER BEACH FORMATION ALONG THE EASTERN SHORE OF NOVA SCOTIA. Center for Marine Geology, Dalhousie University, Technical Report No. 6.

APPENDIX 1

GOVERNMENT SAMPLE DATABASE

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G1	GRAB	014	001	64001	KING,L./KAPUSKASING	SCOTIAN SHELF	44.0833	-63.7500	162.0
G2	GRAB	015	002	64001	KING,L./KAPUSKASING	N. OF LAHAVE BASIN	44.0513	-63.6798	182.0
G3	GRAB	016	003	64001	KING,L./KAPUSKASING	N. OF LAHAVE BASIN	44.0862	-63.6388	175.0
G4	GRAB	017	004	64001	KING,L./KAPUSKASING	N. OF LAHAVE BASIN	44.0833	-63.5445	167.0
G5	GRAB	018	005	64001	KING,L./KAPUSKASING	N. OF LAHAVE BASIN	44.0847	-63.4263	182.0
G6	GRAB	019	006	64001	KING,L./KAPUSKASING	LAHAVE BASIN	44.0862	-63.3083	200.0
G7	GRAB	020	007	64001	KING,L./KAPUSKASING	N. OF SAMBRO BANK	44.0847	-63.1862	154.0
G8	GRAB	021	008	64001	KING,L./KAPUSKASING	N. OF SAMBRO BANK	44.0833	-63.0680	183.0
G9	GRAB	022	009	64001	KING,L./KAPUSKASING	EMERALD BASIN	44.0833	-62.9625	220.0
G10	GRAB	023	010	64001	KING,L./KAPUSKASING	EMERALD BASIN	44.0833	-62.8458	240.0
G11	GRAB	024	011	64001	KING,L./KAPUSKASING	EMERALD BASIN	44.0805	-62.7362	220.0
G12	GRAB	025	012	64001	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.0820	-62.6195	159.0
G13	GRAB	026	013	64001	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.0833	-62.5042	161.0
G14	GRAB	027	014	64001	KING,L./KAPUSKASING	E. OF EMERALD BASIN	43.9833	-62.5047	110.0
G15	GRAB	028	015	64001	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.0013	-62.6208	180.0
G16	GRAB	029	016	64001	KING,L./KAPUSKASING	EMERALD BASIN	44.0013	-62.6208	224.0
G17	GRAB	030	017	64001	KING,L./KAPUSKASING	EMERALD BASIN	44.0017	-62.8467	258.0
G18	GRAB	031	018	64001	KING,L./KAPUSKASING	EMERALD BASIN	44.0000	-62.9597	240.0
G19	GRAB	032	019	64001	KING,L./KAPUSKASING	EMERALD BASIN	44.0000	-63.0708	221.0
G20	GRAB	033	020	64001	KING,L./KAPUSKASING	W. OF EMERALD BASIN	44.0000	-63.1862	180.0
G21	GRAB	034	021	64001	KING,L./KAPUSKASING	E. OF LAHAVE BASIN	44.0000	-63.3083	160.0
G22	CORE	035	022	64001	KING,L./KAPUSKASING	LAHAVE BASIN	44.0000	-63.4250	199.0
G23	GRAB	036	023	64001	KING,L./KAPUSKASING	SCOTIAN SHELF	44.0000	-63.5403	214.0
G24	GRAB	040	027	64001	KING,L./KAPUSKASING	SCOTIAN SHELF	43.9180	-63.6513	232.0
G25	GRAB	041	028	64001	KING,L./KAPUSKASING	LAHAVE BASIN	43.9200	-63.5417	223.0
G26	GRAB	042	029	64001	KING,L./KAPUSKASING	LAHAVE BASIN	43.9208	-63.4233	205.0
G27	GRAB	043	030	64001	KING,L./KAPUSKASING	E. OF LAHAVE BASIN	43.9208	-63.3083	137.0
G28	GRAB	044	031	64001	KING,L./KAPUSKASING	N. OF SAMBRO BANK	43.9180	-63.1903	132.0
G29	GRAB	045	032	64001	KING,L./KAPUSKASING	W. OF EMERALD BASIN	43.9180	-63.0888	148.0
G30	GRAB	046	033	64001	KING,L./KAPUSKASING	W. OF EMERALD BASIN	43.9208	-63.0555	234.0
G31	GRAB	047	034	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.9195	-62.9638	269.0
G32	GRAB	048	035	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.9200	-62.9600	260.0
G33	GRAB	049	036	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.9195	-62.7347	246.0
G34	GRAB	050	037	64001	KING,L./KAPUSKASING	E. OF EMERALD BASIN	43.9180	-62.6195	190.0
G35	GRAB		037	64001	KING,L./KAPUSKASING	N. OF LAHAVE BASIN	44.0000	-63.6500	188.0
G36	GRAB	051	038	64001	KING,L./KAPUSKASING	E. OF EMERALD BASIN	43.9167	-62.5028	146.0
G37	GRAB	052	039	64001	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.8333	-62.5000	161.0
G38	GRAB	053	040	64001	KING,L./KAPUSKASING	E. OF EMERALD BASIN	43.8333	-62.6208	179.0
G39	GRAB	054	041	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.8333	-62.7375	205.0
G40	GRAB	055	042	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.7833	-62.9600	267.0
G41	GRAB	056	043	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.8333	-62.9625	265.0
G42	GRAB	057	044	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.8320	-63.0375	267.0
G43	GRAB	058	045	64001	KING,L./KAPUSKASING	NE OF SAMBRO BANK	43.8320	-63.0612	192.0
G44	GRAB	059	046	64001	KING,L./KAPUSKASING	SAMBRO BANK	43.8333	-63.1903	93.0
G45	GRAB	060	047	64001	KING,L./KAPUSKASING	N. OF SAMBRO BANK	43.8333	-63.3028	130.0
G46	GRAB	061	047A	64001	KING,L./KAPUSKASING	N. OF SAMBRO BANK	43.7862	-63.3667	110.0
G47	GRAB	062	048	64001	KING,L./KAPUSKASING	N. OF SAMBRO BANK	43.8333	-63.4250	157.0
G48	GRAB	063	049	64001	KING,L./KAPUSKASING	LAHAVE BASIN	43.8333	-63.5083	236.0
G49	GRAB	064	050	64001	KING,L./KAPUSKASING	LAHAVE BASIN	43.8333	-63.6500	236.0
G50	GRAB	067	053	64001	KING,L./KAPUSKASING	LAHAVE BASIN	43.7500	-63.5417	238.0
G51	GRAB	068	054	64001	KING,L./KAPUSKASING	LAHAVE BASIN	43.7500	-63.5417	207.0
G52	GRAB	069	055	64001	KING,L./KAPUSKASING	W. OF SAMBRO BANK	43.7513	-63.4208	141.0
G53	GRAB	071	057	64001	KING,L./KAPUSKASING	SAMBRO BANK	43.7433	-63.3033	102.0
G54	GRAB	072	058	64001	KING,L./KAPUSKASING	E. EDGE OF SAMBRO BANK	43.7533	-63.1700	121.0
G55	GRAB	073	059	64001	KING,L./KAPUSKASING	SCOTIAN SHELF	43.7500	-63.1513	185.0
G56	GRAB	074	060	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.7513	-63.1055	258.0
G57	GRAB	075	061	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.7517	-63.0667	282.0
G58	GRAB	076	062	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.7333	-62.8472	230.0
G59	GRAB	077	063	64001	KING,L./KAPUSKASING	E. OF EMERALD BASIN	43.7528	-62.6195	146.0
G60	GRAB	078	064	64001	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.7570	-62.5028	128.0
G61	GRAB	079	065	64001	KING,L./KAPUSKASING	EMERALD BANK	43.6487	-62.5125	73.0
G62	GRAB	080	066	64001	KING,L./KAPUSKASING	EMERALD BANK	43.6708	-62.6237	110.0
G63	GRAB	081	067	64001	KING,L./KAPUSKASING	NW OF EMERALD BANK	43.6708	-62.6237	172.0
G64	GRAB	082	068	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.6653	-62.9583	249.0
G65	GRAB	083	069	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.6695	-63.0700	262.0
G66	GRAB	084	070	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.7112	-63.1028	274.0
G67	GRAB	085	071	64001	KING,L./KAPUSKASING	SW EMERALD BASIN	43.6695	-63.1720	230.0
G68	GRAB	086	072	64001	KING,L./KAPUSKASING	SAMBRO BANK	43.6667	-63.2960	145.0
G69	GRAB	087	073	64001	KING,L./KAPUSKASING	SAMBRO BANK	43.6628	-63.3070	106.0
G70	GRAB	088	074	64001	KING,L./KAPUSKASING	SAMBRO BANK	43.6667	-63.4250	118.0
G71	GRAB	089	075	64001	KING,L./KAPUSKASING	E. OF SAMBRO BANK	43.6653	-63.5400	190.0
G72	CORE	090	076	64001	KING,L./KAPUSKASING	LAHAVE BASIN	43.6667	-63.6500	221.0
G73	GRAB	093	079	64001	KING,L./KAPUSKASING	LAHAVE BASIN	43.5867	-63.6500	220.0
G74	GRAB	094	080	64001	KING,L./KAPUSKASING	SW OF SAMBRO BANK	43.5848	-63.5440	194.0
G75	GRAB	095	081	64001	KING,L./KAPUSKASING	SAMBRO BANK	43.5875	-63.4240	124.0
G76	GRAB	096	082	64001	KING,L./KAPUSKASING	SAMBRO BANK	43.5888	-63.3670	190.0
G77	GRAB	097	083	64001	KING,L./KAPUSKASING	S. OF SAMBRO BANK	43.5888	-63.3100	201.0
G78	GRAB	098	084	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.5917	-63.1870	225.0
G79	GRAB	099	085	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.5820	-63.0690	232.0
G80	GRAB	100	086	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.6138	-62.9583	232.0
G81	GRAB	101	087	64001	KING,L./KAPUSKASING	NE OF EMERALD BASIN	43.5500	-62.8467	210.0
G82	GRAB	102	088	64001	KING,L./KAPUSKASING	EMERALD BANK	43.5862	-62.7403	100.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G83	GRAB	103	089	64001	KING,L./KAPUSKASING	EMERALD BANK	43.5875	-62.6222	91.0
G84	GRAB	104	090	64001	KING,L./KAPUSKASING	EMERALD BANK	43.5875	-62.5083	80.5
G85	GRAB	105	091	64001	KING,L./KAPUSKASING	EMERALD BANK	43.5042	-62.5083	82.0
G86	GRAB	106	092	64001	KING,L./KAPUSKASING	EMERALD BANK	43.5042	-62.6208	95.1
G87	GRAB	107	093	64001	KING,L./KAPUSKASING	EMERALD BANK	43.5042	-62.7388	106.0
G88	GRAB	108	094	64001	KING,L./KAPUSKASING	EMERALD BANK	43.5042	-62.7945	113.0
G89	GRAB	109	095	64001	KING,L./KAPUSKASING	W. OF EMERALD BANK	43.4958	-62.8445	106.0
G90	GRAB	110	096	64001	KING,L./KAPUSKASING	W. OF EMERALD BANK	43.4972	-62.9625	110.0
G91	GRAB	111	097	64001	KING,L./KAPUSKASING	S. OF EMERALD BASIN	43.4972	-63.0722	170.0
G92	GRAB	112	098	64001	KING,L./KAPUSKASING	S. OF EMERALD BASIN	43.4987	-63.1875	223.0
G93	GRAB	113	099	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.4983	-63.6500	210.0
G94	GRAB	114	100	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.4987	-63.4250	190.0
G95	GRAB	115	101	64001	KING,L./KAPUSKASING	NE OF LAHAVE BASIN	43.5000	-63.5417	165.0
G96	CORE	116	102	64001	KING,L./KAPUSKASING	LAHAVE BASIN	43.4983	-63.6500	194.0
G97	CORE	119	105	64001	KING,L./KAPUSKASING	LAHAVE BASIN	43.4250	-63.6500	194.0
G98	GRAB	120	106	64001	KING,L./KAPUSKASING	S. OF SAMBRO BANK	43.4263	-63.5417	168.0
G99	GRAB	121	107	64001	KING,L./KAPUSKASING	S. OF SAMBRO BANK	43.4250	-63.4237	122.0
G100	GRAB	122	108	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.4237	-63.3153	201.0
G101	GRAB	123	109	64001	KING,L./KAPUSKASING	EMERALD BASIN	43.4305	-63.2583	209.0
G102	GRAB	124	110	64001	KING,L./KAPUSKASING	S. EDGE OF EMERALD BASIN	43.4250	-63.1888	183.0
G103	GRAB	125	111	64001	KING,L./KAPUSKASING	W. OF EMERALD BANK	43.4237	-63.0708	135.0
G104	GRAB	126	112	64001	KING,L./KAPUSKASING	W. OF EMERALD BANK	43.4305	-62.9638	1046
G105	GRAB	127	113	64001	KING,L./KAPUSKASING	SCOTIAN SHELF	43.4555	-62.9013	108.0
G106	GRAB	128	114	64001	KING,L./KAPUSKASING	W. OF EMERALD BANK	43.4305	-62.8445	104.0
G107	GRAB	129	115	64001	KING,L./KAPUSKASING	W. OF EMERALD BANK	43.4292	-62.7403	99.0
G108	GRAB	130	116	64001	KING,L./KAPUSKASING	EMERALD BANK	43.4283	-62.6180	99.0
G109	GRAB	131	117	64001	KING,L./KAPUSKASING	EMERALD BANK	43.4250	-62.5028	88.0
G110	GRAB	132	118	64001	KING,L./KAPUSKASING	EMERALD BANK	43.4250	-62.3375	79.0
G111	GRAB	133	119	64001	KING,L./KAPUSKASING	EMERALD BANK	43.5042	-62.3375	88.0
G112	GRAB	134	120	64001	KING,L./KAPUSKASING	E. EDGE OF EMERALD BANK	43.5900	-62.3383	99.0
G113	GRAB	135	121	64001	KING,L./KAPUSKASING	EMERALD BANK	43.6472	-62.4222	73.0
G114	GRAB	136	122	64001	KING,L./KAPUSKASING	WESTERN GULLY	43.6667	-62.3375	113.0
G115	GRAB	137	123	64001	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.7500	-62.3375	128.0
G116	GRAB	138	124	64001	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.8333	-62.3375	152.0
G117	GRAB	139	125	64001	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.9167	-62.3375	145.0
G118	GRAB	140	126	64001	KING,L./KAPUSKASING	N. OF EMERALD BANK	44.0000	-62.3375	128.0
G119	GRAB	141	127	64001	KING,L./KAPUSKASING	S. OF THE PATCH	43.0833	-62.3375	160.0
G120	GRAB	142	128	64001	KING,L./KAPUSKASING	NEARSHORE W OF HALIFAX	44.4367	-63.6733	91.0
G121	GRAB	143	129	64001	KING,L./KAPUSKASING	NEARSHORE W OF HALIFAX	44.4167	-63.6733	99.0
G122	GRAB	306	001	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.1083	-63.3117	186.0
G123	GRAB	174	002	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.2000	-63.5667	118.0
G124	GRAB	173	003	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.2100	-63.4667	101.0
G125	GRAB	172	004	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.2185	-63.4667	104.0
G126	GRAB	171	005	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.2700	-63.4750	84.0
G127	GRAB	170	006	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.3183	-63.4767	87.0
G128	GRAB	161	007	65008	KING,L./KAPUSKASING	HALIFAX HARBOUR	44.5900	-63.5400	17.0
G129	GRAB	162	008	65008	KING,L./KAPUSKASING	HALIFAX HARBOUR	44.5850	-63.5350	31.0
G130	GRAB	163	009	65008	KING,L./KAPUSKASING	HALIFAX HARBOUR	44.5650	-63.5333	20.0
G131	GRAB	164	010	65008	KING,L./KAPUSKASING	HALIFAX HARBOUR	44.5483	-63.5217	18.0
G132	GRAB	165	011	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5317	-63.5167	37.0
G133	GRAB	166	012	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5183	-63.5100	42.0
G134	GRAB	168	013	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4200	-63.4983	91.0
G135	GRAB	167	013	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4633	-63.5050	70.0
G136	GRAB	169	014	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.3667	-63.4817	55.0
G137	GRAB	151	016	65008	KING,L./KAPUSKASING	NEARSHORE HALIFAX	44.4300	-63.6617	37.0
G138	GRAB	153	017	65008	KING,L./KAPUSKASING	W. OF HALIFAX	44.3917	-63.6517	55.0
G139	GRAB	154	018	65008	KING,L./KAPUSKASING	W. OF HALIFAX	44.3450	-63.6617	102.0
G140	GRAB	155	019	65008	KING,L./KAPUSKASING	NW OF HALIFAX	44.2983	-63.6567	119.0
G141	GRAB	156	020	65008	KING,L./KAPUSKASING	NW OF HALIFAX	44.2833	-63.6467	104.0
G142	GRAB	157	021	65008	KING,L./KAPUSKASING	NW OF HALIFAX	44.2667	-63.6450	121.0
G143	GRAB	158	022	65008	KING,L./KAPUSKASING	N. OF HALIFAX	44.2500	-63.6567	124.0
G144	GRAB	159	023	65008	KING,L./KAPUSKASING	N. OF HALIFAX	44.2333	-63.6567	132.0
G145	GRAB	160	024	65008	KING,L./KAPUSKASING	N. OF HALIFAX	44.2167	-63.6567	135.0
G146	GRAB	278	026	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.1667	-63.5000	161.0
G147	GRAB	277	027	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.1667	-63.5830	135.0
G148	GRAB	276	028	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.1667	-63.6670	139.0
G149	GRAB	275	029	65008	KING,L./KAPUSKASING	SW OF HALIFAX MAP 4012	44.1583	-63.7500	146.0
G150	GRAB	150	030	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.2383	-63.6683	133.0
G151	GRAB	149	031	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.2567	-63.6683	117.0
G152	GRAB	148	032	65008	KING,L./KAPUSKASING	SW OF HALIFAX	44.2700	-63.6683	121.0
G153	GRAB	147	033	65008	KING,L./KAPUSKASING	SW OF HALIFAX	44.3305	-63.7528	108.0
G154	GRAB	146	034	65008	KING,L./KAPUSKASING	W. OF HALIFAX	44.4138	-63.7500	88.0
G155	GRAB	195	035	65008	KING,L./KAPUSKASING	EASTERN SHORE, OFF HALIFAX	44.3250	-63.3133	128.0
G156	GRAB	194	036	65008	KING,L./KAPUSKASING	EASTERN SHORE, OFF HALIFAX	44.0050	-63.3150	123.0
G157	GRAB	193	037	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.3417	-63.3167	101.0
G158	GRAB	192	038	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.3583	-63.3217	95.0
G159	GRAB	191	039	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.3750	-63.3250	121.0
G160	GRAB	190	040	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.3917	-63.3283	108.0
G161	GRAB	189	041	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4075	-63.3333	88.0
G162	GRAB	188	042	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4225	-63.3400	84.0
G163	GRAB	187	043	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4383	-63.3417	82.0
G164	GRAB	186	044	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4567	-63.3450	104.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G165	GRAB	185	045	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4717	-63.3500	82.0
G166	GRAB	184	046	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4833	-63.3533	66.0
G167	GRAB	183	047	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5050	-63.3583	62.0
G168	GRAB	182	048	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5200	-63.3617	55.0
G169	GRAB	181	049	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5367	-63.3683	48.0
G170	GRAB	180	050	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5550	-63.3733	40.0
G171	GRAB	179	051	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5700	-63.3783	37.0
G172	GRAB	178	052	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5850	-63.3850	29.0
G173	GRAB	177	053	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6017	-63.3867	22.0
G174	GRAB	176	054	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6117	-63.3900	18.0
G175	GRAB	175	055	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6200	-63.3950	13.0
G176	GRAB	196	056	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6467	-63.2583	18.0
G177	GRAB	197	057	65008	KING,L./KAPUSKASING	SCOTIAN SHELF	44.6350	-63.2567	18.0
G178	GRAB	198	058	65008	KING,L./KAPUSKASING	SCOTIAN SHELF	44.6200	-63.2367	29.0
G179	GRAB	199	059	65008	KING,L./KAPUSKASING	SCOTIAN SHELF	44.5917	-63.2250	37.0
G180	GRAB	200	060	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5417	-63.2080	62.0
G181	GRAB	201	061	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.0167	-63.1930	68.0
G182	GRAB	202	062	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4433	-63.1780	93.0
G183	GRAB	203	063	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.3967	-63.1620	98.0
G184	GRAB	204	064	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.3867	-63.1580	135.0
G185	GRAB	205	065	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.3783	-63.1550	150.0
G186	GRAB	206	066	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4000	-63.1420	121.0
G187	GRAB	208	067	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6583	-63.0770	14.6
G188	GRAB	209	068	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6433	-63.0820	29.0
G189	GRAB	210	069	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6117	-63.0670	37.0
G190	GRAB	211	070	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5800	-63.0370	49.0
G191	GRAB	212	071	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5483	-63.0400	64.0
G192	GRAB	207	072	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4150	-63.1250	95.0
G193	GRAB	218	073	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4167	-63.0000	139.0
G194	GRAB	218	073	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4167	-63.0000	139.0
G195	GRAB	217	074	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4183	-62.9930	128.0
G196	GRAB	216	075	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4350	-62.9950	137.0
G197	GRAB	215	076	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4425	-62.9980	134.0
G198	GRAB	214	077	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4517	-63.0020	106.0
G199	GRAB	213	078	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5000	-63.0220	91.0
G200	GRAB	226	079	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.4917	-62.8130	124.0
G201	GRAB	225	080	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5000	-62.8150	121.0
G202	GRAB	224	081	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5067	-62.8280	115.0
G203	GRAB	223	082	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5250	-62.8330	97.0
G204	GRAB	222	083	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5467	-62.8450	85.0
G205	GRAB	221	084	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5933	-62.8820	60.0
G206	GRAB	220	085	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6250	-62.8970	48.0
G207	GRAB	219	086	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6567	-62.8950	37.0
G208	GRAB	227	087	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6967	-62.7420	18.0
G209	GRAB	228	088	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6800	-62.7280	26.0
G210	GRAB	229	089	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6483	-62.7130	44.0
G211	GRAB	230	090	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6033	-62.6920	88.0
G212	GRAB	231	091	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5917	-62.6670	91.0
G213	GRAB	232	092	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5283	-62.6550	121.0
G214	GRAB	233	093	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5217	-62.6550	106.0
G215	GRAB	234	094	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.5083	-62.6570	135.0
G216	GRAB	240	095	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6000	-62.4920	63.0
G217	GRAB	239	096	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6067	-62.4970	115.0
G218	GRAB	238	097	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6117	-62.5000	95.0
G219	GRAB	237	098	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.6583	-62.5220	88.0
G220	GRAB	236	099	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.7050	-62.5430	66.0
G221	GRAB	236	099	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.7050	-62.5430	66.0
G222	GRAB	235	100	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.7383	-62.5580	48.0
G223	GRAB	241	101	65008	KING,L./KAPUSKASING	NORTHEASTERN SHORE	44.7167	-62.3750	64.0
G224	GRAB		1013	65008	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.7917	-62.4600	132.0
G225	GRAB		1014	65008	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.8350	-62.4133	150.0
G226	GRAB		1015	65008	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.8517	-62.3950	155.0
G227	GRAB		1016	65008	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.8800	-62.3667	154.0
G228	GRAB		1017	65008	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.8533	-62.2583	139.0
G229	GRAB		1018	65008	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.8233	-62.2500	135.0
G230	GRAB		1019	65008	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.7967	-62.2417	135.0
G231	GRAB	242	102	65008	KING,L./KAPUSKASING	NORTHEASTERN SHORE	44.6833	-62.3520	101.0
G232	GRAB		1020	65008	KING,L./KAPUSKASING	N. OF EMERALD BANK	43.7383	-62.2267	128.0
G233	GRAB		1021	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.7083	-62.2167	119.0
G234	GRAB		1022	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.6650	-62.2000	104.0
G235	GRAB		1023	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.5817	-62.2000	102.0
G236	GRAB		1024	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.5000	-62.1950	106.0
G237	GRAB		1025	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.4150	-62.1983	101.0
G238	GRAB		1026	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.3300	-62.1983	102.0
G239	GRAB		1027	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.2483	-62.1983	101.0
G240	GRAB		1028	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.1667	-62.1983	104.0
G241	GRAB		1029	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.0817	-62.1983	109.0
G242	GRAB	243	103	65008	KING,L./KAPUSKASING	NORTHEASTERN SHORE	44.6750	-62.3500	110.0
G243	GRAB		1032	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	43.0367	-62.0800	116.0
G244	GRAB		1033	65008	KING,L./KAPUSKASING	N. OF WESTERN GULLY	43.0483	-62.0800	109.0
G245	GRAB		1034	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.1650	-62.0800	102.0
G246	GRAB		1035	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.2467	-62.0750	97.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G247	GRAB		1036	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.3300	-62.0750	91.0
G248	GRAB		1037	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.4133	-62.0750	101.0
G249	GRAB		1038	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.5000	-62.0683	102.0
G250	GRAB		1039	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.5852	-62.0633	95.0
G251	GRAB	244	104	65008	KING,L./KAPUSKASING	NORTHEASTERN SHORE	44.6667	-62.4620	113.0
G252	GRAB		1040	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.6667	-62.0667	95.0
G253	GRAB		1041	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.7333	-62.0433	91.0
G254	GRAB		1042	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.7583	-62.1167	114.0
G255	GRAB		1043	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.7683	-62.1200	121.0
G256	GRAB		1044	65008	KING,L./KAPUSKASING	NE OF EMERALD BANK	43.8717	-62.1550	121.0
G257	GRAB		1045	65008	KING,L./KAPUSKASING	NE OF EMERALD BANK	43.9133	-62.1667	110.0
G258	GRAB		1046	65008	KING,L./KAPUSKASING	NE OF EMERALD BANK	43.9467	-62.1833	114.0
G259	GRAB		1047	65008	KING,L./KAPUSKASING	SCOTIAN SHELF	43.9550	-62.1850	119.0
G260	GRAB		1047	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	43.9550	-62.1850	119.0
G261	GRAB		1048	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	43.9717	-62.1883	130.0
G262	GRAB		1049	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	43.9917	-62.1933	121.0
G263	GRAB	245	105	65008	KING,L./KAPUSKASING	NORTHEASTERN SHORE	44.6283	-62.3330	135.0
G264	GRAB		1050	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.0400	-62.2100	134.0
G265	GRAB		1051	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.0583	-62.2167	143.0
G266	GRAB		1052	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.0833	-62.2233	141.0
G267	GRAB		1053	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.1000	-62.2300	155.0
G268	GRAB		1054	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.1367	-62.2433	165.0
G269	GRAB		1055	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.1733	-62.2550	165.0
G270	GRAB		1056	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.1983	-62.2583	165.0
G271	GRAB		1057	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.2133	-62.2667	163.0
G272	GRAB		1058	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.2417	-62.2800	174.0
G273	GRAB		1059	65008	KING,L./KAPUSKASING	NE OF EMERALD BASIN	44.2983	-62.2733	82.0
G274	GRAB	262	106	65008	KING,L./KAPUSKASING	N. OF THE PATCH	44.3333	-62.3420	238.0
G275	GRAB		1060	65008	KING,L./KAPUSKASING	NE OF EMERALD BASIN	44.3100	-62.2317	88.0
G276	GRAB		1061	65008	KING,L./KAPUSKASING	NE OF EMERALD BASIN	44.3133	-62.2250	128.0
G277	GRAB		1062	65008	KING,L./KAPUSKASING	NE OF EMERALD BASIN	44.3150	-62.2133	165.0
G278	GRAB		1063	65008	KING,L./KAPUSKASING	NE OF EMERALD BASIN	44.3267	-62.1783	183.0
G279	GRAB		1064	65008	KING,L./KAPUSKASING	NE OF EMERALD BASIN	44.4183	-62.1983	221.0
G280	GRAB		1065	65008	KING,L./KAPUSKASING	NE OF EMERALD BASIN	44.5000	-62.1983	157.0
G281	GRAB		1066	65008	KING,L./KAPUSKASING	NE OF EMERALD BASIN	44.6250	-62.1983	149.0
G282	GRAB		1067	65008	KING,L./KAPUSKASING	NE OF EMERALD BASIN	44.6583	-62.2133	138.0
G283	GRAB		1068	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.6933	-62.2350	126.0
G284	GRAB		1069	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.7033	-62.2400	116.0
G285	GRAB	261	107	65008	KING,L./KAPUSKASING	NE OF EMERALD BASIN	44.3333	-62.5000	237.0
G286	GRAB		1070	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.7400	-62.2600	97.0
G287	GRAB		1071	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.7667	-62.2750	74.0
G288	GRAB		1072	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.6750	-62.1000	138.0
G289	GRAB		1072	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.8067	-62.1800	81.0
G290	GRAB		1073	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.7750	-62.1633	88.0
G291	GRAB		1074	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.7417	-62.1417	110.0
G292	GRAB		1075	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.7200	-62.1267	117.0
G293	GRAB		1076	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.6750	-62.1000	138.0
G294	GRAB		1077	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.6400	-62.0833	143.0
G295	GRAB		1078	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5800	-62.0817	150.0
G296	GRAB		1079	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5000	-62.0833	210.0
G297	GRAB	260	108	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.3333	-62.6700	164.0
G298	GRAB		1080	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.4400	-62.0400	210.0
G299	GRAB		1081	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.4150	-61.9633	179.0
G300	GRAB		1082	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3350	-61.9967	183.0
G301	GRAB		1083	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2483	-61.9650	183.0
G302	GRAB		1084	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2200	-61.9550	143.0
G303	GRAB		1085	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2100	-61.9500	128.0
G304	GRAB		1086	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1250	-61.9167	148.0
G305	GRAB		1086	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1250	-61.9167	148.0
G306	GRAB		1087	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1083	-61.9133	148.0
G307	GRAB		1088	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.0317	-61.8833	139.0
G308	GRAB		1089	65008	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.0167	-61.8750	128.0
G309	GRAB	256	109	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.3367	-62.8400	168.0
G310	GRAB	255	110	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.3350	-63.0020	154.0
G311	GRAB	254	111	65008	KING,L./KAPUSKASING	NE OF HALIFAX	44.3333	-63.1630	161.0
G312	GRAB	274	112	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.2500	-63.3330	146.0
G313	GRAB	273	113	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.2583	-63.1670	168.0
G314	GRAB	272	114	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.2500	-62.9830	177.0
G315	GRAB	271	115	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.2833	-62.9330	164.0
G316	GRAB	270	116	65008	KING,L./KAPUSKASING	EMERALD BASIN	44.2167	-62.8670	187.0
G317	GRAB	269	117	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.2483	-62.8330	205.0
G318	GRAB	268	118	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.3017	-62.7650	183.0
G319	GRAB	267	119	65008	KING,L./KAPUSKASING	EDGE OF THE PATCH	44.2800	-62.5000	163.0
G320	GRAB	289	120	65008	KING,L./KAPUSKASING	THE PATCH	44.2083	-62.4670	118.0
G321	GRAB	293	121	65008	KING,L./KAPUSKASING	THE PATCH	44.1967	-62.3570	135.0
G322	GRAB	292	122	65008	KING,L./KAPUSKASING	THE PATCH	44.2083	-62.3670	124.0
G323	GRAB	291	123	65008	KING,L./KAPUSKASING	THE PATCH	44.2167	-62.3720	91.0
G324	GRAB	290	124	65008	KING,L./KAPUSKASING	THE PATCH	44.2333	-62.3830	91.0
G325	GRAB	266	125	65008	KING,L./KAPUSKASING	THE PATCH	44.2667	-62.3330	95.0
G326	GRAB	265	126	65008	KING,L./KAPUSKASING	THE PATCH	44.2733	-62.3330	90.0
G327	GRAB	264	127	65008	KING,L./KAPUSKASING	THE PATCH	44.2933	-62.3330	91.0
G328	GRAB	249	128	65008	KING,L./KAPUSKASING	N. OF THE PATCH	44.4167	-62.3330	187.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G329	GRAB	250	129	65008	KING,L./KAPUSKASING	N. OF THE PATCH	44.4467	-62.4170	142.0
G330	GRAB	251	130	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.4167	-62.5000	160.0
G331	GRAB	253	131	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.3667	-62.8170	154.0
G332	GRAB	257	132	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.3667	-62.7670	165.0
G333	GRAB	258	133	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.3667	-62.7460	143.0
G334	GRAB	259	134	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.3683	-62.7020	143.0
G335	GRAB	252	135	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.4167	-62.6730	143.0
G336	GRAB	247	136	65008	KING,L./KAPUSKASING	NORTHEASTERN SHORE	44.5000	-62.5000	146.0
G337	GRAB	248	137	65008	KING,L./KAPUSKASING	N. OF THE PATCH	44.5000	-62.3330	87.0
G338	GRAB	246	138	65008	KING,L./KAPUSKASING	NORTHEASTERN SHORE	44.5717	-62.3330	150.0
G339	GRAB	263	139	65008	KING,L./KAPUSKASING	N. OF THE PATCH	44.3333	-62.3420	238.0
G340	GRAB	294	140	65008	KING,L./KAPUSKASING	THE PATCH	44.1667	-62.3330	154.0
G341	GRAB	295	141	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.1083	-62.4330	155.0
G342	GRAB	296	142	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.1467	-62.4780	154.0
G343	GRAB	288	143	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.1667	-62.5000	145.0
G344	GRAB	297	144	65008	KING,L./KAPUSKASING	E. OF EMERALD BASIN	44.1183	-62.5830	146.0
G345	GRAB	298	145	65008	KING,L./KAPUSKASING	EMERALD BASIN	44.0900	-62.6500	183.0
G346	GRAB	316	146	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.0417	-62.6917	198.0
G347	GRAB	287	147	65008	KING,L./KAPUSKASING	EMERALD BASIN	44.1667	-62.8330	234.0
G348	GRAB	286	148	65008	KING,L./KAPUSKASING	EMERALD BASIN	44.1850	-62.8330	187.0
G349	GRAB	285	149	65008	KING,L./KAPUSKASING	EMERALD BASIN	44.1617	-62.9520	190.0
G350	GRAB	284	150	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.1683	-63.0000	188.0
G351	GRAB	284	150	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.1683	-63.0000	188.0
G352	GRAB	283	151	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.1583	-63.0680	176.0
G353	GRAB	282	152	65008	KING,L./KAPUSKASING	N. OF EMERALD BASIN	44.1667	-63.1670	176.0
G354	GRAB		152	65008	KING,L./KAPUSKASING	W. OF HALIFAX	44.4067	-63.6533	28.0
G355	GRAB	281	153	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.1667	-63.2500	182.0
G356	GRAB	280	154	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.1667	-63.3330	165.0
G357	GRAB	279	155	65008	KING,L./KAPUSKASING	S. OF HALIFAX	44.1667	-63.4170	154.0
G358	GRAB	307	156	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.0917	-63.3833	187.0
G359	GRAB	304	157	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.1167	-63.2500	179.0
G360	GRAB	305	158	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.1333	-63.2500	183.0
G361	GRAB	303	159	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.1167	-63.1833	150.0
G362	GRAB	302	160	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.1167	-63.1170	176.0
G363	GRAB	301	161	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.1083	-63.0667	165.0
G364	GRAB	300	162	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.1000	-63.0433	201.0
G365	GRAB	299	163	65008	KING,L./KAPUSKASING	EMERALD BASIN	44.1167	-62.9000	238.0
G366	GRAB	317	165	65008	KING,L./KAPUSKASING	EASTERN SHORE	44.0017	-62.6917	208.0
G367	GRAB	318	166	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.9583	-62.6167	179.0
G368	GRAB	319	167	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.9600	-62.5917	172.0
G369	GRAB	320	168	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.9608	-62.5700	160.0
G370	GRAB	321	169	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.4617	-62.5475	146.0
G371	GRAB	322	170	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.9650	-62.5247	134.0
G372	GRAB	323	171	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.9650	-62.5000	121.0
G373	GRAB	324	172	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.9650	-62.4783	106.0
G374	GRAB	325	173	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.9667	-62.4567	99.0
G375	GRAB	326	174	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.9683	-62.4317	95.0
G376	GRAB	327	175	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.9700	-62.4083	95.0
G377	GRAB	328	176	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.9717	-62.3867	91.0
G378	GRAB	351	178	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6000	-62.3750	81.0
G379	GRAB	350	179	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6083	-62.3917	73.0
G380	GRAB	349	180	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6117	-62.4100	71.0
G381	GRAB	348	181	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6233	-62.4300	71.0
G382	GRAB	347	182	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6283	-62.4500	73.0
G383	GRAB	346	183	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6383	-62.4700	71.0
G384	GRAB	345	184	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6433	-62.4917	73.0
G385	GRAB	344	185	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6533	-62.5133	73.0
G386	GRAB	343	186	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6583	-62.5300	77.0
G387	GRAB	342	187	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6667	-62.5500	82.0
G388	GRAB	341	188	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6250	-62.5717	86.0
G389	GRAB	340	189	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6833	-62.5917	97.0
G390	GRAB	339	190	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6917	-62.6117	123.0
G391	GRAB	338	191	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6967	-62.6333	135.0
G392	GRAB	337	192	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7075	-62.6533	146.0
G393	GRAB	336	193	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7142	-62.6733	163.0
G394	GRAB	335	194	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7217	-62.6933	172.0
G395	GRAB	334	195	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7300	-62.7133	183.0
G396	GRAB	333	196	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7433	-62.7433	190.0
G397	GRAB	332	197	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.4500	-62.7633	201.0
G398	GRAB	331	198	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7617	-62.8250	227.0
G399	GRAB	308	204	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7117	-63.4917	179.0
G400	GRAB	309	205	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7117	-63.4683	166.0
G401	GRAB	310	206	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7117	-63.4500	150.0
G402	GRAB	311	207	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7117	-63.4250	132.0
G403	GRAB	312	208	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7117	-63.4033	113.0
G404	GRAB	313	209	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7117	-63.3783	106.0
G405	GRAB	314	210	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7117	-63.3583	95.0
G406	GRAB	315	211	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.7117	-63.3333	93.0
G407	GRAB	329	217	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.9200	-62.6950	203.0
G408	GRAB	330	218	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.8250	-62.7167	203.0
G409	GRAB	352	219	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.6267	-62.8583	198.0
G410	GRAB	353	221	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.5833	-63.0283	216.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G411	GRAB	354	226	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3350	-63.6733	181.0
G412	GRAB	355	227	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3350	-63.6417	201.0
G413	GRAB	356	228	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3350	-63.6350	174.0
G414	GRAB	357	229	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3350	-63.4183	146.0
G415	GRAB	358	230	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3350	-63.3633	172.0
G416	GRAB	359	231	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3800	-63.3867	196.0
G417	GRAB	360	232	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3783	-63.2533	188.0
G418	GRAB	361	233	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3733	-63.2333	183.0
G419	GRAB	362	234	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3717	-63.2133	172.0
G420	GRAB	363	235	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3683	-63.1917	163.0
G421	GRAB	364	236	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3650	-63.1667	152.0
G422	GRAB	365	237	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3617	-63.1417	141.0
G423	GRAB	366	238	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3567	-63.1167	135.0
G424	GRAB	367	239	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3533	-63.0917	126.0
G425	GRAB	368	240	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3500	-63.0733	121.0
G426	GRAB	369	241	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3467	-63.0533	117.0
G427	GRAB	370	242	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3433	-63.0250	110.0
G428	GRAB	371	243	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3417	-63.0033	106.0
G429	GRAB	372	244	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3367	-62.9617	110.0
G430	GRAB	373	245	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3367	-62.8483	102.0
G431	GRAB	374	246	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3367	-62.7367	99.0
G432	GRAB	375	247	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3367	-62.6217	99.0
G433	GRAB	376	248	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3367	-62.5083	95.0
G434	GRAB	377	249	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.3367	-62.4217	93.0
G435	GRAB	378	251	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2567	-62.3417	95.0
G436	GRAB	379	252	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2567	-62.5083	95.0
G437	GRAB	380	253	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2567	-62.6233	95.0
G438	GRAB	381	254	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2567	-62.7383	102.0
G439	GRAB	382	255	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2533	-62.8500	101.0
G440	GRAB	383	256	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2533	-62.9650	117.0
G441	GRAB	399	257	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.1700	-62.9633	121.0
G442	GRAB	398	258	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.1667	-63.0750	135.0
G443	GRAB	397	259	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.1667	-63.1900	145.0
G444	GRAB	396	260	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.1667	-63.2967	154.0
G445	GRAB	395	261	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.1667	-63.4100	146.0
G446	GRAB	394	262	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.1667	-63.5233	145.0
G447	GRAB	393	263	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.1925	-63.5775	159.0
G448	GRAB	392	264	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.1667	-63.6367	146.0
G449	GRAB	391	265	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.1667	-63.6733	141.0
G450	GRAB	390	266	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2533	-63.6733	183.0
G451	GRAB	389	267	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2500	-63.6383	181.0
G452	GRAB	388	268	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2500	-63.5167	166.0
G453	GRAB	387	269	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2500	-63.4100	145.0
G454	GRAB	386	270	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2500	-63.2850	134.0
G455	GRAB	385	271	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2500	-63.1850	146.0
G456	GRAB	384	272	65008	KING,L./KAPUSKASING	EASTERN SHORE	43.2500	-63.0667	117.0
G457	GRAB	400	273	65008	KING,L./KAPUSKASING	EMERALD BANK	43.1683	-62.8920	113.0
G458	GRAB	401	274	65008	KING,L./KAPUSKASING	EMERALD BANK	43.1667	-62.8670	110.0
G459	GRAB	402	275	65008	KING,L./KAPUSKASING	EMERALD BANK	43.1667	-62.8450	110.0
G460	GRAB	403	276	65008	KING,L./KAPUSKASING	EMERALD BANK	43.1667	-62.7300	104.0
G461	GRAB	404	277	65008	KING,L./KAPUSKASING	EMERALD BANK	43.1667	-62.6170	99.0
G462	GRAB	405	278	65008	KING,L./KAPUSKASING	EMERALD BANK	43.1667	-62.5030	102.0
G463	GRAB	406	279	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.1667	-62.4170	101.0
G464	GRAB	407	281	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.0833	-62.3380	102.0
G465	GRAB	408	282	65008	KING,L./KAPUSKASING	EMERALD BANK	43.0833	-62.5050	106.0
G466	GRAB	409	283	65008	KING,L./KAPUSKASING	EMERALD BANK	43.0833	-62.6180	110.0
G467	GRAB	410	284	65008	KING,L./KAPUSKASING	EMERALD BANK	43.0833	-62.7330	108.0
G468	GRAB	411	285	65008	KING,L./KAPUSKASING	EMERALD BANK	43.0833	-62.8470	108.0
G469	GRAB	411	286	65008	KING,L./KAPUSKASING	EMERALD BANK	43.0833	-62.9580	126.0
G470	GRAB	412	286	65008	KING,L./KAPUSKASING	W. OF EMERALD BANK	43.0833	-62.9583	126.0
G471	GRAB	427	287	65008	KING,L./KAPUSKASING	SW OF EMERALD BANK	43.0033	-62.9630	128.0
G472	GRAB	428	288	65008	KING,L./KAPUSKASING	SW OF EMERALD BANK	43.0050	-62.8520	124.0
G473	GRAB	429	289	65008	KING,L./KAPUSKASING	EMERALD BANK	43.0050	-62.7920	121.0
G474	GRAB	430	290	65008	KING,L./KAPUSKASING	EMERALD BANK	43.0050	-62.7750	110.0
G475	GRAB	431	291	65008	KING,L./KAPUSKASING	EMERALD BANK	43.0050	-62.7380	112.0
G476	GRAB	432	292	65008	KING,L./KAPUSKASING	EMERALD BANK	43.0067	-62.6270	112.0
G477	GRAB	433	293	65008	KING,L./KAPUSKASING	SE OF EMERALD BANK	43.0067	-62.5150	135.0
G478	GRAB	434	294	65008	KING,L./KAPUSKASING	SE OF EMERALD BANK	43.0067	-62.4250	139.0
G479	GRAB	435	295	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.0583	-62.3420	104.0
G480	GRAB	436	296	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.0383	-62.3370	108.0
G481	GRAB	437	297	65008	KING,L./KAPUSKASING	WESTERN GULLY	43.0250	-62.3370	123.0
G482	GRAB	426	310	65008	KING,L./KAPUSKASING	SW OF EMERALD BANK	43.0033	-63.0780	145.0
G483	GRAB	413	311	65008	KING,L./KAPUSKASING	W. OF EMERALD BANK	43.0883	-63.0770	135.0
G484	GRAB	414	312	65008	KING,L./KAPUSKASING	W. OF EMERALD BANK	43.0883	-63.1900	152.0
G485	GRAB	415	313	65008	KING,L./KAPUSKASING	S. OF EMERALD BASIN	43.0850	-63.3050	154.0
G486	GRAB	416	314	65008	KING,L./KAPUSKASING	S. OF EMERALD BASIN	43.0850	-63.4130	155.0
G487	GRAB	417	315	65008	KING,L./KAPUSKASING	S. OF LAHAVE BASIN	43.0850	-63.5280	166.0
G488	GRAB	418	316	65008	KING,L./KAPUSKASING	S. OF LAHAVE BASIN	43.0850	-63.6420	152.0
G489	GRAB	419	317	65008	KING,L./KAPUSKASING	S. OF LAHAVE BASIN	43.0850	-63.6730	134.0
G490	GRAB	420	321	65008	KING,L./KAPUSKASING	S. OF LAHAVE BASIN	43.0017	-63.6730	135.0
G491	GRAB	421	322	65008	KING,L./KAPUSKASING	S. OF LAHAVE BASIN	43.0017	-63.6420	150.0
G492	GRAB	422	323	65008	KING,L./KAPUSKASING	S. OF LAHAVE BASIN	43.0017	-63.5500	155.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G493	GRAB	423	324	65008	KING,L./KAPUSKASING	S. OF EMERALD BASIN	43.0017	-63.4170	159.0
G494	GRAB	424	325	65008	KING,L./KAPUSKASING	S. OF EMERALD BASIN	43.0033	-63.3000	157.0
G495	GRAB	425	326	65008	KING,L./KAPUSKASING	S. OF EMERALD BASIN	43.0033	-63.1900	154.0
G496	CORE		KC	65008	KING,L.		43.4250	-63.6500	194.0
G497	CORE		KC	65008	KING,L.		43.5917	-63.1867	225.0
G498	CORE		KC	65008	KING,L.		43.6700	-63.0733	260.0
G499	GRAB		KC	65008	KING,L.		43.7500	-63.5417	207.0
G500	GRAB		KC	65008	KING,L.		43.7517	-63.0667	282.0
G501	GRAB		KC	65008	KING,L.		43.7533	-63.3033	102.0
G502	GRAB		KC	65008	KING,L.		43.7533	-63.1700	121.0
G503	GRAB		KC	65008	KING,L.		44.4367	-63.6733	91.0
G504	GRAB		KC	65008	KING,L.		44.4167	-63.6733	99.0
G505	GRAB		KC	65008	KING,L.		44.4100	-63.6533	28.0
G506	CORE		KC	65008	KING,L.		43.7500	-63.6467	238.0
G507	CORE		KC	65008	KING,L.		43.6667	-63.6500	227.0
G508	CORE		KC	65008	KING,L.		43.5867	-63.6500	220.0
G509	CORE		KC	65008	KING,L.		43.4983	-63.6500	194.0
G510	CORE		KC	65008	KING,L.		43.4983	-63.3050	210.0
G511	GRAB		KC	65008	KING,L.		43.5500	-62.8467	117.0
G512	GRAB		KC	65008	KING,L.		43.5900	-62.3383	99.0
G513	GRAB		002	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	44.1467	-64.1333	100.0
G514	GRAB		112	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.0667	-64.4133	126.0
G515	GRAB		117	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.1800	-64.2617	90.0
G516	GRAB		118	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.0383	-64.0900	90.0
G517	GRAB		125	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.0250	-63.7917	120.0
G518	GRAB		126	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.1167	-63.9083	96.0
G519	GRAB		128	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.2883	-64.1417	88.0
G520	GRAB		129	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.3833	-64.2667	178.0
G521	GRAB		130	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.4633	-64.3750	172.0
G522	GRAB		131	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.5550	-64.0048	146.0
G523	GRAB		135	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.6250	-64.3000	182.0
G524	GRAB		136	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.5400	-64.1733	1.9
G525	GRAB		137	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.4500	-64.0767	110.0
G526	GRAB		138	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.3583	-63.9633	100.0
G527	GRAB		139	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.2717	-63.8500	104.0
G528	GRAB		140	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.1833	-63.7333	147.0
G529	GRAB		141	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.0967	-63.6167	151.0
G530	GRAB		142	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.0083	-63.5083	1.6
G531	GRAB		149	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.0000	-63.2500	156.0
G532	GRAB		150	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.0917	-63.3583	150.0
G533	GRAB		151	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.1833	-63.4667	138.0
G534	GRAB		152	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.2667	-63.5917	173.0
G535	GRAB		153	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.3633	-63.7000	202.0
G536	GRAB		154	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.4500	-63.8083	219.0
G537	GRAB		155	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.5417	-63.9167	156.0
G538	GRAB		156	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.6333	-64.0367	207.0
G539	GRAB		157	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.7200	-64.1500	202.0
G540	GRAB		159	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.9000	-64.3750	110.0
G541	GRAB		160	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.9967	-64.2167	114.0
G542	GRAB		164	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.2500	-63.3333	138.0
G543	GRAB		165	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.0917	-63.1000	138.0
G544	GRAB		171	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.0500	-62.8500	117.0
G545	GRAB		172	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.1467	-62.9583	118.0
G546	GRAB		173	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.2333	-63.0667	118.0
G547	GRAB		174	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.3333	-63.1583	146.0
G548	GRAB		177	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.6000	-63.4833	135.0
G549	GRAB		177	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.6000	-63.4833	135.0
G550	GRAB		181	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.7883	-63.9167	168.0
G551	GRAB		182	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	44.0550	-64.0300	122.0
G552	GRAB		183	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	44.1583	-63.9133	140.0
G553	GRAB		187	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.8833	-63.5833	234.0
G554	GRAB		189	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.7883	-63.4667	180.0
G555	GRAB		190	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.7000	-63.3833	100.0
G556	GRAB		196	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.2333	-62.8500	100.0
G557	GRAB		198	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.1367	-62.7633	106.0
G558	GRAB		200	65011	DRAPEAU,G./SACKVILLE	SCOTIAN SHELF	43.0333	-62.7500	114.0
G559	GRAB		1124	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.0533	-61.7650	149.0
G560	GRAB		1125	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.0983	-61.7833	130.0
G561	GRAB		1126	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1317	-61.7967	128.0
G562	GRAB		1127	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1667	-61.8083	114.0
G563	GRAB		1128	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1883	-61.8167	135.0
G564	GRAB		1129	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2100	-61.8250	139.0
G565	GRAB		1130	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2200	-61.8283	157.0
G566	GRAB		1131	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2483	-61.8400	165.0
G567	GRAB		1132	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2683	-61.8467	128.0
G568	GRAB		1133	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2800	-61.8500	179.0
G569	GRAB		1134	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3500	-61.9633	0.0
G570	GRAB		1135	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.4117	-61.8717	165.0
G571	GRAB		1136	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5000	-61.8467	165.0
G572	GRAB		1137	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5367	-61.9017	174.0
G573	GRAB		1138	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5833	-61.9633	165.0
G574	GRAB		1139	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.6700	-61.9733	143.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G575	GRAB		1140	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.6967	-61.9850	139.0
G576	GRAB		1141	66004	KING,L./KAPUSKASING	WESTERN BANK	44.7233	-62.0000	134.0
G577	GRAB		1141	66004	KING,L./KAPUSKASING	WESTERN BANK	44.7233	-62.0000	134.0
G578	GRAB		1142	66004	KING,L./KAPUSKASING	NE SHORE	44.7567	-62.0200	121.0
G579	GRAB		1143	66004	KING,L./KAPUSKASING	NE SHORE	44.7667	-62.0250	110.0
G580	GRAB		1144	66004	KING,L./KAPUSKASING	NE SHORE	44.7933	-62.0467	88.0
G581	GRAB		1145	66004	KING,L./KAPUSKASING	NE SHORE	44.8200	-62.0583	73.0
G582	GRAB		1146	66004	KING,L./KAPUSKASING	NE SHORE	44.8383	-61.9433	74.0
G583	GRAB		1147	66004	KING,L./KAPUSKASING	NE SHORE	44.8200	-61.9317	74.0
G584	GRAB		1148	66004	KING,L./KAPUSKASING	NE SHORE	44.7883	-61.9167	74.0
G585	GRAB		1149	66004	KING,L./KAPUSKASING	NE SHORE	44.7667	-61.9033	119.0
G586	GRAB		1150	66004	KING,L./KAPUSKASING	NE SHORE	44.7250	-61.8733	141.0
G587	GRAB		1151	66004	KING,L./KAPUSKASING	NE SHORE	44.6967	-61.8500	136.0
G588	GRAB		1152	66004	KING,L./KAPUSKASING	NE SHORE	44.6667	-61.8417	143.0
G589	GRAB		1153	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5717	-61.8333	161.0
G590	GRAB		1154	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5817	-61.7300	161.0
G591	GRAB		1155	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5367	-61.7650	165.0
G592	GRAB		1155	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5367	-61.7650	165.0
G593	GRAB		1156	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5000	-61.6933	167.0
G594	GRAB		1157	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.4250	-61.7417	168.0
G595	GRAB		1158	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.7383	-61.7383	174.0
G596	GRAB		1159	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3917	-61.7350	0.0
G597	GRAB		1160	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3167	-61.7267	168.0
G598	GRAB		1161	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2883	-61.7350	146.0
G599	GRAB		1161	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2883	-61.7350	146.0
G600	GRAB		1162	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2750	-61.7300	117.0
G601	GRAB		1163	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2633	-61.7417	102.0
G602	GRAB		1164	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2333	-61.7250	154.0
G603	GRAB		1165	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2200	-61.7250	141.0
G604	GRAB		1166	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2083	-61.7250	0.0
G605	GRAB		1167	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1817	-61.7083	91.0
G606	GRAB		1168	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1583	-61.6917	91.0
G607	GRAB		1169	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1550	-61.6867	110.0
G608	GRAB		1170	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1467	-61.6817	143.0
G609	GRAB		1171	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1117	-61.6083	150.0
G610	GRAB		1172	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.0733	-61.6500	117.0
G611	GRAB		1173	66004	KING,L./KAPUSKASING	WESTERN BANK	44.0667	-61.6500	110.0
G612	GRAB		1174	66004	KING,L./KAPUSKASING	WESTERN BANK	44.0583	-61.6467	108.0
G613	GRAB		1175	66004	KING,L./KAPUSKASING	WESTERN BANK	44.0000	-61.6150	84.0
G614	GRAB		1199	66004	KING,L./KAPUSKASING	WESTERN BANK	44.0050	-61.5333	103.0
G615	GRAB		1200	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.0167	-61.5333	121.0
G616	GRAB		1201	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.0417	-61.5433	132.0
G617	GRAB		1202	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.0867	-61.5567	134.0
G618	GRAB		1203	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1250	-61.5667	128.0
G619	GRAB		1204	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1367	-61.5683	138.0
G620	GRAB		1205	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1467	-61.5733	143.0
G621	GRAB		1206	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1683	-61.6167	163.0
G622	GRAB		1207	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2333	-61.5950	145.0
G623	GRAB		1208	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3267	-61.5833	128.0
G624	GRAB		1209	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3367	-61.5833	117.0
G625	GRAB		1210	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3433	-61.5833	115.0
G626	GRAB		1211	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3533	-61.5833	169.0
G627	GRAB		1212	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3633	-61.5833	169.0
G628	GRAB		1213	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3300	-61.5600	194.0
G629	GRAB		1214	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3133	-61.5517	140.0
G630	GRAB		1215	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2583	-61.5233	143.0
G631	GRAB		1216	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2583	-61.5167	135.0
G632	GRAB		1217	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.2067	-61.4567	140.0
G633	GRAB		1218	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1900	-61.4483	110.0
G634	GRAB		1219	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1833	-61.4417	128.0
G635	GRAB		1220	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.1783	-61.4750	130.0
G636	GRAB		1221	66004	KING,L./KAPUSKASING	NE OF WESTERN BANK	44.1567	-61.4633	106.0
G637	GRAB		1222	66004	KING,L./KAPUSKASING	NE OF WESTERN BANK	44.1500	-61.4167	150.0
G638	GRAB		1223	66004	KING,L./KAPUSKASING	NE OF WESTERN BANK	44.0267	-61.3933	128.0
G639	GRAB		1224	66004	KING,L./KAPUSKASING	NE OF WESTERN BANK	44.0167	-61.3883	117.0
G640	GRAB		1225	66004	KING,L./KAPUSKASING	NE OF WESTERN BANK	44.0083	-61.3833	108.0
G641	GRAB		1226	66004	KING,L./KAPUSKASING	NE OF WESTERN BANK	44.0733	-61.3633	128.0
G642	GRAB		1227	66004	KING,L./KAPUSKASING	NE OF WESTERN BANK	44.0517	-61.3500	121.0
G643	GRAB		1228	66004	KING,L./KAPUSKASING	SABLE ISLAND BANK	44.0450	-61.2750	99.0
G644	GRAB		1229	66004	KING,L./KAPUSKASING	SABLE ISLAND BANK	44.0533	-61.2833	102.0
G645	GRAB		1230	66004	KING,L./KAPUSKASING	S. OF THE COW PEN	44.0917	-61.3100	128.0
G646	GRAB		1231	66004	KING,L./KAPUSKASING	S. OF THE COW PEN	44.1517	-61.3583	136.0
G647	GRAB		1232	66004	KING,L./KAPUSKASING	S. OF THE COW PEN	44.1517	-61.3217	118.0
G648	GRAB		1233	66004	KING,L./KAPUSKASING	S. OF THE COW PEN	44.1433	-61.3083	114.0
G649	GRAB		1234	66004	KING,L./KAPUSKASING	SE OF THE COW PEN	44.1233	-61.2667	105.0
G650	GRAB		1235	66004	KING,L./KAPUSKASING	N. SABLE ISLAND BANK	44.1167	-61.2550	86.0
G651	GRAB		1236	66004	KING,L./KAPUSKASING	N. SABLE ISLAND BANK	44.1783	-61.2683	88.0
G652	GRAB		1237	66004	KING,L./KAPUSKASING	SE OF THE COW PEN	44.2117	-61.3583	213.0
G653	GRAB		1238	66004	KING,L./KAPUSKASING	SE OF THE COW PEN	44.1867	-61.3850	114.0
G654	GRAB		1239	66004	KING,L./KAPUSKASING	THE COW PEN	44.2350	-61.4250	183.0
G655	GRAB		1240	66004	KING,L./KAPUSKASING	THE COW PEN	44.2500	-61.3833	183.0
G656	GRAB		1241	66004	KING,L./KAPUSKASING	THE COW PEN	44.2833	-61.4583	143.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G657	GRAB		1242	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3050	-61.4567	143.0
G658	GRAB		1243	66004	KING,L./KAPUSKASING	N. OF THE COW PEN	44.3617	-61.4267	176.0
G659	GRAB		1244	66004	KING,L./KAPUSKASING	N. OF THE COW PEN	44.3417	-61.4050	125.0
G660	GRAB		1244A	66004	KING,L./KAPUSKASING	THE COW PEN	44.3417	-61.4050	198.0
G661	GRAB		1245	66004	KING,L./KAPUSKASING	THE COW PEN	44.3067	-61.3683	188.0
G662	GRAB		1246	66004	KING,L./KAPUSKASING	THE COW PEN	44.2800	-61.3367	161.0
G663	GRAB		1247	66004	KING,L./KAPUSKASING	THE COW PEN	44.2433	-61.3000	110.0
G664	GRAB		1248	66004	KING,L./KAPUSKASING	THE COW PEN	44.2350	-61.2900	125.0
G665	GRAB		1249	66004	KING,L./KAPUSKASING	N. OF THE COW PEN	44.3617	-61.2783	102.0
G666	GRAB		1250	66004	KING,L./KAPUSKASING	N. OF THE COW PEN	44.3650	-61.2917	187.0
G667	GRAB		1251	66004	KING,L./KAPUSKASING	N. OF THE COW PEN	44.3733	-61.3233	183.0
G668	GRAB		1252	66004	KING,L./KAPUSKASING	N. OF THE COW PEN	44.3933	-61.3833	146.0
G669	GRAB		1253	66004	KING,L./KAPUSKASING	N. OF THE COW PEN	44.4117	-61.4817	161.0
G670	GRAB		1254	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.3883	-61.5350	177.0
G671	GRAB		1255	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.4083	-61.5783	168.0
G672	GRAB		1256	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5000	-61.6133	165.0
G673	GRAB		1257	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5000	-61.5000	154.0
G674	GRAB		1258	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	44.5000	-61.3600	125.0
G675	GRAB		1259	66004	KING,L./KAPUSKASING	MIDDLE BANK	44.4833	-61.2833	127.0
G676	GRAB		1260	66004	KING,L./KAPUSKASING	MIDDLE BANK	44.4633	-61.3083	136.0
G677	GRAB		1261	66004	KING,L./KAPUSKASING	N. OF THE COW PEN	44.4400	-61.3400	121.0
G678	GRAB		1262	66004	KING,L./KAPUSKASING	N. OF THE COW PEN	44.4200	-61.2600	147.0
G679	GRAB		1269	66004	KING,L./KAPUSKASING	MIDDLE BANK	44.5400	-61.3133	113.0
G680	GRAB		1270	66004	KING,L./KAPUSKASING	W. OF MIDDLE BANK	44.5300	-61.3483	121.0
G681	GRAB		1271	66004	KING,L./KAPUSKASING	W. OF MIDDLE BANK	44.5200	-61.3933	135.0
G682	GRAB		1272	66004	KING,L./KAPUSKASING	W. OF MIDDLE BANK	44.6033	-61.3100	113.0
G683	GRAB		1273	66004	KING,L./KAPUSKASING	W. OF MIDDLE BANK	44.4950	-61.3633	124.0
G684	GRAB		1274	66004	KING,L./KAPUSKASING	W. OF MIDDLE BANK	44.5883	-61.4067	139.0
G685	GRAB		1275	66004	KING,L./KAPUSKASING	W. OF MIDDLE BANK	44.0167	-61.4983	150.0
G686	GRAB		1276	66004	KING,L./KAPUSKASING	W. OF MIDDLE BANK	44.5850	-61.6133	146.0
G687	GRAB		1277	66004	KING,L./KAPUSKASING	MIDDLE BANK	44.6667	-61.2633	108.0
G688	GRAB		1278	66004	KING,L./KAPUSKASING	MIDDLE BANK	44.7500	-61.2667	110.0
G689	GRAB		1311	66004	KING,L./KAPUSKASING	N. OF MIDDLE BANK	44.8583	-61.3050	150.0
G690	GRAB		1313	66004	KING,L./KAPUSKASING	N. OF MIDDLE BANK	44.8500	-61.3783	105.0
G691	GRAB		1314	66004	KING,L./KAPUSKASING	N. OF MIDDLE BANK	44.8417	-61.3917	106.0
G692	GRAB		1315	66004	KING,L./KAPUSKASING	N. OF MIDDLE BANK	44.8300	-61.4083	91.0
G693	GRAB		1316	66004	KING,L./KAPUSKASING	N. OF MIDDLE BANK	44.8117	-61.3333	93.0
G694	GRAB		1317	66004	KING,L./KAPUSKASING	N. OF MIDDLE BANK	44.7833	-61.3517	110.0
G695	GRAB		1318	66004	KING,L./KAPUSKASING	NW OF MIDDLE BANK	44.7467	-61.3717	123.0
G696	GRAB		1319	66004	KING,L./KAPUSKASING	NW OF MIDDLE BANK	44.6983	-61.4050	135.0
G697	GRAB		1320	66004	KING,L./KAPUSKASING	W. OF MIDDLE BANK	44.6717	-61.4200	143.0
G698	GRAB		1321	66004	KING,L./KAPUSKASING	W. OF MIDDLE BANK	44.7000	-61.4917	150.0
G699	GRAB		1322	66004	KING,L./KAPUSKASING	NW OF MIDDLE BANK	44.7483	-61.5233	124.0
G700	GRAB		1323	66004	KING,L./KAPUSKASING	NW OF MIDDLE BANK	44.7833	-61.5433	117.0
G701	GRAB		1324	66004	KING,L./KAPUSKASING	W. OF MIDDLE BANK	44.8400	-61.5733	135.0
G702	GRAB		1325	66004	KING,L./KAPUSKASING	NE SHORE	44.8467	-61.5783	137.0
G703	GRAB		1326	66004	KING,L./KAPUSKASING	NE SHORE	44.8333	-61.6967	106.0
G704	GRAB		1327	66004	KING,L./KAPUSKASING	NE SHORE	44.8117	-61.6833	104.0
G705	GRAB		1328	66004	KING,L./KAPUSKASING	NE SHORE	44.7817	-61.6667	128.0
G706	GRAB		1329	66004	KING,L./KAPUSKASING	NE SHORE	44.7700	-61.6600	139.0
G707	GRAB		1329	66004	KING,L./KAPUSKASING	NE SHORE	44.8117	-61.8000	101.0
G708	GRAB		1330	66004	KING,L./KAPUSKASING	NE SHORE	44.7567	-61.6517	125.0
G709	GRAB		1331	66004	KING,L./KAPUSKASING	NW OF MIDDLE BANK	44.7367	-61.6417	134.0
G710	GRAB		1332	66004	KING,L./KAPUSKASING	NW OF MIDDLE BANK	44.7117	-61.7050	151.0
G711	GRAB		1333	66004	KING,L./KAPUSKASING	NW OF MIDDLE BANK	44.6950	-61.6167	151.0
G712	GRAB		1334	66004	KING,L./KAPUSKASING	NW OF MIDDLE BANK	44.6783	-61.6083	152.0
G713	GRAB		1335	66004	KING,L./KAPUSKASING	NW OF MIDDLE BANK	44.6833	-61.7283	152.0
G714	GRAB		1336	66004	KING,L./KAPUSKASING	NW OF MIDDLE BANK	44.7067	-61.7417	138.0
G715	GRAB		1337	66004	KING,L./KAPUSKASING	NW OF MIDDLE BANK	44.7267	-61.7500	143.0
G716	GRAB		1338	66004	KING,L./KAPUSKASING	NW OF MIDDLE BANK	44.7450	-61.7633	132.0
G717	GRAB		1340	66004	KING,L./KAPUSKASING	NE SHORE	44.8267	-61.8087	92.0
G718	GRAB		1347	66004	KING,L./KAPUSKASING	WESTERN BANK	44.4133	-61.9667	99.0
G719	GRAB		1353	66004	KING,L./KAPUSKASING	WESTERN GULLY	43.8417	-62.0133	130.0
G720	GRAB		1356	66004	KING,L./KAPUSKASING	N. OF WESTERN BANK	43.9067	-62.0350	150.0
G721	GRAB		1358	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	43.9500	-62.0800	138.0
G722	GRAB		1359	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	43.9667	-62.0950	138.0
G723	GRAB		1359	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	43.9667	-62.0950	139.0
G724	GRAB		1360	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.0000	-63.0817	139.0
G725	GRAB		1362	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.0150	-62.0000	123.0
G726	GRAB		1362	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.0150	-62.0000	123.0
G727	GRAB		1363	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.0233	-62.0017	119.0
G728	GRAB		1364	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.0417	-62.0100	154.0
G729	GRAB		1365	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.0667	-62.0117	143.0
G730	GRAB		1366	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.0883	-62.0133	139.0
G731	GRAB		1367	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.1367	-62.0233	108.0
G732	GRAB		1368	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.1617	-61.9983	108.0
G733	GRAB		1369	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.1700	-61.9900	128.0
G734	GRAB		1370	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.2500	-62.0800	179.0
G735	GRAB		1371	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.3333	-62.0800	190.0
G736	GRAB		1372	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.2517	-62.2000	190.0
G737	GRAB		1373	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.2133	-62.1367	176.0
G738	GRAB		1374	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.1683	-62.0800	161.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G739	GRAB		1375	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.1200	-62.1000	141.0
G740	GRAB		1376	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.1000	-62.0917	132.0
G741	GRAB		1377	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.0750	-62.0817	110.0
G742	GRAB		1378	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.0517	-62.1133	111.0
G743	GRAB		1379	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.0417	-62.1250	132.0
G744	GRAB		1380	66004	KING,L./KAPUSKASING	N. OF WESTERN GULLY	44.0167	-62.1583	117.0
G745	GRAB		781	66004	KING,L./KAPUSKASING	SABLE ISLAND BANK	44.0000	-61.2667	68.0
G746	GRAB		KA1244	66004	KING,L.		44.3217	-61.3783	198.0
G747	GRAB		KC1013	66004	KING,L.		43.7917	-62.4600	132.0
G748	GRAB		KC1014	66004	KING,L.		43.8350	-62.4133	150.0
G749	GRAB		KC1015	66004	KING,L.		43.8517	-62.3950	155.0
G750	GRAB		KC1016	66004	KING,L.		43.8800	-62.3667	154.0
G751	GRAB		KC1017	66004	KING,L.		43.8533	-62.2583	139.0
G752	GRAB		KC1018	66004	KING,L.		43.8233	-62.2500	135.0
G753	GRAB		KC1019	66004	KING,L.		43.7967	-62.2417	135.0
G754	GRAB		KC1020	66004	KING,L.		43.7383	-62.2267	128.0
G755	GRAB		KC1021	66004	KING,L.		43.7083	-62.2167	119.0
G756	GRAB		KC1022	66004	KING,L.		43.6650	-62.2000	104.0
G757	GRAB		KC1023	66004	KING,L.		43.5817	-62.2000	102.0
G758	GRAB		KC1024	66004	KING,L.		43.5000	-62.1950	106.0
G759	GRAB		KC1025	66004	KING,L.		43.4150	-62.1983	101.0
G760	GRAB		KC1026	66004	KING,L.		43.3300	-62.1983	102.0
G761	GRAB		KC1027	66004	KING,L.		43.2483	-62.1983	101.0
G762	GRAB		KC1028	66004	KING,L.		43.1667	-62.1983	104.0
G763	GRAB		KC1029	66004	KING,L.		43.0817	-62.1983	109.0
G764	GRAB		KC1032	66004	KING,L.		43.0367	-62.0800	116.0
G765	GRAB		KC1033	66004	KING,L.		43.0483	-62.0800	109.0
G766	GRAB		KC1034	66004	KING,L.		43.1650	-62.0800	102.0
G767	GRAB		KC1035	66004	KING,L.		43.2467	-62.0750	97.0
G768	GRAB		KC1036	66004	KING,L.		43.3300	-62.0750	91.0
G769	GRAB		KC1037	66004	KING,L.		43.4133	-62.0750	101.0
G770	GRAB		KC1038	66004	KING,L.		43.5000	-62.0683	102.0
G771	GRAB		KC1039	66004	KING,L.		43.5850	-62.0633	95.0
G772	GRAB		KC1040	66004	KING,L.		43.6667	-62.0667	95.0
G773	GRAB		KC1041	66004	KING,L.		43.7333	-62.0433	91.0
G774	GRAB		KC1042	66004	KING,L.		43.7583	-62.1167	114.0
G775	GRAB		KC1043	66004	KING,L.		43.7683	-62.1200	121.0
G776	GRAB		KC1044	66004	KING,L.		43.8717	-62.1550	121.0
G777	GRAB		KC1045	66004	KING,L.		43.9133	-62.1667	110.0
G778	GRAB		KC1046	66004	KING,L.		43.9467	-62.1833	114.0
G779	GRAB		KC1047	66004	KING,L.		43.9550	-62.1850	119.0
G780	GRAB		KC1048	66004	KING,L.		43.9717	-62.1883	130.0
G781	GRAB		KC1049	66004	KING,L.		43.9917	-62.1933	121.0
G782	GRAB		KC1050	66004	KING,L.		44.0400	-62.2100	134.0
G783	GRAB		KC1051	66004	KING,L.		44.0583	-62.2167	143.0
G784	GRAB		KC1052	66004	KING,L.		44.0833	-62.2233	141.0
G785	GRAB		KC1053	66004	KING,L.		44.1000	-62.2300	155.0
G786	GRAB		KC1054	66004	KING,L.		44.1367	-62.2433	165.0
G787	GRAB		KC1055	66004	KING,L.		44.1733	-62.2550	165.0
G788	GRAB		KC1056	66004	KING,L.		44.1983	-62.2583	165.0
G789	GRAB		KC1057	66004	KING,L.		44.2133	-62.2667	163.0
G790	GRAB		KC1058	66004	KING,L.		44.2417	-62.2800	174.0
G791	GRAB		KC1059	66004	KING,L.		44.2983	-62.2733	82.0
G792	GRAB		KC1060	66004	KING,L.		44.3100	-62.2317	88.0
G793	GRAB		KC1061	66004	KING,L.		44.3133	-62.2250	128.0
G794	GRAB		KC1062	66004	KING,L.		44.3150	-62.2133	165.0
G795	GRAB		KC1063	66004	KING,L.		44.3267	-62.1783	183.0
G796	GRAB		KC1064	66004	KING,L.		44.4183	-62.1983	221.0
G797	GRAB		KC1065	66004	KING,L.		44.5000	-62.1983	157.0
G798	GRAB		KC1066	66004	KING,L.		44.6250	-62.1983	149.0
G799	GRAB		KC1067	66004	KING,L.		44.6583	-62.2133	138.0
G800	GRAB		KC1068	66004	KING,L.		44.6933	-62.2350	126.0
G801	GRAB		KC1069	66004	KING,L.		44.7033	-62.2400	116.0
G802	GRAB		KC1070	66004	KING,L.		44.7400	-62.2600	97.0
G803	GRAB		KC1071	66004	KING,L.		44.7667	-62.2750	74.0
G804	GRAB		KC1072	66004	KING,L.		44.8067	-62.1800	81.0
G805	GRAB		KC1073	66004	KING,L.		44.7750	-62.1633	88.0
G806	GRAB		KC1074	66004	KING,L.		44.7417	-62.1417	110.0
G807	GRAB		KC1075	66004	KING,L.		44.7200	-62.1267	117.0
G808	GRAB		KC1076	66004	KING,L.		44.6750	-62.1000	138.0
G809	GRAB		KC1077	66004	KING,L.		44.6400	-62.0833	143.0
G810	GRAB		KC1078	66004	KING,L.		44.5800	-62.0817	150.0
G811	GRAB		KC1079	66004	KING,L.		44.5000	-62.0833	210.0
G812	GRAB		KC1080	66004	KING,L.		44.4400	-62.0400	210.0
G813	GRAB		KC1081	66004	KING,L.		44.4150	-61.9633	179.0
G814	GRAB		KC1082	66004	KING,L.		44.3350	-61.9967	183.0
G815	GRAB		KC1083	66004	KING,L.		44.2483	-61.9650	183.0
G816	GRAB		KC1084	66004	KING,L.		44.2200	-61.9550	143.0
G817	GRAB		KC1085	66004	KING,L.		44.2100	-61.9500	128.0
G818	GRAB		KC1086	66004	KING,L.		44.1250	-61.9167	148.0
G819	GRAB		KC1087	66004	KING,L.		44.1083	-61.9133	148.0
G820	GRAB		KC1088	66004	KING,L.		44.0317	-61.8833	139.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G821	GRAB		KC1089	66004	KING,L.		44.0167	-61.8750	128.0
G822	GRAB		1381	67009	KING,L.		44.3217	-64.0600	60.0
G823	GRAB		1382	67009	KING,L.		44.2433	-64.0267	71.0
G824	GRAB		1383	67009	KING,L.		44.1667	-63.9933	102.0
G825	GRAB		1384	67009	KING,L.		44.0850	-63.9583	132.0
G826	GRAB		1385	67009	KING,L.		44.0333	-63.9450	121.0
G827	GRAB		1386	67009	KING,L.		43.9883	-63.9233	164.0
G828	GRAB		1387	67009	KING,L.		43.9367	-63.9000	173.0
G829	GRAB		1388	67009	KING,L.		43.9133	-63.8900	183.0
G830	GRAB		1389	67009	KING,L.		43.8950	-63.8817	185.0
G831	GRAB		1390	67009	KING,L.		43.5967	-63.7633	238.0
G832	GRAB		1391	67009	KING,L.		43.7200	-63.9167	238.0
G833	GRAB		1392	67009	KING,L.		43.8433	-64.0667	183.0
G834	GRAB		1393	67009	KING,L.		43.8650	-64.0933	154.0
G835	GRAB		1394	67009	KING,L.		43.8983	-64.1400	165.0
G836	GRAB		1395	67009	KING,L.		43.9433	-64.1950	133.0
G837	GRAB		1396	67009	KING,L.		43.9567	-64.2083	124.0
G838	GRAB		1397	67009	KING,L.		43.9667	-64.2200	110.0
G839	GRAB		1398	67009	KING,L.		44.0283	-64.2967	101.0
G840	GRAB		1403	67009	KING,L.		43.8183	-64.4000	134.0
G841	GRAB		1404	67009	KING,L.		43.7850	-64.3583	150.0
G842	GRAB		1405	67009	KING,L.		43.7567	-64.3283	165.0
G843	GRAB		1406	67009	KING,L.		43.7100	-64.2667	187.0
G844	GRAB		1407	67009	KING,L.		43.6483	-64.1917	198.0
G845	GRAB		1408	67009	KING,L.		43.5783	-64.1017	192.0
G846	GRAB		1409	67009	KING,L.		43.5400	-64.0550	168.0
G847	GRAB		1410	67009	KING,L.		43.5050	-64.0083	128.0
G848	GRAB	023	1411	67009	KING,L.		43.4167	-63.9033	130.0
G849	GRAB		1412	67009	KING,L.		43.3317	-63.7917	160.0
G850	GRAB		1413	67009	KING,L.		43.2450	-63.6833	192.0
G851	GRAB		1414	67009	KING,L.		43.0633	-63.7000	146.0
G852	GRAB		1415	67009	KING,L.		43.1583	-63.8100	100.0
G853	PLANKTON		1415	67009	KING,L.		43.1583	-63.8100	100.0
G854	GRAB		1416	67009	KING,L.		43.2467	-63.9167	91.0
G855	GRAB		1417	67009	KING,L.		43.3383	-64.0283	100.0
G856	GRAB		1418	67009	KING,L.		43.4250	-64.1317	99.0
G857	GRAB		1419	67009	KING,L.		43.3450	-64.2533	128.0
G858	GRAB		1420	67009	KING,L.		43.2550	-64.1450	86.0
G859	GRAB		1421	67009	KING,L.		43.1667	-64.0383	91.0
G860	GRAB		1422	67009	KING,L.		43.0767	-63.9267	101.0
G861	GRAB		1428	67009	KING,L.		43.0867	-64.1567	86.0
G862	GRAB		1429	67009	KING,L.		43.1767	-64.2600	90.0
G863	GRAB		1430	67009	KING,L.		43.2633	-64.3733	163.0
G864	GRAB		1431	67009	KING,L.		43.3783	-64.2250	119.0
G865	GRAB		1432	67009	KING,L.		43.3950	-64.2500	174.0
G866	GRAB		1433	67009	KING,L.		43.4083	-64.2667	221.0
G867	GRAB		1434	67009	KING,L.		43.4450	-64.3133	201.0
G868	GRAB		1435	67009	KING,L.		43.4983	-64.3767	174.0
G869	GRAB		1461	67009	KING,L.		43.0950	-64.3800	124.0
G870	GRAB		1462	67009	KING,L.		43.0050	-64.2750	102.0
G871	GRAB		1499	67009	KING,L.		44.0900	-64.3700	53.0
G872	CAMERA		475	68014	MACLEAN,B.		43.0750	-62.7500	117.0
G873	CAMERA		476	68014	MACLEAN,B.		43.6000	-62.6833	113.0
G874	CAMERA		477	68014	MACLEAN,B.		43.6283	-62.7083	135.0
G875	CAMERA		478	68014	MACLEAN,B.		43.6833	-62.8333	223.0
G876	CAMERA		479	68014	MACLEAN,B.		43.7217	-62.9750	270.0
G877	CAMERA		480	68014	MACLEAN,B.		43.5667	-63.4000	121.0
G878	CAMERA		481	68014	MACLEAN,B.		43.6333	-63.3833	117.0
G879	CAMERA		482	68014	MACLEAN,B.		43.5583	-63.5500	197.0
G880	CAMERA		483	68014	MACLEAN,B.		43.5833	-63.5000	172.0
G881	CAMERA		484	68014	MACLEAN,B.		43.8500	-63.6333	256.0
G882	CAMERA		485	68014	MACLEAN,B.		44.0250	-63.5750	188.0
G883	CAMERA		486	68014	MACLEAN,B.		44.3167	-63.4000	80.0
G884	CAMERA		487	68014	MACLEAN,B.		44.3917	-62.9250	161.0
G885	CAMERA		488	68014	MACLEAN,B.		44.3583	-62.7500	153.0
G886	CAMERA		489	68014	MACLEAN,B.		43.9767	-62.7333	247.0
G887	CAMERA		490	68014	MACLEAN,B.		43.8667	-62.4333	172.0
G888	CAMERA		001	68019	VILKS,G.		43.7550	-62.9167	0.0
G889	GRAB		001	68019	VILKS,G.		43.7550	-62.9167	0.0
G890	CAMERA		001	68019	VILKS,G.		43.7550	-62.9167	0.0
G891	GRAB		003	68019	VILKS,G.		43.5883	-62.3333	0.0
G892	CAMERA		003	68019	VILKS,G.		43.5883	-62.3333	0.0
G893	CAMERA		003	68019	VILKS,G.		43.5883	-62.3333	0.0
G894	CAMERA		003A	68019	VILKS,G.		43.5883	-62.3333	0.0
G895	CAMERA		003A	68019	VILKS,G.		43.5883	-62.3333	0.0
G896	CAMERA		004	68019	VILKS,G.		43.6400	-62.4833	0.0
G897	CAMERA		004	68019	VILKS,G.		43.6400	-62.4833	0.0
G898	CAMERA		005	68019	VILKS,G.		43.6717	-62.5633	11.4
G899	CAMERA		005	68019	VILKS,G.		43.6717	-62.5633	11.4
G900	CAMERA		006	68019	VILKS,G.		43.6917	-62.6667	24.6
G901	CAMERA		006	68019	VILKS,G.		43.6917	-62.6667	24.6
G902	CAMERA		007	68019	VILKS,G.		43.7417	-62.7500	33.9

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G903	CAMERA		007	68019	VILKS,G.		43.7417	-62.7500	33.9
G904	GRAB		001	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.8750	-62.0000	0.0
G905	GRAB		001	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.8750	-62.0000	0.0
G906	GRAB		002	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.9583	-61.9000	0.0
G907	GRAB		003	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.8917	-61.8583	0.0
G908	GRAB		004	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.9250	-61.7500	0.0
G909	GRAB		005	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.8917	-61.7167	0.0
G910	GRAB		006	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.8583	-61.6833	0.0
G911	GRAB		007	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.8433	-61.5167	0.0
G912	GRAB		008	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.8717	-61.5333	0.0
G913	GRAB		009	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.8767	-61.5467	0.0
G914	GRAB		010	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.9050	-61.5733	0.0
G915	GRAB		011	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.9417	-61.6050	0.0
G916	GRAB		012	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.9750	-61.6417	0.0
G917	GRAB		013	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	45.0083	-61.5400	0.0
G918	GRAB		014	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.9583	-61.4833	0.0
G919	GRAB		015	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.9333	-61.4550	0.0
G920	GRAB		016	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.9000	-61.4250	128.0
G921	GRAB		017	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.8900	-61.3417	141.0
G922	GRAB		019	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.9000	-61.2833	170.0
G923	GRAB		020	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.9250	-61.3167	161.0
G924	GRAB		021	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.9417	-61.3250	128.0
G925	GRAB		022	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.9583	-61.3500	110.0
G926	GRAB		023	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	45.0083	-61.4000	91.0
G927	GRAB		024	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	45.0533	-61.4383	51.0
G928	GRAB		025	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	45.1083	-61.3500	46.0
G929	GRAB		026	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	45.0800	-61.3117	81.0
G930	GRAB		027	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	45.0433	-61.2833	110.0
G931	GRAB		028	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	45.0283	-61.2583	135.0
G932	GRAB		216	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.4450	-63.0583	0.0
G933	GRAB		217	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.2333	-62.9667	0.0
G934	GRAB		218	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.2600	-62.9767	0.0
G935	GRAB		219	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.3525	-63.0167	0.0
G936	GRAB		220	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.4208	-63.0725	0.0
G937	GRAB		221	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.5883	-61.2667	0.0
G938	GRAB		222	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.6533	-61.3333	0.0
G939	GRAB		223	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.6542	-61.3600	0.0
G940	GRAB		224	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.6333	-61.5000	0.0
G941	GRAB		225	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	44.6542	-61.3600	0.0
G942	GRAB		313	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	43.6000	-62.4667	0.0
G943	GRAB		314	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	43.6417	-62.5667	0.0
G944	GRAB		315	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	43.7000	-62.6500	0.0
G945	GRAB		316	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	43.8000	-62.6917	0.0
G946	GRAB		317	69016	KING,L./KAPUSKASING	VICINITY OF CANSO BANK	43.8583	-62.8083	0.0
G947	GRAB		702306	70016	BUCKLEY,D.		44.2600	-64.3583	8.0
G948	CORE		702306	70016	BUCKLEY,D.		44.2600	-64.3583	8.0
G949	CORE		702306	70016	BUCKLEY,D.		44.2600	-64.3583	8.0
G950	WATER		702306	70016	BUCKLEY,D.		44.2600	-64.3583	8.0
G951	WATER		702306	70016	BUCKLEY,D.		44.2600	-64.3583	8.0
G952	GRAB		702306	70016	BUCKLEY,D.		44.2600	-64.3583	8.0
G953	GRAB		702307	70016	BUCKLEY,D.		44.2500	-64.3083	12.0
G954	WATER		702307	70016	BUCKLEY,D.		44.2500	-64.3083	12.0
G955	GRAB		702307	70016	BUCKLEY,D.		44.2500	-64.3083	12.0
G956	WATER		702307	70016	BUCKLEY,D.		44.2500	-64.3083	12.0
G957	WATER		702308	70016	BUCKLEY,D.		44.2500	-64.3083	12.0
G958	WATER		702308	70016	BUCKLEY,D.		44.2500	-64.3083	12.0
G959	WATER		702309	70016	BUCKLEY,D.		43.0100	-63.8500	242.0
G960	GRAB		702309	70016	BUCKLEY,D.		43.7167	-63.8500	245.0
G961	CORE		702309	70016	BUCKLEY,D.		43.7167	-63.8500	245.0
G962	GRAB		702309	70016	BUCKLEY,D.		43.7167	-63.8500	245.0
G963	WATER		702309	70016	BUCKLEY,D.		43.0100	-63.8500	242.0
G964	WATER		702310	70016	BUCKLEY,D.		43.0100	-63.8500	242.0
G965	WATER		702310	70016	BUCKLEY,D.		43.0100	-63.8500	242.0
G966	DRILL		020		NOT RECORDED		44.9897	-64.1563	8.0
G967	DRILL		027		NOT RECORDED		44.6372	-63.6167	7.0
G968	GRAB		027-001		TAYLOR,R.	EASTERN PASSAGE	44.6075	-63.4983	4.0
G969	GRAB		027-002		TAYLOR,R.	EASTERN PASSAGE	44.6092	-63.5002	6.0
G970	GRAB		027-003		TAYLOR,R.	EASTERN PASSAGE	44.6067	-63.4960	5.0
G971	GRAB		027-004		TAYLOR,R.	EASTERN PASSAGE	44.6058	-63.4962	5.0
G972	GRAB		027-005		TAYLOR,R.	EASTERN PASSAGE	44.6042	-63.4958	2.2
G973	GRAB		027-006		TAYLOR,R.	EASTERN PASSAGE	44.6033	-63.4937	9.0
G974	GRAB		027-007		TAYLOR,R.	EASTERN PASSAGE	44.6025	-63.4925	0.0
G975	GRAB		027-008		TAYLOR,R.	EASTERN PASSAGE	44.6017	-63.4902	0.0
G976	GRAB		027-009		TAYLOR,R.	EASTERN PASSAGE	44.6033	-63.4905	0.0
G977	GRAB		027-010		TAYLOR,R.	EASTERN PASSAGE	44.6042	-63.4907	0.0
G978	GRAB		027-011		TAYLOR,R.	EASTERN PASSAGE	44.6050	-63.4923	0.0
G979	GRAB		027-012		TAYLOR,R.	EASTERN PASSAGE	44.6058	-63.4927	1.5
G980	GRAB		027-013		TAYLOR,R.	EASTERN PASSAGE	44.6058	-63.4935	7.5
G981	GRAB		027-014		TAYLOR,R.	EASTERN PASSAGE	44.6058	-63.4950	5.0
G982	GRAB		027-015		TAYLOR,R.	EASTERN PASSAGE	44.6042	-63.4927	4.0
G983	DRILL		028		NOT RECORDED		44.6028	-63.4978	11.0
G984	DRILL		029		NOT RECORDED		44.6420	-64.0088	6.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G985	GRAB		030-016		TAYLOR,R.	EASTERN PASSAGE	44.6025	-63.4883	4.0
G986	GRAB		030-017		TAYLOR,R.	EASTERN PASSAGE	44.6042	-63.4883	4.0
G987	GRAB		030-018		TAYLOR,R.	EASTERN PASSAGE	44.6050	-63.4872	4.0
G988	GRAB		030-019		TAYLOR,R.	EASTERN PASSAGE	44.6050	-63.4855	0.0
G989	GRAB		030-020		TAYLOR,R.	EASTERN PASSAGE	44.6050	-63.4842	0.0
G990	GRAB		030-021		TAYLOR,R.	EASTERN PASSAGE	44.6033	-63.4852	3.7
G991	GRAB		030-022		TAYLOR,R.	EASTERN PASSAGE	44.6017	-63.4870	4.5
G992	GRAB		030-023		TAYLOR,R.	EASTERN PASSAGE	44.6008	-63.4867	5.0
G993	GRAB		030-024		TAYLOR,R.	EASTERN PASSAGE	44.5925	-63.4865	4.5
G994	GRAB		030-025		TAYLOR,R.	EASTERN PASSAGE	44.5925	-63.4877	1.8
G995	GRAB		030-026		TAYLOR,R.	EASTERN PASSAGE	44.5925	-63.4848	5.5
G996	GRAB		030-027		TAYLOR,R.	EASTERN PASSAGE	44.6017	-63.4838	4.4
G997	GRAB		030-028		TAYLOR,R.	EASTERN PASSAGE	44.6033	-63.4762	0.0
G998	GRAB		030-029		TAYLOR,R.	EASTERN PASSAGE	44.6042	-63.4748	2.4
G999	GRAB		030-030		TAYLOR,R.	EASTERN PASSAGE	44.6058	-63.4900	2.0
G1000	GRAB		030-031		TAYLOR,R.	EASTERN PASSAGE	44.6058	-63.4913	0.0
G1001	GRAB		030-032		TAYLOR,R.	EASTERN PASSAGE	44.6042	-63.4912	7.4
G1002	GRAB		030-32A		TAYLOR,R.	EASTERN PASSAGE	44.6042	-63.4912	0.0
G1003	GRAB		030-32B		TAYLOR,R.	EASTERN PASSAGE	44.6042	-63.4912	7.4
G1004	DRILL		037		NOT RECORDED		44.4833	-64.2980	9.0
G1005	DRILL		038		NOT RECORDED		44.4842	-64.2992	5.0
G1006	DRILL		039		NOT RECORDED		44.4472	-64.3812	15.0
G1007	DRILL		041		NOT RECORDED		44.3478	-64.0645	5.0
G1008	DRILL		042		NOT RECORDED		44.6283	-64.0645	3.0
G1009	GRAB		712307	71034	BUCKLEY,D.		44.2867	-64.3500	14.0
G1010	CORE		712307	71034	BUCKLEY,D.		44.2867	-64.3500	14.0
G1011	WATER		712307	71034	BUCKLEY,D.		44.2867	-64.3500	14.0
G1012	GRAB		712307	71034	BUCKLEY,D.		44.2867	-64.3500	14.0
G1013	IN SITU		712307	71034	BUCKLEY,D.		44.2867	-64.3500	14.0
G1014	GRAB		712308	71034	BUCKLEY,D.		44.2600	-64.3583	7.0
G1015	CORE		712308	71034	BUCKLEY,D.		44.2600	-64.3583	7.0
G1016	IN SITU		712308	71034	BUCKLEY,D.		44.2600	-64.3583	7.0
G1017	GRAB		712308	71034	BUCKLEY,D.		44.2600	-64.3583	7.0
G1018	CORE		712308	71034	BUCKLEY,D.		44.2600	-64.3583	7.0
G1019	WATER		712308	71034	BUCKLEY,D.		44.2600	-64.3583	7.0
G1020	GRAB		712309	71034	BUCKLEY,D.		44.2500	-64.3083	16.0
G1021	GRAB		712309	71034	BUCKLEY,D.		44.2500	-64.3083	16.0
G1022	WATER		712309	71034	BUCKLEY,D.		44.2500	-64.3083	16.0
G1023	WATER		712309	71034	BUCKLEY,D.		44.2500	-64.3083	16.0
G1024	CORE		712309	71034	BUCKLEY,D.		44.2500	-64.3083	16.0
G1025	IN SITU		712309	71034	BUCKLEY,D.		44.2500	-64.3083	16.0
G1026	GRAB		712310	71034	BUCKLEY,D.		44.2300	-64.2933	43.0
G1027	CORE		712310	71034	BUCKLEY,D.		44.2300	-64.2933	43.0
G1028	WATER		712310	71034	BUCKLEY,D.		44.2300	-64.2933	43.0
G1029	GRAB		712310	71034	BUCKLEY,D.		44.2300	-64.2933	43.0
G1030	IN SITU		712310	71034	BUCKLEY,D.		44.2300	-64.2933	43.0
G1031	WATER		712310	71034	BUCKLEY,D.		44.2300	-64.2933	43.0
G1032	WATER		712310	71034	BUCKLEY,D.		44.2300	-64.2933	43.0
G1033	WATER		712318	71034	BUCKLEY,D.		44.2867	-64.3500	13.0
G1034	GRAB		722301	72019	BUCKLEY,D.		43.7083	-63.8717	260.0
G1035	CORE		722301	72019	BUCKLEY,D.		43.7083	-63.8717	260.0
G1036	IN SITU		722301	72019	BUCKLEY,D.		43.7083	-63.8717	260.0
G1037	WATER		722301	72019	BUCKLEY,D.		43.7083	-63.8717	260.0
G1038	GRAB		722301	72019	BUCKLEY,D.		43.7083	-63.8717	260.0
G1039	WATER		722301	72019	BUCKLEY,D.		43.7083	-63.8717	260.0
G1040	GRAB		722302	72019	BUCKLEY,D.		43.9483	-62.9117	252.0
G1041	IN SITU		722302	72019	BUCKLEY,D.		43.9483	-62.9117	252.0
G1042	WATER		722302	72019	BUCKLEY,D.		43.9483	-62.9117	252.0
G1043	CORE		722302	72019	BUCKLEY,D.		43.9483	-62.9117	252.0
G1044	WATER		722302	72019	BUCKLEY,D.		43.9483	-62.9117	252.0
G1045	GRAB		722302	72019	BUCKLEY,D.		43.9483	-62.9117	252.0
G1046	DRILL		N-30	72NR	NOT RECORDED		43.4963	-62.5665	0.0
G1047	CORE		001	73003	FADER,G.		44.5183	-63.9933	86.4
G1048	CORE		003	73003	FADER,G.		44.5400	-64.0000	63.0
G1049	CORE		004	73003	FADER,G.		44.5400	-63.9855	60.0
G1050	CORE		005	73003	FADER,G.		44.5595	-64.0050	65.0
G1051	CORE		006	73003	FADER,G.		44.5750	-64.0192	61.0
G1052	CORE		007	73003	FADER,G.		44.5733	-63.9917	59.0
G1053	GRAB		004	75007	VILKS,G.		43.7850	-63.5983	160.0
G1054	GRAB		005	75007	VILKS,G.		43.6150	-62.4767	66.0
G1055	GRAB		006	75007	VILKS,G.		43.9133	-62.7400	227.0
G1056	GRAB		007	75007	VILKS,G.		43.9067	-62.7150	218.0
G1057	CORE		008	75007	VILKS,G.		43.9567	-62.7533	240.0
G1058	CORE		009	75007	VILKS,G.		43.9550	-62.7550	251.0
G1059	CORE		010	75007	VILKS,G.		43.9550	-62.7550	240.0
G1060	CORE		100	75028	VILKS,G.		44.6873	-63.6345	60.3
G1061	CORE		101	75028	VILKS,G.		44.6783	-63.4500	0.0
G1062	CORE		102	75028	VILKS,G.		44.6865	-63.6258	60.0
G1063	CORE		104	75028	VILKS,G.		44.5600	-64.0000	64.0
G1064	GRAB		105	75028	VILKS,G.		44.5600	-64.0000	64.0
G1065	CORE		106	75028	VILKS,G.		44.5600	-64.0000	0.0
G1066	GRAB		107	75028	VILKS,G.		44.5600	-64.0000	0.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G1067	CORE		108	75028	VILKS,G.		44.5600	-64.0000	58.0
G1068	CORE		109	75028	VILKS,G.		44.5600	-64.0000	60.3
G1069	CORE		110	75028	VILKS,G.		44.5600	-64.0000	60.3
G1070	CORE		111	75028	VILKS,G.		44.4883	-63.9867	52.0
G1071	GRAB		112	75028	VILKS,G.		44.4883	-63.9867	45.0
G1072	GRAB	001	092	75SACKVILLE	KING,L./SACKVILLE	W. OF EMERALD BANK	43.5487	-62.9903	334.5
G1073	GRAB	002	093	75SACKVILLE	KING,L./SACKVILLE	EMERALD BASIN	43.6267	-63.1083	444.8
G1074	GRAB	003	094	75SACKVILLE	KING,L./SACKVILLE	SAMBRO BANK	43.6967	-63.8333	401.4
G1075	GRAB	004	095	75SACKVILLE	KING,L./SACKVILLE	SAMBRO BANK	43.8833	-63.0903	301.0
G1076	GRAB	005	096	75SACKVILLE	KING,L./SACKVILLE	EMERALD BASIN	43.7930	-63.0472	501.7
G1077	GRAB	006	097	75SACKVILLE	KING,L./SACKVILLE	EMERALD BASIN	43.7167	-63.0903	451.5
G1078	GRAB	007	098	75SACKVILLE	KING,L./SACKVILLE	EMERALD BASIN	43.6680	-62.8708	401.4
G1079	GRAB	008	099	75SACKVILLE	KING,L./SACKVILLE	E. OF EMERALD BASIN	43.6138	-62.8083	274.3
G1080	GRAB	009	100	75SACKVILLE	KING,L./SACKVILLE	E. OF EMERALD BASIN	43.7445	-62.7667	361.2
G1081	GRAB	010	101	75SACKVILLE	KING,L./SACKVILLE	EMERALD BASIN	43.8028	-62.8487	836.1
G1082	GRAB	011	102	75SACKVILLE	KING,L./SACKVILLE	EMERALD BASIN	43.8680	-62.9138	468.2
G1083	GRAB	012	103	75SACKVILLE	KING,L./SACKVILLE	EMERALD BASIN	43.9667	-63.0417	401.4
G1084	GRAB	013	104	75SACKVILLE	KING,L./SACKVILLE	SAMBRO MORAINE	44.0458	-63.1528	458.2
G1085	CORE		001	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4358	-64.2183	31.0
G1086	CORE		002	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4302	-64.2447	31.0
G1087	CORE		002	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4302	-64.2447	31.0
G1088	CORE		003	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4258	-64.2433	40.0
G1089	CORE		004	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4480	-64.2020	55.0
G1090	CORE		004	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4480	-64.2020	55.0
G1091	CORE		005	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4862	-64.2127	43.0
G1092	CORE		005	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4862	-64.2127	43.0
G1093	CORE		006	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.5592	-64.1817	60.0
G1094	CORE		007	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4295	-64.2435	32.0
G1095	CORE		007	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4295	-64.2435	32.0
G1096	CORE		008	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4733	-64.2225	40.0
G1097	CORE		008	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4733	-64.2225	40.0
G1098	CORE		009	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4645	-64.2305	34.0
G1099	CORE		010	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4397	-64.2043	43.0
G1100	CORE		011	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4397	-64.2043	43.0
G1101	CORE		012	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4338	-64.1995	39.0
G1102	CORE		013	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4297	-64.1985	34.0
G1103	CORE		014	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4250	-64.1948	28.0
G1104	CORE		016	76004	DALHOUSIE UNIVERSITY	MAHONE BAY	44.4142	-64.1833	25.0
G1105	DRILL		022	76016	KING,L.		44.0183	-64.3035	84.0
G1106	DRILL		I-29	76NR	NOT RECORDED		43.6432	-62.8023	0.0
G1107	CORE	001	001	77002	D. BIDGOOD/D. PIPER/DAWSON	SOUTHERN ST. MARGARETS BAY	44.5350	-63.9800	0.0
G1108	CORE	002	002	77002	D. BIDGOOD/D. PIPER/DAWSON	MOUTH OF ST. MARGARETS BAY	44.5417	-63.9800	0.0
G1109	CORE	003	003	77002	D. BIDGOOD/D. PIPER/DAWSON	SOUTHERN ST. MARGARETS BAY	44.5372	-63.9833	0.0
G1110	CORE	004	004	77002	D. BIDGOOD/D. PIPER/DAWSON	SOUTHERN ST. MARGARETS BAY	44.5383	-63.9850	0.0
G1111	CORE	005	005	77002	D. BIDGOOD/D. PIPER/DAWSON	SOUTHERN ST. MARGARETS BAY	44.5367	-63.9825	0.0
G1112	CORE	006	006	77002	D. BIDGOOD/D. PIPER/DAWSON	SOUTHERN ST. MARGARETS BAY	44.5342	-63.9800	0.0
G1113	CORE	007	007	77002	D. BIDGOOD/D. PIPER/DAWSON	SOUTHERN ST. MARGARETS BAY	44.5380	-63.9850	60.4
G1114	CORE	007	007	77002	D. BIDGOOD/D. PIPER/DAWSON	SOUTHERN ST. MARGARETS BAY	44.5380	-63.9850	60.4
G1115	CORE	008	008	77002	D. BIDGOOD/D. PIPER/DAWSON	SOUTHERN ST. MARGARETS BAY	44.5325	-63.9908	62.2
G1116	CORE	008	008	77002	D. BIDGOOD/D. PIPER/DAWSON	SOUTHERN ST. MARGARETS BAY	44.5325	-63.9908	62.2
G1117	CORE	010	010	77002	D. BIDGOOD/D. PIPER/DAWSON	SOUTHERN ST. MARGARETS BAY	44.5463	-64.0000	62.2
G1118	CORE	010	010	77002	D. BIDGOOD/D. PIPER/DAWSON	SOUTHERN ST. MARGARETS BAY	44.5463	-64.0000	62.2
G1119	CORE	011	011	77002	D. BIDGOOD/D. PIPER/DAWSON	NORTHERN ST. MARGARETS BAY	44.5980	-64.0067	0.0
G1120	CORE	011	011	77002	D. BIDGOOD/D. PIPER/DAWSON	NORTHERN ST. MARGARETS BAY	44.5980	-64.0067	0.0
G1121	CORE	012	012	77002	D. BIDGOOD/D. PIPER/DAWSON	NORTHERN ST. MARGARETS BAY	44.5958	-63.9942	51.2
G1122	CORE	012	012	77002	D. BIDGOOD/D. PIPER/DAWSON	NORTHERN ST. MARGARETS BAY	44.5958	-63.9942	51.2
G1123	CORE	013	013	77002	D. BIDGOOD/D. PIPER/DAWSON	OUTER LAHAVE ESTUARY	44.2317	-64.3050	18.3
G1124	CORE	014	014	77002	D. BIDGOOD/D. PIPER/DAWSON	OUTER LAHAVE ESTUARY	44.2063	-64.3030	34.7
G1125	CORE	015	015	77002	D. BIDGOOD/D. PIPER/DAWSON	S. OF CROSS ISLAND	44.2675	-64.1425	65.8
G1126	CORE	016	016	77002	D. BIDGOOD/D. PIPER/DAWSON	OUTER MAHONE BAY	44.4267	-64.1718	36.6
G1127	CORE	017	017	77002	D. BIDGOOD/D. PIPER/DAWSON	OUTER MAHONE BAY	44.4292	-64.1600	25.6
G1128	CORE	018	018	77002	D. BIDGOOD/D. PIPER/DAWSON	MAHONE B., SW OF RAFUSE IS	44.4343	-64.2517	25.6
G1129	CORE	019	019	77002	D. BIDGOOD/D. PIPER/DAWSON	INNER MAHONE BAY	44.4660	-64.2608	25.6
G1130	CORE	020	020	77002	D. BIDGOOD/D. PIPER/DAWSON	EMERALD BASIN	43.8933	-62.8850	259.7
G1131	CORE	020	020	77002	D. BIDGOOD/D. PIPER/DAWSON	EMERALD BASIN	43.8933	-62.8850	259.7
G1132	CORE		001	77021	FILLON,R.		44.7067	-63.6583	0.0
G1133	CORE		021	78005	WANG,Y./TAYLOR,B.		44.6062	-63.9900	52.0
G1134	CORE	109	114	78005	D. BIDGOOD/D. PIPER/DAWSON		44.0300	-64.1917	62.5
G1135	GRAB		001	78026	ATLANTIC OCEANOGRAPHIC LAB		44.9567	-61.2997	0.0
G1136	GRAB		001	78QUEST	JOSENHANS,H.		43.7550	-62.9167	0.0
G1137	CAMERA		001	78QUEST	JOSENHANS,H.		43.7550	-62.9167	0.0
G1138	CAMERA		003	78QUEST	JOSENHANS,H.		43.5883	-62.3333	0.0
G1139	CAMERA		003A	78QUEST	JOSENHANS,H.		43.5883	-62.3333	0.0
G1140	CAMERA		004	78QUEST	JOSENHANS,H.		43.6400	-62.4833	0.0
G1141	CAMERA		005	78QUEST	JOSENHANS,H.		43.6717	-62.5633	0.0
G1142	CAMERA		006	78QUEST	JOSENHANS,H.		43.7917	-62.6667	0.0
G1143	CORE		001	79011	VILKS,G.		44.5500	-61.4200	142.0
G1144	CAMERA		001	79011	VILKS,G.		44.5500	-61.4200	142.0
G1145	CORE		001	79011	VILKS,G.		44.5500	-61.4200	142.0
G1146	GRAB		001	79011	VILKS,G.		44.5500	-61.4200	142.0
G1147	GRAB		002	79011	VILKS,G.		44.6983	-61.4167	135.0
G1148	CORE		002	79011	VILKS,G.		44.7350	-61.4083	124.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G1149	CAMERA		002	79011	VILKS,G.		44.6983	-61.4167	135.0
G1150	CORE		002	79011	VILKS,G.		44.6983	-61.4167	135.0
G1151	GRAB		003	79011	VILKS,G.		44.7350	-61.4083	124.0
G1152	CORE		003	79011	VILKS,G.		44.7500	-61.4033	124.0
G1153	CAMERA		004	79011	VILKS,G.		44.7350	-61.4083	124.0
G1154	CORE		004	79011	VILKS,G.		44.7683	-61.4217	117.0
G1155	CORE		005	79011	VILKS,G.		44.7617	-61.2500	91.0
G1156	GRAB		005	79011	VILKS,G.		44.7708	-61.4233	117.0
G1157	CAMERA		005A	79011	VILKS,G.		44.7700	-61.4167	117.0
G1158	CAMERA		005B	79011	VILKS,G.		44.7750	-61.4217	117.0
G1159	CAMERA		006	79011	VILKS,G.		44.7617	-61.2500	91.0
G1160	GRAB		006	79011	VILKS,G.		44.7617	-61.2500	91.0
G1161	CORE		008	79011	VILKS,G.		44.7233	-61.3000	111.0
G1162	CAMERA		009	79011	VILKS,G.		44.7292	-61.2983	111.0
G1163	CORE		009	79011	VILKS,G.		44.7317	-61.2958	111.0
G1164	CORE		010	79011	VILKS,G.		44.7000	-61.7750	133.0
G1165	CORE	011	011	79011	VILKS,G./HUDSON		44.6547	-61.7810	150.0
G1166	CAMERA	011	011	79011	VILKS,G./HUDSON		44.6547	-61.7810	150.0
G1167	CORE		012	79011	VILKS,G.		43.7967	-62.6050	0.0
G1168	CORE	002	022	79011	KING,L./HUDSON	SCOTIAN SHELF	44.6983	-61.4167	142.0
G1169	CORE	002	022	79011	KING,L./HUDSON	SCTOIAN SHELF	44.7350	-61.4083	124.4
G1170	CORE	003	025	79011	KING,L./HUDSON	SCOTIAN SHELF	44.7683	-61.4217	117.0
G1171	CORE	001	001	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.7917	-62.7517	214.0
G1172	CORE	001	001	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.7917	-62.7517	214.0
G1173	CORE	001	001	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.7917	-62.7517	214.0
G1174	CORE	001	001	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.7917	-62.7517	214.0
G1175	CORE	002	002	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.7917	-62.7517	214.0
G1176	CORE	003	003	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.7917	-63.7800	220.0
G1177	CORE	003	003	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.7917	-63.7800	220.0
G1178	CORE	004	004	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.4133	-63.3333	206.0
G1179	CORE	005	005	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.4000	-63.3333	203.0
G1180	CORE	006	006	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.3833	-63.3333	197.0
G1181	CORE	007	007	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.3667	-63.3333	190.0
G1182	CORE	008	008	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.3750	-63.3333	195.0
G1183	CORE	009	009	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.3750	-63.3333	195.0
G1184	CORE	010	010	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.3750	-63.3333	195.0
G1185	CORE	011	011	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.3750	-63.3333	195.0
G1186	CORE	012	012	80004	BIDGOOD,D./DAWSON	SCOTIAN SHELF	43.3750	-63.3333	195.0
G1187	CORE	001	001	80016	WANG,Y./TAYLOR,B.	WHITE PT, SOLOMON R.COVE	44.6995	-63.6108	0.0
G1188	CORE	PC28	042	80030	KEEN,M.		44.4212	-63.5200	104.0
G1189	CORE	TW28	042	80030	KEEN,M.		44.4212	-63.5200	104.0
G1190	CORE		001	81006	BIDGOOD,D.		44.6987	-63.6447	70.0
G1191	GRAB		001	81006	BIDGOOD,D.		44.6987	-63.6447	70.0
G1192	GRAB		002	81006	BIDGOOD,D.		44.1667	-63.5000	155.0
G1193	GRAB		003	81006	BIDGOOD,D.		44.0777	-63.5087	156.0
G1194	GRAB		004	81006	BIDGOOD,D.		43.9167	-63.5000	235.0
G1195	GRAB		005	81006	BIDGOOD,D.		43.7500	-63.5000	175.0
G1196	GRAB		006	81006	BIDGOOD,D.		43.5017	-63.5033	163.0
G1197	GRAB		007	81006	BIDGOOD,D.		43.3420	-63.4995	167.0
G1198	GRAB		053	81006	BIDGOOD,D.		44.3567	-62.8583	165.0
G1199	GRAB		055	81006	BIDGOOD,D.		44.4083	-62.8667	100.0
G1200	GRAB		056	81006	BIDGOOD,D.		44.4750	-62.8667	115.0
G1201	GRAB		057	81006	BIDGOOD,D.		44.5250	-62.8667	88.0
G1202	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1203	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1204	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1205	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1206	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1207	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1208	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1209	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1210	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1211	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1212	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1213	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1214	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1215	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1216	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1217	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1218	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1219	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1220	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1221	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1222	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1223	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1224	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1225	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1226	CORE		BH2	81006	BLASCO,S.		44.1667	-63.5000	155.0
G1227	GRAB		KOP1A	81006	BLASCO,S.		44.6987	-63.6447	0.0
G1228	GRAB		KOP4B	81006	BLASCO,S.		43.9167	-63.5000	0.0
G1229	GRAB		KOP5B	81006	BLASCO,S.		43.7500	-63.5000	0.0
G1230	GRAB		KOP6A	81006	BLASCO,S.		43.5017	-63.5033	0.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G1231	GRAB		KOP7B	81006	BLASCO,S.		43.3420	-63.4995	0.0
G1232	CORE		001	82003	DALHOUSIE UNIVERSITY		44.6913	-63.6393	0.0
G1233	CORE		002	82003	DALHOUSIE UNIVERSITY		44.5833	-61.4227	0.0
G1234	CORE		002	82003	DALHOUSIE UNIVERSITY		44.5833	-61.4227	0.0
G1235	CORE		003	82003	DALHOUSIE UNIVERSITY		44.5897	-61.4217	0.0
G1236	CORE		003	82003	DALHOUSIE UNIVERSITY		44.5897	-61.4217	0.0
G1237	CORE		004	82003	DALHOUSIE UNIVERSITY		44.6413	-61.4187	0.0
G1238	CORE		004	82003	DALHOUSIE UNIVERSITY		44.6413	-61.4187	0.0
G1239	CORE		005	82003	DALHOUSIE UNIVERSITY		44.6550	-61.4218	0.0
G1240	CORE		005	82003	DALHOUSIE UNIVERSITY		44.6550	-61.4218	0.0
G1241	CORE		006	82003	DALHOUSIE UNIVERSITY		44.6687	-61.4373	0.0
G1242	CORE		007	82003	DALHOUSIE UNIVERSITY		44.6873	-61.4177	0.0
G1243	CORE		001	83012	PIPER,D./DAWSON	SCOTIA SLOPE	44.0550	-62.8467	448.0
G1244	CORE		001	83012	PIPER,D./DAWSON	SCOTIA SLOPE	44.0550	-62.8467	448.0
G1245	GRAB		015	83012	PIPER,D./DAWSON	SCOTIA SLOPE	44.2543	-64.1687	888.8
G1246	GRAB		016	83012	PIPER,D./DAWSON	SCOTIA SLOPE	44.2545	-64.1700	51.0
G1247	GRAB		017	83012	PIPER,D./DAWSON	SCOTIA SLOPE	44.2545	-64.1650	53.0
G1248	GRAB		018	83012	PIPER,D./DAWSON	SCOTIA SLOPE	44.3095	-64.0050	70.0
G1249	GRAB		001	83019	FADER,G./HUDSON	SABLE ISLAND BANK	43.6177	-62.5460	80.0
G1250	CAMERA		001	83019	FADER,G./HUDSON	SABLE ISLAND BANK	43.6177	-62.5460	80.0
G1251	GRAB		002	83019	FADER,G./HUDSON	SABLE ISLAND BANK	43.5920	-62.4738	80.0
G1252	CAMERA		002	83019	FADER,G./HUDSON	SABLE ISLAND BANK	43.5920	-62.4738	80.0
G1253	GRAB		005	83019	FADER,G./HUDSON	SABLE ISLAND BANK	43.7390	-63.2730	109.7
G1254	CAMERA		005	83019	FADER,G./HUDSON	SABLE ISLAND BANK	43.7390	-63.2730	109.7
G1255	CORE		041	85017	SMITH,J./DAWSON	SCOTIAN SHELF	44.0033	-62.8150	0.0
G1256	GRAB	8505001	1604	85050A	FORBES,D./PANDORA	OFF COLE HRB. & OSBORNE HD	44.5815	-63.3800	32.0
G1257	GRAB	8505004	1604	85050A	FORBES,D./PANDORA	OFF COLE HRB. & OSBORNE HD	44.5867	-63.3818	30.5
G1258	GRAB	8505005	1604	85050A	FORBES,D./PANDORA	OFF COLE HRB. & OSBORNE HD	44.6020	-63.3845	25.5
G1259	GRAB	8505003	1604	85050A	FORBES,D./PANDORA	OFF COLE HRB. & OSBORNE HD	44.5867	-63.3818	30.5
G1260	GRAB	8505002	1604	85050A	FORBES,D./PANDORA	OFF COLE HRB. & OSBORNE HD	44.5815	-63.3800	32.0
G1261	CORE	021	021	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	44.0188	-62.6502	177.0
G1262	CORE	021	021	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	44.0188	-62.6502	177.0
G1263	CORE	022	022	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	44.0087	-62.5940	179.0
G1264	CORE	022	022	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	44.0087	-62.5940	179.0
G1265	CORE	023	023	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.9548	-62.6087	175.0
G1266	CORE	023	023	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.9548	-62.6087	175.0
G1267	CORE	024	024	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8713	-62.7157	204.0
G1268	CORE	024	024	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8713	-62.7157	204.0
G1269	CORE	025	025	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.6967	-62.7942	208.0
G1270	CORE	025	025	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.6967	-62.7942	208.0
G1271	CORE	026	026	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8862	-62.8473	256.0
G1272	CORE	026	026	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8862	-62.8473	256.0
G1273	CORE	027	027	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8870	-62.8477	254.0
G1274	CORE	027	027	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8870	-62.8477	254.0
G1275	CORE	028	028	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8870	-62.8462	255.0
G1276	CORE	028	028	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8870	-62.8462	255.0
G1277	CORE	029	029	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8822	-62.7828	233.0
G1278	CORE	029	029	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8822	-62.7828	233.0
G1279	CORE	030	030	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8817	-62.7832	233.0
G1280	CORE	030	030	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8817	-62.7832	233.0
G1281	CORE	031	031	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8695	-62.7127	207.0
G1282	CORE	031	031	86034	D.PIPER/CSS HUDSON	EMERALD BASIN	43.8695	-62.7127	207.0
G1283	CORE	032	032	86034	D.PIPER/CSS HUDSON	EMERALD BASIN,BIG POCK MK	43.8693	-62.7182	210.0
G1284	CORE	032	032	86034	D.PIPER/CSS HUDSON	EMERALD BASIN,BIG POCK MK	43.8693	-62.7182	210.0
G1285	GRAB	8606001	000	86300	FORBES,D.L./M.V. SAINT-M	OFF MARTINIQUE BEACH	44.6333	-63.1250	30.0
G1286	GRAB	8606002	006	86300	FORBES,D.L./M.V. SAINT-M	OFF MARTINIQUE BEACH	44.6333	-63.1250	30.0
G1287	GRAB	8606003	015	86300	FORBES,D.L./M.V. SAINT-M	OFF MARTINIQUE BEACH	44.6333	-63.1250	30.0
G1288	GRAB	8606004	8606004	86300	FORBES,D.L./M.V. SAINT-M	OFF MARTINIQUE BEACH	44.6433	-63.1233	30.0
G1289	CORE	001	001	87003	K.MANCHESTER/CSS HUDSON	BEDFORD BASIN	44.6945	-63.6483	62.0
G1290	CORE	001	001	87003	K.MANCHESTER/CSS HUDSON	BEDFORD BASIN	44.6945	-63.6483	62.0
G1291	CORE	002	002	87003	K.MANCHESTER/CSS HUDSON	EMERALD BASIN	44.0155	-63.0340	215.0
G1292	CORE	002	002	87003	K.MANCHESTER/CSS HUDSON	EMERALD BASIN	44.0155	-63.0340	215.0
G1293	CORE	003	003	87003	K.MANCHESTER/CSS HUDSON	EMERALD BASIN	43.8817	-62.7828	232.0
G1294	CORE	003	003	87003	K.MANCHESTER/CSS HUDSON	EMERALD BASIN	43.8817	-62.7828	232.0
G1295	CORE	004	004	87003	K.MANCHESTER/CSS HUDSON	EMERALD BASIN	43.8850	-62.7950	235.0
G1296	CORE	004	004	87003	K.MANCHESTER/CSS HUDSON	EMERALD BASIN	43.8850	-62.7950	235.0
G1297	CORE	005	005	87003	K.MANCHESTER/CSS HUDSON	EMERALD BASIN	43.5700	-62.9417	247.0
G1298	FAIL	005	005	87003	K.MANCHESTER/CSS HUDSON	EMERALD BASIN	43.5700	-62.9417	247.0
G1299	CORE	006	006	87003	K.MANCHESTER/CSS HUDSON	EMERALD BASIN	43.6260	-63.0832	247.0
G1300	CORE	006	006	87003	K.MANCHESTER/CSS HUDSON	EMERALD BASIN	43.6260	-63.0832	247.0
G1301	CORE	001	001	87008	D.PIPER/CSS HUDSON	BEDFORD BASIN	44.6932	-63.6487	63.0
G1302	CORE	001	001	87008	D.PIPER/CSS HUDSON	BEDFORD BASIN	44.6932	-63.6487	63.0
G1303	CORE	001	001	87042	D.FORBES/CSS DAWSON	OFF COLE HARBOUR	44.6122	-63.3842	12.5
G1304	CAMERA	002	002	87042	D.FORBES/CSS DAWSON	OFF COLE HARBOUR	44.6122	-63.3842	12.5
G1305	CAMERA	002A	002A	87042	D.FORBES/CSS DAWSON	OFF COLE HARBOUR	44.6122	-63.3842	12.5
G1306	GRAB	003	003	87042	D.FORBES/CSS DAWSON	OFF COLE HARBOUR	44.6122	-63.3842	12.5
G1307	CAMERA	004	004	87042	D.FORBES/CSS DAWSON	OFF COLE HARBOUR	44.6122	-63.3842	12.5
G1308	GRAB	005	005	87042	D.FORBES/CSS DAWSON	OFF COLE HARBOUR	44.6175	-63.3880	16.6
G1309	CORE	006	006	87042	D.FORBES/CSS DAWSON	COLE HARBOUR	44.6175	-63.3880	16.6
G1310	CAMERA	007	007	87042	D.FORBES/CSS DAWSON	OFF COLE HARBOUR	44.6175	-63.3880	16.6
G1311	GRAB	008	008	87042	D.FORBES/CSS DAWSON	COLE HARBOUR	44.6032	-63.3850	26.0
G1312	CAMERA	009	009	87042	D.FORBES/CSS DAWSON	OFF COLE HARBOUR	44.6032	-63.3850	25.8

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G1313	CORE	010	010	87042	D.FORBES/CSS DAWSON	COLE HARBOUR	44.6032	-63.3850	27.8
G1314	FAIL	011	011	87042	D.FORBES/CSS DAWSON	COLE HARBOUR	44.6030	-63.3835	22.0
G1315	FAIL	012	012	87042	D.FORBES/CSS DAWSON	COLE HARBOUR	44.6030	-63.3835	22.0
G1316	CAMERA	013	013	87042	D.FORBES/CSS DAWSON	OFF COLE HARBOUR	44.6030	-63.3835	22.0
G1317	GRAB	014	014	87042	D.FORBES/CSS DAWSON	POINT O, MARTINIQUE BEACH	44.6378	-63.1137	26.0
G1318	FAIL	016	016	87042	D.FORBES/CSS DAWSON	POINT AQ, INNER SHELF	44.5442	-63.0557	53.0
G1319	FAIL	017	017	87042	D.FORBES/CSS DAWSON	POINT AQ, INNER SHELF	44.5427	-63.0520	59.0
G1320	GRAB	018	018	87042	D.FORBES/CSS DAWSON		44.5098	-63.0452	92.0
G1321	GRAB	019	019	87042	D.FORBES/CSS DAWSON		44.5150	-63.0255	76.0
G1322	GRAB	020	020	87042	D.FORBES/CSS DAWSON		44.5057	-63.0240	74.0
G1323	FAIL	021	021	87042	D.FORBES/CSS DAWSON		44.5553	-63.0112	64.0
G1324	FAIL	022	022	87042	D.FORBES/CSS DAWSON		44.5563	-63.0093	64.0
G1325	GRAB	023	023	87042	D.FORBES/CSS DAWSON	OFF PETPESWICK	44.6658	-63.1802	17.0
G1326	CAMERA	024	024	87042	D.FORBES/CSS DAWSON	OFF PETPESWICK	44.6670	-63.1793	16.8
G1327	GRAB	025	025	87042	D.FORBES/CSS DAWSON	OFF PETPESWICK	44.6670	-63.1793	16.8
G1328	CORE	026	026	87042	D.FORBES/CSS DAWSON	OFF PETPESWICK	44.6678	-63.1803	16.8
G1329	GRAB	027	027	87042	D.FORBES/CSS DAWSON	OFF PETPESWICK	44.6652	-63.1778	19.5
G1330	CORE	028	028	87042	D.FORBES/CSS DAWSON	OFF PETPESWICK	44.6653	-63.1775	19.0
G1331	GRAB	029	029	87042	D.FORBES/CSS DAWSON	OFF PETPESWICK	44.6662	-63.1802	18.0
G1332	CORE	030	030	87042	D.FORBES/CSS DAWSON	OFF PETPESWICK	44.6662	-63.1803	18.0
G1333	GRAB	031	031	87042	D.FORBES/CSS DAWSON	OFF MARTINIQUE BEACH	44.6430	-63.1208	30.0
G1334	CAMERA	032	032	87042	D.FORBES/CSS DAWSON	OFF MARTINIQUE BEACH	44.6430	-63.1208	30.0
G1335	CORE	033	033	87042	D.FORBES/CSS DAWSON	OFF MARTINIQUE BEACH	44.6430	-63.1208	30.0
G1336	GRAB	034	034	87042	D.FORBES/CSS DAWSON	OFF HALIFAX HARBOUR	44.4720	-63.4620	51.0
G1337	GRAB	035	035	87042	D.FORBES/CSS DAWSON	OFF HALIFAX HARBOUR	44.4705	-63.4637	55.0
G1338	GRAB	036	036	87042	D.FORBES/CSS DAWSON	OFF HALIFAX HARBOUR	44.4705	-63.4633	55.0
G1339	GRAB	037	037	87042	D.FORBES/CSS DAWSON	OFF HALIFAX HARBOUR	44.4972	-63.4405	53.0
G1340	GRAB	038	038	87042	D.FORBES/CSS DAWSON	OFF CLAM BAY	44.6498	-62.9503	39.5
G1341	CORE	039	039	87042	D.FORBES/CSS DAWSON	OFF CLAM BAY	44.6498	-62.9505	39.5
G1342	GRAB	040	040	87042	D.FORBES/CSS DAWSON	OFF MARTINIQUE BEACH	44.6365	-63.1220	28.0
G1343	GRAB	041	041	87042	D.FORBES/CSS DAWSON	OFF THREE FATHOM HARBOUR	44.5572	-63.2945	49.0
G1344	GRAB	042	042	87042	D.FORBES/CSS DAWSON	OFF THREE FATHOM HARBOUR	44.5572	-63.2947	49.0
G1345	FAIL	043	043	87042	D.FORBES/CSS DAWSON	OFF LAWRENCETOWN	44.5927	-63.3383	27.8
G1346	GRAB	044	044	87042	D.FORBES/CSS DAWSON	OFF LAWRENCETOWN BEACH	44.5993	-63.3397	27.0
G1347	CORE	045	045	87042	D.FORBES/CSS DAWSON	OFF LAWRENCETOWN BEACH	44.5993	-63.3388	23.0
G1348	CORE	050	050	87042	D.FORBES/CSS DAWSON	OFF JEDDORE HEAD	44.3817	-63.0723	140.0
G1349	CORE	35372	051	87045	J.SMITH/CSS DAWSON	GULF OF ST.LAWRENCE	43.9167	-62.8833	265.0
G1350	CORE	35371	051	87045	J.SMITH/CSS DAWSON	GULF OF ST.LAWRENCE	44.3000	-61.7000	265.0
G1351	CORE	08704-004	08704-004	87STORY HEA	J.SHAW	ESTUARY, STORY HD BARRIER	44.6750	-63.2083	0.0
G1352	CORE	001	001	88010	K.MORAN/D.PIPER/CSS HUDSON	BEDFORD BASIN	44.6967	-63.6483	62.0
G1353	CORE	001	001	88010	K.MORAN/D.PIPER/CSS HUDSON	BEDFORD BASIN	44.6967	-63.6483	62.0
G1354	CORE	002	002	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.6900	-62.7853	201.0
G1355	CORE	002	002	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.6900	-62.7853	201.0
G1356	CORE	003	003	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.6902	-62.7843	201.0
G1357	CORE	003A	003A	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.6902	-62.7843	201.0
G1358	CORE	003B	003B	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.6902	-62.7843	201.0
G1359	CORE	003C	003C	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.6902	-62.7843	201.0
G1360	CORE	004	004	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.8815	-62.7982	239.6
G1361	CORE	004A	004A	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.8815	-62.7982	239.6
G1362	CORE	004F	004F	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.8815	-62.7982	239.6
G1363	CORE	004H	004H	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.8815	-62.7982	239.6
G1364	CORE	005	005	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.8840	-62.7990	239.6
G1365	CORE	005	005	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.8840	-62.7990	239.6
G1366	CORE	006	006	88010	K.MORAN/D.PIPER/CSS HUDSON	LA HAVE BASIN	43.7243	-63.5975	217.0
G1367	CORE	006	006	88010	K.MORAN/D.PIPER/CSS HUDSON	LA HAVE BASIN	43.7243	-63.5975	217.0
G1368	CORE	007	007	88010	K.MORAN/D.PIPER/CSS HUDSON	LA HAVE BASIN	43.5987	-63.5888	203.0
G1369	CORE	007	007	88010	K.MORAN/D.PIPER/CSS HUDSON	LA HAVE BASIN	43.5987	-63.5888	203.0
G1370	CORE	008	008	88010	K.MORAN/D.PIPER/CSS HUDSON	LA HAVE BASIN	43.5993	-63.5882	203.0
G1371	CORE	008	008	88010	K.MORAN/D.PIPER/CSS HUDSON	LA HAVE BASIN	43.5993	-63.5882	203.0
G1372	CORE	009	009	88010	K.MORAN/D.PIPER/CSS HUDSON	LA HAVE BASIN	43.5927	-63.5738	201.0
G1373	CORE	009	009	88010	K.MORAN/D.PIPER/CSS HUDSON	LA HAVE BASIN	43.5927	-63.5738	201.0
G1374	CAMERA	101	101	88010	K.MORAN/D.PIPER/CSS HUDSON	EMERALD BASIN	43.8895	-62.7947	239.6
G1375	GRAB	001	001	88018 PH.1	B.MILLER/MV NAVICULA	OFF SAMBRO	44.3433	-63.6073	103.0
G1376	GRAB	002	002	88018 PH.1	B.MILLER/MV NAVICULA	OFF SAMBRO	44.3800	-63.6363	86.0
G1377	GRAB	003	003	88018 PH.1	B.MILLER/MV NAVICULA	OFF SAMBRO	44.3970	-63.6797	70.0
G1378	GRAB	004	004	88018 PH.1	B.MILLER/MV NAVICULA	OFF SAMBRO	44.4230	-63.6692	52.0
G1379	GRAB	005	005	88018 PH.1	B.MILLER/MV NAVICULA	OFF SAMBRO	44.4262	-63.6733	52.0
G1380	GRAB	006	006	88018 PH.1	B.MILLER/MV NAVICULA	OFF SAMBRO	44.4303	-63.6763	47.0
G1381	GRAB	007	007	88018 PH.1	B.MILLER/MV NAVICULA	OFF SAMBRO	44.4347	-63.6797	44.0
G1382	GRAB	008	008	88018 PH.1	B.MILLER/MV NAVICULA	OFF SAMBRO	44.4450	-63.6765	42.0
G1383	GRAB	009	009	88018 PH.1	B.MILLER/MV NAVICULA	OFF SAMBRO	44.4510	-63.6833	41.0
G1384	GRAB	010	010	88018 PH.1	B.MILLER/MV NAVICULA	OFF SAMBRO	44.4665	-63.7052	25.0
G1385	GRAB	001	001	88018 PH.14	D.FORBES/ MV NAVICULA	POPE'S HBR DYKE AREA	44.7107	-62.6443	48.0
G1386	GRAB	002	002	88018 PH.14	D.FORBES/ MV NAVICULA	POPE'S HBR DYKE AREA	44.7088	-62.6493	47.0
G1387	GRAB	003	003	88018 PH.14	D.FORBES/ MV NAVICULA	POPE'S HBR DYKE AREA	44.6810	-62.5868	72.0
G1388	GRAB	004	004	88018 PH.14	D.FORBES/ MV NAVICULA	POPE'S HBR DYKE AREA	44.7312	-62.5542	52.0
G1389	GRAB	005	005	88018 PH.14	D.FORBES/ MV NAVICULA	POPE'S HBR DYKE AREA	44.7467	-62.5748	44.0
G1390	GRAB	006	006	88018 PH.14	D.FORBES/ MV NAVICULA	POPE'S HBR DYKE AREA	44.7595	-62.6000	36.0
G1391	CORE	007	007	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.9095	-62.5073	12.2
G1392	CORE	008	008	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.8698	-62.4903	16.0
G1393	CORE	009	009	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.8485	-62.5067	16.6
G1394	GRAB	010	010	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.8360	-62.5275	17.9

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G1395	GRAB	011	011	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.8433	-62.5168	15.0
G1396	GRAB	012	012	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.8462	-62.4995	17.0
G1397	GRAB	013	013	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.8522	-62.4955	17.5
G1398	GRAB	014	014	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.8547	-62.4988	17.0
G1399	GRAB	015	015	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.8577	-62.5020	16.5
G1400	GRAB	016	016	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.8757	-62.4915	15.5
G1401	GRAB	017	017	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.8767	-62.4873	19.0
G1402	GRAB	018	018	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.8765	-62.4827	12.0
G1403	GRAB	019	019	88018 PH.14	D.FORBES/ MV NAVICULA	SHEET HARBOUR	44.8933	-62.4862	16.8
G1404	CORE	014	014	88038	C.PEIRERA/MUN/CSS DAWSON	EMERALD BASIN	43.8855	-62.7987	242.0
G1405	TEST	014	014	88038	C.PEIRERA/MUN/CSS DAWSON	EMERALD BASIN	43.8855	-62.7987	242.0
G1406	WATER	015	015	88038	C.PEIRERA/MUN/CSS DAWSON	EMERALD BASIN	43.8882	-62.8037	242.0
G1407	WATER	016	016	88038	C.PEIRERA/MUN/CSS DAWSON	EMERALD BASIN	43.8855	-62.7945	242.0
G1408	GRAB	017	017	88038	C.PEIRERA/MUN/CSS DAWSON	EMERALD BASIN	44.2858	-63.3567	125.0
G1409	CORE	001	001	88301	J.SHAW/D.FORBES	GAETZ HEAD BARRIER	44.6733	-63.2512	1.0
G1410	FAIL	002	002	88301	J.SHAW/D.FORBES	GAETZ HEAD BARRIER	44.6717	-63.2530	0.0
G1411	LAND	002	002	88301	J.SHAW/D.FORBES	GAETZ HEAD BARRIER	44.6717	-63.2530	0.0
G1412	CORE	003	003	88301	J.SHAW/D.FORBES	CAPE ANTRIM BARRIER	44.6800	-63.2443	0.7
G1413	CORE	004	004	88301	J.SHAW/D.FORBES	CAPE ANTRIM BARRIER	44.6803	-63.2425	0.0
G1414	CORE	005	005	88301	J.SHAW/D.FORBES	CAPE ANTRIM BARRIER	44.6803	-63.2407	0.0
G1415	CORE	006	006	88301	J.SHAW/D.FORBES	RED ISLAND, CHEZZETCOOK	44.6973	-63.2267	0.0
G1416	CORE	007	007	88301	J.SHAW/D.FORBES	CHEZZETCOOK BAY	44.6973	-63.2197	0.4
G1417	CORE	008	008	88301	J.SHAW/D.FORBES	BLACK HEAD, CHEZZETCOOK	44.6862	-63.2207	0.0
G1418	CAMERA	001	001	89008	R. PARROTT/CSS BAFFIN	OFF COUNTRY HARBOUR	44.8618	-61.5833	0.0
G1419	CAMERA	002	002	89008	R. PARROTT/CSS BAFFIN	OFF COUNTRY HARBOUR	44.8568	-61.5870	0.0
G1420	CAMERA	003	003	89008	R. PARROTT/CSS BAFFIN	OFF COUNTRY HARBOUR	44.8575	-61.6618	0.0
G1421	CAMERA	004	004	89008	R. PARROTT/CSS BAFFIN	EMERALD BASIN	43.8948	-62.9492	255.0
G1422	CAMERA	005	005	89008	R. PARROTT/CSS BAFFIN	EMERALD BASIN	43.8862	-62.8465	252.0
G1423	CAMERA	006	006	89008	R. PARROTT/CSS BAFFIN	EMERALD BASIN	43.9040	-62.9582	252.0
G1424	CAMERA	008	008	89008	R. PARROTT/CSS BAFFIN	EMERALD BASIN	43.8698	-63.7080	203.0
G1425	CAMERA	009	009	89008	R. PARROTT/CSS BAFFIN	EMERALD BASIN	43.8823	-62.7863	235.0
G1426	CAMERA	010	010	89008	R. PARROTT/CSS BAFFIN	EMERALD BASIN	44.0142	-63.0328	230.0
G1427	CAMERA	011	011	89008	R. PARROTT/CSS BAFFIN	EMERALD BASIN	44.0163	-63.2338	162.0
G1428	CORE	001	001	89009 PH.A	R. MILLER/CSS NAVICULA	BEDFORD BASIN (CENTRAL N.)	44.6978	-63.6500	62.0
G1429	GRAB	002	002	89009 PH.A	R. MILLER/CSS NAVICULA	BEDFORD BASIN (CENTRAL N.)	44.6975	-63.6487	62.0
G1430	CORE	003	003	89009 PH.A	R. MILLER/CSS NAVICULA	BEDFORD BAY	44.7198	-63.6673	11.0
G1431	GRAB	004	004	89009 PH.A	R. MILLER/CSS NAVICULA	BEDFORD BAY	44.7202	-63.6665	11.0
G1432	CORE	005	005	89009 PH.A	R. MILLER/CSS NAVICULA	BEDFORD BASIN (CENTRAL S.)	44.6852	-63.6303	58.0
G1433	GRAB	006	006	89009 PH.A	R. MILLER/CSS NAVICULA	BEDFORD BASIN (CENTRAL S.)	44.6857	-63.6265	58.0
G1434	GRAB	007	007	89009 PH.A	R. MILLER/CSS NAVICULA	BEDFORD BAY	44.7195	-63.6668	14.0
G1435	GRAB	008	008	89009 PH.A	R. MILLER/CSS NAVICULA	BEDFORD BASIN (CENTRAL S.)	44.6852	-63.6292	59.0
G1436	GRAB	009	009	89009 PH.A	R. MILLER/CSS NAVICULA	BEDFORD BASIN (CENTRAL N.)	44.6982	-63.6493	67.5
G1437	GRAB	010	010	89009 PH.A	R. MILLER/CSS NAVICULA	TUFTS COVE	44.6772	-63.5997	10.0
G1438	GRAB	011	011	89009 PH.A	R. MILLER/CSS NAVICULA	TUFTS COVE	44.6772	-63.5997	10.0
G1439	GRAB	012	012	89009 PH.A	R. MILLER/CSS NAVICULA	DUFFUS STREET OUTFALL	44.6720	-63.5988	22.0
G1440	GRAB	013	013	89009 PH.A	R. MILLER/CSS NAVICULA	DUFFUS STREET OUTFALL	44.6720	-63.5988	23.0
G1441	GRAB	014	014	89009 PH.A	R. MILLER/CSS NAVICULA	DARTMOUTH COVE	44.6622	-63.5600	11.0
G1442	GRAB	015	015	89009 PH.A	R. MILLER/CSS NAVICULA	DARTMOUTH COVE	44.6622	-63.5600	11.0
G1443	CORE	016	016	89009 PH.A	R. MILLER/CSS NAVICULA	N. OF GEORGE'S ISLAND	44.6462	-63.5630	24.0
G1444	GRAB	017	017	89009 PH.A	R. MILLER/CSS NAVICULA	N. OF GEORGE'S ISLAND	44.6462	-63.5630	24.0
G1445	GRAB	018	018	89009 PH.A	R. MILLER/CSS NAVICULA	N. OF GEORGE'S ISLAND	44.6462	-63.5630	24.0
G1446	CORE	019	019	89009 PH.A	R. MILLER/CSS NAVICULA	DARTMOUTH COVE	44.6607	-63.5605	14.0
G1447	GRAB	020	020	89009 PH.A	R. MILLER/CSS NAVICULA	EASTERN PASSAGE	44.6277	-63.5262	18.0
G1448	GRAB	021	021	89009 PH.A	R. MILLER/CSS NAVICULA	EASTERN PASSAGE	44.6287	-63.5260	17.0
G1449	GRAB	022	022	89009 PH.A	R. MILLER/CSS NAVICULA	MCNABS COVE	44.6112	-63.5405	27.0
G1450	GRAB	023	023	89009 PH.A	R. MILLER/CSS NAVICULA	MCNABS COVE	44.6112	-63.5405	17.0
G1451	CORE	024	024	89009 PH.A	R. MILLER/CSS NAVICULA	NORTH W. ARM	44.6283	-63.5920	11.0
G1452	GRAB	025	025	89009 PH.A	R. MILLER/CSS NAVICULA	NORTH W. ARM	44.6283	-63.5920	11.0
G1453	CORE	001	001	89038	K. MORAN/CSS HUDSON	HALIFAX HARBOUR	44.6405	-63.5518	25.6
G1454	CORE	001	001	89038	K. MORAN/CSS HUDSON	HALIFAX HARBOUR	44.6405	-63.5518	25.6
G1455	CORE	001	001	89039	C.L. AMOS/CSS HUDSON	NORTH W. ARM, HALIFAX HBR	44.6255	-63.5933	13.7
G1456	CORE	001	001	89039	C.L. AMOS/CSS HUDSON	NORTH W. ARM, HALIFAX HBR	44.6255	-63.5933	13.7
G1457	CORE	002	002	89039	C.L. AMOS/CSS HUDSON	HALIFAX HARBOUR	44.6083	-63.5555	20.1
G1458	CORE	002	002	89039	C.L. AMOS/CSS HUDSON	HALIFAX HARBOUR	44.6083	-63.5555	20.1
G1459	GRAB	001	001	89302	D.L.FORBES/CORMORANT	OUTER EDGE, SHELF OFF HFX	44.3833	-63.4933	102.1
G1460	GRAB	002	002	89302	D.L.FORBES/CORMORANT	INNER SHELF OFF HALIFAX	44.3467	-63.1750	139.6
G1461	GRAB	003	003	89302	D.L.FORBES/CORMORANT	INNER SHELF OFF HALIFAX	44.4950	-63.2317	62.5
G1462	GRAB	004	004	89302	D.L.FORBES/CORMORANT	INNER SHELF OFF HALIFAX	44.4950	-63.2317	62.5
G1463	GRAB	005	005	89302	D.L.FORBES/CORMORANT	INNER SHELF OFF HALIFAX	44.5017	-63.4317	51.8
G1464	GRAB	006	006	89302	D.L.FORBES/CORMORANT	INNER SHELF OFF HALIFAX	44.5867	-62.9200	65.5
G1465	GRAB	007	007	89302	D.L.FORBES/CORMORANT	INNER SHELF OFF HALIFAX	44.5867	-62.9200	67.1
G1466	GRAB	008	008	89302	D.L.FORBES/CORMORANT	INNER SHELF OFF HALIFAX	44.4833	-63.4100	62.5
G1467	CORE	005	005	90002	D.J.W. PIPER/CSS DAWSON	OFF LUNENBURG	44.2678	-64.1417	71.0
G1468	CORE	005	005	90002	D.J.W. PIPER/CSS DAWSON	OFF LUNENBURG	44.2678	-64.1417	71.0
G1469	CAMERA	001	001	90010	G.B. FADER/CSS NAVICULA	HALIFAX HBR (N.W. ARM)	44.6113	-63.5607	15.0
G1470	CAMERA	002	002	90010	G.B. FADER/CSS NAVICULA	HALIFAX HBR (N.W. ARM)	44.6125	-63.5637	55.0
G1471	CAMERA	003	003	90010	G.B. FADER/CSS NAVICULA	HALIFAX HBR OUTER HARBOUR	44.5437	-63.5312	38.1
G1472	CAMERA	004	004	90010	G.B. FADER/CSS NAVICULA	HALIFAX HBR OUTER HARBOUR	44.5255	-63.5150	0.0
G1473	CAMERA	005	005	90010	G.B. FADER/CSS NAVICULA	HALIFAX HBR HERRING COVE	44.5655	-63.5477	32.0
G1474	CAMERA	006	006	90010	G.B. FADER/CSS NAVICULA	HALIFAX HBR (N.W. ARM)	44.6303	-63.5947	13.0
G1475	CAMERA	007	007	90010	G.B. FADER/CSS NAVICULA	HALIFAX HBR (N.W. ARM)	44.6190	-63.5725	11.0
G1476	CAMERA	008	008	90010	G.B. FADER/CSS NAVICULA	HALIFAX HBR N. GEORGES IS	44.6495	-63.5590	19.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G1477	CAMERA	009	009	90010	G.B. FADER/CSS NAVICULA	HALIFAX HBR PLEASANT SHOAL	44.6205	-63.5515	27.0
G1478	CAMERA	010	010	90010	G.B. FADER/CSS NAVICULA	HALIFAX HBR INNER HARBOUR	44.6572	-63.5725	18.0
G1479	CAMERA	010.1	010.1	90010	G.B. FADER/CSS NAVICULA	HALIFAX HBR INNER HARBOUR	44.6548	-63.5707	16.0
G1480	CAMERA	011	011	90010	G.B. FADER/CSS NAVICULA	HALIFAX HBR THE NARROWS	44.6760	-63.6063	20.0
G1481	CAMERA	012	012	90010	G.B. FADER/CSS NAVICULA	BEDFORD BASIN	44.6723	-63.6380	19.0
G1482	GRAB	013	013	90010	G.B. FADER/CSS NAVICULA	HALIFAX HARBOUR	44.6083	-63.5327	17.0
G1483	CORE	014	014	90010	G.B. FADER/CSS NAVICULA	HALIFAX HARBOUR	44.6083	-63.5327	18.0
G1484	GRAB	015	015	90010	G.B. FADER/CSS NAVICULA	BEDFORD BASIN	44.6920	-63.6425	70.0
G1485	CORE	016	016	90010	G.B. FADER/CSS NAVICULA	BEDFORD BASIN	44.6920	-63.6425	70.0
G1486	GRAB	017	017	90010	G.B. FADER/CSS NAVICULA	BEDFORD BASIN	44.6942	-63.6342	67.0
G1487	CORE	018	018	90010	G.B. FADER/CSS NAVICULA	BEDFORD BASIN	44.6948	-63.6343	67.0
G1488	GRAB	019	019	90010	G.B. FADER/CSS NAVICULA	HALIFAX HARBOUR	44.6095	-63.5337	18.0
G1489	GRAB	020	020	90010	G.B. FADER/CSS NAVICULA	HALIFAX HARBOUR	44.6095	-63.5340	18.0
G1490	GRAB	021	021	90010	G.B. FADER/CSS NAVICULA	HALIFAX HARBOUR	44.5243	-63.5280	41.0
G1491	GRAB	022	022	90010	G.B. FADER/CSS NAVICULA	HALIFAX HARBOUR	44.5350	-63.5110	37.0
G1492	GRAB	023	023	90010	G.B. FADER/CSS NAVICULA	HALIFAX HARBOUR	44.5857	-63.4793	15.0
G1493	GRAB	024	024	90010	G.B. FADER/CSS NAVICULA	HALIFAX HARBOUR	44.5747	-63.4828	18.0
G1494	GRAB	025	025	90010	G.B. FADER/CSS NAVICULA	HALIFAX HARBOUR	44.6308	-63.5958	19.0
G1495	GRAB	026	026	90010	G.B. FADER/CSS NAVICULA	HALIFAX HARBOUR	44.6298	-63.5335	23.0
G1496	GRAB	027	027	90010	G.B. FADER/CSS NAVICULA	HALIFAX HARBOUR	44.6498	-63.5603	22.0
G1497	GRAB	028	028	90010	G.B. FADER/CSS NAVICULA	HALIFAX HARBOUR	44.6765	-63.6060	22.0
G1498	GRAB	029	029	90010	G.B. FADER/CSS NAVICULA	BEDFORD BAY	44.7182	-63.6658	15.0
G1499	GRAB	030	030	90010	G.B. FADER/CSS NAVICULA	BEDFORD BASIN	44.6985	-63.6462	69.0
G1500	CORE	001	001	90028A	D.E. BUCKLEY/CSS HUDSON	HALIFAX HARBOUR	44.6513	-63.5593	22.0
G1501	CORE	001	001	90028A	D.E. BUCKLEY/CSS HUDSON	HALIFAX HARBOUR	44.6513	-63.5593	22.0
G1502	CORE	002	002	90028A	D.E. BUCKLEY/CSS HUDSON	BEDFORD BASIN	44.6902	-63.5595	66.0
G1503	CORE	002	002	90028A	D.E. BUCKLEY/CSS HUDSON	BEDFORD BASIN	44.6902	-63.5595	66.0
G1504	CORE	003	003	90028A	D.E. BUCKLEY/CSS HUDSON	BEDFORD BASIN	44.6900	-63.6265	66.0
G1505	CORE	003	003	90028A	D.E. BUCKLEY/CSS HUDSON	BEDFORD BASIN	44.6900	-63.6265	66.0
G1506	GRAB	001	001	90038	R.O. MILLER/CSS NAVICULA	HEAD OF COUNTRY HARBOUR	45.2307	-61.7597	10.0
G1507	CAMERA	002	002	90038	R.O. MILLER/CSS NAVICULA	HEAD OF COUNTRY HARBOUR	45.2297	-61.7573	12.0
G1508	GRAB	003	003	90038	R.O. MILLER/CSS NAVICULA	HEAD OF COUNTRY HARBOUR	45.2280	-61.7547	12.0
G1509	GRAB	004	004	90038	R.O. MILLER/CSS NAVICULA	COUNTRY HBR N. OF STORMONT	45.2210	-61.7412	15.5
G1510	CAMERA	005	005	90038	R.O. MILLER/CSS NAVICULA	COUNTRY HBR N. OF STORMONT	45.2217	-61.7422	16.0
G1511	GRAB	006	006	90038	R.O. MILLER/CSS NAVICULA	ISAACS HARBOUR	45.1677	-61.6498	11.0
G1512	CAMERA	007	007	90038	R.O. MILLER/CSS NAVICULA	ISAACS HARBOUR	45.1680	-61.6493	9.5
G1513	CAMERA	008	008	90038	R.O. MILLER/CSS NAVICULA	FISHERMANS HARBOUR	45.1117	-61.6532	16.0
G1514	GRAB	009	009	90038	R.O. MILLER/CSS NAVICULA	FISHERMANS HARBOUR	45.1113	-61.6517	16.5
G1515	GRAB	010	010	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.1242	-61.6172	22.5
G1516	GRAB	011	011	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.1193	-61.6017	22.0
G1517	GRAB	012	012	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.1328	-61.6215	14.0
G1518	GRAB	013	013	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.1340	-61.6368	21.5
G1519	GRAB	014	014	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.1430	-61.6445	20.0
G1520	GRAB	015	015	90038	R.O. MILLER/CSS NAVICULA	COUNTRY HARBOUR	45.1657	-61.6942	16.0
G1521	GRAB	016	016	90038	R.O. MILLER/CSS NAVICULA	S. OF CODDLES ISLAND	45.1442	-61.5433	19.0
G1522	GRAB	017	017	90038	R.O. MILLER/CSS NAVICULA	W. OF GOOSE ISLAND	45.1295	-61.5883	18.0
G1523	GRAB	018	018	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.1197	-61.5997	21.0
G1524	GRAB	019	019	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.1137	-61.5930	26.0
G1525	GRAB	020	020	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.1058	-61.6023	29.0
G1526	GRAB	021	021	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.0880	-61.5870	27.0
G1527	GRAB	022	022	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.0930	-61.5767	30.0
G1528	GRAB	023	023	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.0850	-61.5717	34.0
G1529	GRAB	024	024	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.0808	-61.5800	35.0
G1530	GRAB	025	025	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.0753	-61.5663	40.0
G1531	GRAB	026	026	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.0638	-61.5712	44.0
G1532	GRAB	027	027	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.0557	-61.5548	46.0
G1533	GRAB	028	028	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.0400	-61.5500	47.5
G1534	CAMERA	029	029	90038	R.O. MILLER/CSS NAVICULA	OUTER COUNTRY HARBOUR	45.0408	-61.5495	49.0
G1535	CAMERA	030	030	90038	R.O. MILLER/CSS NAVICULA	S. OF CAPE MOCODOME	45.0697	-61.6580	27.0
G1536	GRAB	031	031	90038	R.O. MILLER/CSS NAVICULA	S. OF CAPE MOCODOME	45.0698	-61.6603	26.5
G1537	GRAB	032	032	90038	R.O. MILLER/CSS NAVICULA	S. W. OF CAPE MOCODOME	45.0728	-61.6740	27.0
G1538	CAMERA	033	033	90038	R.O. MILLER/CSS NAVICULA	S. W. OF CAPE MOCODOME	45.0733	-61.6727	27.0
G1539	CAMERA	034	034	90038	R.O. MILLER/CSS NAVICULA	S. OF CAPE MOCODOME	45.0782	-61.6513	20.0
G1540	GRAB	035	035	90038	R.O. MILLER/CSS NAVICULA	S. OF CAPE MOCODOME	45.0772	-61.6528	22.0
G1541	GRAB	036	036	90038	R.O. MILLER/CSS NAVICULA	S. E. OF ROSE SHOAL	45.0723	-61.6173	39.0
G1542	CAMERA	037	037	90038	R.O. MILLER/CSS NAVICULA	S. E. OF ROSE SHOAL	45.0718	-61.6165	38.5
G1543	CAMERA	038	038	90038	R.O. MILLER/CSS NAVICULA	N. E. OF ROSE SHOAL	45.0858	-61.6225	32.0
G1544	GRAB	039	039	90038	R.O. MILLER/CSS NAVICULA	N. E. OF ROSE SHOAL	45.0858	-61.6237	30.0
G1545	CAMERA	040	040	90038	R.O. MILLER/CSS NAVICULA	W. OF SALADIN POINT	45.1242	-61.6167	23.0
G1546	CAMERA	041	041	90038	R.O. MILLER/CSS NAVICULA	W. OF SALADIN POINT	45.1235	-61.6163	23.0
G1547	CAMERA	042	042	90038	R.O. MILLER/CSS NAVICULA	S. OF CODDLES ISLAND	45.1450	-61.5437	19.0
G1548	CAMERA	043	043	90038	R.O. MILLER/CSS NAVICULA	S. OF CODDLES ISLAND	45.1443	-61.5427	19.0
G1549	CAMERA	044	044	90038	R.O. MILLER/CSS NAVICULA	S. W. OF FLYING POINT	45.0878	-61.5870	27.0
G1550	CAMERA	045	045	90038	R.O. MILLER/CSS NAVICULA	S. W. OF FLYING POINT	45.0880	-61.5880	28.0
G1551	CAMERA	046	046	90038	R.O. MILLER/CSS NAVICULA	S. E. OF FIDDLERS POINT	45.0692	-61.7337	21.0
G1552	GRAB	047	047	90038	R.O. MILLER/CSS NAVICULA	S. E. OF FIDDLERS POINT	45.0687	-61.7338	21.0
G1553	GRAB	001	001	90301B	D.L. FORBES/MV F.G. CREED	OFF DEVIL'S ISLAND	44.5763	-63.4725	18.0
G1554	GRAB	002	002	90301B	D.L. FORBES/MV F.G. CREED	OFF DEVIL'S ISLAND	44.5808	-63.4730	15.0
G1555	GRAB	003	003	90301B	D.L. FORBES/MV F.G. CREED	OFF DEVIL'S ISLAND	44.5815	-63.4733	15.0
G1556	GRAB	004	004	90301B	D.L. FORBES/MV F.G. CREED	OFF DEVIL'S ISLAND	44.5813	-63.4740	15.0
G1557	GRAB	005	005	90301B	D.L. FORBES/MV F.G. CREED	OFF DEVIL'S ISLAND	44.5718	-63.4775	19.0
G1558	CAMERA	001	001	CREED90	R.O. MILLER/MV F.G. CREED	OUTER HALIFAX HARBOUR	44.5303	-63.5198	44.0

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdepth
G1559	GRAB	002	002	CREED90	R.O. MILLER/MV F.G. CREED	OUTER HALIFAX HARBOUR	44.5298	-63.5173	43.0
G1560	CAMERA	003	003	CREED90	R.O. MILLER/MV F.G. CREED	OUTER HALIFAX HARBOUR	44.5497	-63.5222	23.0
G1561	GRAB	004	004	CREED90	R.O. MILLER/MV F.G. CREED	OUTER HALIFAX HARBOUR	44.5497	-63.5222	23.0
G1562	CAMERA	005	005	CREED90	R.O. MILLER/MV F.G. CREED	OUTER HALIFAX HARBOUR	44.5685	-63.5210	25.0
G1563	GRAB	006	006	CREED90	R.O. MILLER/MV F.G. CREED	OUTER HALIFAX HARBOUR	44.5685	-63.5205	23.0
G1564	CAMERA	007	007	CREED90	R.O. MILLER/MV F.G. CREED	HERRING COVE, HALIFAX HBR	44.5662	-63.5477	34.0
G1565	GRAB	008	008	CREED90	R.O. MILLER/MV F.G. CREED	HERRING COVE, HALIFAX HBR	44.5662	-63.5482	35.0
G1566	CAMERA	009	009	CREED90	R.O. MILLER/MV F.G. CREED	SANDWICH PT, HALIFAX HBR	44.5860	-63.5392	32.0
G1567	GRAB	010	010	CREED90	R.O. MILLER/MV F.G. CREED	SANDWICH PT, HALIFAX HBR	44.5860	-63.5390	37.0
G1568	CAMERA	011	011	CREED90	R.O. MILLER/MV F.G. CREED	SANDWICH PT, HALIFAX HBR	44.5915	-63.5385	30.0
G1569	GRAB	012	012	CREED90	R.O. MILLER/MV F.G. CREED	OFF YORK REDOUBT, HALIFAX	44.5918	-63.5385	29.0
G1570	CAMERA	013	013	CREED90	R.O. MILLER/MV F.G. CREED	OFF YORK REDOUBT, HALIFAX	44.5973	-63.5482	30.0
G1571	GRAB	014	014	CREED90	R.O. MILLER/MV F.G. CREED	OFF YORK REDOUBT, HALIFAX	44.5968	-63.5472	31.0
G1572	CAMERA	015	015	CREED90	R.O. MILLER/MV F.G. CREED	NORTH W. ARM, HALIFAX HBR	44.6152	-63.5683	15.0
G1573	GRAB	016	016	CREED90	R.O. MILLER/MV F.G. CREED	NORTH W. ARM, HALIFAX HBR	44.6147	-63.5675	14.0
G1574	CAMERA	017	017	CREED90	R.O. MILLER/MV F.G. CREED	IVES KNOLL, HALIFAX HARBOU	44.6283	-63.5472	11.5
G1575	GRAB	018	018	CREED90	R.O. MILLER/MV F.G. CREED	IVES KNOLL, HALIFAX HARBOU	44.6285	-63.5472	10.8
G1576	CAMERA	019	019	CREED90	R.O. MILLER/MV F.G. CREED	N OF GEORGES IS, HALIFAX H	44.6483	-63.5583	24.0
G1577	GRAB	020	020	CREED90	R.O. MILLER/MV F.G. CREED	N OF GEORGES IS, HALIFAX H	44.6483	-63.5583	24.0
G1578	CAMERA	021	021	CREED90	R.O. MILLER/MV F.G. CREED	NAVY JETTY K, HALIFAX HBR	44.6653	-63.5883	21.0
G1579	GRAB	022	022	CREED90	R.O. MILLER/MV F.G. CREED	NAVY JETTY K, HALIFAX HBR	44.6638	-63.5882	21.0
G1580	CAMERA	023	023	CREED90	R.O. MILLER/MV F.G. CREED	NEW BRIDGE, HALIFAX HARBOU	44.6772	-63.6098	23.0
G1581	GRAB	024	024	CREED90	R.O. MILLER/MV F.G. CREED	NEW BRIDGE, HALIFAX HARBOU	44.6768	-63.6097	24.0
G1582	CAMERA	025	025	CREED90	R.O. MILLER/MV F.G. CREED	BEDFORD BASIN	44.6885	-63.6362	71.0
G1583	GRAB	026	026	CREED90	R.O. MILLER/MV F.G. CREED	BEDFORD BASIN	44.6882	-63.6367	71.0

APPENDIX 2

INDUSTRY AND UNIVERSITY SAMPLE DATABASE

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
394	DRILL	BH8218	270		MacKNIGHT, S.	HALIFAX	44.6490	-63.5710	
395	GRAB	G843	271		MacKNIGHT, S.	HALIFAX	44.6650	-63.5640	
404	GRAB	G782	275		MacKNIGHT, S.	HALIFAX	44.7250	-63.6610	
407	CORE	C782	276		MacKNIGHT, S.	HALIFAX	44.6160	-63.5070	
409	GRAB	G783	277		MacKNIGHT, S.	HALIFAX	44.6160	-63.5070	
411	CORE	C792	278		MacKNIGHT, S.	HALIFAX	44.6590	-63.5820	
422	GRAB	G792	279		MacKNIGHT, S.	HALIFAX	44.6630	-63.5720	
424	GRAB	G792	280		MacKNIGHT, S.	HALIFAX	44.6610	-63.5590	
426	GRAB	G792	281		MacKNIGHT, S.	HALIFAX	44.6680	-63.5950	
430	GRAB	G812	282		MacKNIGHT, S.	HALIFAX	44.6110	-63.4970	
432	CORE	C812	283		MacKNIGHT, S.	HALIFAX	44.6680	-63.5960	
446	DRILL	BH821	284		MacKNIGHT, S.	HALIFAX	44.6540	-63.5780	
450	CORE	C821	285		MacKNIGHT, S.	HALIFAX	44.6540	-63.5780	
453	DRILL	BH821	286		MacKNIGHT, S.	HALIFAX	44.6540	-63.5780	
487	CORE	C822	287		MacKNIGHT, S.	HALIFAX	44.6540	-63.5780	
490	DRILL	BH826	288		MacKNIGHT, S.	HALIFAX	44.6490	-63.5700	
500	GRAB	B84D3	289		MacKNIGHT, S.	HALIFAX	44.6710	-63.6270	
509	CORE	C84T10	290		MacKNIGHT, S.	HALIFAX	44.6333	-63.5500	
527	GRAB	G841	292		MacKNIGHT, S.	HALIFAX	44.6650	-63.5640	
529	CORE	C852	293		MacKNIGHT, S.	HALIFAX	44.6110	-63.4970	
663	GRAB	G831	303		MacKNIGHT, S.	LUNENBURG	44.3730	-64.3050	
671	CORE	C831A	302		MacKNIGHT, S.	LUNENBURG	44.3760	-64.3180	
695	CORE	C841	304		MacKNIGHT, S.	LUNENBURG	44.3760	-64.3170	
1334	GRAB	G851	463		MacKNIGHT, S.	CAMP COVE	44.7330	-62.7670	
1385	GRAB	G772	509		MacKNIGHT, S.	CHESTER	44.5330	-64.2330	
1386	GRAB	G761	510		MacKNIGHT, S.	GOLD RIVER	44.5330	-64.3170	
1388	GRAB	G761	512		MacKNIGHT, S.	BLANDFORD	44.4830	-64.1170	
1389	GRAB	G811	513		MacKNIGHT, S.	LITTLE TANCOOK ISLD	44.4670	-64.1330	
1390	GRAB	G811	514		MacKNIGHT, S.	BUSH ISLAND	44.2330	-64.3670	
1391	CORE	C841	515		MacKNIGHT, S.	UPPER BLANDFORD	44.5167	-64.1167	
1392	CORE	C841	516		MacKNIGHT, S.	BAYPORT	44.3167	-64.3167	
1396	GRAB	G811	520		MacKNIGHT, S.	ROCKY RUN	44.6330	-63.3170	
1397	GRAB	G791	521		MacKNIGHT, S.	THREE FATHOM HARBOUR	44.6330	-63.2830	
1398	GRAB	G781	522		MacKNIGHT, S.	EAST CHEZZETCOOK	44.7170	-63.2330	
1399	GRAB	G811	523		MacKNIGHT, S.	EAST JEDDORE	44.7330	-63.0000	
1400	GRAB		524		MacKNIGHT, S.	WEST JEDDORE	44.7330	-63.0170	
1401	GRAB	G821	525		MacKNIGHT, S.	LITTLE HARBOUR	44.7170	-62.8500	
1445	GRAB	G771	549		MacKNIGHT, S.	PORT BICKERTON (WEST	45.1000	-61.7170	
1446	GRAB	G821	550		MacKNIGHT, S.	SOMORA	45.0670	-61.9000	
1447	GRAB	G851	551		MacKNIGHT, S.	LARRY'S RIVER	45.2170	-61.3830	
1448	GRAB	G841	552		MacKNIGHT, S.	DRUMHEAD	45.1500	-61.6000	
1450	GRAB	G841	554		MacKNIGHT, S.	WINE HARBOUR	45.0670	-61.8500	
1732	GRAB	78027-001	732		TAYLOR, B.	EASTERN PASSAGE	44.6130	-63.5080	
1733	GRAB	78027-002	733		TAYLOR, B.	EASTERN PASSAGE	44.6150	-63.5000	
1733	GRAB	78027-002	733		TAYLOR, B.	EASTERN PASSAGE	44.6150	-63.5000	
1734	GRAB	78027-003	734		TAYLOR, B.	EASTERN PASSAGE	44.6110	-63.5030	
1735	GRAB	78027-004	735		TAYLOR, B.	EASTERN PASSAGE	44.6100	-63.5050	
1736	GRAB	78027-005	736		TAYLOR, B.	EASTERN PASSAGE	44.6070	-63.5040	
1737	GRAB	78027-006	737		TAYLOR, B.	EASTERN PASSAGE	44.6060	-63.5010	
1738	GRAB	78027-007	738		TAYLOR, B.	EASTERN PASSAGE	44.6040	-63.4990	
1739	GRAB	78027-008	739		TAYLOR, B.	EASTERN PASSAGE	44.6030	-63.4950	
1740	GRAB	78027-009	740		TAYLOR, B.	EASTERN PASSAGE	44.6060	-63.4955	
1741	GRAB	78027-010	741		TAYLOR, B.	EASTERN PASSAGE	44.6070	-63.4960	
1742	GRAB	78027-011	742		TAYLOR, B.	EASTERN PASSAGE	44.6080	-63.4980	
1743	GRAB	78027-012	743		TAYLOR, B.	EASTERN PASSAGE	44.6100	-63.4990	
1744	GRAB	78027-013	744		TAYLOR, B.	EASTERN PASSAGE	44.6100	-63.5000	
1744	GRAB	78027-013	744		TAYLOR, B.	EASTERN PASSAGE	44.6100	-63.5000	
1745	GRAB	78027-014	745		TAYLOR, B.	EASTERN PASSAGE	44.6100	-63.5030	
1746	GRAB	78027-015	746		TAYLOR, B.	EASTERN PASSAGE	44.6070	-63.4990	
1747	GRAB	78030-016	747		TAYLOR, B.	EASTERN PASSAGE	44.6040	-63.4970	
1748	GRAB	78030-017	748		TAYLOR, B.	EASTERN PASSAGE	44.6070	-63.4920	
1749	GRAB	78030-018	749		TAYLOR, B.	EASTERN PASSAGE	44.6080	-63.4900	
1750	GRAB	78030-019	750		TAYLOR, B.	EASTERN PASSAGE	44.6080	-63.4870	
1751	GRAB	78030-020	751		TAYLOR, B.	EASTERN PASSAGE	44.6080	-63.4850	
1752	GRAB	78030-021	752		TAYLOR, B.	EASTERN PASSAGE	44.6060	-63.4860	
1753	GRAB	78030-022	753		TAYLOR, B.	EASTERN PASSAGE	44.6030	-63.4890	
1754	GRAB	78030-023	754		TAYLOR, B.	EASTERN PASSAGE	44.6010	-63.4890	
1755	GRAB	78030-024	755		TAYLOR, B.	EASTERN PASSAGE	44.5990	-63.4890	
1756	GRAB	78030-025	756		TAYLOR, B.	EASTERN PASSAGE	44.5990	-63.4910	
1757	GRAB	78030-026	757		TAYLOR, B.	EASTERN PASSAGE	44.5990	-63.4860	
1758	GRAB	78030-027	758		TAYLOR, B.	EASTERN PASSAGE	44.6030	-63.4840	
1759	GRAB	78030-028	759		TAYLOR, B.	EASTERN PASSAGE	44.6060	-63.4820	
1760	GRAB	78030-029	760		TAYLOR, B.	EASTERN PASSAGE	44.6070	-63.4800	
1761	GRAB	78030-030	761		TAYLOR, B.	EASTERN PASSAGE	44.6100	-63.4940	
1762	GRAB	78030-031	762		TAYLOR, B.	EASTERN PASSAGE	44.6100	-63.4970	
1763	GRAB	78030-032	763		TAYLOR, B.	EASTERN PASSAGE	44.6070	-63.4960	
1764	GRAB	78030-032A	764		TAYLOR, B.	EASTERN PASSAGE	44.6070	-63.4960	
1765	GRAB	78030-032B	765		TAYLOR, B.	EASTERN PASSAGE	44.6070	-63.4960	
3027	GRAB	DIVE 3	2027		STEWART, J.	LIGHTHOUSE BANK HFX	44.5971	-63.5274	
3028	GRAB	DIVE 4	2028		STEWART, J.	LIGHTHOUSE BANK HFX	44.5987	-63.5249	
3029	GRAB	DIVE 5	2029		STEWART, J.	LIGHTHOUSE BANK HFX	44.5991	-63.5310	
3030	GRAB	DIVE 6	2030		STEWART, J.	LIGHTHOUSE BANK HFX	44.5999	-63.5313	

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
3031	GRAB	DIVE 7	2031		STEWART, J.	LIGHTHOUSE BANK HFX	44.5956	-63.5211	
3032	GRAB	JS 13	2032		STEWART, J.	LIGHTHOUSE BANK HFX	44.5999	-63.5298	
3033	GRAB	JS 14	2033		STEWART, J.	LIGHTHOUSE BANK HFX	44.5995	-63.5245	
3034	GRAB	JS 15	2034		STEWART, J.	LIGHTHOUSE BANK HFX	44.5985	-63.5233	
3035	GRAB	JS 18	2035		STEWART, J.	LIGHTHOUSE BANK HFX	44.5980	-63.5297	
3036	GRAB	JS 19	2036		STEWART, J.	LIGHTHOUSE BANK HFX	44.5979	-63.5271	
3037	GRAB	JS 20	2037		STEWART, J.	LIGHTHOUSE BANK HFX	44.5975	-63.5247	
3038	GRAB	JS 21	2038		STEWART, J.	LIGHTHOUSE BANK HFX	44.5974	-63.5220	
3039	GRAB	JS 22	2039		STEWART, J.	LIGHTHOUSE BANK HFX	44.5962	-63.5184	
3040	GRAB	JS 23	2040		STEWART, J.	LIGHTHOUSE BANK HFX	44.5962	-63.5197	
3041	GRAB	JS 24	2041		STEWART, J.	LIGHTHOUSE BANK HFX	44.5964	-63.5211	
3042	GRAB	JS 25	2042		STEWART, J.	LIGHTHOUSE BANK HFX	44.5966	-63.5222	
3043	GRAB	JS 26	2043		STEWART, J.	LIGHTHOUSE BANK HFX	44.5964	-63.5235	
3044	GRAB	JS 27	2044		STEWART, J.	LIGHTHOUSE BANK HFX	44.5969	-63.5248	
3045	GRAB	JS 28	2045		STEWART, J.	LIGHTHOUSE BANK HFX	44.5970	-63.5260	
3046	GRAB	JS 29	2046		STEWART, J.	LIGHTHOUSE BANK HFX	44.5971	-63.5284	
3047	GRAB	JS 30	2047		STEWART, J.	LIGHTHOUSE BANK HFX	44.5959	-63.5250	
3048	GRAB	JS 31	2048		STEWART, J.	LIGHTHOUSE BANK HFX	44.5957	-63.5223	
3049	GRAB	JS 32	2049		STEWART, J.	LIGHTHOUSE BANK HFX	44.5954	-63.5198	
3050	GRAB	JS 33	2050		STEWART, J.	LIGHTHOUSE BANK HFX	44.5949	-63.5172	
3051	GRAB	JS 34	2051		STEWART, J.	LIGHTHOUSE BANK HFX	44.5943	-63.5189	
3052	GRAB	JS 35	2052		STEWART, J.	LIGHTHOUSE BANK HFX	44.5948	-63.5214	
3053	GRAB	JS 36	2053		STEWART, J.	LIGHTHOUSE BANK HFX	44.5951	-63.5263	
3063	GRAB		CLH-52		MUNROE, D.H.	LAWRENCETOWN BEACH	44.6441	-63.3333	
3064	GRAB		PB-59		MUNROE, D.H.	COOK POINT	44.4690	-63.6052	
3065	GRAB		SMB-68		MUNROE, D.H.	WEST HEAD	44.6512	-63.9738	
3066	GRAB		LB-83		MUNROE, D.H.	SPINDLER COVE	44.3271	-64.2802	
3067	GRAB		LB-84		MUNROE, D.H.	ROSE BAY	44.2993	-64.2914	
3068	GRAB		LR-85		MUNROE, D.H.	HARTING POINT	44.2636	-64.2767	
3069	GRAB		LR-86		MUNROE, D.H.	OXNER'S BEACH	44.2757	-64.3435	
3070	GRAB		LR-88		MUNROE, D.H.	CRESCENT BEACH	44.2327	-64.4080	
3071	GRAB		TB-15		MUNROE, D.H.	NEW HARBOUR	45.1752	-61.4591	
3072	GRAB		PB-24		MUNROE, D.H.	INDIAN HARBOUR	45.1038	-61.8469	
3073	GRAB		CB-41		MUNROE, D.H.	CLAM BAY BEACH	44.7235	-62.8887	
3074	GRAB		MARB-48		MUNROE, D.H.	MEISNER LAKE	44.6834	-63.1998	
3212	GRAB	BP1-20C-1	2079		URQUHART, E.F.	KINGS BAY	44.2670	-64.2500	
3213	GRAB	BPA-20C-2	2080		URQUHART, E.F.	KINGS BAY	44.2670	-64.2500	
3214	GRAB	BP2-20C-3	2081		URQUHART, E.F.	KINGS BAY	44.2670	-64.2500	
3215	GRAB	BP3-20C-4	2082		URQUHART, E.F.	KINGS BAY	44.2670	-64.2543	
3216	GRAB	BP3-20C-5	2083		URQUHART, E.F.	KINGS BAY	44.2670	-64.2500	
3217	GRAB	BP4-20C-6	2084		URQUHART, E.F.	KINGS BAY	44.2670	-64.2500	
3218	GRAB	ESF1-76-1	2085		URQUHART, E.F.	KINGS BAY	44.2670	-64.2500	
3219	GRAB	ESF1-76-2	2086		URQUHART, E.F.	KINGS BAY	44.2670	-64.2500	
3220	GRAB	ESF1-76-3	2087		URQUHART, E.F.	KINGS BAY	44.2716	-64.2518	
3221	GRAB	ESF1-76-4	2088		URQUHART, E.F.	KINGS BAY	44.2740	-64.2533	
3222	GRAB	ESF1-76-5	2089		URQUHART, E.F.	KINGS BAY	44.2744	-64.2538	
3223	GRAB	ESF1-76-6	2090		URQUHART, E.F.	KINGS BAY	44.2748	-64.2541	
3224	GRAB	ESF1-76-8	2091		URQUHART, E.F.	KINGS BAY	44.2756	-64.2518	
3225	GRAB	ESF1-76-9	2092		URQUHART, E.F.	KINGS BAY	44.2754	-64.2517	
3226	GRAB	ESF1-76-10	2093		URQUHART, E.F.	KINGS BAY	44.2751	-64.2515	
3227	GRAB	ESF1-76-11	2094		URQUHART, E.F.	KINGS BAY	44.2747	-64.2499	
3228	GRAB	ESF1-76-12	2095		URQUHART, E.F.	KINGS BAY	44.2745	-64.2505	
3229	GRAB	ESF1-76-13	2096		URQUHART, E.F.	KINGS BAY	44.2724	-64.2500	
3230	GRAB	ESF3-76-17	2097		URQUHART, E.F.	KINGS BAY	44.2738	-64.2468	
3231	GRAB	ESF3-76-18	2098		URQUHART, E.F.	KINGS BAY	44.2732	-64.2459	
3232	GRAB	506-76-080	2099		URQUHART, E.F.	KINGS BAY	44.2726	-64.2466	
3236	GRAB	BP5-20C-7	2103		URQUHART, E.F.	HARTLING BAY	44.2669	-64.2770	
3237	GRAB	BP6-20C-8	2104		URQUHART, E.F.	HARTLING BAY	44.2654	-64.2804	
3238	GRAB	BP7-20C-9	2105		URQUHART, E.F.	HARTLING BAY	44.2645	-64.2820	
3239	GRAB	BP8-20C-10	2106		URQUHART, E.F.	HARTLING BAY	44.2632	-64.2841	
3240	GRAB	BP9-20C-11	2107		URQUHART, E.F.	HARTLING BAY	44.2605	-64.2877	
3241	GRAB	BP10-20C-1	2108		URQUHART, E.F.	HARTLING BAY	44.2567	-64.2909	
3242	GRAB	ESF3-76-14	2109		URQUHART, E.F.	HARTLING BAY	44.2511	-64.2846	
3243	GRAB	ESF3-76-15	2110		URQUHART, E.F.	HARTLING BAY	44.2550	-64.2880	
3244	GRAB	ESF3-76-16	2111		URQUHART, E.F.	HARTLING BAY	44.2591	-64.2861	
3245	GRAB	506-76-184	2112		URQUHART, E.F.	HARTLING BAY	44.2521	-64.2743	
3246	GRAB	506-76-186	2113		URQUHART, E.F.	HARTLING BAY	44.2567	-64.2816	
3247	GRAB	506-76-187	2114		URQUHART, E.F.	HARTLING BAY	44.2581	-64.2783	
3248	GRAB	506-76-188	2115		URQUHART, E.F.	HARTLING BAY	44.2538	-64.2739	
3249	GRAB	506-76-191	2116		URQUHART, E.F.	HARTLING BAY	44.2650	-64.2605	
3675	GRAB	1	2440		PIPER, D.J.W.	ST. MARGARETS BAY	44.6830	-63.8790	6 M
3676	GRAB	2	2441		PIPER, D.J.W.	ST. MARGARETS BAY	44.6760	-63.8880	9.6 M
3677	GRAB	3	2442		PIPER, D.J.W.	ST. MARGARETS BAY	44.6710	-63.8950	12 M
3678	GRAB	4	2443		PIPER, D.J.W.	ST. MARGARETS BAY	44.6700	-63.8950	12.6M
3679	GRAB	5	2444		PIPER, D.J.W.	ST. MARGARETS BAY	44.6710	-63.8980	5.4 M
3680	GRAB	6	2445		PIPER, D.J.W.	ST. MARGARETS BAY	44.6712	-63.9104	12 M
3681	GRAB	7	2446		PIPER, D.J.W.	ST. MARGARETS BAY	44.6740	-63.9910	9 M
3682	GRAB	8	2447		PIPER, D.J.W.	ST. MARGARETS BAY	44.6750	-63.9140	6.3 M
3683	GRAB	9	2448		PIPER, D.J.W.	ST. MARGARETS BAY	44.6750	-63.9170	4.5 M
3684	GRAB	10	2449		PIPER, D.J.W.	ST. MARGARETS BAY	44.6740	-63.9910	8.1 M
3685	GRAB	11	2450		PIPER, D.J.W.	ST. MARGARETS BAY	44.6740	-63.9910	9 M
3686	GRAB	12	2451		PIPER, D.J.W.	ST. MARGARETS BAY	44.6530	-63.9890	4.5 M

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
3687	GRAB	13	2452		PIPER, D.J.W.	ST. MARGARETS BAY	44.6500	-63.9870	15 M
3688	GRAB	14	2453		PIPER, D.J.W.	ST. MARGARETS BAY	44.6470	-63.9880	15.6M
3689	GRAB	15	2454		PIPER, D.J.W.	ST. MARGARETS BAY	44.6710	-63.9670	3.6 M
3690	GRAB	16	2455		PIPER, D.J.W.	ST. MARGARETS BAY	44.6660	-63.9660	9.9 M
3691	GRAB	17	2456		PIPER, D.J.W.	ST. MARGARETS BAY	44.6590	-63.9650	14.1M
3692	GRAB	18	2457		PIPER, D.J.W.	ST. MARGARETS BAY	44.6520	-63.9640	22.0M
3693	GRAB	19	2458		PIPER, D.J.W.	ST. MARGARETS BAY	44.6520	-63.9640	22.5M
3694	GRAB	20	2459		PIPER, D.J.W.	ST. MARGARETS BAY	44.6640	-63.9160	22.5M
3695	GRAB	21	2460		PIPER, D.J.W.	ST. MARGARETS BAY	44.6630	-63.9160	5.1 M
3696	GRAB	22	2461		PIPER, D.J.W.	ST. MARGARETS BAY	44.6640	-63.9300	9 M
3697	GRAB	23	2462		PIPER, D.J.W.	ST. MARGARETS BAY	44.6560	-63.9260	15 M
3698	GRAB	24	2463		PIPER, D.J.W.	ST. MARGARETS BAY	44.6600	-63.9400	9 M
3699	GRAB	25	2464		PIPER, D.J.W.	ST. MARGARETS BAY	44.6540	-63.9420	15 M
3700	GRAB	26	2465		PIPER, D.J.W.	ST. MARGARETS BAY	44.6250	-63.9380	26.7M
3701	GRAB	27	2466		PIPER, D.J.W.	ST. MARGARETS BAY	44.6260	-63.9560	36 M
3702	GRAB	28	2467		PIPER, D.J.W.	ST. MARGARETS BAY	44.5680	-64.0330	54 M
3703	GRAB	29	2468		PIPER, D.J.W.	ST. MARGARETS BAY	44.5670	-64.0280	57 M
3704	GRAB	30	2469		PIPER, D.J.W.	ST. MARGARETS BAY	44.6450	-63.9190	1.5 M
3705	GRAB	31	2470		PIPER, D.J.W.	ST. MARGARETS BAY	44.6410	-63.9200	6 M
3706	GRAB	32	2471		PIPER, D.J.W.	ST. MARGARETS BAY	44.6340	-63.9260	12 M
3707	GRAB	33	2472		PIPER, D.J.W.	ST. MARGARETS BAY	44.6220	-63.9400	28.5M
3708	GRAB	34	2473		PIPER, D.J.W.	ST. MARGARETS BAY	44.6180	-63.9420	31.5M
3709	GRAB	35	2474		PIPER, D.J.W.	ST. MARGARETS BAY	44.6110	-63.9480	1.5 M
3710	GRAB	36	2475		PIPER, D.J.W.	ST. MARGARETS BAY	44.6070	-63.9520	35.4M
3711	GRAB	37	2476		PIPER, D.J.W.	ST. MARGARETS BAY	44.5960	-63.9640	37.1M
3712	GRAB	38	2477		PIPER, D.J.W.	ST. MARGARETS BAY	44.5780	-63.9460	3.7 M
3713	GRAB	39	2478		PIPER, D.J.W.	ST. MARGARETS BAY	44.5880	-63.9350	16.2M
3714	GRAB	40	2479		PIPER, D.J.W.	ST. MARGARETS BAY	44.5910	-63.9350	9.2 M
3715	GRAB	41	2480		PIPER, D.J.W.	ST. MARGARETS BAY	44.5880	-63.9300	18.3M
3716	GRAB	42	2481		PIPER, D.J.W.	ST. MARGARETS BAY	44.5810	-63.9350	18.3M
3717	GRAB	43	2482		PIPER, D.J.W.	ST. MARGARETS BAY	44.6340	-64.0260	3.7 M
3718	GRAB	44	2483		PIPER, D.J.W.	ST. MARGARETS BAY	44.6330	-64.0250	5.5 M
3719	GRAB	45	2484		PIPER, D.J.W.	ST. MARGARETS BAY	44.6330	-64.0250	7.3 M
3720	GRAB	46	2485		PIPER, D.J.W.	ST. MARGARETS BAY	44.6315	-64.0244	12.8M
3721	GRAB	47	2486		PIPER, D.J.W.	ST. MARGARETS BAY	44.6310	-64.0240	18.3M
3722	GRAB	48	2487		PIPER, D.J.W.	ST. MARGARETS BAY	44.6280	-64.0260	36.6M
3723	GRAB	49	2488		PIPER, D.J.W.	ST. MARGARETS BAY	44.6250	-64.0290	38.4M
3724	GRAB	50	2489		PIPER, D.J.W.	ST. MARGARETS BAY	44.6200	-64.0360	29.3
3725	GRAB	51	2490		PIPER, D.J.W.	ST. MARGARETS BAY	44.6130	-64.0420	16.5M
3726	GRAB	52	2491		PIPER, D.J.W.	ST. MARGARETS BAY	44.6170	-64.0460	24.7M
3727	GRAB	53	2492		PIPER, D.J.W.	ST. MARGARETS BAY	44.6260	-64.0560	11 M
3728	GRAB	54	2493		PIPER, D.J.W.	ST. MARGARETS BAY	44.6300	-64.0600	11 M
3729	GRAB	55	2494		PIPER, D.J.W.	ST. MARGARETS BAY	44.6330	-64.0630	11 M
3730	GRAB	56	2495		PIPER, D.J.W.	ST. MARGARETS BAY	44.6350	-64.0640	7.3 M
3731	GRAB	57	2496		PIPER, D.J.W.	ST. MARGARETS BAY	44.6370	-64.0620	8.2 M
3732	GRAB	58	2497		PIPER, D.J.W.	ST. MARGARETS BAY	44.6020	-64.0540	25.6M
3733	GRAB	59	2498		PIPER, D.J.W.	ST. MARGARETS BAY	44.6000	-64.0500	38.4M
3734	GRAB	60	2499		PIPER, D.J.W.	ST. MARGARETS BAY	44.6010	-64.0480	39.3M
3735	GRAB	61	2500		PIPER, D.J.W.	ST. MARGARETS BAY	44.6060	-64.0450	36.6M
3736	GRAB	62	2501		PIPER, D.J.W.	ST. MARGARETS BAY	44.6230	-64.0480	23.8M
3737	GRAB	63	2502		PIPER, D.J.W.	ST. MARGARETS BAY	44.6240	-64.0460	16.5M
3738	GRAB	64	2503		PIPER, D.J.W.	ST. MARGARETS BAY	44.6220	-64.0470	20.1M
3739	GRAB	65	2504		PIPER, D.J.W.	ST. MARGARETS BAY	44.6280	-64.0460	10.1M
3740	GRAB	66	2505		PIPER, D.J.W.	ST. MARGARETS BAY	44.6280	-64.0460	10.1M
3741	GRAB	67	2506		PIPER, D.J.W.	ST. MARGARETS BAY	44.6600	-63.9450	14.8M
3742	GRAB	68	2507		PIPER, D.J.W.	ST. MARGARETS BAY	44.6590	-63.9430	14.9M
3743	GRAB	69	2508		PIPER, D.J.W.	ST. MARGARETS BAY	44.6560	-63.9430	21 M
3744	GRAB	70	2509		PIPER, D.J.W.	ST. MARGARETS BAY	44.6540	-63.9410	17 M
3745	GRAB	71	2510		PIPER, D.J.W.	ST. MARGARETS BAY	44.6540	-63.9390	6 M
3746	GRAB	72	2511		PIPER, D.J.W.	ST. MARGARETS BAY	44.6560	-63.9490	6 M
3747	GRAB	73	2512		PIPER, D.J.W.	ST. MARGARETS BAY	44.6530	-63.9500	6 M
3748	GRAB	74	2513		PIPER, D.J.W.	ST. MARGARETS BAY	44.5540	-63.9690	49.4M
3749	GRAB	75	2514		PIPER, D.J.W.	ST. MARGARETS BAY	44.5510	-63.9710	45.8M
3750	GRAB	76	2515		PIPER, D.J.W.	ST. MARGARETS BAY	44.5510	-63.9710	45.8M
3751	GRAB	77	2516		PIPER, D.J.W.	ST. MARGARETS BAY	44.5440	-63.9650	38.4M
3753	GRAB	78	2518		PIPER, D.J.W.	ST. MARGARETS BAY	44.5430	-63.9680	43.9M
3754	GRAB	79	2519		PIPER, D.J.W.	ST. MARGARETS BAY	44.5420	-63.9710	53.1M
3755	GRAB	80	2520		PIPER, D.J.W.	ST. MARGARETS BAY	44.5390	-63.9760	62.2M
3756	GRAB	81	2521		PIPER, D.J.W.	ST. MARGARETS BAY	44.5360	-63.9780	64.1M
3757	GRAB	82	2522		PIPER, D.J.W.	ST. MARGARETS BAY	44.5297	-63.9759	54.9M
3758	GRAB	83	2523		PIPER, D.J.W.	ST. MARGARETS BAY	44.5270	-63.9760	53.1M
3759	GRAB	84	2524		PIPER, D.J.W.	ST. MARGARETS BAY	44.5240	-63.9730	38.4M
3760	GRAB	85	2525		PIPER, D.J.W.	ST. MARGARETS BAY	44.5190	-63.9730	40.3M
3761	GRAB	86	2526		PIPER, D.J.W.	ST. MARGARETS BAY	44.5150	-63.9730	40.3M
3762	GRAB	87	2527		PIPER, D.J.W.	ST. MARGARETS BAY	44.5110	-63.9730	38.4M
3763	GRAB	88	2528		PIPER, D.J.W.	ST. MARGARETS BAY	44.6470	-63.9490	20.1M
3764	GRAB	89	2529		PIPER, D.J.W.	ST. MARGARETS BAY	44.6460	-63.9500	113 M
3765	GRAB	90	2530		PIPER, D.J.W.	ST. MARGARETS BAY	44.6450	-63.9510	9.2 M
3766	GRAB	91	2531		PIPER, D.J.W.	ST. MARGARETS BAY	44.6430	-63.9530	7 M
3767	GRAB	92	2532		PIPER, D.J.W.	ST. MARGARETS BAY	44.6410	-63.9540	19 M
3768	GRAB	93	2533		PIPER, D.J.W.	ST. MARGARETS BAY	44.6400	-63.9560	14.6M
3769	GRAB	94	2534		PIPER, D.J.W.	ST. MARGARETS BAY	44.6350	-63.9610	26.2M

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
3770	GRAB	95	2535		PIPER, D.J.W.	ST. MARGARETS BAY	44.6420	-63.5740	22 M
3771	GRAB	96	2536		PIPER, D.J.W.	ST. MARGARETS BAY	44.6440	-63.9610	31.4M
3772	GRAB	97	2537		PIPER, D.J.W.	ST. MARGARETS BAY	44.6340	-64.0280	0 M
3773	GRAB	98	2538		PIPER, D.J.W.	ST. MARGARETS BAY	44.6340	-64.0280	0 M
3774	GRAB	99	2539		PIPER, D.J.W.	ST. MARGARETS BAY	44.6340	-64.0280	0 M
3775	GRAB	100	2540		PIPER, D.J.W.	ST. MARGARETS BAY	44.5600	-64.0040	67.8M
3776	GRAB	102	2541		PIPER, D.J.W.	ST. MARGARETS BAY	44.6560	-63.9540	54.8M
3777	GRAB	103	2542		PIPER, D.J.W.	ST. MARGARETS BAY	44.4889	-63.9542	53 M
3778	GRAB	104	2543		PIPER, D.J.W.	ST. MARGARETS BAY	44.4870	-63.9640	60.4M
3779	GRAB	105	2544		PIPER, D.J.W.	ST. MARGARETS BAY	44.4850	-63.9730	62.2M
3780	GRAB	106	2545		PIPER, D.J.W.	ST. MARGARETS BAY	44.4850	-63.9730	62.2M
3781	GRAB	107	2546		PIPER, D.J.W.	ST. MARGARETS BAY	44.4820	-63.9788	49.4M
3782	GRAB	108	2547		PIPER, D.J.W.	ST. MARGARETS BAY	44.4830	-63.9830	54.9M
3783	GRAB	109	2548		PIPER, D.J.W.	ST. MARGARETS BAY	44.5050	-63.9850	41.2M
3784	GRAB	110	2549		PIPER, D.J.W.	ST. MARGARETS BAY	44.5180	-63.9960	91.4M
3785	GRAB	111	2550		PIPER, D.J.W.	ST. MARGARETS BAY	44.5230	-63.9970	82.3M
3786	GRAB	112	2551		PIPER, D.J.W.	ST. MARGARETS BAY	44.5240	-63.9910	82.3M
3787	GRAB	113	2552		PIPER, D.J.W.	ST. MARGARETS BAY	44.5250	-63.9840	75 M
3788	GRAB	114	2553		PIPER, D.J.W.	ST. MARGARETS BAY	44.5260	-63.9790	67.7M
3789	GRAB	115	2554		PIPER, D.J.W.	ST. MARGARETS BAY	44.5310	-63.9880	73.2M
3790	GRAB	116	2555		PIPER, D.J.W.	ST. MARGARETS BAY	44.5480	-63.9860	60.4M
3791	GRAB	117	2556		PIPER, D.J.W.	ST. MARGARETS BAY	44.5640	-63.9930	64 M
3792	GRAB	118	2557		PIPER, D.J.W.	ST. MARGARETS BAY	44.5810	-63.9960	65.9M
3793	GRAB	119	2558		PIPER, D.J.W.	ST. MARGARETS BAY	44.5910	-63.0050	51.2M
3794	GRAB	120	2559		PIPER, D.J.W.	ST. MARGARETS BAY	44.6060	-64.0090	42.1M
3795	GRAB	121	2560		PIPER, D.J.W.	ST. MARGARETS BAY	44.6220	-64.0160	36.6M
3796	GRAB	122	2561		PIPER, D.J.W.	ST. MARGARETS BAY	44.4920	-63.9450	33 M
3797	GRAB	22	2562		PIPER, D.J.W.	ST. MARGARETS BAY	44.5620	-63.9900	
3798	GRAB	23	2563		PIPER, D.J.W.	ST. MARGARETS BAY	44.5630	-64.0150	
3799	GRAB	24	2564		PIPER, D.J.W.	ST. MARGARETS BAY	44.5620	-63.9980	
3800	GRAB	25	2565		PIPER, D.J.W.	ST. MARGARETS BAY	44.5470	-63.9700	
3801	GRAB	27	2566		PIPER, D.J.W.	ST. MARGARETS BAY	44.5430	-63.9830	
3802	GRAB	28	2567		PIPER, D.J.W.	ST. MARGARETS BAY	44.5300	-64.0000	
3803	GRAB	29	2568		PIPER, D.J.W.	ST. MARGARETS BAY	44.5300	-63.9870	
3805	GRAB	31	2570		PIPER, D.J.W.	ST. MARGARETS BAY	44.5870	-63.9970	
3806	GRAB	32	2571		PIPER, D.J.W.	ST. MARGARETS BAY	44.5870	-63.9630	
3807	GRAB	34	2572		PIPER, D.J.W.	ST. MARGARETS BAY	44.5780	-63.9970	
3808	GRAB	36	2573		PIPER, D.J.W.	ST. MARGARETS BAY	44.6080	-64.0130	
3809	GRAB	37	2574		PIPER, D.J.W.	ST. MARGARETS BAY	44.2160	-63.9700	
3810	GRAB	38	2575		PIPER, D.J.W.	ST. MARGARETS BAY	44.2160	-64.0030	
3811	GRAB	40	2576		PIPER, D.J.W.	ST. MARGARETS BAY	44.5970	-64.0380	
3812	GRAB	41	2577		PIPER, D.J.W.	ST. MARGARETS BAY	44.2160	-64.0180	
3813	GRAB	42	2578		PIPER, D.J.W.	ST. MARGARETS BAY	44.6070	-63.9920	
3814	GRAB	43	2579		PIPER, D.J.W.	ST. MARGARETS BAY	44.6170	-64.0430	
3815	GRAB	45	2580		PIPER, D.J.W.	ST. MARGARETS BAY	44.6170	-63.9980	
3816	GRAB	46	2581		PIPER, D.J.W.	ST. MARGARETS BAY	44.6330	-63.9750	
3817	GRAB	47	2582		PIPER, D.J.W.	ST. MARGARETS BAY	44.6270	-63.9880	
3818	GRAB	50	2583		PIPER, D.J.W.	ST. MARGARETS BAY	44.6270	-64.0100	
3821	CORE	2	2586	73-003	PIPER, D.J.W.	ST. MARGARETS BAY	44.5400	-64.0120	68 M
3822	CORE	3	2587	73-003	PIPER, D.J.W.	ST. MARGARETS BAY	44.5400	-64.0000	64 M
3823	CORE	4	2588	73-003	PIPER, D.J.W.	ST. MARGARETS BAY	44.5400	-63.9860	61 M
3824	CORE	5	2589	73-003	PIPER, D.J.W.	ST. MARGARETS BAY	44.5590	-64.0050	66 M
3825	CORE	6	2590	73-003	PIPER, D.J.W.	ST. MARGARETS BAY	44.3430	-64.0190	62 M
3826	CORE	7	2591	73-003	PIPER, D.J.W.	ST. MARGARETS BAY	44.5730	-63.9920	60 M
3827	CORE	40	2592		PIPER, D.J.W.	ST. MARGARETS BAY	44.5920	-64.0120	
3828	CORE	41	2593		PIPER, D.J.W.	ST. MARGARETS BAY	44.5970	-64.0220	
3829	CORE	42	2594		PIPER, D.J.W.	ST. MARGARETS BAY	44.6080	-63.9790	
3830	CORE	43	2595		PIPER, D.J.W.	ST. MARGARETS BAY	44.5850	-64.0410	
3831	CORE	44	2596		PIPER, D.J.W.	ST. MARGARETS BAY	44.6200	-64.0470	
3832	CORE	45	2597		PIPER, D.J.W.	ST. MARGARETS BAY	44.6200	-64.0470	
3833	CORE	46	2598		PIPER, D.J.W.	ST. MARGARETS BAY	44.6060	-63.9790	
3834	CORE	47	2599		PIPER, D.J.W.	ST. MARGARETS BAY	44.6100	-63.9780	
3835	CORE	48	2600		PIPER, D.J.W.	ST. MARGARETS BAY	44.6140	-63.9810	
3836	CORE	49	2601		PIPER, D.J.W.	ST. MARGARETS BAY	44.6180	-63.9790	
3837	CORE	50	2602		PIPER, D.J.W.	ST. MARGARETS BAY	44.6180	-63.9790	
3886	CORE	1	2651	79-002	PIPER, D.J.W.	SOUTH SHORE	44.6950	-63.6520	51 M
3895	CORE	28	2660	79-002	PIPER, D.J.W.	SOUTH SHORE	44.3250	-64.2170	
3896	CORE	29	2661	79-002	PIPER, D.J.W.	SOUTH SHORE	44.3250	-64.2170	
3897	CORE	30	2662	79-002	PIPER, D.J.W.	SOUTH SHORE	44.3360	-64.2100	
3898	CORE	31	2663	79-002	PIPER, D.J.W.	SOUTH SHORE	44.3270	-64.2450	
3899	CORE	32	2663	79-002	PIPER, D.J.W.	SOUTH SHORE	44.3270	-64.2450	
3900	CORE	33	2664	79-002	PIPER, D.J.W.	SOUTH SHORE	44.3090	-64.2370	
3901	CORE	34	2665	79-002	PIPER, D.J.W.	SOUTH SHORE	44.3060	-64.2170	
3902	CORE	35	2666	79-002	PIPER, D.J.W.	SOUTH SHORE	44.3060	-64.2170	
3903	CORE	36	2667	79-002	PIPER, D.J.W.	SOUTH SHORE	44.6210	-64.0260	
3904	CORE	37	2668	79-002	PIPER, D.J.W.	SOUTH SHORE	44.6210	-64.0260	
3905	CORE	38	2669	79-002	PIPER, D.J.W.	SOUTH SHORE	44.6280	-64.0090	
3906	CORE	39	2670	79-002	PIPER, D.J.W.	SOUTH SHORE	44.4350	-64.1950	
3907	CORE	40	2671	79-002	PIPER, D.J.W.	SOUTH SHORE	44.4500	-64.2030	56 M
3908	CORE	41	2672	79-002	PIPER, D.J.W.	SOUTH SHORE	44.4590	-64.2090	76 M
3909	CORE	42	2673	79-002	PIPER, D.J.W.	SOUTH SHORE	44.4700	-64.2130	50 M
3910	CORE	43	2674	79-002	PIPER, D.J.W.	SOUTH SHORE	44.4888	-64.2017	45 M

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
3911	CORE	44	2675	79-002	PIPER, D.J.W.	SOUTH SHORE	44.5000	-64.1900	47 M
3912	CORE	63	2676	79-002	PIPER, D.J.W.	SOUTH SHORE	44.4210	-63.5860	
3913	CORE	64	2677	79-002	PIPER, D.J.W.	SOUTH SHORE	44.4270	-63.5860	
3914	CORE	65	2678	79-002	PIPER, D.J.W.	SOUTH SHORE	44.4190	-63.5770	
3915	CORE	66	2679	79-002	PIPER, D.J.W.	SOUTH SHORE	44.4380	-63.5200	
3916	CORE	67	2680	79-002	PIPER, D.J.W.	SOUTH SHORE	44.6990	-63.6450	72 M
3917	CORE	98	101	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.3280	-64.2470	18 M
3918	CORE	99	102	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.3230	-64.2450	18 M
3919	CORE	100	103	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.3250	-64.2170	24 M
3920	CORE	101	104	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.2970	-64.2030	33 M
3921	GRAB	102	106	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.2700	-64.2000	52 M
3922	CORE	103	107	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.2590	-64.2080	52 M
3923	GRAB	104	109	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.2000	-64.2100	64 M
3924	CORE	105	110	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.2250	-64.2080	64 M
3925	GRAB	106	111	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.2133	-64.2083	63 M
3926	CORE	107	112	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.1930	-64.2130	60 M
3927	CORE	108	113	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.1970	-64.1930	62 M
3928	CORE	109	114	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.0300	-64.1920	62.5M
3929	CORE	110	115	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.0300	-64.2000	62 M
3930	CORE	111	116	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.0300	-64.2080	65 M
3931	CORE	112	117	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.0420	-64.2100	65 M
3932	GRAB	113	118	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.0420	-64.2100	65 M
3933	GRAB	114	119	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.0420	-64.2000	50 M
3934	CORE	115	120	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.1780	-64.1800	50 M
3935	CORE	116	121	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.1730	-64.1780	44 M
3936	CORE	117A,C	122	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.2100	-64.1730	43 M
3937	GRAB	117B	"	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.2100	-64.1233	43 M
3938	CORE	118	123	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.3110	-64.0520	44 M
3939	GRAB	119	125	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.3667	-64.1408	14 M
3940	GRAB	120	126	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.3840	-64.1590	11 M
3941	GRAB	121	127	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4180	-64.1680	?
3942	GRAB	122	128	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4190	-64.1870	16 M
3943	GRAB	123	129	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4330	-64.1920	26 M
3947	GRAB	127	133	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4530	-64.0700	15 M
3948	GRAB	128	134	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4440	-64.0430	19 M
3949	GRAB	129	136	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4210	-64.0060	?
3962	GRAB	142	154	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.3300	-63.9620	82 M
3963	GRAB	143	155	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.3590	-63.9780	58 M
3964	GRAB	144	156	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.3900	-63.9720	52 M
3965	GRAB	145	157	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4000	-63.9690	52 M
3966	GRAB	146	158	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4060	-63.9680	52 M
3967	GRAB	147	160	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4420	-63.9530	50 M
3968	GRAB	148	161	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4520	-63.9510	60 M
3969	GRAB	149	162	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4690	-63.9500	54 M
3970	GRAB	150	163	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4790	-63.9520	54 M
3971	GRAB	151	164	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4910	-63.9540	55 M
3972	GRAB	152	165	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.4990	-63.9580	54 M
3973	GRAB	153	166	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.5180	-63.9750	80 M
3974	GRAB	154	167	78-005DAWSON	PIPER, D.J.W.	SOUTH SHORE	44.5300	-63.9680	70 M
4028	GRAB	54	2792	513-78	PIPER, D.J.W.	SOUTH SHORE	43.8390	-63.7800	29 M
4160	GRAB	N-19-2	692		SONNICHSEN, G.	TERMINAL BEACH	44.6250	-63.3029	
4161	GRAB	0-7-3	693		SONNICHSEN, G.	HARTLEN POINT	44.5912	-63.4455	
4162	GRAB	D82	694		SONNICHSEN, G.	TERMINAL BEACH	44.6318	-63.3089	
4180	GRAB	001	712		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6602	-63.1450	21 M
4181	GRAB	002	713		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6606	-63.1419	21 M
4182	GRAB	003	714		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6611	-63.1381	22 M
4183	GRAB	004	715		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6611	-63.1381	22 M
4184	GRAB	005	716		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6634	-63.1180	18 M
4185	GRAB	006	717		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6646	-63.1080	18 M
4186	GRAB	007	718		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6656	-63.0996	17 M
4187	GRAB	008	719		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6556	-63.1092	23 M
4188	GRAB	009	720		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6505	-63.1138	24 M
4189	GRAB	010	721		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6427	-63.1211	27 M
4190	GRAB	011	722		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6390	-63.1255	30 M
4191	GRAB	012	723		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6369	-63.1298	32 M
4192	GRAB	013	724		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6312	-63.1398	34 M
4193	GRAB	014	725		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6207	-63.1399	32 M
4194	GRAB	015	726		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6252	-63.1273	37 M
4195	GRAB	016	727		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6271	-63.1228	37 M
4196	GRAB	017	728		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6289	-63.1170	35 M
4197	GRAB	018	729		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6319	-63.1107	34 M
4198	GRAB	019	730		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6362	-63.1160	32 M
4199	GRAB	020	731		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6501	-63.1382	25 M
4200	GRAB	021	732		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6496	-63.1449	23 M
4201	GRAB	022	733		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6451	-63.1744	23 M
4202	GRAB	023	734		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6389	-63.3326	5 M
4203	GRAB	024	735		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6200	-63.3304	18 M
4204	GRAB	025	736		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6130	-63.3291	21 M
4205	GRAB	026	737		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5949	-63.3264	26 M
4206	GRAB	027	738		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5856	-63.3252	31 M
4207	GRAB	028	739		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5800	-63.3243	39 M
4208	GRAB	029	740		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6186	-63.1757	36 M

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4209	GRAB	030	741		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6148	-63.1735	37 M
4210	GRAB	031	742		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6066	-63.1699	39 M
4211	GRAB	032	743		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6015	-63.1670	46 M
4212	GRAB	033	744		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5992	-63.1676	46 M
4213	GRAB	034	745		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5960	-63.1717	46 M
4214	GRAB	035	746		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5941	-63.1743	47 M
4215	GRAB	036	747		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5927	-63.1766	48 M
4216	GRAB	037	748		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5893	-63.1815	48 M
4217	GRAB	038	649		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5791	-63.1974	51 M
4218	GRAB	039	750		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5890	-63.3025	32 M
4219	GRAB	040	751		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5890	-63.3025	32 M
4220	GRAB	041	752		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5878	-63.3100	34 M
4221	GRAB	042	753		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5863	-63.3190	32 M
4222	GRAB	043	754		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5856	-63.3235	34 M
4223	GRAB	044	755		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5745	-63.3069	38 M
4224	GRAB	045	756		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5777	-63.2935	37 M
4225	GRAB	046	757		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6069	-63.2698	22 M
4226	GRAB	047	758		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6235	-63.1313	22 M
4227	GRAB	048	759		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6325	-63.1322	28 M
4228	GRAB	049	760		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6446	-63.1325	28 M
4229	GRAB	050	761		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6499	-63.1327	26 M
4230	GRAB	051	762		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6564	-63.1330	24 M
4231	GRAB	052	763		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6632	-63.1332	19 M
4232	GRAB	053	764		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6693	-63.1332	21 M
4233	GRAB	054	765		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6728	-63.1335	19 M
4234	GRAB	055	766		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6763	-63.1335	17 M
4235	GRAB	056	767		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6788	-63.1336	14 M
4236	GRAB	057	768		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6815	-63.1341	14 M
4237	GRAB	058	769		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6843	-63.1341	11 M
4238	GRAB	059	770		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6867	-63.1339	9 M
4239	GRAB	060	771		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6886	-63.1340	8 M
4240	GRAB	061	772		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5971	-63.2209	38 M
4241	GRAB	062	773		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6169	-63.2356	30 M
4242	GRAB	063	774		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6209	-63.2377	22 M
4243	GRAB	064	775		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6257	-63.2402	22 M
4244	GRAB	065	776		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6411	-63.2469	14 M
4245	GRAB	066	777		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6589	-63.2348	3 M
4246	GRAB	067	778		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6338	-63.4016	5 M
4247	GRAB	068	779		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6294	-63.3943	9 M
4248	GRAB	069	780		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6254	-63.3876	11 M
4249	GRAB	070	781		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6203	-63.3794	15 M
4250	GRAB	071	782		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6148	-63.3696	17 M
4251	GRAB	072	783		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6088	-63.3593	21 M
4252	GRAB	073	784		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.6045	-63.3519	23 M
4253	GRAB	074	785		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5985	-63.3429	26 M
4254	GRAB	075	786		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5954	-63.3363	26 M
4255	GRAB	076	787		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5916	-63.3293	24 M
4256	GRAB	077	788		EASTON, J.	HARTLEN PT.& JEDDORE CP	44.5882	-63.3234	32 M
4381	DRILL	6/9/68-1	912		LIBBY, F.M.	OVENS PENNISULA	44.3484	-64.2636	
4382	DRILL	6/9/68-2	913		LIBBY, F.M.	OVENS PENNISULA	44.3484	-64.2636	
4383	DRILL	6/9/68-3	914		LIBBY, F.M.	OVENS PENNISULA	44.3484	-64.2636	
4384	DRILL	6/9/68-4	915		LIBBY, F.M.	OVENS PENNISULA	44.3484	-64.2636	
4385	DRILL	6/9/68-5	916		LIBBY, F.M.	OVENS PENNISULA	44.3484	-64.2636	
4386	DRILL	6/9/68-6	917		LIBBY, F.M.	OVENS PENNISULA	44.3484	-64.2636	
4387	DRILL	6/9/68-7	918		LIBBY, F.M.	OVENS PENNISULA	44.3484	-64.2636	
4388	DRILL	6/9/68-8	919		LIBBY, F.M.	OVENS PENNISULA	44.3484	-64.2636	
4389	DRILL	6/9/68-9	920		LIBBY, F.M.	OVENS PENNISULA	44.3484	-64.2636	
4390	DRILL	6/10/68-5	921		LIBBY, F.M.	OVENS PENNISULA	44.3179	-64.2591	
4391	DRILL	6/10/68-6	922		LIBBY, F.M.	OVENS PENNISULA	44.3180	-64.2585	
4392	DRILL	6/10/68-7	923		LIBBY, F.M.	OVENS PENNISULA	44.3182	-64.2578	
4393	DRILL	6/10/68-8	924		LIBBY, F.M.	OVENS PENNISULA	44.3184	-64.2570	
4394	DRILL	6/10/68-9	925		LIBBY, F.M.	OVENS PENNISULA	44.3185	-64.2566	
4395	DRILL	6/10/68-13	926		LIBBY, F.M.	OVENS PENNISULA	44.3190	-64.2540	
4396	DRILL	6/9/68-14	927		LIBBY, F.M.	OVENS PENNISULA	44.3192	-64.2532	
4397	DRILL	6/9/68-15	928		LIBBY, F.M.	OVENS PENNISULA	44.3193	-64.2527	
4398	DRILL	6/10/68-16	929		LIBBY, F.M.	OVENS PENNISULA	44.3318	-64.1416	
4399	DRILL	6/10/68-17	930		LIBBY, F.M.	OVENS PENNISULA	44.3318	-64.1416	
4400	DRILL	6/11/68-1	931		LIBBY, F.M.	CROSS ISLAND	44.3266	-64.1448	
4401	DRILL	6/11/68-2	932		LIBBY, F.M.	CROSS ISLAND	44.3266	-64.1443	
4402	DRILL	6/11/68-3	933		LIBBY, F.M.	CROSS ISLAND	44.3266	-64.1430	
4403	DRILL	6/11/68-4	934		LIBBY, F.M.	CROSS ISLAND	44.3266	-64.1425	
4404	DRILL	6/11/68-6	935		LIBBY, F.M.	CROSS ISLAND	44.3190	-64.1689	
4405	DRILL	6/12/68-1	936		LIBBY, F.M.	LUNENBURG BAY	44.3376	-64.2594	
4406	DRILL	6/12/68-2	937		LIBBY, F.M.	LUNENBURG BAY	44.3376	-64.2594	
4407	DRILL	6/12/68-3	938		LIBBY, F.M.	ROSE BAY	44.3001	-64.2519	
4408	DRILL	6/12/68-4	939		LIBBY, F.M.	OVENS PENNISULA	44.3180	-64.2602	
4409	DRILL	6/12/68-5	940		LIBBY, F.M.	OVENS PENNISULA	44.3182	-64.2595	
4410	DRILL	6/12/68-6	941		LIBBY, F.M.	OVENS PENNISULA	44.3184	-64.2587	
4411	DRILL	6/13/68-1	942		LIBBY, F.M.	LUNENBURG BAY	44.3291	-64.2248	
4412	DRILL	6/13/68-2	943		LIBBY, F.M.	LUNENBURG BAY	44.3282	-64.2213	
4413	DRILL	6/13/68-3	944		LIBBY, F.M.	LUNENBURG BAY	44.3058	-64.2316	
4414	DRILL	6/14/68-1	945		LIBBY, F.M.	LUNENBURG BAY	44.3488	-64.2876	

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
4415	DRILL	6/14/68-2	946		LIBBY, F.M.	LUNENBURG BAY	44.3488	-64.2876	
4416	DRILL	6/14/68-3	947		LIBBY, F.M.	LUNENBURG BAY	44.3119	-64.2795	
4417	DRILL	6/14/68-4	948		LIBBY, F.M.	LUNENBURG BAY	44.3116	-64.2773	
4418	DRILL	6/14/68-5	949		LIBBY, F.M.	LUNENBURG BAY	44.3111	-64.2750	
4419	DRILL	6/14/68-6	950		LIBBY, F.M.	LUNENBURG BAY	44.3116	-64.2494	
4420	DRILL	6/15/68-1	951		LIBBY, F.M.	OVENS PENNISULA	44.3217	-64.2705	
4421	DRILL	6/15/68-2	952		LIBBY, F.M.	OVENS PENNISULA	44.3207	-64.2706	
4422	DRILL	6/15/68-3	953		LIBBY, F.M.	OVENS PENNISULA	44.3200	-64.2664	
4423	DRILL	6/15/68-4	954		LIBBY, F.M.	OVENS PENNISULA	44.3206	-64.2665	
4424	DRILL	6/15/68-5	955		LIBBY, F.M.	OVENS PENNISULA	44.3212	-64.2665	
4425	DRILL	6/15/68-6	956		LIBBY, F.M.	OVENS PENNISULA	44.3217	-64.2666	
4426	DRILL	6/15/68-7	957		LIBBY, F.M.	OVENS PENNISULA	44.3223	-64.2665	
4429	DRILL	6/16/68-1	960		LIBBY, F.M.	ROSE POINT	44.2841	-64.2302	
4430	DRILL	6/16/68-2	961		LIBBY, F.M.	MOSHER ISLAND	44.2396	-64.3055	
4431	DRILL	6/16/68-3	962		LIBBY, F.M.	MOSHER ISLAND	44.0000	-64.3055	
4431	DRILL	6/16/68-3	962		LIBBY, F.M.	MOSHER ISLAND	44.0000	-64.3055	
4432	DRILL	6/17/68-1	963		LIBBY, F.M.	JEDDORE HARBOUR	44.6738	-62.9979	
4433	DRILL	6/17/68-2	964		LIBBY, F.M.	JEDDORE HARBOUR	44.6783	-62.9980	21 M
4434	DRILL	6/18/68-1	965		LIBBY, F.M.	JEDDORE HARBOUR	44.6904	-62.9870	15 M
4435	DRILL	6/18/68-2	966		LIBBY, F.M.	SELLERS HEAD	44.6565	-63.2444	13 M
4436	DRILL	6/19/68-1	967		LIBBY, F.M.	JEDDORE HARBOUR	44.7077	-63.0143	10 M
4437	DRILL	6/19/68-2	968		LIBBY, F.M.	JEDDORE HARBOUR	44.7077	-63.0143	10 M
4438	DRILL	6/19/68-3	969		LIBBY, F.M.	PORTER ISLAND	44.6835	-62.8551	17 M
4439	DRILL	6/19/68-4	970		LIBBY, F.M.	PORTER ISLAND	44.6852	-62.8524	18 M
4440	DRILL	6/19/68-5	971		LIBBY, F.M.	PORTER ISLAND	44.6861	-62.8512	23 M
4441	DRILL	6/19/68-6	972		LIBBY, F.M.	PORTER ISLAND	44.6866	-62.8503	23 M
4442	DRILL	6/20/68-1	973		LIBBY, F.M.	ROACH ISLAND	44.8361	-62.5203	17 M
4443	DRILL	6/20/68-2	974		LIBBY, F.M.	SHEET ROCK	44.7866	-62.4781	36 M
4444	DRILL	6/20/68-3	975		LIBBY, F.M.	PSYCHE ISLAND	44.7973	-62.5287	24 M
4445	DRILL	6/21/68-1	976		LIBBY, F.M.	SALMON ISLAND	44.8814	-62.4883	25 M
4446	DRILL	6/21/68-2	977		LIBBY, F.M.	SALMON ISLAND	44.8814	-62.4883	24 M
4447	DRILL	6/21/68-3	978		LIBBY, F.M.	SHEET ROCK	44.8406	-62.4957	24 M
4448	DRILL	6/21/68-4	979		LIBBY, F.M.	MUSHABOOM HARBOUR	44.8502	-62.5500	12 M
4449	DRILL	6/21/68-5	980		LIBBY, F.M.	MUSHABOOM HARBOUR	44.8502	-62.5500	11 M
4450	DRILL	6/22/68-1	981		LIBBY, F.M.	SEAL HARBOUR	45.1452	-61.5792	13 M
4451	DRILL	6/22/68-2	982		LIBBY, F.M.	SEAL HARBOUR	45.1452	-61.5792	14 M
4452	DRILL	6/22/68-3	983		LIBBY, F.M.	SEAL HARBOUR	45.1452	-61.5792	15 M
4453	DRILL	6/22/68-4	984		LIBBY, F.M.	JKE SOUND	45.1260	-61.5867	24 M
4454	DRILL	6/23/68-1	985		LIBBY, F.M.	ISAACS HARBOUR	45.1688	-61.6447	10 M
4455	DRILL	6/23/68-2	986		LIBBY, F.M.	ISAACS HARBOUR	45.1688	-61.6447	10 M
4456	DRILL	6/23/68-3	987		LIBBY, F.M.	ISAACS HARBOUR	45.1688	-61.6447	10 M
4457	DRILL	6/23/68-4	988		LIBBY, F.M.	ISAACS HARBOUR	45.0939	-61.6317	37 M
4458	DRILL	6/23/68-6	989		LIBBY, F.M.	DOME	45.0933	-61.6327	37 M
4459	DRILL	6/23/68-7	990		LIBBY, F.M.	DOME	45.2410	-61.7688	27 M
4460	DRILL	6/24/68-1	991		LIBBY, F.M.	DOME	45.1612	-61.6734	32 M
4466	DRILL	6/25/68-1	997		LIBBY, F.M.	INDIAN HARBOUR	44.4130	-64.3363	18 M
4467	DRILL	6/25/68-2	998		LIBBY, F.M.	INDIAN HARBOUR	44.4180	-64.3722	15 M
4472	DRILL	6/26/68-2	1003		LIBBY, F.M.	JEDDORE HEAD	44.6745	-63.0682	12 M
4473	DRILL	6/26/68-3	1004		LIBBY, F.M.	JEDDORE HEAD	44.6751	-63.0703	12 M
4475	DRILL	6/26/68-5	1006		LIBBY, F.M.	PETPESWICK	44.6791	-63.1864	7 M
4484	DRILL	7/4/68-1	1015		LIBBY, F.M.	S. LOCKEPORT	43.6801	-64.1118	11 M
4484	DRILL	7/4/68-1	1015		LIBBY, F.M.	S. LOCKEPORT	43.6801	-64.1118	11 M
4488	DRILL	7/5/68-1	1019		LIBBY, F.M.	OVENS PENNINSULA	44.3197	-64.2580	9-14M
4489	DRILL	7/5/68-2	1020		LIBBY, F.M.	OVENS PENNINSULA	44.3196	-64.2571	9-14M
4490	DRILL	7/5/68-3	1021		LIBBY, F.M.	OVENS PENNINSULA	44.3195	-64.2561	9-14M
4491	DRILL	7/5/68-4	1022		LIBBY, F.M.	OVENS PENNINSULA	44.3194	-64.2551	9-14M
4492	DRILL	7/5/68-5	1023		LIBBY, F.M.	OVENS PENNINSULA	44.3193	-64.2541	9-14M
4493	DRILL	7/5/68-6	1024		LIBBY, F.M.	OVENS PENNINSULA	44.3191	-64.2532	9-14M
4494	DRILL	7/5/68-7	1025		LIBBY, F.M.	OVENS PENNINSULA	44.3190	-64.2522	9-14M
4495	DRILL	7/5/68-8	1026		LIBBY, F.M.	OVENS PENNINSULA	44.3189	-64.2512	9-14M
4496	DRILL	7/5/68-9	1027		LIBBY, F.M.	OVENS PENNINSULA	44.3188	-64.2502	9-14M
4497	DRILL	7/5/68-10	1028		LIBBY, F.M.	OVENS PENNINSULA	44.3187	-64.2493	9-14M
4498	DRILL	7/5/68-11	1029		LIBBY, F.M.	OVENS PENNINSULA	44.3186	-64.2483	9-14M
4499	DRILL	7/5/68-12	1030		LIBBY, F.M.	OVENS PENNINSULA	44.3185	-64.2473	9-14M
4500	DRILL	7/5/68-13	1031		LIBBY, F.M.	OVENS PENNINSULA	44.3184	-64.2463	9-14M
4501	DRILL	7/5/68-14	1032		LIBBY, F.M.	OVENS PENNINSULA	44.3182	-64.2453	9-14M
4502	DRILL	7/5/68-15	1033		LIBBY, F.M.	OVENS PENNINSULA	44.3182	-64.2444	9-14M
4503	DRILL	7/5/68-16	1034		LIBBY, F.M.	OVENS PENNINSULA	44.3217	-64.2609	16 M
4504	DRILL	7/5/68-17	1035		LIBBY, F.M.	OVENS PENNINSULA	44.3220	-64.2611	16 M
4505	DRILL	7/5/68-18	10		LIBBY, F.M.	OVENS PENNINSULA	44.3222	-64.2613	17 M
4506	DRILL	7/5/68-19	1037		LIBBY, F.M.	OVENS PENNINSULA	44.3225	-64.2614	17 M
4507	DRILL	7/5/68-20	1038		LIBBY, F.M.	OVENS PENNINSULA	44.3228	-64.2616	18 M
4508	DRILL	7/5/68-21	1039		LIBBY, F.M.	OVENS PENNINSULA	44.3231	-64.2616	18 M
4509	DRILL	7/5/68-22	1040		LIBBY, F.M.	OVENS PENNINSULA	44.3233	-64.2618	18 M
4510	DRILL	7/5/68-23	1041		LIBBY, F.M.	OVENS PENNINSULA	44.3236	-64.2620	18 M
4511	DRILL	7/5/68-24	1042		LIBBY, F.M.	OVENS PENNINSULA	44.3239	-64.2623	18 M
4512	DRILL	7/5/68-25	1043		LIBBY, F.M.	OVENS PENNINSULA	44.3242	-64.2623	18 M
4513	DRILL	7/6/68-1	1044		LIBBY, F.M.	LUNENBURG BAY	44.3520	-64.2908	15 M
4514	DRILL	7/6/68-2	1045		LIBBY, F.M.	LUNENBURG BAY	44.3412	-64.2712	18 M
4515	DRILL	7/6/68-3	1046		LIBBY, F.M.	LUNENBURG BAY	44.3412	-64.2700	18 M
4516	DRILL	7/6/68-4	1047		LIBBY, F.M.	LUNENBURG BAY	44.3212	-64.2499	18 M
4517	DRILL	7/6/68-5	108		LIBBY, F.M.	LUNENBURG BAY	44.3210	-64.2488	18 M

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
4518	DRILL	7/6/68-6	1040		LIBBY, F.M.	LUNENBURG BAY	44.3208	-64.2474	18 M
4519	DRILL	7/7/68-1	1041		LIBBY, F.M.	OVENS PENINSULA	44.3311	-64.2622	20 M
4520	DRILL	7/7/68-2	1042		LIBBY, F.M.	OVENS PENINSULA	44.3214	-64.2657	20 M
4521	DRILL	7/7/68-3	1043		LIBBY, F.M.	OVENS PENINSULA	44.3219	-64.2632	20 M
4522	DRILL	7/7/68-4	1044		LIBBY, F.M.	OVENS PENINSULA	44.3224	-64.2607	20 M
4523	DRILL	7/7/68-5	1045		LIBBY, F.M.	OVENS PENINSULA	44.3229	-64.2582	18 M
4524	DRILL	7/7/68-6	1046		LIBBY, F.M.	OVENS PENINSULA	44.3234	-64.2558	18 M
4525	DRILL	7/7/68-8	1047		LIBBY, F.M.	OVENS PENINSULA	44.3237	-64.2541	16 M
4526	DRILL	7/7/68-9	1048		LIBBY, F.M.	OVENS PENINSULA	44.3117	-64.3178	11 M
4527	DRILL	7/7/68-10	1049		LIBBY, F.M.	MAHONE BAY	44.3671	-64.1978	16 M
4528	DRILL	7/8/68-1	1050		LIBBY, F.M.	G. TANCOOK ISLAND	44.4487	-64.1114	17 M
4529	DRILL	7/8/68-2	1051		LIBBY, F.M.	HELL RACKETS	44.3985	-64.1616	22 M
4530	DRILL	7/8/68-3	1052		LIBBY, F.M.	HELL RACKETS	44.4094	-64.1755	22 M
4531	DRILL	7/8/68-4	1053		LIBBY, F.M.	GOLD RIVER	44.5399	-64.2497	13 M
4532	DRILL	7/9/68-1	1054		LIBBY, F.M.	TANNER ISLAND	44.3673	-64.1950	16 M
4533	DRILL	7/9/68-2	1055		LIBBY, F.M.	OVENS PENINSULA	44.3669	-64.1942	16 M
4534	DRILL	7/9/68-3	1056		LIBBY, F.M.	OVENS PENINSULA	44.3115	-64.3077	12 M
4535	DRILL	7/9/68-4	1057		LIBBY, F.M.	OVENS PENINSULA	44.3116	-64.3060	12 M
4536	DRILL	7/9/68-5	1058		LIBBY, F.M.	OVENS PENINSULA	44.3118	-64.3043	12 M
4537	DRILL	7/9/68-6	1059		LIBBY, F.M.	OVENS PENINSULA	44.3119	-64.3026	13 M
4538	DRILL	7/9/68-7	1060		LIBBY, F.M.	OVENS PENINSULA	44.3120	-64.3009	13 M
4539	DRILL	7/9/68-8	1061		LIBBY, F.M.	OVENS PENINSULA	44.3122	-64.2992	13 M
4540	DRILL	7/9/68-9	1062		LIBBY, F.M.	OVENS PENINSULA	44.3123	-64.2976	12 M
4541	DRILL	7/9/68-10	10		LIBBY, F.M.	OVENS PENINSULA	44.3125	-64.2959	13 M
4542	DRILL	7/9/68-11	1065		LIBBY, F.M.	OVENS PENINSULA	44.3126	-64.2942	14 M
4543	DRILL	7/9/68-12	1066		LIBBY, F.M.	OVENS PENINSULA	44.3128	-64.2926	12 M
4544	DRILL	7/10/68-1	1067		LIBBY, F.M.	OVENS PENINSULA	44.3095	-64.3191	16 M
4545	DRILL	7/10/68-2	1068		LIBBY, F.M.	OVENS PENINSULA	44.3096	-64.3172	16 M
4546	DRILL	7/10/68-3	1069		LIBBY, F.M.	OVENS PENINSULA	44.3097	-64.3154	16 M
4547	DRILL	7/10/68-4	1070		LIBBY, F.M.	OVENS PENINSULA	44.3099	-64.3136	16 M
4548	DRILL	7/10/68-5	1071		LIBBY, F.M.	OVENS PENINSULA	44.3123	-64.3076	
4549	DRILL	7/10/68-6	1072		LIBBY, F.M.	OVENS PENINSULA	44.3117	-64.3068	
4550	DRILL	7/10/68-7	1073		LIBBY, F.M.	OVENS PENINSULA	44.3112	-64.3060	12 M
4551	DRILL	7/11/68-1	1074		LIBBY, F.M.	COLE HARBOR	44.6311	-63.4008	7 M
4552	DRILL	7/12/68-1	1075		LIBBY, F.M.	SHIP HARBOR	44.7752	-62.8089	20 M
4553	DRILL	7/12/68-2	1076		LIBBY, F.M.	MUSHABOOM ABR	44.7706	-62.7002	10 M
4554	DRILL	7/12/68-3	1077		LIBBY, F.M.	MUSHABOOM ABR	44.7706	-62.7002	10 M
4555	DRILL	7/13/68-1	1078		LIBBY, F.M.	SPRY HARBOR	44.8263	-62.6176	10 M
4556	DRILL	7/13/68-3	1079		LIBBY, F.M.	BALTEE ISLAND	44.3378	-64.2015	
4557	DRILL	7/13/68-4	1080		LIBBY, F.M.	BALTEE ISLAND	44.7189	-62.9376	12 M
4559	DRILL	7/14/68-1	1082		LIBBY, F.M.	SAMBRO BAY	44.4686	-63.5790	17 M
4560	DRILL	7/14/68-2	1083		LIBBY, F.M.	SAMBRO BAY	44.4501	-63.5852	26 M
4561	DRILL	7/16/68-1	1084		LIBBY, F.M.	HALIFAX HARBOUR	44.6171	-63.5002	15 M
4588	DRILL	7/25/68-2	1111		LIBBY, F.M.	CHEZETCOOK	44.4936	-62.5372	10 M
4589	DRILL	7/26/68-2	1112		LIBBY, F.M.	CHEZETCOOK	44.6645	-63.2390	10 M
4591	GRAB	8/2/68-1	1114		LIBBY, F.M.	OVENS PENINSULA	44.3128	-64.2724	12 M
4592	GRAB	8/3/68-1	1115		LIBBY, F.M.	OVENS PENINSULA	44.3129	-64.2746	6 M
4593	GRAB	8/3/68-2	1116		LIBBY, F.M.	OVENS PENINSULA	44.3105	-64.2787	9 M
4594	CAMERA	8/3/68-3	1117		LIBBY, F.M.	OVENS PENINSULA	44.3221	-64.2505	20 M
4595	GRAB	8/3/68-3	1118		LIBBY, F.M.	OVENS PENINSULA	44.3221	-64.2505	20 M
4596	GRAB	8/3/68-4	1119		LIBBY, F.M.	OVENS PENINSULA	44.3178	-64.2510	
4597	CAMERA	8/3/68-4	1120		LIBBY, F.M.	OVENS PENINSULA	44.3178	-64.2510	
4598	CAMERA	8/6/68-1	1121		LIBBY, F.M.	ISAACS HARBOUR	45.0896	-61.5848	30 M
4599	GRAB	8/6/68-1	1122		LIBBY, F.M.	ISAACS HARBOUR	45.0896	-61.5848	
4600	GRAB	8/6/68-2	1140		LIBBY, F.M.	ISAACS HARBOUR	45.0794	-61.5907	29 M
4601	CAMERA	8/6/68-2	1141		LIBBY, F.M.	ISAACS HARBOUR	45.0794	-61.5907	29 M
4602	GRAB	8/6/68-3	1142		LIBBY, F.M.	ISAACS HARBOUR	45.0776	-61.5931	30 M
4603	CAMERA	8/6/68-3	1143		LIBBY, F.M.	ISAACS HARBOUR	45.0776	-61.5931	30 M
4604	GRAB	8/8/68-1	1144		LIBBY, F.M.	ISAACS HARBOUR	45.0855	-61.5988	37 M
4605	CAMERA	8/8/68-1	1145		LIBBY, F.M.	ISAACS HARBOUR	45.0855	-61.5988	37 M
4606	GRAB	8/8/68-2	1146		LIBBY, F.M.	ISAACS HARBOUR	45.0817	-61.5956	30 M
4607	GRAB	8/8/68-3	1147		LIBBY, F.M.	ISAACS HARBOUR	45.0802	-61.5896	30 M
4611	GRAB	8/11/68-1	1151		LIBBY, F.M.	OVENS PORK	44.3157	-64.2963	0 M
4612	CORE	8/11/68-2	1152		LIBBY, F.M.	OVENS PORK	44.3189	-64.2972	1 M
4613	CORE	8/11/68-3	1153		LIBBY, F.M.	CONRAD ISLAND	44.3218	-64.3126	0 M
4617	DREDGE	110	1157		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0768	-61.6974	
4618	DREDGE	111	1158		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0741	-61.6984	
4619	DREDGE	115	1159		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0825	-61.6834	
4620	DREDGE	116	1160		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0772	-61.6803	
4621	DREDGE	117	1161		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0833	-61.6827	
4622	DREDGE	118	1162		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0737	-61.6842	
4623	DREDGE	119	1163		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0659	-61.6795	
4624	DREDGE	121	1164		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0619	-61.6558	
4625	DREDGE	122	1165		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0686	-61.6581	
4626	DREDGE	123	1166		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0758	-61.6567	
4627	DREDGE	124	1168		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0795	-61.6573	
4628	DREDGE	126	1169		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0707	-61.7063	
4629	DREDGE	129	1170		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0652	-61.7302	
4630	DREDGE	132	1171		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0705	-61.7394	
4631	DREDGE	133	1172		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0788	-61.7387	
4632	DREDGE	134	1173		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0844	-61.7529	
4633	DREDGE	124	1174		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0794	-61.6572	

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
4634	DREDGE	125	1175		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0725	-61.7056	
4635	DREDGE	126	1176		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0706	-61.7060	
4636	DREDGE	129	1177		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0652	-61.7303	
4637	DREDGE	132	1178		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0706	-61.7396	
4638	DREDGE	133	1179		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0786	-61.7388	
4639	DREDGE	134	1180		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0842	-61.7533	
4640	DREDGE	135	1182		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0363	-61.7472	
4641	DREDGE	136	1183		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0290	-61.7579	
4642	DREDGE	137	1184		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0306	-61.7720	
4643	DREDGE	139	1185		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0491	-61.7795	
4644	DREDGE	140	1186		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0616	-61.7828	
4645	DREDGE	140	1187		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0616	-61.7827	
4646	DREDGE	141	1188		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0726	-61.7865	
4647	DREDGE	142	1189		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0776	-61.8018	
4648	DREDGE	143	1190		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0850	-61.8120	
4649	DREDGE	144	1191		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0951	-61.8304	
4650	DREDGE	145	1192		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0829	-61.8223	
4651	DREDGE	146	1193		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0761	-61.8150	
4652	DREDGE	147	1194		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0614	-61.8096	
4653	DREDGE	149	1195		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0481	-61.8078	
4654	DREDGE	152	1196		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0477	-61.8204	
4655	DREDGE	153	1197		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0548	-61.8331	
4656	DREDGE	154	1198		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0387	-61.8010	
4657	DREDGE	157	1199		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1130	-61.4767	
4658	DREDGE	158	1200		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1198	-61.4768	
4659	DREDGE	159	1201		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1250	-61.4789	
4660	DREDGE	162	1202		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1321	-61.4710	
4661	DREDGE	163	1203		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1388	-61.4964	
4662	DREDGE	164	1204		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1399	-61.5105	
4663	DREDGE	166	1205		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1442	-61.5252	
4664	DREDGE	167	1206		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1414	-61.5281	
4665	DREDGE	170	1207		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1179	-61.5000	
4666	DREDGE	171	1208		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0879	-61.5222	
4667	DREDGE	173	1209		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0620	-61.5590	
4668	DREDGE	174	1210		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0551	-61.5765	
4669	DREDGE	175	1211		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0533	-61.5845	
4670	DREDGE	176	1212		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0621	-61.5906	
4671	DREDGE	177	1213		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0671	-61.5944	
4672	DREDGE	178	1214		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0644	-61.6099	
4673	DREDGE	179	1215		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0541	-61.6100	
4674	DREDGE	180	1216		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0360	-61.6225	
4676	DREDGE	182	1218		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1172	-61.5872	
4677	DREDGE	183	1219		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1216	-61.5835	
4678	DREDGE	184	1220		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1203	-61.5966	
4679	DREDGE	186	1221		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1315	-61.5872	
4680	DREDGE	187	1222		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1355	-61.5933	
4681	DREDGE	188	1223		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1464	-61.6185	
4682	DREDGE	189	1224		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1419	-61.6345	
4683	DREDGE	190	1225		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1479	-61.6376	
4686	DREDGE	192	1228		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0991	-61.6345	
4687	DREDGE	193	1229		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1094	-61.6385	
4688	DREDGE	194	1230		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1232	-61.6392	
4689	DREDGE	195	1231		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1291	-61.6297	
4690	DREDGE	196	1232		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1330	-61.6227	
4691	DREDGE	198	1233		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1153	-61.6141	
4692	DREDGE	199	1234		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1152	-61.6337	
4693	DREDGE	200	1235		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1037	-61.6216	
4694	DREDGE	201	1236		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1084	-61.6070	
4695	DREDGE	202	1237		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1069	-61.5935	
4696	DREDGE	204	1238		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1028	-61.6022	
4697	DREDGE	205	1239		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.1017	-61.6142	
4698	DREDGE	206	1240		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0716	-61.6065	
4699	DREDGE	207	1241		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0651	-61.6522	
4700	DREDGE	208	1242		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0590	-61.6401	
4701	DREDGE	210	1243		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0377	-61.6106	
4702	DREDGE	A0-1	1244		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0478	-61.7014	
4703	DREDGE	A1-2	1245		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0478	-61.7014	
4704	DREDGE	C1-2	1246		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0680	-61.6835	
4705	DREDGE	G0-1	1247		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0747	-61.6970	
4706	DREDGE	G1-2	1248		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0747	-61.6970	
4707	DREDGE		1249		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0697	-61.6112	
4708	DREDGE		1250		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0786	-61.5843	
4710	DREDGE		1252		SHAFER, C.T.	COUNTRY HARBOUR AREA	45.0977	-61.5634	
4714	GRAB	MS-1	1256		HUNTER, N.J.	WINE HARBOUR	45.0709	-61.8494	
4715	GRAB	MS-2	1257		HUNTER, N.J.	WINE HARBOUR	45.0709	-61.8494	.2 M
4716	GRAB	MS-3	1258		HUNTER, N.J.	WINE HARBOUR	45.0709	-61.8494	
4717	GRAB	MS-4	1259		HUNTER, N.J.	WINE HARBOUR	45.0709	-61.8494	
4718	GRAB	MS-5	1260		HUNTER, N.J.	WINE HARBOUR	45.0709	-61.8494	
4719	GRAB	MS-6	1261		HUNTER, N.J.	WINE HARBOUR	45.0709	-61.8494	
4720	GRAB	MS-7	1262		HUNTER, N.J.	WINE HARBOUR	45.0709	-61.8494	
4721	GRAB	MS-8	1263		HUNTER, N.J.	WINE HARBOUR	45.0709	-61.8494	
4722	GRAB	MS-9	1264		HUNTER, N.J.	WINE HARBOUR	45.0709	-61.8494	

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
4723	GRAB	MS-10	1265		HUNTER, N.J.	WINE HARBOUR	45.0653	-61.8526	
4724	GRAB	MS-11	1266		HUNTER, N.J.	WINE HARBOUR	45.0653	-61.8526	
4725	GRAB	MS-12	1267		HUNTER, N.J.	WINE HARBOUR	45.0653	-61.8526	
4726	GRAB	MS-13	1268		HUNTER, N.J.	WINE HARBOUR	45.0653	-61.8526	
4727	GRAB	MS-14	1269		HUNTER, N.J.	WINE HARBOUR	45.0653	-61.8526	
4728	GRAB	MS-15	1270		HUNTER, N.J.	WINE HARBOUR	45.0653	-61.8526	
4729	GRAB	MS-16	1271		HUNTER, N.J.	WINE HARBOUR	45.0653	-61.8526	
4730	GRAB	MS-17	1272		HUNTER, N.J.	WINE HARBOUR	45.0653	-61.8526	
4809	DRILL	74-1	1362		PATTERSON, E.N.	EASTERN PASSAGE	44.6210	-63.5150	13 M
4810	DRILL	74-2	1363		PATTERSON, E.N.	GEORGES ISLAND	44.6390	-63.5530	22 M
4811	DRILL	74-3	1364		PATTERSON, E.N.	JONQUIERE BANK N	44.6950	-63.6560	21 M
4812	DRILL	74-7	1365		PATTERSON, E.N.	BEDFORD BAY	44.7090	-63.6580	22 M
4813	DRILL	74-8	1366		PATTERSON, E.N.	JONQUIERE BANK S	44.6890	-63.6510	20 M
4814	DRILL	74-9	1367		PATTERSON, E.N.	FERRY CROSSING S	44.6560	-63.5720	11 M
4815	DRILL	74-9A	1368		PATTERSON, E.N.	FERRY CROSSING N	44.6590	-63.5710	15 M
4816	DRILL	74-11	1369		PATTERSON, E.N.	FAIRVIEW COVE	44.6770	-63.6310	24 M
4817	DRILL	74-12	1370		PATTERSON, E.N.	BEDFORD BAY	44.7140	-63.6670	16 M
4818	DRILL	74-13	1371		PATTERSON, E.N.	BARRIE EACH	44.6040	-63.4930	9 M
4819	DRILL	74-15	1372		PATTERSON, E.N.	BEDFORD BAY	44.7070	-63.6590	19 M
4820	DRILL	74-16	1373		PATTERSON, E.N.	BEDFORD BAY	44.7060	-63.6570	22 M
4835	GRAB		1388		BARRETT, D.	CUNARD COVE	44.3170	-64.2500	0 M
4836	GRAB		1389		BARRETT, D.	ROSE BAY	44.3000	-64.2670	4 M
4837	DREDGE	D9	1390		SCHAFER, C.T.	COUNTRY HARBOUR	45.0930	-61.5830	37 M
4838	DREDGE	D11	1391		SCHAFER, C.T.	COUNTRY HARBOUR	45.0900	-61.5930	38 M
4839	DREDGE	D13	1392		SCHAFER, C.T.	COUNTRY HARBOUR	45.0900	-61.5620	35 M
4840	DREDGE	D21	1393		SCHAFER, C.T.	COUNTRY HARBOUR	45.0750	-61.6080	43 M
4841	DREDGE	D23	1394		SCHAFER, C.T.	COUNTRY HARBOUR	45.0670	-61.6180	42 M
4842	DREDGE	D25	1395		SCHAFER, C.T.	COUNTRY HARBOUR	45.0720	-61.6070	33 M
4843	DREDGE	D26	1396		SCHAFER, C.T.	COUNTRY HARBOUR	45.0730	-61.5980	37 M
4844	DREDGE	D34	1397		SCHAFER, C.T.	COUNTRY HARBOUR	45.0930	-61.5770	34 M
4845	DREDGE	D35	1398		SCHAFER, C.T.	COUNTRY HARBOUR	45.0900	-61.5820	35 M
4846	DREDGE	D37	1399		SCHAFER, C.T.	COUNTRY HARBOUR	45.0750	-61.6180	45 M
4847	DREDGE	D42	1400		SCHAFER, C.T.	COUNTRY HARBOUR	45.0680	-61.5930	48 M
4848	DREDGE	D43A	1401		SCHAFER, C.T.	COUNTRY HARBOUR	45.0670	-61.5870	49 M
4849	DREDGE	D45	1402		SCHAFER, C.T.	COUNTRY HARBOUR	45.0880	-61.5970	29 M
4850	DREDGE	D53	1403		SCHAFER, C.T.	COUNTRY HARBOUR	45.1130	-61.6580	18 M
4851	DREDGE	D56	1404		SCHAFER, C.T.	COUNTRY HARBOUR	45.0670	-61.6780	34 M
4852	DREDGE	D69	1405		SCHAFER, C.T.	COUNTRY HARBOUR	45.0800	-61.6120	41 M
4853	DREDGE	D70	1406		SCHAFER, C.T.	COUNTRY HARBOUR	45.1020	-61.5780	21 M
4854	DREDGE	D79	1407		SCHAFER, C.T.	COUNTRY HARBOUR	45.0870	-61.6250	35 M
4855	DREDGE	D86	1408		SCHAFER, C.T.	COUNTRY HARBOUR	45.1430	-61.6650	11 M
4856	DREDGE	D91	1409		SCHAFER, C.T.	COUNTRY HARBOUR	45.0720	-61.6530	38 M
4857	DREDGE	D99	1410		SCHAFER, C.T.	COUNTRY HARBOUR	45.0650	-61.6520	27 M
4858	DREDGE	D109	1411		SCHAFER, C.T.	COUNTRY HARBOUR	45.0480	-61.6950	33 M
4859	DREDGE	D1	1412		SCHAFER, C.T.	COUNTRY HARBOUR	45.0890	-61.5930	31 M
4860	DREDGE	D2	1413		SCHAFER, C.T.	COUNTRY HARBOUR	45.0870	-61.6050	38 M
4861	DREDGE	D3	1414		SCHAFER, C.T.	COUNTRY HARBOUR	45.0850	-61.6080	38 M
4862	DREDGE	D4	1415		SCHAFER, C.T.	COUNTRY HARBOUR	45.0830	-61.6130	38 M
4863	DREDGE	D5	1416		SCHAFER, C.T.	COUNTRY HARBOUR	45.0800	-61.6180	39 M
4864	DREDGE	D7	1417		SCHAFER, C.T.	COUNTRY HARBOUR	45.0970	-61.5630	19 M
4865	DREDGE	D8	1418		SCHAFER, C.T.	COUNTRY HARBOUR	45.0950	-61.5780	32 M
4866	DREDGE	D10	1419		SCHAFER, C.T.	COUNTRY HARBOUR	45.0870	-61.5870	35 M
4867	DREDGE	D12	1420		SCHAFER, C.T.	COUNTRY HARBOUR	45.0910	-61.5570	36 M
4868	DREDGE	D14	1421		SCHAFER, C.T.	COUNTRY HARBOUR	45.0900	-61.5680	38 M
4869	DREDGE	D15	1422		SCHAFER, C.T.	COUNTRY HARBOUR	45.0870	-61.5730	38 M
4870	DREDGE	D16	1423		SCHAFER, C.T.	COUNTRY HARBOUR	45.0830	-61.5780	39 M
4871	DREDGE	D17	1424		SCHAFER, C.T.	COUNTRY HARBOUR	45.0800	-61.5880	38 M
4872	DREDGE	D18	1425		SCHAFER, C.T.	COUNTRY HARBOUR	45.0830	-61.5850	36 M
4873	DREDGE	D19	1426		SCHAFER, C.T.	COUNTRY HARBOUR	45.0800	-61.5930	33 M
4874	DREDGE	D22	1427		SCHAFER, C.T.	COUNTRY HARBOUR	45.0720	-61.6150	46 M
4875	DREDGE	D24	1428		SCHAFER, C.T.	COUNTRY HARBOUR	45.0700	-61.6120	44 M
4876	DREDGE	D27	1429		SCHAFER, C.T.	COUNTRY HARBOUR	45.0770	-61.5920	40 M
4877	DREDGE	D28	1430		SCHAFER, C.T.	COUNTRY HARBOUR	45.0780	-61.5830	42 M
4878	DREDGE	D29	1431		SCHAFER, C.T.	COUNTRY HARBOUR	45.0820	-61.5780	40 M
4879	DREDGE	D30	1432		SCHAFER, C.T.	COUNTRY HARBOUR	45.0830	-61.5720	40 M
4880	DREDGE	D31	1433		SCHAFER, C.T.	COUNTRY HARBOUR	45.0850	-61.5670	39 M
4881	DREDGE	D33	1434		SCHAFER, C.T.	COUNTRY HARBOUR	45.0930	-61.5720	33 M
4882	DREDGE	D38	1435		SCHAFER, C.T.	COUNTRY HARBOUR	45.0750	-61.6150	44 M
4883	DREDGE	D39	1436		SCHAFER, C.T.	COUNTRY HARBOUR	45.0750	-61.6080	42 M
4884	DREDGE	D40	1437		SCHAFER, C.T.	COUNTRY HARBOUR	45.0770	-61.6030	38 M
4885	DREDGE	D41	1438		SCHAFER, C.T.	COUNTRY HARBOUR	45.0700	-61.5980	43 M
4886	DREDGE	D43	1439		SCHAFER, C.T.	COUNTRY HARBOUR	45.0670	-61.5870	49 M
4887	DREDGE	D44	1440		SCHAFER, C.T.	COUNTRY HARBOUR	45.0870	-61.5880	38 M
4888	DREDGE	D46	1441		DAWE, J.E.	FISHERMAN'S HARBOUR	45.0980	-61.6400	23 M
4889	DREDGE	D47	1442		DAWE, J.E.	FISHERMAN'S HARBOUR	45.0970	-61.6420	20 M
4890	DREDGE	D48	1443		DAWE, J.E.	FISHERMAN'S HARBOUR	45.1030	-61.6480	22 M
4891	DREDGE	D49	1444		DAWE, J.E.	FISHERMAN'S HARBOUR	45.1020	-61.6520	18 M
4892	DREDGE	D50	1445		DAWE, J.E.	FISHERMAN'S HARBOUR	45.1080	-61.6570	20 M
4893	DREDGE	D52	1446		DAWE, J.E.	FISHERMAN'S HARBOUR	45.1070	-61.6600	18 M
4894	DREDGE	D54	1447		DAWE, J.E.	FISHERMAN'S HARBOUR	45.1130	-61.6650	15 M
4895	DREDGE	D55	1448		DAWE, J.E.	PORT BICKERTON	45.0630	-61.6750	35 M
4896	DREDGE	D57	1449		DAWE, J.E.	PORT BICKERTON	45.0700	-61.6830	34 M

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
4897	DREDGE	D58	1450		DAWE, J.E.	PORT BICKERTON	45.0730	-61.6870	29 M
4898	DREDGE	D59	1451		DAWE, J.E.	PORT BICKERTON	45.0770	-61.6900	27 M
4899	DREDGE	D60	1452		DAWE, J.E.	PORT BICKERTON	45.0800	-61.7770	26 M
4900	DREDGE	D61	1453		DAWE, J.E.	PORT BICKERTON	45.0830	-61.6980	23 M
4901	DREDGE	D62	1454		DAWE, J.E.	COUNTRY HARBOUR	45.0770	-61.5880	44 M
4902	DREDGE	D63	1455		DAWE, J.E.	COUNTRY HARBOUR	45.0720	-61.5870	46 M
4903	DREDGE	D64	1456		DAWE, J.E.	COUNTRY HARBOUR	45.0750	-61.5820	44 M
4904	DREDGE	D65	1457		DAWE, J.E.	COUNTRY HARBOUR	45.0850	-61.5920	31 M
4905	DREDGE	D66	1458		DAWE, J.E.	COUNTRY HARBOUR	45.0850	-61.5970	28 M
4906	DREDGE	D67	1459		DAWE, J.E.	COUNTRY HARBOUR	45.0830	-61.6020	32 M
4907	DREDGE	D68	1460		DAWE, J.E.	COUNTRY HARBOUR	45.0800	-61.6070	36 M
4908	DREDGE	D71	1461		DAWE, J.E.	COUNTRY HARBOUR	45.1000	-61.5820	33 M
4909	DREDGE	D72	1462		DAWE, J.E.	COUNTRY HARBOUR	45.0980	-61.5870	36 M
4910	DREDGE	D73	1463		DAWE, J.E.	COUNTRY HARBOUR	45.0970	-61.5920	35 M
4911	DREDGE	D74	1464		DAWE, J.E.	COUNTRY HARBOUR	45.0950	-61.5970	35 M
4912	DREDGE	D75	1465		DAWE, J.E.	COUNTRY HARBOUR	45.0930	-61.6020	36 M
4913	DREDGE	D76	1466		DAWE, J.E.	COUNTRY HARBOUR	45.0920	-61.6070	34 M
4914	DREDGE	D77	1467		DAWE, J.E.	COUNTRY HARBOUR	45.0900	-61.6130	34 M
4915	DREDGE	D78	1468		DAWE, J.E.	COUNTRY HARBOUR	45.0880	-61.6180	35 M
4916	DREDGE	D81	1469		DAWE, J.E.	ISAACS HARBOUR	45.1800	-61.5220	6 M
4917	DREDGE	D82	1470		DAWE, J.E.	ISAACS HARBOUR	45.1680	-61.6500	11 M
4918	DREDGE	D83	1471		DAWE, J.E.	ISAACS HARBOUR	45.1580	-61.6470	11 M
4919	DREDGE	D84	1472		DAWE, J.E.	ISAACS HARBOUR	45.1530	-61.6520	20 M
4920	DREDGE	D85	1473		DAWE, J.E.	ISAACS HARBOUR	45.1450	-61.6630	19 M
4921	DREDGE	D87	1474		DAWE, J.E.	ISAACS HARBOUR	45.1380	-61.6600	11 M
4922	DREDGE	D88	1475		DAWE, J.E.	ISAACS HARBOUR	45.1300	-61.6500	11 M
4923	DREDGE	D90	1476		DAWE, J.E.	ISAACS HARBOUR	45.1300	-61.6470	22 M
4924	DREDGE	D92	1478		DAWE, J.E.	PORT BICKERTON	45.0700	-61.6530	35 M
4925	DREDGE	D94	1479		DAWE, J.E.	PORT BICKERTON	45.0800	-61.6400	27 M
4926	DREDGE	D95	1480		DAWE, J.E.	PORT BICKERTON	45.0750	-61.6450	35 M
4927	DREDGE	D96	1481		DAWE, J.E.	PORT BICKERTON	45.0420	-61.6380	44 M
4928	DREDGE	D97	1482		DAWE, J.E.	PORT BICKERTON	45.0500	-61.6450	32 M
4929	DREDGE	D101	1483		DAWE, J.E.	PORT BICKERTON	45.0820	-61.6630	16 M
4930	DREDGE	D102	1484		DAWE, J.E.	PORT BICKERTON	45.0930	-61.6830	9 M
4931	DREDGE	D103	1485		DAWE, J.E.	PORT BICKERTON	45.0620	-61.6770	37 M
4932	DREDGE	D104	1486		DAWE, J.E.	PORT BICKERTON	45.0580	-61.6820	34 M
4933	DREDGE	D105	1487		DAWE, J.E.	PORT BICKERTON	45.0530	-61.6870	34 M
4934	DREDGE	D106	1488		DAWE, J.E.	PORT BICKERTON	45.0480	-61.6850	36 M
4935	DREDGE	D107	1489		DAWE, J.E.	PORT BICKERTON	45.0450	-61.6920	35 M
6281	GRAB	CB 1	1		HALL, R.K.	EASTERN SHORE	44.6181	-63.4336	6 M
6282	GRAB	CB 2	2		HALL, R.K.	EASTERN SHORE	44.6128	-63.4411	10 M
6283	GRAB	CB 3	3		HALL, R.K.	EASTERN SHORE	44.6083	-63.4353	11 M
6284	GRAB	CB 4	4		HALL, R.K.	EASTERN SHORE	44.6050	-63.4297	13.5M
6285	GRAB	CB 5	5		HALL, R.K.	EASTERN SHORE	44.6014	-63.4247	14.5M
6286	GRAB	CB 6	6		HALL, R.K.	EASTERN SHORE	44.6081	-63.4183	17.5M
6287	GRAB	CB 7	7		HALL, R.K.	EASTERN SHORE	44.5861	-63.4097	21 M
6288	GRAB	CB 8	8		HALL, R.K.	EASTERN SHORE	44.5528	-63.4158	37 M
6289	GRAB	CB 9	9		HALL, R.K.	EASTERN SHORE	44.5531	-63.3578	46 M
6290	GRAB	CB 10	10		HALL, R.K.	EASTERN SHORE	44.5742	-63.3533	38 M
6291	GRAB	CB 11	11		HALL, R.K.	EASTERN SHORE	44.6075	-63.3522	27 M
6292	GRAB	CB 12	12		HALL, R.K.	EASTERN SHORE	44.6181	-63.3586	23 M
6293	GRAB	CB 13	13		HALL, R.K.	EASTERN SHORE	44.6236	-63.3539	20 M
6294	GRAB	CB 14	14		HALL, R.K.	EASTERN SHORE	44.6342	-63.3486	16 M
6295	GRAB	CB 15	15		HALL, R.K.	EASTERN SHORE	44.6400	-63.3439	14 M
6296	GRAB	CB 16	16		HALL, R.K.	EASTERN SHORE	44.6333	-63.3550	13 M
6297	GRAB	CB 17	17		HALL, R.K.	EASTERN SHORE	44.6392	-63.3525	9 M
6298	GRAB	CB 18	18		HALL, R.K.	EASTERN SHORE	44.6436	-63.3517	7 M
6299	GRAB	CB 19	19		HALL, R.K.	EASTERN SHORE	44.6028	-63.3189	25 M
6300	GRAB	CB 20	20		HALL, R.K.	EASTERN SHORE	44.6097	-63.3047	16 M
6301	GRAB	CB 21	21		HALL, R.K.	EASTERN SHORE	44.5911	-63.2908	36 M
6302	GRAB	CB 22	22		HALL, R.K.	EASTERN SHORE	44.5864	-63.2517	39 M
6303	GRAB	CB 23	23		HALL, R.K.	EASTERN SHORE	44.6194	-63.2386	32 M
6304	GRAB	CB 24	24		HALL, R.K.	EASTERN SHORE	44.6511	-63.2425	16 M
6305	GRAB	CB 25	25		HALL, R.K.	EASTERN SHORE	44.6669	-63.2431	13 M
6306	GRAB	CB 26	26		HALL, R.K.	EASTERN SHORE	44.6750	-63.2403	11 M
6307	GRAB	CB 27	27		HALL, R.K.	EASTERN SHORE	44.6750	-63.2400	8 M
6308	GRAB	CB 28	28		HALL, R.K.	EASTERN SHORE	44.6800	-63.2417	6 M
6309	GRAB	CB 29	29		HALL, R.K.	EASTERN SHORE	44.6897	-63.2411	4 M
6310	GRAB	CB 30	30		HALL, R.K.	EASTERN SHORE	44.6942	-63.1781	5 M
6311	GRAB	CB 31	31		HALL, R.K.	EASTERN SHORE	44.6875	-63.1833	6 M
6312	GRAB	CB 32	32		HALL, R.K.	EASTERN SHORE	44.6928	-63.1833	7 M
6313	GRAB	CB 33	33		HALL, R.K.	EASTERN SHORE	44.6853	-63.1867	8.5 M
6314	GRAB	CB 34	34		HALL, R.K.	EASTERN SHORE	44.6756	-63.1867	13 M
6315	GRAB	CB 35	35		HALL, R.K.	EASTERN SHORE	44.6761	-63.1867	17 M
6316	GRAB	CB 36	36		HALL, R.K.	EASTERN SHORE	44.6531	-63.1889	21 M
6317	GRAB	CB 37	37		HALL, R.K.	EASTERN SHORE	44.6333	-63.1917	24 M
6318	GRAB	CB 38	38		HALL, R.K.	EASTERN SHORE	44.6581	-63.0833	33 M
6319	GRAB	CB 39	39		HALL, R.K.	EASTERN SHORE	44.6525	-63.1831	25 M
6320	GRAB	CB 40	40		HALL, R.K.	EASTERN SHORE	44.6731	-63.0775	12 M
6321	GRAB	CB 41	41		HALL, R.K.	EASTERN SHORE	44.6728	-63.0753	10 M
6322	GRAB	CB 42	42		HALL, R.K.	EASTERN SHORE	44.6869	-63.0756	8.5 M
6323	GRAB	CB 43	43		HALL, R.K.	EASTERN SHORE	44.6942	-63.0806	7 M

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6324	GRAB	CB 44	44		HALL, R.K.	EASTERN SHORE	44.6919	-63.0869	6
6325	GRAB	CB 45	45		HALL, R.K.	EASTERN SHORE	44.6975	-63.0881	5.5 M
6326	GRAB	CB 46	46		HALL, R.K.	EASTERN SHORE	44.6447	-63.1064	25 M
6327	GRAB	CB 47	47		HALL, R.K.	EASTERN SHORE	44.6650	-63.4117	17 M
6328	GRAB	CB 48	48		HALL, R.K.	EASTERN SHORE	44.6903	-63.1361	5 M
6329	GRAB	CB 49	49		HALL, R.K.	EASTERN SHORE	44.6939	-63.1361	9 M
6330	GRAB	CB 50	50		HALL, R.K.	EASTERN SHORE	44.6886	-63.1358	13 M
6331	GRAB	CB 51	51		HALL, R.K.	EASTERN SHORE	44.6814	-63.1361	16 M
6332	GRAB	CB 52	52		HALL, R.K.	EASTERN SHORE	44.6633	-63.1361	18 M
6333	GRAB	CB 53	53		HALL, R.K.	EASTERN SHORE	44.5492	-63.2925	54 M
6334	GRAB	CB 54	54		HALL, R.K.	EASTERN SHORE	44.5433	-63.2544	57 M
6335	GRAB	CB 55	55		HALL, R.K.	EASTERN SHORE	44.5553	-63.1853	53 M
6336	GRAB	CB 56	56		HALL, R.K.	EASTERN SHORE	44.5728	-63.1586	52 M
6337	GRAB	CB 57	57		HALL, R.K.	EASTERN SHORE	44.5672	-63.1014	57 M
6338	GRAB	CB 58	58		HALL, R.K.	EASTERN SHORE	44.5875	-63.0886	48 M
6339	GRAB	CB 59	59		HALL, R.K.	EASTERN SHORE	44.6247	-63.0889	40 M
6340	GRAB	CB 60	60		HALL, R.K.	EASTERN SHORE	44.6124	-63.1195	44 M
6341	GRAB	CB 61	61		HALL, R.K.	EASTERN SHORE	44.6275	-63.1278	38 M
6342	GRAB	CB 62	62		HALL, R.K.	EASTERN SHORE	44.6475	-63.1358	29 M
6343	GRAB	CB 63	63		HALL, R.K.	EASTERN SHORE	44.6194	-63.1878	32 M
6344	GRAB	CB 64	64		HALL, R.K.	EASTERN SHORE	44.5839	-63.1822	47 M
6345	GRAB	CB 65	65		HALL, R.K.	EASTERN SHORE	44.5872	-63.2339	44 M
6346	GRAB	CB 66	66		HALL, R.K.	EASTERN SHORE	44.5978	-63.2917	38 M
6347	GRAB	CB 67	67		HALL, R.K.	EASTERN SHORE	44.6017	-63.3825	30 M
6348	GRAB	CB 68	68		HALL, R.K.	EASTERN SHORE	44.5800	-63.4361	20 M
6349	GRAB	517-80-011	69		HALL, R.K.	EASTERN SHORE	44.6417	-63.1269	39 M
6350	GRAB	517-80-016	70		HALL, R.K.	EASTERN SHORE	44.6342	-63.1300	50 M
6351	GRAB	517-80-023	71		HALL, R.K.	EASTERN SHORE	44.6403	-63.3389	7 M
6352	GRAB	517-80-024	72		HALL, R.K.	EASTERN SHORE	44.6217	-63.3372	20 M
6353	GRAB	517-80-025	73		HALL, R.K.	EASTERN SHORE	44.6200	-63.3358	24 M
6354	GRAB	517-80-026	74		HALL, R.K.	EASTERN SHORE	44.6011	-63.3222	
6355	GRAB	517-80-028	75		HALL, R.K.	EASTERN SHORE	44.5872	-63.3200	
6356	GRAB	517-80-031	76		HALL, R.K.	EASTERN SHORE	44.6103	-63.1714	52 M
6357	GRAB	517-80-033	77		HALL, R.K.	EASTERN SHORE	44.6094	-63.1689	62 M
6358	GRAB	517-80-043	78		HALL, R.K.	EASTERN SHORE	44.5875	-63.3272	46 M
6359	GRAB	517-80-073	79		HALL, R.K.	EASTERN SHORE	44.6028	-63.3533	31
6360	GRAB	517-80-074	80		HALL, R.K.	EASTERN SHORE	44.6094	-63.3422	35 M
6361	GRAB	517-80-075	81		HALL, R.K.	EASTERN SHORE	44.6056	-63.3431	36 M
6362	GRAB	517-80-077	82		HALL, R.K.	EASTERN SHORE	44.5894	-63.3300	43 M
6363	GRAB	CH 1	83		HALL, R.K.	EASTERN SHORE	44.6103	-63.3897	22 M
6364	GRAB	CH 2	84		HALL, R.K.	EASTERN SHORE	44.6247	-63.4014	12 M
6365	GRAB	CH 3	85		HALL, R.K.	EASTERN SHORE	44.6442	-63.4017	5 M
6366	GRAB	CH 4	86		HALL, R.K.	EASTERN SHORE	44.6422	-63.3344	11 M
6367	GRAB	CH 5	87		HALL, R.K.	EASTERN SHORE	44.6064	-63.3528	22 M
6368	GRAB	CH 6	88		HALL, R.K.	EASTERN SHORE	44.6078	-63.3906	22 M
6369	GRAB	CH 7	89		HALL, R.K.	EASTERN SHORE	44.6194	-63.3911	18 M
6370	GRAB	CH 8	90		HALL, R.K.	EASTERN SHORE	44.6500	-63.4083	6 M
6371	GRAB	CH 9	91		HALL, R.K.	EASTERN SHORE	44.5531	-63.3603	44 M
6372	GRAB	CH 10	92		HALL, R.K.	EASTERN SHORE	44.6231	-63.3750	19 M
6373	GRAB	CH 11	93		HALL, R.K.	EASTERN SHORE	44.6311	-63.3767	13 M
6374	GRAB	CH 12	94		HALL, R.K.	EASTERN SHORE	44.6389	-63.3797	8 M
6375	GRAB	CH 13	95		HALL, R.K.	EASTERN SHORE	44.6447	-63.3725	5 M
6376	GRAB	CH 14	96		HALL, R.K.	EASTERN SHORE	44.6483	-63.3753	3 M
6377	DRILL	VC 1	97		HALL, R.K.	EASTERN SHORE	44.6036	-63.3864	25 M
6378	DRILL	VC 2	98		HALL, R.K.	EASTERN SHORE	44.6036	-63.3864	25 M
6379	DRILL	VC 3	99		HALL, R.K.	EASTERN SHORE	44.6567	-63.1842	14 M
6380	GRAB	SS 1	100		HALL, R.K.	EASTERN SHORE	44.6058	-63.3972	25 M
6381	GRAB	SS 2	101		HALL, R.K.	EASTERN SHORE	44.6044	-63.4025	21 M
6382	GRAB	SS 3	102		HALL, R.K.	EASTERN SHORE	44.6111	-63.4000	19 M
6406	GRAB	T1D6	1		LETSON, J.	MAHONE BAY	44.4528	-64.2602	.85M
6407	GRAB	T1D8	2		LETSON, J.	MAHONE BAY	44.4526	-64.2603	3.29M
6408	GRAB	T1D9	3		LETSON, J.	MAHONE BAY	44.4526	-64.2606	4.2 M
6409	GRAB	T1D10	4		LETSON, J.	MAHONE BAY	44.4525	-64.2608	4.2 M
6410	GRAB	T1D11	5		LETSON, J.	MAHONE BAY	44.4524	-64.2610	4.2 M
6411	GRAB	T1D12	6		LETSON, J.	MAHONE BAY	44.4523	-64.2612	5.73M
6412	GRAB	T2D90	7		LETSON, J.	MAHONE BAY	44.4451	-64.2962	.40 M
6413	GRAB	T2D91	8		LETSON, J.	MAHONE BAY	44.4450	-64.2959	.70 M
6414	GRAB	T2D92	9		LETSON, J.	MAHONE BAY	44.4450	-64.2959	.70 M
6415	GRAB	T2D93	10		LETSON, J.	MAHONE BAY	44.4449	-64.2955	2.3 M
6416	GRAB	T2D94	11		LETSON, J.	MAHONE BAY	44.4447	-64.2952	7.1 M
6417	GRAB	T2D95A	12		LETSON, J.	MAHONE BAY	44.4447	-64.2951	7.1 M
6418	GRAB	T2D96	13		LETSON, J.	MAHONE BAY	44.4445	-64.2949	9.23M
6419	GRAB	T3D21	14		LETSON, J.	MAHONE BAY	44.4389	-64.2988	1.65M
6420	GRAB	T3D22	15		LETSON, J.	MAHONE BAY	44.4387	-64.2985	3.47M
6421	GRAB	T3D23	16		LETSON, J.	MAHONE BAY	44.4386	-64.2983	5.3 M
6422	GRAB	T3D24	17		LETSON, J.	MAHONE BAY	44.4386	-64.2981	6.22M
6423	GRAB	T4D35	18		LETSON, J.	MAHONE BAY	44.4573	-64.2799	.94 M
6424	GRAB	T4D36	19		LETSON, J.	MAHONE BAY	44.4574	-64.2795	2.77M
6425	GRAB	T4D38	20		LETSON, J.	MAHONE BAY	44.4575	-64.2792	7.96M
6426	GRAB	T4D39	21		LETSON, J.	MAHONE BAY	44.4577	-64.2788	18.6M
6427	GRAB	T5D40	22		LETSON, J.	MAHONE BAY	44.4461	-64.2549	
6428	GRAB	T5D42	23		LETSON, J.	MAHONE BAY	44.4459	-64.2549	

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6429	GRAB	T5D44	24		LETSON, J.	MAHONE BAY	44.4456	-64.2547	
6430	GRAB	T5D46	25		LETSON, J.	MAHONE BAY	44.4454	-64.2547	
6431	GRAB	T5D47	26		LETSON, J.	MAHONE BAY	44.4453	-64.2546	11.8M
6432	GRAB	T5D48	27		LETSON, J.	MAHONE BAY	44.4451	-64.2545	
6433	GRAB	T6D50	28		LETSON, J.	MAHONE BAY	44.4571	-64.2374	2.68M
6434	GRAB	T6D52	29		LETSON, J.	MAHONE BAY	44.4573	-64.2375	
6435	GRAB	T6D53	30		LETSON, J.	MAHONE BAY	44.4576	-64.2376	7.25M
6436	GRAB	T6D54	31		LETSON, J.	MAHONE BAY	44.4578	-64.2376	11.8M
6437	GRAB	T6D55	32		LETSON, J.	MAHONE BAY	44.4580	-64.2376	13.4M
6438	GRAB	T7D56	33		LETSON, J.	MAHONE BAY	44.4588	-64.2592	1.13M
6439	GRAB	T7D57	34		LETSON, J.	MAHONE BAY	44.4590	-64.2592	4.18M
6440	GRAB	T7D58	35		LETSON, J.	MAHONE BAY	44.4592	-64.2592	
6441	GRAB	T7D59	36		LETSON, J.	MAHONE BAY	44.4593	-64.2592	4.18M
6442	GRAB	T7D60	37		LETSON, J.	MAHONE BAY	44.4596	-64.2593	8.75M
6443	GRAB	T7D61	38		LETSON, J.	MAHONE BAY	44.4598	-64.2593	10.3M
6444	GRAB	T8D65	39		LETSON, J.	MAHONE BAY	44.4484	-64.2758	3.11M
6445	GRAB	T8D66	40		LETSON, J.	MAHONE BAY	44.4483	-64.2762	5.85M
6446	GRAB	T8D67	41		LETSON, J.	MAHONE BAY	44.4483	-64.2765	7.68M
6447	GRAB	T8D68	42		LETSON, J.	MAHONE BAY	44.4483	-64.2769	
6448	GRAB	T8D69	43		LETSON, J.	MAHONE BAY	44.4483	-64.2772	16.8M
6449	GRAB	T8D70	44		LETSON, J.	MAHONE BAY	44.4483	-64.2776	21.4
6450	GRAB	T9D80	45		LETSON, J.	MAHONE BAY	44.4571	-64.2900	3.05M
6451	GRAB	T9D81	46		LETSON, J.	MAHONE BAY	44.4570	-64.2901	3.66M
6452	GRAB	T9D83	47		LETSON, J.	MAHONE BAY	44.4568	-64.2901	6.40M
6453	GRAB	T9D84	48		LETSON, J.	MAHONE BAY	44.4565	-64.2902	8.53M
6454	CORE	456	49		LETSON, J.	MAHONE BAY	44.4305	-64.2943	25 M
6455	CORE	458	50		LETSON, J.	MAHONE BAY	44.4333	-64.2949	23 M
6456	CORE	463	51		LETSON, J.	MAHONE BAY	44.4400	-64.2929	23 M
6457	CORE	466	52		LETSON, J.	MAHONE BAY	44.4484	-64.2893	17 M
6458	CORE	467	53		LETSON, J.	MAHONE BAY	44.4380	-64.2903	17 M
6459	CORE	469	54		LETSON, J.	MAHONE BAY	44.4544	-64.2889	15 M
6460	CORE	472	55		LETSON, J.	MAHONE BAY	44.4586	-64.2865	14 M
6461	CORE	473	56		LETSON, J.	MAHONE BAY	44.4597	-64.2867	15 M
6462	CORE	487	57		LETSON, J.	MAHONE BAY	44.4408	-64.2800	24 M
6463	CORE	488	58		LETSON, J.	MAHONE BAY	44.4414	-64.2771	25 M
6464	CORE	489	59		LETSON, J.	MAHONE BAY	44.4423	-64.2741	25 M
6465	CORE	490	60		LETSON, J.	MAHONE BAY	44.4429	-64.2717	25 M
6466	CORE	491	61		LETSON, J.	MAHONE BAY	44.4435	-64.2689	22 M
6467	CORE	492	62		LETSON, J.	MAHONE BAY	44.4428	-64.2652	16 M
6468	CORE	493	63		LETSON, J.	MAHONE BAY	44.4420	-64.2649	18 M
6469	CORE	494	64		LETSON, J.	MAHONE BAY	44.4624	-64.2837	25 M
6470	CORE	496	65		LETSON, J.	MAHONE BAY	44.4619	-64.2796	22 M
6471	CORE	497	66		LETSON, J.	MAHONE BAY	44.4619	-64.2760	19 M
6472	CORE	498	67		LETSON, J.	MAHONE BAY	44.4620	-64.2587	24 M
6473	CORE	499	68		LETSON, J.	MAHONE BAY	44.4641	-64.2594	
6474	CORE	500	69		LETSON, J.	MAHONE BAY	44.4657	-64.2599	3 M
6475	CORE	501	70		LETSON, J.	MAHONE BAY	44.4670	-64.2604	31 M
6476	CORE	502	71		LETSON, J.	MAHONE BAY	44.4410	-64.2512	27 M
6477	CORE	504	72		LETSON, J.	MAHONE BAY	44.4427	-64.2513	22 M
6478	CORE	505	73		LETSON, J.	MAHONE BAY	44.4333	-64.2498	31 M
6479	CORE	506	74		LETSON, J.	MAHONE BAY	44.4420	-64.2927	20 M
6480	CORE	507	75		LETSON, J.	MAHONE BAY	44.4418	-64.2913	20 M
6481	CORE	508	76		LETSON, J.	MAHONE BAY	44.4417	-64.2890	21 M
6482	CORE	509	77		LETSON, J.	MAHONE BAY	44.4416	-64.2882	20 M
6483	CORE	510	78		LETSON, J.	MAHONE BAY	44.4464	-64.2846	16 M
6484	CORE	514	79		LETSON, J.	MAHONE BAY	44.4385	-64.2765	28 M
6485	CORE	521	80		LETSON, J.	MAHONE BAY	44.4246	-64.2327	37 M
6487	CORE	525	82		LETSON, J.	MAHONE BAY	44.4662	-64.2678	10 M
6488	CORE	526	83		LETSON, J.	MAHONE BAY	44.4641	-64.2648	30 M
6489	CORE	527	84		LETSON, J.	MAHONE BAY	44.4644	-64.2574	16 M
6490	CORE	528	85		LETSON, J.	MAHONE BAY	44.4646	-64.2541	30 M
6491	CORE	529	86		LETSON, J.	MAHONE BAY	44.4635	-64.2477	25 M
6492	CORE	530	87		LETSON, J.	MAHONE BAY	44.4678	-64.2445	31 M
6493	CORE	533	88		LETSON, J.	MAHONE BAY	44.4335	-64.2790	28 M
6494	CORE	534	89		LETSON, J.	MAHONE BAY	44.4319	-64.2796	30 M
6495	CORE	535	90		LETSON, J.	MAHONE BAY	44.4296	-64.2795	31 M
6496	CORE	536	91		LETSON, J.	MAHONE BAY	44.4306	-64.2855	30 M
6497	CORE	541	92		LETSON, J.	MAHONE BAY	44.4328	-64.2775	13 M
6498	CORE	542	93		LETSON, J.	MAHONE BAY	44.4331	-64.2786	26 M
6499	CORE	548	94		LETSON, J.	MAHONE BAY	44.4328	-64.2822	
6500	CORE	555	95		LETSON, J.	MAHONE BAY	44.4362	-64.2469	29 M
6501	CORE	559	96		LETSON, J.	MAHONE BAY	44.5078	-64.2560	27 M
6502	CORE	561	97		LETSON, J.	MAHONE BAY	44.4374	-64.2557	30 M
6503	CORE	563	98		LETSON, J.	MAHONE BAY	44.4347	-64.2545	30 M
6504	CORE	566	99		LETSON, J.	MAHONE BAY	44.4306	-64.2517	33 M
6505	CORE	600	100		LETSON, J.	MAHONE BAY	44.4694	-64.2648	22 M
6506	CORE	601	101		LETSON, J.	MAHONE BAY	44.4680	-64.2619	24 M
6507	CORE	602	102		LETSON, J.	MAHONE BAY	44.4662	-64.2582	24 M
6508	CORE	603	103		LETSON, J.	MAHONE BAY	44.4658	-64.2556	24 M
6509	CORE	604	104		LETSON, J.	MAHONE BAY	44.4631	-64.2536	24 M
6510	CORE	605	105		LETSON, J.	MAHONE BAY	44.4622	-64.2524	24 M
6511	CORE	606	106		LETSON, J.	MAHONE BAY	44.4614	-64.2509	24 M

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6512	CORE	607	107		LETSON, J.	MAHONE BAY	44.4606	-64.2493	19 M
6513	CORE	608	108		LETSON, J.	MAHONE BAY	44.4647	-64.2454	27 M
6514	CORE	609	109		LETSON, J.	MAHONE BAY	44.4664	-64.2464	27 M
6515	CORE	610	110		LETSON, J.	MAHONE BAY	44.4680	-64.2470	27 M
6556	CORE	14	14		ALLEN, R. & RODA, R.	LAHAVE ESTUARY	44.3126	-64.4071	3 M
6557	CORE	15	15		ALLEN, R. & RODA, R.	LAHAVE ESTUARY	44.3075	-64.3742	2 M
6558	CORE	16	16		ALLEN, R. & RODA, R.	LAHAVE ESTUARY	44.2927	-64.3556	3 M
6574	GRAB	1	1		GREGORY, M.R.	HALIFAX HARBOUR	44.6406	-63.6183	14 M
6575	GRAB	2	2		GREGORY, M.R.	HALIFAX HARBOUR	44.6395	-63.6154	9 M
6576	GRAB	3	3		GREGORY, M.R.	HALIFAX HARBOUR	44.6392	-63.6156	5 M
6577	GRAB	4	4		GREGORY, M.R.	HALIFAX HARBOUR	44.6391	-63.6139	10 M
6578	GRAB	6	6		GREGORY, M.R.	HALIFAX HARBOUR	44.6385	-63.6143	70 M
6579	GRAB	7	7		GREGORY, M.R.	HALIFAX HARBOUR	44.6359	-63.6162	10 M
6580	GRAB	8	8		GREGORY, M.R.	HALIFAX HARBOUR	44.6358	-63.6162	13 M
6581	GRAB	9	9		GREGORY, M.R.	HALIFAX HARBOUR	44.6370	-63.6137	9 M
6582	GRAB	10	10		GREGORY, M.R.	HALIFAX HARBOUR	44.6383	-63.6120	1 M
6583	GRAB	11	11		GREGORY, M.R.	HALIFAX HARBOUR	44.6382	-63.6120	9 M
6584	GRAB	12	12		GREGORY, M.R.	HALIFAX HARBOUR	44.6368	-63.6127	20 M
6585	GRAB	13	13		GREGORY, M.R.	HALIFAX HARBOUR	44.6364	-63.6127	7 M
6586	GRAB	14	14		GREGORY, M.R.	HALIFAX HARBOUR	44.6361	-63.6095	24 M
6587	GRAB	15	15		GREGORY, M.R.	HALIFAX HARBOUR	44.6374	-63.6087	34 M
6588	GRAB	16	16		GREGORY, M.R.	HALIFAX HARBOUR	44.6381	-63.6078	17 M
6589	GRAB	17	17		GREGORY, M.R.	HALIFAX HARBOUR	44.6362	-63.6072	15 M
6590	GRAB	18	18		GREGORY, M.R.	HALIFAX HARBOUR	44.6362	-63.6072	33 M
6591	GRAB	19	19		GREGORY, M.R.	HALIFAX HARBOUR	44.6343	-63.6057	50 M
6592	GRAB	20	20		GREGORY, M.R.	HALIFAX HARBOUR	44.6344	-63.6057	74 M
6593	GRAB	21	21		GREGORY, M.R.	HALIFAX HARBOUR	44.6354	-63.6051	19 M
6594	GRAB	22	22		GREGORY, M.R.	HALIFAX HARBOUR	44.6366	-63.6051	54 M
6595	GRAB	23	23		GREGORY, M.R.	HALIFAX HARBOUR	44.6343	-63.6013	53 M
6596	GRAB	24	24		GREGORY, M.R.	HALIFAX HARBOUR	44.6328	-63.6023	67 M
6597	GRAB	25	25		GREGORY, M.R.	HALIFAX HARBOUR	44.6328	-63.6022	20 M
6598	GRAB	26	26		GREGORY, M.R.	HALIFAX HARBOUR	44.6331	-63.6003	16 M
6599	GRAB	27	27		GREGORY, M.R.	HALIFAX HARBOUR	44.6330	-63.6003	80 M
6600	GRAB	28	28		GREGORY, M.R.	HALIFAX HARBOUR	44.6322	-63.6012	78 M
6601	GRAB	29	29		GREGORY, M.R.	HALIFAX HARBOUR	44.6312	-63.5969	14 M
6602	GRAB	30	30		GREGORY, M.R.	HALIFAX HARBOUR	44.6320	-63.5960	9 M
6603	GRAB	31	31		GREGORY, M.R.	HALIFAX HARBOUR	44.6323	-63.5964	42 M
6604	GRAB	32	32		GREGORY, M.R.	HALIFAX HARBOUR	44.6323	-63.5964	74 M
6605	GRAB	33	33		GREGORY, M.R.	HALIFAX HARBOUR	44.6313	-63.5943	44 M
6606	GRAB	34	34		GREGORY, M.R.	HALIFAX HARBOUR	44.6307	-63.5948	17 M
6607	GRAB	35	35		GREGORY, M.R.	HALIFAX HARBOUR	44.6300	-63.5960	22 M
6608	GRAB	36	36		GREGORY, M.R.	HALIFAX HARBOUR	44.6285	-63.5952	36 M
6609	GRAB	37	37		GREGORY, M.R.	HALIFAX HARBOUR	44.6285	-63.5910	31 M
6610	GRAB	38	38		GREGORY, M.R.	HALIFAX HARBOUR	44.6292	-63.5909	11 M
6611	GRAB	39	39		GREGORY, M.R.	HALIFAX HARBOUR	44.6300	-63.5930	15 M
6612	GRAB	40	40		GREGORY, M.R.	HALIFAX HARBOUR	44.6289	-63.5922	29 M
6613	GRAB	41	41		GREGORY, M.R.	HALIFAX HARBOUR	44.6278	-63.5929	14 M
6614	GRAB	42	42		GREGORY, M.R.	HALIFAX HARBOUR	44.6263	-63.5896	24 M
6615	GRAB	43	43		GREGORY, M.R.	HALIFAX HARBOUR	44.6275	-63.5890	16 M
6616	GRAB	44	44		GREGORY, M.R.	HALIFAX HARBOUR	44.6283	-63.5880	13 M
6617	GRAB	45	45		GREGORY, M.R.	HALIFAX HARBOUR	44.6270	-63.5842	22 M
6618	GRAB	46	46		GREGORY, M.R.	HALIFAX HARBOUR	44.6261	-63.5848	21 M
6619	GRAB	47	47		GREGORY, M.R.	HALIFAX HARBOUR	44.6250	-63.5856	10 M
6620	GRAB	48	48		GREGORY, M.R.	HALIFAX HARBOUR	44.6228	-63.5831	21 M
6621	GRAB	49	49		GREGORY, M.R.	HALIFAX HARBOUR	44.6237	-63.5812	24 M
6622	GRAB	50	50		GREGORY, M.R.	HALIFAX HARBOUR	44.6245	-63.5795	7 M
6623	GRAB	51	51		GREGORY, M.R.	HALIFAX HARBOUR	44.6235	-63.5784	3 M
6624	GRAB	52	52		GREGORY, M.R.	HALIFAX HARBOUR	44.6227	-63.5795	11 M
6625	GRAB	53	53		GREGORY, M.R.	HALIFAX HARBOUR	44.6216	-63.5800	8 M
6626	GRAB	54	54		GREGORY, M.R.	HALIFAX HARBOUR	44.6193	-63.5762	11 M
6627	GRAB	55	55		GREGORY, M.R.	HALIFAX HARBOUR	44.6199	-63.5750	11 M
6628	GRAB	56	56		GREGORY, M.R.	HALIFAX HARBOUR	44.6204	-63.5739	11 M
6629	GRAB	57	57		GREGORY, M.R.	HALIFAX HARBOUR	44.6200	-63.5724	14 M
6630	GRAB	58	58		GREGORY, M.R.	HALIFAX HARBOUR	44.6192	-63.5736	13 M
6631	GRAB	59	59		GREGORY, M.R.	HALIFAX HARBOUR	44.6182	-63.5749	19 M
6632	GRAB	60	60		GREGORY, M.R.	HALIFAX HARBOUR	44.6156	-63.5724	9 M
6633	GRAB	61	61		GREGORY, M.R.	HALIFAX HARBOUR	44.6164	-63.5719	5 M
6634	GRAB	62	62		GREGORY, M.R.	HALIFAX HARBOUR	44.6174	-63.5700	21 M
6635	GRAB	63	63		GREGORY, M.R.	HALIFAX HARBOUR	44.6184	-63.5699	15 M
6640	GRAB	68	68		GREGORY, M.R.	HALIFAX HARBOUR	44.6113	-63.5705	30 M
6641	GRAB	69	69		GREGORY, M.R.	HALIFAX HARBOUR	44.6101	-63.5685	25 M
6642	GRAB	70	70		GREGORY, M.R.	HALIFAX HARBOUR	44.6112	-63.5724	22 M
6643	GRAB	71	71		GREGORY, M.R.	HALIFAX HARBOUR	44.6125	-63.5633	28 M
6647	GRAB	75	77		GREGORY, M.R.	HALIFAX HARBOUR	44.6226	-63.5633	16 M
6648	GRAB	76	78		GREGORY, M.R.	HALIFAX HARBOUR	44.6221	-63.5621	16 M
6649	GRAB	77	79		GREGORY, M.R.	HALIFAX HARBOUR	44.6217	-63.5609	12 M
6650	GRAB	78	82		GREGORY, M.R.	HALIFAX HARBOUR	44.6229	-63.5506	24 M
6651	GRAB	79	83		GREGORY, M.R.	HALIFAX HARBOUR	44.6244	-63.5475	25 M
6652	GRAB	82	84		GREGORY, M.R.	HALIFAX HARBOUR	44.6245	-63.5453	12 M
6653	GRAB	83	85		GREGORY, M.R.	HALIFAX HARBOUR	44.6223	-63.5448	10 M
6654	GRAB	84	86		GREGORY, M.R.	HALIFAX HARBOUR	44.6212	-63.5455	10 M
6655	GRAB	85	87		GREGORY, M.R.	HALIFAX HARBOUR	44.6194	-63.5441	8 M

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6656	GRAB	86	88		GREGORY, M.R.	HALIFAX HARBOUR	44.6185	-63.5456	25 M
6658	GRAB	88	92		GREGORY, M.R.	HALIFAX HARBOUR	44.6164	-63.5592	4 M
6660	GRAB	92	94		GREGORY, M.R.	HALIFAX HARBOUR	44.6150	-63.5583	4 M
6661	GRAB	93	95		GREGORY, M.R.	HALIFAX HARBOUR	44.6122	-63.5610	25 M
6662	GRAB	94	96		GREGORY, M.R.	HALIFAX HARBOUR	44.6095	-63.5623	21 M
6664	GRAB	96	102		GREGORY, M.R.	HALIFAX HARBOUR	44.6129	-63.5692	48 M
6665	GRAB	97	1006		GREGORY, M.R.	HALIFAX HARBOUR	44.6192	-63.5639	52 M
6666	GRAB	102	107		GREGORY, M.R.	HALIFAX HARBOUR	44.6179	-63.5656	51 M
6667	GRAB	106	108		GREGORY, M.R.	HALIFAX HARBOUR	44.6155	-63.5665	49 M
6755	GRAB	SS-VI	41		PEZZETTA, J.M.	SCOTIAN SHELF	44.0833	-64.3667	
6756	GRAB	SS-II	57		PEZZETTA, J.M.	SCOTIAN SHELF	43.7333	-64.1667	
6756	GRAB	SS-II	57		PEZZETTA, J.M.	SCOTIAN SHELF	43.7333	-64.1667	
6759	GRAB	119	119		PEZZETTA, J.M.	SCOTIAN SHELF	44.5734	-62.9938	
6760	GRAB	235	235		PEZZETTA, J.M.	SCOTIAN SHELF	44.4025	-63.4689	
6766	GRAB	505-74-1	1		BARNES, N.E.	MAHONE BAY	44.5430	-64.2030	29 M
6767	GRAB	505-74-2	2		BARNES, N.E.	MAHONE BAY	44.5512	-64.1853	44 M
6768	GRAB	505-74-3	3		BARNES, N.E.	MAHONE BAY	44.4873	-64.1414	27 M
6769	GRAB	505-74-4	4		BARNES, N.E.	MAHONE BAY	44.4905	-64.1367	27 M
6770	GRAB	505-74-5	5		BARNES, N.E.	MAHONE BAY	44.5042	-64.1334	26 M
6771	GRAB	505-74-6	6		BARNES, N.E.	MAHONE BAY	44.5065	-64.1403	18 M
6772	GRAB	505-74-7	7		BARNES, N.E.	MAHONE BAY	44.5212	-64.1353	27 M
6773	GRAB	505-74-8	8		BARNES, N.E.	MAHONE BAY	44.5362	-64.1213	31 M
6774	GRAB	505-74-9	9		BARNES, N.E.	MAHONE BAY	44.5419	-64.0847	24 M
6775	GRAB	505-74-10	10		BARNES, N.E.	MAHONE BAY	44.5592	-64.1395	4 M
6776	GRAB	505-74-11	11		BARNES, N.E.	MAHONE BAY	44.5580	-64.1695	29 M
6777	GRAB	505-74-12	12		BARNES, N.E.	MAHONE BAY	44.5252	-64.2040	12 M
6778	GRAB	505-74-13	13		BARNES, N.E.	MAHONE BAY	44.5408	-64.1705	33 M
6779	GRAB	505-74-14	14		BARNES, N.E.	MAHONE BAY	44.5518	-64.1728	60 M
6780	GRAB	505-74-15	15		BARNES, N.E.	MAHONE BAY	44.5560	-64.1756	57 M
6781	GRAB	505-74-16	16		BARNES, N.E.	MAHONE BAY	44.5598	-64.1843	42 M
6783	GRAB	505-74-19	18		BARNES, N.E.	MAHONE BAY	44.5344	-64.1710	14 M
6784	GRAB	505-74-20	19		BARNES, N.E.	MAHONE BAY	44.5333	-64.1719	11 M
6785	GRAB	505-74-21	20		BARNES, N.E.	MAHONE BAY	44.5224	-64.1734	22 M
6786	GRAB	505-74-22	21		BARNES, N.E.	MAHONE BAY	44.5341	-64.1566	16 M
6787	GRAB	505-74-23	22		BARNES, N.E.	MAHONE BAY	44.5217	-64.1550	49 M
6788	GRAB	505-74-24	23		BARNES, N.E.	MAHONE BAY	44.5040	-64.1734	37 M
6789	GRAB	505-74-25	24		BARNES, N.E.	MAHONE BAY	44.4085	-64.1736	30 M
6790	GRAB	505-74-26	25		BARNES, N.E.	MAHONE BAY	44.4864	-64.1727	8 M
6791	GRAB	505-74-27	26		BARNES, N.E.	MAHONE BAY	44.4838	-64.1727	6 M
6792	GRAB	505-74-28	27		BARNES, N.E.	MAHONE BAY	44.4745	-64.1736	31 M
6793	GRAB	505-74-29	28		BARNES, N.E.	MAHONE BAY	44.4719	-64.1737	30 M
6794	GRAB	505-74-30	29		BARNES, N.E.	MAHONE BAY	44.4692	-64.1842	37 M
6795	GRAB	505-74-31	30		BARNES, N.E.	MAHONE BAY	44.4742	-64.1689	14 M
6796	GRAB	505-74-32	31		BARNES, N.E.	MAHONE BAY	44.4667	-64.1560	24 M
6797	GRAB	505-74-33	32		BARNES, N.E.	MAHONE BAY	44.4685	-64.1520	6 M
6798	GRAB	505-74-34	33		BARNES, N.E.	MAHONE BAY	44.5393	-64.1237	9 M
6799	GRAB	505-74-35	34		BARNES, N.E.	MAHONE BAY	44.5394	-64.1352	41 M
6800	GRAB	505-74-36	35		BARNES, N.E.	MAHONE BAY	44.5398	-64.1370	27 M
6801	GRAB	505-74-37	36		BARNES, N.E.	MAHONE BAY	44.5400	-64.1398	17 M
6802	GRAB	505-74-38	37		BARNES, N.E.	MAHONE BAY	44.5388	-64.1550	26 M
6803	GRAB	505-74-39	38		BARNES, N.E.	MAHONE BAY	44.5383	-64.1592	46 M
6804	GRAB	505-74-40	39		BARNES, N.E.	MAHONE BAY	44.5373	-64.1691	42 M
6805	GRAB	505-74-41	40		BARNES, N.E.	MAHONE BAY	44.5388	-64.1721	16 M
6806	GRAB	505-74-42	41		BARNES, N.E.	MAHONE BAY	44.5413	-64.1676	4 M
6807	GRAB	505-74-43	42		BARNES, N.E.	MAHONE BAY	44.5431	-64.1587	46 M
6808	GRAB	505-74-44	43		BARNES, N.E.	MAHONE BAY	44.5506	-64.1554	33 M
6809	GRAB	505-74-45	44		BARNES, N.E.	MAHONE BAY	44.5503	-64.1515	17 M
6810	GRAB	505-74-46	45		BARNES, N.E.	MAHONE BAY	44.5563	-64.1423	22 M
6811	GRAB	505-74-47	46		BARNES, N.E.	MAHONE BAY	44.5678	-64.1747	24 M
6812	GRAB	505-74-48	47		BARNES, N.E.	MAHONE BAY	44.5535	-64.1396	37 M
6813	GRAB	505-74-49	48		BARNES, N.E.	MAHONE BAY	44.5667	-64.1750	23 M
6814	GRAB	505-74-50	49		BARNES, N.E.	MAHONE BAY	44.5684	-64.1846	38 M
6815	GRAB	505-74-51	50		BARNES, N.E.	MAHONE BAY	44.5721	-64.1908	23 M
6816	GRAB	505-74-52	51		BARNES, N.E.	MAHONE BAY	44.5697	-64.2003	27 M
6817	GRAB	505-74-53	52		BARNES, N.E.	MAHONE BAY	44.5678	-64.1914	20 M
6818	GRAB	505-74-54	53		BARNES, N.E.	MAHONE BAY	44.5673	-64.2013	37 M
6819	GRAB	505-74-55	54		BARNES, N.E.	MAHONE BAY	44.5545	-64.1896	16 M
6820	GRAB	505-74-56	55		BARNES, N.E.	MAHONE BAY	44.5567	-64.1902	45 M
6821	GRAB	505-74-57	56		BARNES, N.E.	MAHONE BAY	44.5428	-64.1766	40 M
6822	GRAB	505-74-58	57		BARNES, N.E.	MAHONE BAY	44.5419	-64.1747	45 M
6823	GRAB	505-74-59	58		BARNES, N.E.	MAHONE BAY	44.5383	-64.1846	43 M
6824	GRAB	505-74-60	59		BARNES, N.E.	MAHONE BAY	44.5391	-64.1874	36 M
6825	GRAB	505-74-61	60		BARNES, N.E.	MAHONE BAY	44.3745	-64.0707	33 M
6826	GRAB	505-74-62-63	61		BARNES, N.E.	MAHONE BAY	44.3680	-64.0588	42 M
6827	GRAB	505-74-64-65	62		BARNES, N.E.	MAHONE BAY	44.3706	-64.0685	47 M
6828	GRAB	505-74-66-68	63		BARNES, N.E.	MAHONE BAY	44.3838	-64.0763	43 M
6829	GRAB	505-74-69-70	64		BARNES, N.E.	MAHONE BAY	44.3883	-64.0878	35 M
6830	GRAB	505-74-71-73	65		BARNES, N.E.	MAHONE BAY	44.4005	-64.0891	33 M
6831	GRAB	505-74-74	66		BARNES, N.E.	MAHONE BAY	44.4053	-64.0902	29 M
6832	GRAB	505-74-75	67		BARNES, N.E.	MAHONE BAY	44.4173	-64.0909	24 M
6833	GRAB	505-74-76-78	68		BARNES, N.E.	MAHONE BAY	44.4232	-64.0915	22 M
6834	GRAB	505-74-79-80	69		BARNES, N.E.	MAHONE BAY	44.4371	-64.0877	15 M

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
6836	GRAB	505-74-81-82	70		BARNES, N.E.	MAHONE BAY	44.4360	-64.0903	.5 M
6838	GRAB	505-74-83-85	71		BARNES, N.E.	MAHONE BAY	44.4365	-64.1026	.5 M
6839	GRAB	505-74-86-87	72		BARNES, N.E.	MAHONE BAY	44.4346	-64.1064	14 M
6840	GRAB	505-74-88	73		BARNES, N.E.	MAHONE BAY	44.4227	-64.1039	16 M
6841	GRAB	505-74-89	74		BARNES, N.E.	MAHONE BAY	44.4353	-64.1181	16 M
6842	GRAB	505-74-90-91	75		BARNES, N.E.	MAHONE BAY	44.4257	-64.1095	11 M
6843	GRAB	505-74-92-94	76		BARNES, N.E.	MAHONE BAY	44.4333	-64.1177	19 M
6844	GRAB	505-74-95-97	77		BARNES, N.E.	MAHONE BAY	44.4064	-64.1343	26 M
6845	GRAB	505-74-98-99	78		BARNES, N.E.	MAHONE BAY	44.4038	-64.1542	20 M
6846	GRAB	505-74-100-102	79		BARNES, N.E.	MAHONE BAY	44.3833	-64.1550	15 M.
6847	GRAB	505-74-103-104	80		BARNES, N.E.	MAHONE BAY	44.3727	-64.1519	25 M
6848	GRAB	505-74-105-106	81		BARNES, N.E.	MAHONE BAY	44.4378	-64.1695	29 M
6849	GRAB	505-74-107	82		BARNES, N.E.	MAHONE BAY	44.3889	-64.1873	16 M
6850	GRAB	505-74-108	83		BARNES, N.E.	MAHONE BAY	44.3911	-64.1884	16 M
6851	GRAB	505-74-109	84		BARNES, N.E.	MAHONE BAY	44.4014	-64.1884	15 M
6852	GRAB	505-74-110	85		BARNES, N.E.	MAHONE BAY	44.4177	-64.1592	22 M
6853	GRAB	505-74-111	86		BARNES, N.E.	MAHONE BAY	44.4227	-64.1702	26 M
6854	GRAB	505-74-112	87		BARNES, N.E.	MAHONE BAY	44.4335	-64.1736	40 M
6855	GRAB	505-74-113	88		BARNES, N.E.	MAHONE BAY	44.4348	-64.1851	26 M
6856	GRAB	505-74-114	89		BARNES, N.E.	MAHONE BAY	44.4368	-64.1878	24 M
6857	GRAB	505-74-117	92		BARNES, N.E.	MAHONE BAY	44.5573	-64.1762	17 M
6858	GRAB	505-74-218	93		BARNES, N.E.	MAHONE BAY	44.5046	-64.1696	57 M
6859	GRAB	505-75-219	94		BARNES, N.E.	MAHONE BAY	44.5046	-64.1697	11 M
6860	GRAB	505-75-220	95		BARNES, N.E.	MAHONE BAY	44.5052	-64.1699	9 M
6861	GRAB	505-75-221	96		BARNES, N.E.	MAHONE BAY	44.5055	-64.1712	11 M
6862	GRAB	505-75-222	97		BARNES, N.E.	MAHONE BAY	44.5060	-64.1712	15 M
6863	GRAB	505-75-223	98		BARNES, N.E.	MAHONE BAY	44.5087	-64.1739	27 M
6864	GRAB	505-75-224	99		BARNES, N.E.	MAHONE BAY	44.5062	-64.2080	45 M
6865	GRAB	505-75-225	100		BARNES, N.E.	MAHONE BAY	44.5077	-64.2019	25 M
6866	GRAB	505-75-226	101		BARNES, N.E.	MAHONE BAY	44.5078	-64.2012	32 M
6867	GRAB	505-75-227	102		BARNES, N.E.	MAHONE BAY	44.4760	-64.1675	32 M
6868	GRAB	505-75-228	103		BARNES, N.E.	MAHONE BAY	44.4848	-64.1593	19 M
6869	GRAB	505-75-229	104		BARNES, N.E.	MAHONE BAY	44.4881	-64.1575	27 M
6870	GRAB	505-75-230	105		BARNES, N.E.	MAHONE BAY	44.4926	-64.1564	40 M
6871	GRAB	505-75-231	106		BARNES, N.E.	MAHONE BAY	44.4890	-64.1590	54 M
6872	GRAB	505-75-232	107		BARNES, N.E.	MAHONE BAY	44.4762	-64.1710	38 M
6873	GRAB	505-75-233	108		BARNES, N.E.	MAHONE BAY	44.4711	-64.1753	47 M
6874	GRAB	505-75-234	109		BARNES, N.E.	MAHONE BAY	44.4214	-64.1754	39 M
6875	GRAB	505-75-235	110		BARNES, N.E.	MAHONE BAY	44.4739	-64.1749	41 M
6876	GRAB	505-75-236-237	111		BARNES, N.E.	MAHONE BAY	44.4743	-64.1724	42 M
6878	GRAB	505-75-238	112		BARNES, N.E.	MAHONE BAY	44.4833	-64.1693	46 M
6879	GRAB	505-75-239	113		BARNES, N.E.	MAHONE BAY	44.4833	-64.1700	48 M
6880	GRAB	505-75-240	114		BARNES, N.E.	MAHONE BAY	44.4843	-64.1695	44 M
6881	GRAB	505-74-18	17		BARNES, N.E.	MAHONE BAY	44.5681	-64.1849	26 M
6882	GRAB	505-74-115	90		BARNES, N.E.	MAHONE BAY	44.4095	-64.1192	39 M
6883	GRAB	505-74-116	91		BARNES, N.E.	MAHONE BAY	44.4672	-64.1396	12 M
6912	GRAB	1	1		BARRETT, D.	ST. MARGARETS BAY	44.6728	-63.9683	4 M
6913	GRAB	3	3		BARRETT, D.	ST. MARGARETS BAY	44.6678	-63.9667	8 M
6914	GRAB	4	4		BARRETT, D.	ST. MARGARETS BAY	44.6575	-63.9633	11 M
6915	GRAB	5	5		BARRETT, D.	ST. MARGARETS BAY	44.6433	-63.9575	5 M
6916	GRAB	6	6		BARRETT, D.	ST. MARGARETS BAY	44.6717	-63.9217	
6917	GRAB	7	7		BARRETT, D.	ST. MARGARETS BAY	43.6600	-63.9083	1 M
6919	GRAB	12	12		BARRETT, D.	ST. MARGARETS BAY	44.6597	-63.9417	2 M
6920	GRAB	14	14		BARRETT, D.	ST. MARGARETS BAY	44.6961	-63.9194	8 M
6921	GRAB	16	16		BARRETT, D.	ST. MARGARETS BAY	44.6775	-63.9156	3 M
6922	GRAB	18	18		BARRETT, D.	ST. MARGARETS BAY	44.6794	-63.9175	5 M
6923	GRAB	19	19		BARRETT, D.	ST. MARGARETS BAY	44.6842	-63.9108	4 M
6924	GRAB	23	23		BARRETT, D.	ST. MARGARETS BAY	44.6894	-63.9083	1 M
6925	GRAB	30	30		BARRETT, D.	ST. MARGARETS BAY	44.6822	-63.9075	6 M
6926	GRAB	31	31		BARRETT, D.	ST. MARGARETS BAY	44.6767	-63.9089	11 M
6927	GRAB	33	33		BARRETT, D.	ST. MARGARETS BAY	44.6558	-63.9339	3 M
6928	GRAB	36	36		BARRETT, D.	ST. MARGARETS BAY	44.6908	-63.8922	2 M
6929	GRAB	39	39		BARRETT, D.	ST. MARGARETS BAY	44.6772	-63.8931	2 M
6930	GRAB	41	41		BARRETT, D.	ST. MARGARETS BAY	43.6661	-63.8964	2 M
6931	GRAB	42	42		BARRETT, D.	ST. MARGARETS BAY	44.6575	-62.3933	16 M
6932	GRAB	44	44		BARRETT, D.	ST. MARGARETS BAY	44.6508	-63.9742	6 M
6933	GRAB	46	46		BARRETT, D.	ST. MARGARETS BAY	44.6592	-63.9994	.3 M
6934	GRAB	48	48		BARRETT, D.	ST. MARGARETS BAY	44.6558	-63.8292	.3 M
6935	GRAB	51	51		BARRETT, D.	ST. MARGARETS BAY	44.6522	-63.9922	8 M
6936	GRAB	65	65		BARRETT, D.	ST. MARGARETS BAY	44.6525	-63.9658	20 M
6937	GRAB	70	70		BARRETT, D.	ST. MARGARETS BAY	44.6478	-63.9989	5 M
6938	GRAB	73	73		BARRETT, D.	ST. MARGARETS BAY	44.6444	-63.9981	15 M
6939	GRAB	79	79		BARRETT, D.	ST. MARGARETS BAY	44.6667	-63.9006	2 M
6940	GRAB	80	80		BARRETT, D.	ST. MARGARETS BAY	44.6683	-63.9083	8 M
6941	GRAB	82	82		BARRETT, D.	ST. MARGARETS BAY	44.6639	-63.9014	2 M
6942	GRAB	85	85		BARRETT, D.	ST. MARGARETS BAY	44.6425	-63.9328	10 M
6943	GRAB	89	89		BARRETT, D.	ST. MARGARETS BAY	44.6394	-63.9114	.5 M
6944	GRAB	92	92		BARRETT, D.	ST. MARGARETS BAY	44.6433	-63.9150	3 M
6945	GRAB	96	96		BARRETT, D.	ST. MARGARETS BAY	44.6450	-63.9247	6 M
6946	GRAB	100	100		BARRETT, D.	ST. MARGARETS BAY	44.6378	-64.0131	18 M
6947	GRAB	104	104		BARRETT, D.	ST. MARGARETS BAY	44.6325	-64.0300	5 M
6948	GRAB	105	105		BARRETT, D.	ST. MARGARETS BAY	44.6311	-64.0239	10 M

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6949	GRAB	107	107		BARRETT, D.	ST. MARGARETS BAY	44.6400	-64.0564	3 M
6950	GRAB	110	110		BARRETT, D.	ST. MARGARETS BAY	44.6381	-64.0592	4 M
6951	GRAB	112	112		BARRETT, D.	ST. MARGARETS BAY	44.6372	-64.0578	11 M
6952	GRAB	115	115		BARRETT, D.	ST. MARGARETS BAY	44.6272	-64.0564	13 M
6953	GRAB	117	117		BARRETT, D.	ST. MARGARETS BAY	44.6311	-64.0606	12 M
6954	GRAB	122	122		BARRETT, D.	ST. MARGARETS BAY	44.6589	-63.9314	19 M
6955	GRAB	125	125		BARRETT, D.	ST. MARGARETS BAY	44.6342	-63.9181	6 M
6956	GRAB	130	130		BARRETT, D.	ST. MARGARETS BAY	44.5728	-63.9206	1 M
6957	GRAB	132	132		BARRETT, D.	ST. MARGARETS BAY	44.5828	-63.9192	6 M
6958	GRAB	136	136		BARRETT, D.	ST. MARGARETS BAY	44.6267	-63.9417	27 M
6959	GRAB	139	139		BARRETT, D.	ST. MARGARETS BAY	44.6094	-63.9422	14 M
6960	GRAB	141	141		BARRETT, D.	ST. MARGARETS BAY	44.6075	-63.9303	3 M
6961	GRAB	144	144		BARRETT, D.	ST. MARGARETS BAY	44.6183	-63.9353	7 M
6962	GRAB	148	148		BARRETT, D.	LAHAVE ESTUARY	44.5456	-64.2469	3 M
6963	GRAB	149	149		BARRETT, D.	MAHONE BAY	44.5444	-64.2489	4 M
6964	GRAB	151	151		BARRETT, D.	MAHONE BAY	44.5397	-64.2500	4 M
6965	GRAB	154	154		BARRETT, D.	MAHONE BAY	44.5508	-64.2661	2 M
6966	GRAB	159	159		BARRETT, D.	MAHONE BAY	44.5394	-64.2606	6 M
6967	GRAB	163	163		BARRETT, D.	MAHONE BAY	44.5525	-64.2744	1 M
6968	GRAB	165	165		BARRETT, D.	MAHONE BAY	44.5475	-64.2728	4 M
6969	GRAB	167	167		BARRETT, D.	MAHONE BAY	44.5367	-64.2442	3 M
6970	GRAB	168	168		BARRETT, D.	MAHONE BAY	44.5375	-64.2439	
6971	GRAB	171	171		BARRETT, D.	MAHONE BAY	44.5325	-64.2283	11 M
6972	GRAB	172	172		BARRETT, D.	MAHONE BAY	44.5294	-64.2214	4 M
6973	GRAB	175	175		BARRETT, D.	MAHONE BAY	44.5311	-64.2161	22 M
6974	GRAB	178	178		BARRETT, D.	MAHONE BAY	44.5256	-64.2450	4 M
6975	GRAB	180	180		BARRETT, D.	MAHONE BAY	44.5267	-64.2522	11 M
6976	GRAB	181	181		BARRETT, D.	MAHONE BAY	44.5292	-64.2553	1 M
6977	GRAB	184	184		BARRETT, D.	MAHONE BAY	44.5322	-64.2694	15 M
6978	GRAB	186	186		BARRETT, D.	MAHONE BAY	44.3739	-64.2378	3 M
6979	GRAB	187	187		BARRETT, D.	MAHONE BAY	44.5378	-64.2383	19 M
6980	GRAB	188	188		BARRETT, D.	MAHONE BAY	44.5317	-64.2361	16 M
6981	GRAB	190	190		BARRETT, D.	MAHONE BAY	44.5267	-64.2300	.5 M
6982	GRAB	192	192		BARRETT, D.	MAHONE BAY	44.5444	-64.2822	3 M
6983	GRAB	193	193		BARRETT, D.	MAHONE BAY	44.5414	-64.2822	15 M
6984	GRAB	197	197		BARRETT, D.	MAHONE BAY	44.5522	-64.2828	1 M
6985	GRAB	200	200		BARRETT, D.	MAHONE BAY	44.5319	-64.2872	1 M
6986	GRAB	201	201		BARRETT, D.	MAHONE BAY	44.5294	-64.2881	2 M
6987	GRAB	202	202		BARRETT, D.	MAHONE BAY	44.5281	-64.2892	2 M
6988	GRAB	204	204		BARRETT, D.	MAHONE BAY	44.5258	-64.2986	7 M
6989	GRAB	205	205		BARRETT, D.	MAHONE BAY	44.5278	-64.2983	2 M
6990	GRAB	206	206		BARRETT, D.	MAHONE BAY	44.5282	-64.2969	2 M
6991	GRAB	210	210		BARRETT, D.	MAHONE BAY	44.5683	-64.3050	1 M
6992	GRAB	211	211		BARRETT, D.	MAHONE BAY	44.5678	-64.3047	1 M
6993	GRAB	213	213		BARRETT, D.	MAHONE BAY	44.5572	-64.3072	1 M
6994	GRAB	215	215		BARRETT, D.	MAHONE BAY	44.5556	-64.3058	1 M
6995	GRAB	218	218		BARRETT, D.	MAHONE BAY	44.5672	-64.2125	2 M
6996	GRAB	220	220		BARRETT, D.	MAHONE BAY	44.5625	-64.2139	1 M
6997	GRAB	222	222		BARRETT, D.	MAHONE BAY	44.5575	-64.2133	13 M
6998	GRAB	223	223		BARRETT, D.	MAHONE BAY	44.4592	-64.0750	20 M
6999	GRAB	224	224		BARRETT, D.	MAHONE BAY	44.4839	-64.0450	18 M
7000	GRAB	225	225		BARRETT, D.	MAHONE BAY	44.4222	-64.0728	32 M
7001	GRAB	226	226		BARRETT, D.	MAHONE BAY	44.3944	-64.0550	34 M
7002	GRAB	227	227		BARRETT, D.	MAHONE BAY	44.3756	-64.0450	32 M
7003	GRAB	228	228		BARRETT, D.	MAHONE BAY	44.4150	-64.0964	30 M
7004	GRAB	229	229		BARRETT, D.	MAHONE BAY	44.4425	-64.1131	28 M
7005	GRAB	230	230		BARRETT, D.	MAHONE BAY	44.4394	-64.1428	33 M
7006	GRAB	231	231		BARRETT, D.	MAHONE BAY	44.4475	-64.1589	12 M
7007	GRAB	232	232		BARRETT, D.	MAHONE BAY	44.4475	-64.1689	2 M
7008	GRAB	233	233		BARRETT, D.	MAHONE BAY	44.4300	-64.1653	32 M
7009	GRAB	234	234		BARRETT, D.	MAHONE BAY	44.4178	-64.1500	12 M
7010	GRAB	235	235		BARRETT, D.	MAHONE BAY	44.4450	-64.1953	32 M
7011	GRAB	236	236		BARRETT, D.	MAHONE BAY	44.5833	-64.1722	11 M
7012	GRAB	237	237		BARRETT, D.	MAHONE BAY	44.5772	-64.1733	16 M
7013	GRAB	238	238		BARRETT, D.	MAHONE BAY	44.5694	-64.1742	44 M
7014	GRAB	239	239		BARRETT, D.	MAHONE BAY	44.5531	-64.1731	46 M
7015	GRAB	241	241		BARRETT, D.	MAHONE BAY	44.5203	-64.1706	54 M
7016	GRAB	243	243		BARRETT, D.	MAHONE BAY	44.4800	-64.1561	24 M
7017	GRAB	245	245		BARRETT, D.	MAHONE BAY	44.4625	-64.1931	34 M
7018	GRAB	247	247		BARRETT, D.	MAHONE BAY	44.4986	-64.2167	40 M
7019	GRAB	249	249		BARRETT, D.	MAHONE BAY	44.5117	-64.2303	30 M
7020	GRAB	250	250		BARRETT, D.	MAHONE BAY	44.5128	-64.2747	13 M
7021	GRAB	252	252		BARRETT, D.	MAHONE BAY	44.4917	-64.2600	35 M
7022	GRAB	253	253		BARRETT, D.	MAHONE BAY	44.4733	-64.2511	27 M
7023	GRAB	256	256		BARRETT, D.	MAHONE BAY	44.4444	-64.2289	20 M
7024	GRAB	258	258		BARRETT, D.	MAHONE BAY	44.4378	-64.2897	38 M
7025	GRAB	260	260		BARRETT, D.	MAHONE BAY	44.4061	-64.2022	32 M
7026	GRAB	263	263		BARRETT, D.	MAHONE BAY	44.4425	-64.3506	16 M
7027	GRAB	265	265		BARRETT, D.	MAHONE BAY	44.4308	-64.3100	28 M
7028	GRAB	267	267		BARRETT, D.	MAHONE BAY	44.4550	-64.3789	.3 M
7029	GRAB	268	268		BARRETT, D.	MAHONE BAY	44.4533	-64.3811	.3 M
7030	GRAB	269	269		BARRETT, D.	MAHONE BAY	44.4517	-64.3794	.3 M

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
7031	GRAB	271	271		BARRETT, D.	MAHONE BAY	44.4500	-64.3800	.3 M
7032	GRAB	279	279		BARRETT, D.	MAHONE BAY	44.4217	-64.2469	25 M
7033	GRAB	280	280		BARRETT, D.	MAHONE BAY	44.4478	-64.2408	20 M
7034	GRAB	283	283		BARRETT, D.	MAHONE BAY	44.4094	-64.3356	2 M
7035	GRAB	286	286		BARRETT, D.	MAHONE BAY	44.4153	-64.3342	4 M
7036	GRAB	289	289		BARRETT, D.	MAHONE BAY	44.4072	-64.3239	12 M
7037	GRAB	293	293		BARRETT, D.	LAHAVE ESTUARY	44.5394	-64.0022	74 M
7038	GRAB	294	294		BARRETT, D.	ST. MARGARETS BAY	44.5514	-64.0033	68 M
7039	GRAB	296	296		BARRETT, D.	ST. MARGARETS BAY	44.5961	-64.0100	42 M
7040	GRAB	297	297		BARRETT, D.	ST. MARGARETS BAY	44.6242	-64.0139	36 M
7041	GRAB	298	298		BARRETT, D.	ST. MARGARETS BAY	44.6061	-64.0350	24 M
7042	GRAB	300	300		BARRETT, D.	ST. MARGARETS BAY	44.5986	-64.0494	38 M
7043	GRAB	305	305		BARRETT, D.	ST. MARGARETS BAY	43.5092	-63.9783	46 M
7044	GRAB	307	307		BARRETT, D.	ST. MARGARETS BAY	43.5444	-63.9783	60 M
7045	GRAB	309	309		BARRETT, D.	ST. MARGARETS BAY	43.5894	-63.9783	48 M
7046	GRAB	310	310		BARRETT, D.	ST. MARGARETS BAY	43.6283	-63.9783	29 M
7047	GRAB	312	312		BARRETT, D.	ST. MARGARETS BAY	43.6172	-63.9547	28 M
7048	GRAB	315	315		BARRETT, D.	ST. MARGARETS BAY	44.5567	-63.9539	22 M
7049	GRAB	320	320		BARRETT, D.	LAHAVE ESTUARY	44.5525	-64.3250	2 M
7050	GRAB	321	321		BARRETT, D.	MAHONE BAY	44.5489	-64.3189	3 M
7051	GRAB	323	323		BARRETT, D.	MAHONE BAY	44.5442	-64.3144	3 M
7052	GRAB	324	324		BARRETT, D.	MAHONE BAY	44.5261	-64.1042	3 M
7053	GRAB	328	328		BARRETT, D.	MAHONE BAY	44.5389	-64.1406	12 M
7054	GRAB	330	330		BARRETT, D.	MAHONE BAY	44.5544	-64.1353	38 M
7055	GRAB	334	334		BARRETT, D.	MAHONE BAY	44.5694	-64.1439	18 M
7056	GRAB	336	336		BARRETT, D.	MAHONE BAY	44.4853	-64.3336	1 M
7057	GRAB	340	340		BARRETT, D.	MAHONE BAY	44.4767	-64.3072	10 M
7058	GRAB	345	345		BARRETT, D.	MAHONE BAY	44.4886	-64.3167	2 M
7059	GRAB	349	349		BARRETT, D.	MAHONE BAY	44.4872	-64.2989	6 M
7060	GRAB	351	351		BARRETT, D.	MAHONE BAY	44.4681	-64.3294	12 M
7061	GRAB	352	352		BARRETT, D.	MAHONE BAY	44.4694	-64.3258	.3 M
7062	GRAB	357	357		BARRETT, D.	MAHONE BAY	44.4708	-64.2939	4 M
7063	GRAB	360	360		BARRETT, D.	MAHONE BAY	44.4617	-64.3092	11 M
7064	GRAB	367	367		BARRETT, D.	MAHONE BAY	44.4453	-64.3097	12 M
7065	GRAB	370	370		BARRETT, D.	MAHONE BAY	44.5828	-64.2006	13 M
7066	GRAB	372	372		BARRETT, D.	MAHONE BAY	44.5419	-64.1850	16 M
7067	GRAB	376	376		BARRETT, D.	MAHONE BAY	44.5122	-64.2992	2 M
7068	GRAB	378	378		BARRETT, D.	MAHONE BAY	44.5122	-64.3086	.3 M
7069	GRAB	379	379		BARRETT, D.	MAHONE BAY	44.5136	-64.3108	.3 M
7070	GRAB	380	380		BARRETT, D.	MAHONE BAY	44.5164	-64.3033	4 M
7071	GRAB	384	384		BARRETT, D.	MAHONE BAY	44.3644	-64.1672	18 M
7072	GRAB	385	385		BARRETT, D.	MAHONE BAY	44.3506	-64.1611	26 M
7073	GRAB	394	394		BARRETT, D.	MAHONE BAY	44.5650	-64.1925	53 M
7074	GRAB	400	400		BARRETT, D.	MAHONE BAY	44.4744	-64.3089	9 M
7075	GRAB	404	404		BARRETT, D.	MAHONE BAY	44.4519	-64.3306	2 M
7076	GRAB	410	410		BARRETT, D.	MAHONE BAY	44.4167	-64.2939	2 M
7077	GRAB	415	415		BARRETT, D.	MAHONE BAY	44.4436	-64.2908	19 M
7078	GRAB	421	421		BARRETT, D.	MAHONE BAY	44.4258	-64.3225	13 M
7079	GRAB	426	426		BARRETT, D.	MAHONE BAY	44.4567	-64.2589	10 M
7080	GRAB	428	428		BARRETT, D.	MAHONE BAY	44.4728	-64.2631	20 M
7763	DRILL	21A	21A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7426	-63.2318	.5 M
7764	DRILL	21B	21B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7427	-63.2312	.75 M
7765	DRILL	21C	21C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7425	-63.2307	2 M
7766	DRILL	21D	21D		SCOTT, D.B.	CHEZZETCOOK INLET	44.7424	-63.2302	.3 M
7767	DRILL	22A	22A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7407	-63.2324	.3 M
7768	DRILL	22B	22B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7413	-63.2315	1.5 M
7769	DRILL	22C	22C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7412	-63.2304	.3 M
7770	DRILL	22D	22D		SCOTT, D.B.	CHEZZETCOOK INLET	44.7409	-63.2293	.3 M
7771	DRILL	23A	23A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7387	-63.2344	.3 M
7772	DRILL	23B	23B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7390	-63.2338	2.5 M
7773	DRILL	23C	23C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7391	-63.2325	.3 M
7774	DRILL	24A	24A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7373	-63.2358	1 M
7775	DRILL	24B	24B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7371	-63.2347	2 M
7776	DRILL	24C	24C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7369	-63.2334	1 M
7777	DRILL	25A	25A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7362	-63.2339	1.5 M
7778	DRILL	25B	25B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7360	-63.2334	1 M
7779	DRILL	25C	25C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7354	-63.2326	1 M
7780	DRILL	26A	26A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7351	-63.2380	1.5 M
7781	DRILL	26B	26B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7353	-63.2373	1.5 M
7782	DRILL	26C	26C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7355	-63.2361	1 M
7783	DRILL	27A	27A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7360	-63.2405	1 M
7784	DRILL	27B	27B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7349	-63.2403	4 M
7785	DRILL	27C	27C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7342	-63.2400	1 M
7786	DRILL	28A	28A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7384	-63.2571	.5 M
7787	DRILL	28B	28B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7386	-63.2572	1.5 M
7788	DRILL	28C	28C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7392	-63.2569	1 M
7789	DRILL	29A	29A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7376	-63.2548	.75 M
7790	DRILL	29B	29B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7381	-63.2542	1.5 M
7791	DRILL	29C	29C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7387	-63.2538	.5 M
7792	DRILL	30A	30A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7372	-63.2523	1 M
7793	DRILL	30B	30B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7375	-63.2521	2 M
7794	DRILL	30C	30C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7379	-63.2518	.5 M

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
7795	DRILL	31A	31A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7358	-63.2501	1 M
7796	DRILL	31B	31B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7362	-63.2497	2.5 M
7797	DRILL	31C	31C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7366	-63.2492	.75 M
7798	DRILL	32A	32A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7347	-63.2476	.25 M
7799	DRILL	32B	32B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7349	-63.2468	2 M
7800	DRILL	32C	32C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7354	-63.2461	.25 M
7801	DRILL	33A	33A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7337	-63.2453	1 M
7802	DRILL	33B	33B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7333	-63.2433	3 M
7803	DRILL	33C	33C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7332	-63.2416	1 M
7804	DRILL	33D	33D		SCOTT, D.B.	CHEZZETCOOK INLET	44.7275	-63.2469	1 M
7805	DRILL	34A	34A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7276	-63.2462	1 M
7806	DRILL	34B	34B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7280	-63.2430	1 M
7807	DRILL	34C	34C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7296	-63.2390	3 M
7808	DRILL	34D	34D		SCOTT, D.B.	CHEZZETCOOK INLET	44.7296	-63.2391	1 M
7809	DRILL	35A	35A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7216	-63.2461	4 M
7810	DRILL	35B	35B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7225	-63.2434	.5 M
7811	DRILL	35C	35C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7235	-63.2406	1 M
7812	DRILL	35D	35D		SCOTT, D.B.	CHEZZETCOOK INLET	44.7240	-63.2387	1 M
7813	DRILL	35E	35E		SCOTT, D.B.	CHEZZETCOOK INLET	44.7244	-63.2373	1 M
7814	DRILL	36A	36A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7175	-63.2535	1 M
7815	DRILL	36B	36B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7179	-63.2529	1.3 M
7816	DRILL	36C	36C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7177	-63.2510	3 M
7817	DRILL	36D	36D		SCOTT, D.B.	CHEZZETCOOK INLET	44.7190	-63.2490	1 M
7818	DRILL	36E	36E		SCOTT, D.B.	CHEZZETCOOK INLET	44.7198	-63.2474	1 M
7819	DRILL	36F	36F		SCOTT, D.B.	CHEZZETCOOK INLET	44.7204	-63.2453	3 M
7820	DRILL	36G	36G		SCOTT, D.B.	CHEZZETCOOK INLET	44.7209	-63.2426	1 M
7821	DRILL	37A	37A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7150	-63.2408	1 M
7822	DRILL	37B	37B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7155	-63.2399	5 M
7823	DRILL	37C	37C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7172	-63.2391	.1 M
7824	DRILL	37D	37D		SCOTT, D.B.	CHEZZETCOOK INLET	44.7178	-63.2375	1 M
7825	DRILL	37E	37E		SCOTT, D.B.	CHEZZETCOOK INLET	44.7185	-63.2355	.7 M
7826	DRILL	37F	37F		SCOTT, D.B.	CHEZZETCOOK INLET	44.7189	-63.2348	4 M
7827	DRILL	38A	38A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7124	-63.2376	1 M
7828	DRILL	38B	38B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7127	-63.2367	1 M
7829	DRILL	38C	38C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7119	-63.2323	5 M
7830	DRILL	39A	39A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7106	-63.2495	1 M
7831	DRILL	39B	39B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7111	-63.2489	1 M
7832	DRILL	39C	39C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7132	-63.2464	4 M
7833	DRILL	40A	40A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7056	-63.2536	1 M
7834	DRILL	40B	40B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7067	-63.2532	5 M
7835	DRILL	40C	40C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7073	-63.2513	.75 M
7836	DRILL	40D	40D		SCOTT, D.B.	CHEZZETCOOK INLET	44.7068	-63.2501	1 M
7837	DRILL	40E	40E		SCOTT, D.B.	CHEZZETCOOK INLET	44.7074	-63.2459	.1 M
7838	DRILL	41A	41A		SCOTT, D.B.	CHEZZETCOOK INLET	44.7043	-63.2497	1 M
7839	DRILL	41B	41B		SCOTT, D.B.	CHEZZETCOOK INLET	44.7048	-63.2492	4 M
7840	DRILL	41C	41C		SCOTT, D.B.	CHEZZETCOOK INLET	44.7052	-63.2479	1 M
7841	DRILL	41D	41D		SCOTT, D.B.	CHEZZETCOOK INLET	44.7054	-63.2463	3 M
7842	DRILL	41E	41E		SCOTT, D.B.	CHEZZETCOOK INLET	44.7062	-63.2460	1 M
7843	DRILL	42A	42A		SCOTT, D.B.	CHEZZETCOOK INLET	44.6854	-63.2543	1 M
7844	DRILL	42B	42B		SCOTT, D.B.	CHEZZETCOOK INLET	44.6835	-63.2516	.5 M
7845	DRILL	43A	43A		SCOTT, D.B.	CHEZZETCOOK INLET	44.6799	-63.2525	.5 M
7846	DRILL	43B	43B		SCOTT, D.B.	CHEZZETCOOK INLET	44.6801	-63.2521	1 M
7847	DRILL	43C	43C		SCOTT, D.B.	CHEZZETCOOK INLET	44.6796	-63.2530	1 M
7848	DRILL	44A	44A		SCOTT, D.B.	CHEZZETCOOK INLET	44.6765	-63.2508	1 M
7849	DRILL	44B	44B		SCOTT, D.B.	CHEZZETCOOK INLET	44.6771	-63.2504	1 M
7850	DRILL	44C	44C		SCOTT, D.B.	CHEZZETCOOK INLET	44.6776	-63.2500	1 M
7851	DRILL	49	49		SCOTT, D.B.	CHEZZETCOOK INLET	44.7061	-63.2314	3 M
7852	DRILL	50	50		SCOTT, D.B.	CHEZZETCOOK INLET	44.6965	-63.2253	3 M
7853	DRILL	51	51		SCOTT, D.B.	CHEZZETCOOK INLET	44.6878	-63.2285	2 M
7854	DRILL	52	52		SCOTT, D.B.	CHEZZETCOOK INLET	44.6899	-63.2398	3 M
7855	DRILL	53	53		SCOTT, D.B.	CHEZZETCOOK INLET	44.6859	-63.2333	2.4 M
7856	DRILL	54	54		SCOTT, D.B.	CHEZZETCOOK INLET	44.6789	-63.2357	3.75M
7857	DRILL	55	55		SCOTT, D.B.	CHEZZETCOOK INLET	44.6769	-63.2280	
7859	DRILL	V	V		SCOTT, D.B.	W HEAD OF CHEZZETCOOK	44.7325	-63.2586	
7860	DRILL	VI	VI		SCOTT, D.B.	W HEAD OF CHEZZETCOOK	44.7341	-63.2614	
7861	DRILL	VII	VII		SCOTT, D.B.	W HEAD OF CHEZZETCOOK	44.7343	-63.2622	
7862	DRILL	VIII	VIII		SCOTT, D.B.	W HEAD OF CHEZZETCOOK	44.7315	-63.2593	
7863	DRILL	X	X		SCOTT, D.B.	W HEAD OF CHEZZETCOOK	44.7317	-63.2592	
7864	DRILL	XI	XI		SCOTT, D.B.	W HEAD OF CHEZZETCOOK	44.7320	-63.2589	
7865	DRILL	XII	XII		SCOTT, D.B.	W HEAD OF CHEZZETCOOK	44.7318	-63.2591	
7866	DRILL	IX	IX		SCOTT, D.B.	W HEAD OF CHEZZETCOOK	44.7311	-63.2586	
8261	GRAB				DEIURE, A.M.	HALIFAX INLET	44.6023	-63.5552	
8262	GRAB				DEIURE, A.M.	HALIFAX INLET	44.6032	-63.5535	
8263	GRAB				DEIURE, A.M.	HALIFAX INLET	44.6039	-63.5520	
8264	GRAB				DEIURE, A.M.	HALIFAX INLET	44.6045	-63.5591	
8265	GRAB				DEIURE, A.M.	HALIFAX INLET	44.6068	-63.5553	
8266	GRAB				DEIURE, A.M.	HALIFAX INLET	44.6090	-63.5516	
8267	GRAB				DEIURE, A.M.	HALIFAX INLET	44.6019	-63.5418	
8268	GRAB				DEIURE, A.M.	HALIFAX INLET	44.6011	-63.5434	
8269	GRAB				DEIURE, A.M.	HALIFAX INLET	44.5992	-63.5468	
8270	GRAB				DEIURE, A.M.	HALIFAX INLET	44.6048	-63.5475	
8271	GRAB				DEIURE, A.M.	HALIFAX INLET	44.6041	-63.5490	

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
8272	GRAB				DEIURE, A.M.	HALIFAX INLET	44.6036	-63.5511	
8273	CORE				DEIURE, A.M.	HALIFAX INLET	44.6074	-63.5397	
8274	CORE				DEIURE, A.M.	HALIFAX INLET	44.6071	-63.5408	
8275	CORE				DEIURE, A.M.	HALIFAX INLET	44.6065	-63.5430	
8276	CORE				DEIURE, A.M.	HALIFAX INLET	44.6034	-63.5533	
8277	CORE				DEIURE, A.M.	HALIFAX INLET	44.6028	-63.5526	
8278	CORE				DEIURE, A.M.	HALIFAX INLET	44.6025	-63.5546	
8279	CORE				DEIURE, A.M.	HALIFAX INLET	44.6024	-63.5540	
8280	CORE				DEIURE, A.M.	HALIFAX INLET	44.6016	-63.5568	
8281	CORE				DEIURE, A.M.	HALIFAX INLET	44.6020	-63.5560	
8282	CORE				DEIURE, A.M.	HALIFAX INLET	44.6016	-63.5527	
8283	CORE				DEIURE, A.M.	HALIFAX INLET	44.5958	-63.5490	
8284	GRAB				BOYD, R.	SILVER SANDS	44.6167	-63.4167	
8285	GRAB				BOYD, R.	SILVER SANDS	44.6167	-63.4167	
8286	GRAB				BOYD, R.	SILVER SANDS	44.6167	-63.4167	
8287	GRAB				BOYD, R.	SILVER SANDS	44.6167	-63.4167	
8288	GRAB				BOYD, R.	SILVER SANDS	44.6167	-63.4167	
8289	GRAB				BOYD, R.	SILVER SANDS	44.6167	-63.4167	
8290	GRAB				BOYD, R.	RAINBOW HAVEN	44.6333	-63.4167	
8291	GRAB				BOYD, R.	RAINBOW HAVEN	44.6333	-63.4167	
8292	GRAB				BOYD, R.	RAINBOW HAVEN	44.6333	-63.4167	
8293	GRAB				BOYD, R.	RAINBOW HAVEN	44.6333	-63.4167	
8294	GRAB				BOYD, R.	RAINBOW HAVEN	44.6333	-63.4167	
8295	GRAB				BOYD, R.	RAINBOW HAVEN	44.6333	-63.4167	
8305	GRAB				BOYD, R.	LAWRENCETOWN	44.6500	-63.3333	
8306	GRAB				BOYD, R.	LAWRENCETOWN	44.6500	-63.3333	
8307	GRAB				BOYD, R.	LAWRENCETOWN	44.6500	-63.3333	
8308	GRAB				BOYD, R.	LAWRENCETOWN	44.6500	-63.3333	
8309	GRAB				BOYD, R.	LAWRENCETOWN	44.6500	-63.3333	
8310	GRAB				BOYD, R.	LAWRENCETOWN	44.6500	-63.3333	
8340	GRAB				NOLAN, F.J.	PEMBROKE SHORE	43.8667	-62.9667	
8363	GRAB				NOLAN, F.J.	CUNARD COVE	44.3167	-64.2500	
8364	GRAB				NOLAN, F.J.	BLUE ROCKS	44.3500	-64.2175	
8365	GRAB				NOLAN, F.J.	BLUE RIVER	44.3500	-64.2175	
8366	GRAB				NOLAN, F.J.	MAHONE BAY	44.5000	-64.2167	
8367	GRAB				NOLAN, F.J.	MAHONE BAY	44.5000	-64.2167	
8368	GRAB				NOLAN, F.J.	BLANDFORD	44.4833	-64.1167	
8369	GRAB				NOLAN, F.J.	ST. MARGARETS BAY	44.7000	-63.8833	
8370	GRAB				NOLAN, F.J.	ST. MARGARETS BAY	44.7000	-63.8833	
8371	GRAB				NOLAN, F.J.	COW BAY	44.6167	-63.4167	
8373	GRAB				NOLAN, F.J.	PETPESWICK HEAD	44.6833	-63.1667	
8374	GRAB				NOLAN, F.J.	PETPESWICK HEAD	44.6833	-63.1667	
8375	GRAB				NOLAN, F.J.	CAPE JEDDORE	44.6783	-63.0500	
8376	GRAB				NOLAN, F.J.	CLAM HARBOUR	44.7167	-62.8667	
8378	GRAB				NOLAN, F.J.	TAYLOR HEAD	44.8167	-62.5500	
8379	GRAB				NOLAN, F.J.	TAYLOR HEAD	44.8167	-62.5500	
8380	GRAB				NOLAN, F.J.	SOBER ISLAND	44.8333	-62.4667	
8381	GRAB				NOLAN, F.J.	SOBER ISLAND	44.8333	-62.4667	
8382	GRAB				NOLAN, F.J.	PORT DUFFERIN WEST	44.9000	-62.4000	
8383	GRAB				NOLAN, F.J.	PORT DUFFERIN EAST	44.9167	-62.3833	
8384	GRAB				NOLAN, F.J.	HARRIGAN COVE	44.9333	-62.3000	
8385	GRAB				NOLAN, F.J.	MOOSEHEAD	44.9500	-62.2667	
8386	GRAB				NOLAN, F.J.	ECUM SECUM	44.9667	-62.1333	
8387	GRAB				NOLAN, F.J.	MARIE JOSEPH	44.9667	-62.0833	
8388	GRAB				NOLAN, F.J.	LISCOMB POINT	44.9833	-61.9833	
8389	GRAB				NOLAN, F.J.	LISCOMB HARBOUR	45.0000	-62.0333	
8390	GRAB				NOLAN, F.J.	GEGOGAN HARBOUR	45.0500	-61.9500	
8391	GRAB				NOLAN, F.J.	PORT HILLFORD	45.1000	-61.8500	
8392	GRAB				NOLAN, F.J.	PORT BICKERTON	45.1000	-61.7167	
8393	GRAB				NOLAN, F.J.	NEW HARBOUR	45.1667	-61.4667	
8394	GRAB				NOLAN, F.J.	BERRY HEAD	45.1833	-61.3167	
8629	GRAB	504-77-1	1	504-77	PIPER, D.J.W.	LAHAVE	44.2251	-64.3384	11 M
8630	GRAB	504-77-2	2	504-77	PIPER, D.J.W.	LAHAVE	44.2320	-64.3482	9 M
8631	GRAB	504-77-3	3	504-77	PIPER, D.J.W.	LAHAVE	44.2337	-64.3531	8 M
8632	GRAB	504-77-4	4	504-77	PIPER, D.J.W.	LAHAVE	44.2376	-64.3628	7 M
8633	CORE	504-77-5	5	504-77	PIPER, D.J.W.	LAHAVE	44.2389	-64.3637	7 M
8634	CORE	504-77-6	6	504-77	PIPER, D.J.W.	LAHAVE	44.2406	-64.3679	13 M
8635	GRAB	504-77-7	7	504-77	PIPER, D.J.W.	LAHAVE	44.2349	-64.3678	8 M
8636	CORE	504-77-8	8	504-77	PIPER, D.J.W.	LAHAVE	44.2432	-64.3737	7 M
8637	CORE	504-77-9	9	504-77	PIPER, D.J.W.	LAHAVE	44.2485	-64.3830	6 M
8638	CORE	504-77-10	10	504-77	PIPER, D.J.W.	LAHAVE	44.2273	-64.3514	6 M
8639	CORE	504-77-11	11	504-77	PIPER, D.J.W.	LAHAVE	44.2238	-64.3855	10 M
8640	GRAB	504-77-12	12	504-77	PIPER, D.J.W.	LAHAVE	44.2241	-64.3985	8 M
8641	GRAB	504-77-13	13	504-77	PIPER, D.J.W.	LAHAVE	44.2267	-64.4117	8 M
8645	GRAB	504-77-17	17	504-77	PIPER, D.J.W.	LAHAVE	44.2165	-64.4074	11 M
8646	GRAB	504-77-18	18	504-77	PIPER, D.J.W.	LAHAVE	44.2131	-64.3899	6 M
8647	GRAB	504-77-19	19	504-77	PIPER, D.J.W.	LAHAVE	44.2029	-64.3974	9 M
8648	GRAB	504-77-20	20	504-77	PIPER, D.J.W.	LAHAVE	44.2042	-64.4060	11 M
8654	GRAB	504-77-26	26	504-77	PIPER, D.J.W.	LAHAVE	44.1916	-64.4144	16 M
8655	GRAB	504-77-27	27	504-77	PIPER, D.J.W.	LAHAVE	44.1882	-64.4071	12 M
8656	GRAB	504-77-28	28	504-77	PIPER, D.J.W.	LAHAVE	44.1817	-64.4086	18 M
8665	GRAB	504-77-37	37	504-77	PIPER, D.J.W.	LAHAVE	44.1896	-64.3817	8 M

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10779	GRAB					COUNTRY HARBOUR	45.1232	-61.6227	
10780	GRAB					COUNTRY HARBOUR	45.1393	-61.6403	
10781	CORE					COUNTRY HARBOUR	45.1393	-61.6403	
10783	GRAB					COUNTRY HARBOUR	45.1555	-61.6502	
10784	CORE					COUNTRY HARBOUR	45.1555	-61.6502	
10786	GRAB					COUNTRY HARBOUR	45.1545	-61.6530	
10787	CORE					COUNTRY HARBOUR	45.1545	-61.6530	
10788	GRAB					COUNTRY HARBOUR	45.1535	-61.6550	
10789	CORE					COUNTRY HARBOUR	45.1535	-61.6550	
10790	GRAB					COUNTRY HARBOUR	45.1552	-61.6550	
10791	GRAB					COUNTRY HARBOUR	45.1903	-61.6677	
10792	GRAB					COUNTRY HARBOUR	45.1737	-61.6550	
10793	GRAB					COUNTRY HARBOUR	45.1555	-61.6853	
10794	GRAB					COUNTRY HARBOUR	45.1520	-61.6510	
10795	CORE					COUNTRY HARBOUR	45.1587	-61.6615	
10796	CORE					COUNTRY HARBOUR	45.1580	-61.6610	
10797	CORE					COUNTRY HARBOUR	45.1573	-61.6603	
10798	CORE					COUNTRY HARBOUR	45.1564	-61.6595	
10799	CORE					COUNTRY HARBOUR	45.1558	-61.6588	
10800	CORE					COUNTRY HARBOUR	45.1551	-61.6579	
10801	CORE					COUNTRY HARBOUR	45.1543	-61.6570	
10802	CORE					COUNTRY HARBOUR	45.1536	-61.6563	
10803	CORE					COUNTRY HARBOUR	45.1529	-61.6557	
10804	CORE					COUNTRY HARBOUR	45.1521	-61.6548	
10805	CORE					COUNTRY HARBOUR	45.1619	-61.6563	
10806	CORE					COUNTRY HARBOUR	45.1614	-61.6559	
10807	CORE					COUNTRY HARBOUR	45.1604	-61.6552	
10808	CORE					COUNTRY HARBOUR	45.1596	-61.6544	
10809	CORE					COUNTRY HARBOUR	45.1589	-61.6539	
10810	CORE					COUNTRY HARBOUR	45.1580	-61.6534	
10811	CORE					COUNTRY HARBOUR	45.1572	-61.6528	
10812	CORE					COUNTRY HARBOUR	45.1564	-61.6522	
10813	CORE					COUNTRY HARBOUR	45.1548	-61.6513	
10814	CORE					COUNTRY HARBOUR	45.1583	-61.6342	
10815	CORE					COUNTRY HARBOUR	45.1577	-61.6340	
10816	CORE					COUNTRY HARBOUR	45.1574	-61.6339	
10817	CORE					COUNTRY HARBOUR	45.1569	-61.6339	
10818	CORE					COUNTRY HARBOUR	45.1555	-61.6336	
10819	CORE					COUNTRY HARBOUR	45.1547	-61.6334	
10820	CORE					COUNTRY HARBOUR	45.1538	-61.6333	
10821	CORE					COUNTRY HARBOUR	45.1527	-61.6329	
10822	CORE					COUNTRY HARBOUR	45.1517	-61.6324	
10823	CORE					COUNTRY HARBOUR	45.1507	-61.6326	
10824	CORE					COUNTRY HARBOUR	45.1557	-61.6315	
10825	CORE					COUNTRY HARBOUR	45.1551	-61.6314	
10826	CORE					COUNTRY HARBOUR	45.1541	-61.6311	
10827	CORE					COUNTRY HARBOUR	45.1533	-61.6307	
10828	CORE					COUNTRY HARBOUR	45.1524	-61.6313	
10829	CORE					COUNTRY HARBOUR	45.1516	-61.6312	
10830	CORE					COUNTRY HARBOUR	45.1507	-61.6311	
10831	CORE					COUNTRY HARBOUR	45.1499	-61.6310	
10832	CORE					COUNTRY HARBOUR	45.1488	-61.6308	
10914	GRAB				CANPLAN	HALIFAX HARBOUR	44.5334	-63.5200	
10915	GRAB				CANPLAN	HALIFAX HARBOUR	44.5379	-63.5300	
10916	GRAB				CANPLAN	HALIFAX HARBOUR	44.5508	-63.5000	
10916	GRAB				CANPLAN	HALIFAX HARBOUR	44.5508	-63.5000	
10917	GRAB				CANPLAN	HALIFAX HARBOUR	44.5512	-63.5400	
10918	GRAB				CANPLAN	HALIFAX HARBOUR	44.5687	-63.5200	
10919	GRAB				CANPLAN	HALIFAX HARBOUR	44.5714	-63.4700	
10920	GRAB				CANPLAN	HALIFAX HARBOUR	44.5751	-63.4700	
10921	GRAB				CANPLAN	HALIFAX HARBOUR	44.5798	-63.4700	
10922	GRAB				CANPLAN	HALIFAX HARBOUR	44.5821	-63.4800	
10923	GRAB				CANPLAN	HALIFAX HARBOUR	44.5911	-63.4800	
10924	GRAB				CANPLAN	HALIFAX HARBOUR	44.5744	-63.5200	
10925	GRAB				CANPLAN	HALIFAX HARBOUR	44.5925	-63.4900	
10926	GRAB				CANPLAN	HALIFAX HARBOUR	44.5962	-63.4800	
10927	GRAB				CANPLAN	HALIFAX HARBOUR	44.6013	-63.4900	
10928	GRAB				CANPLAN	HALIFAX HARBOUR	44.5957	-63.5400	
10929	GRAB				CANPLAN	HALIFAX HARBOUR	44.6208	-63.5200	
10930	GRAB				CANPLAN	HALIFAX HARBOUR	44.6361	-63.5500	
10931	GRAB				CANPLAN	HALIFAX HARBOUR	44.6544	-63.5700	
10932	GRAB				CANPLAN	HALIFAX HARBOUR	44.6601	-63.5700	
10933	GRAB				CANPLAN	HALIFAX HARBOUR	44.6747	-63.6300	
10934	GRAB				CANPLAN	HALIFAX HARBOUR	44.6900	-63.6500	
10935	GRAB				CANPLAN	HALIFAX HARBOUR	44.6967	-63.6600	
10936	GRAB				CANPLAN	HALIFAX HARBOUR	44.7062	-63.6600	
10937	GRAB				CANPLAN	HALIFAX HARBOUR	44.7084	-63.6600	
10938	GRAB				CANPLAN	HALIFAX HARBOUR	44.7107	-63.6600	
10940	GRAB				CANPLAN	HALIFAX HARBOUR	44.5976	-63.5401	
10941	GRAB				CANPLAN	HALIFAX HARBOUR	44.5944	-63.5229	
10942	GRAB				CANPLAN	HALIFAX HARBOUR	44.5764	-63.5188	
10943	GRAB				CANPLAN	HALIFAX HARBOUR	44.5712	-63.5116	

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
8666	GRAB	504-77-38	38	504-77	PIPER, D.J.W.	LAHAVE	44.2075	-64.3197	34 M
8667	GRAB	504-77-39	39	504-77	PIPER, D.J.W.	LAHAVE	44.2120	-64.3442	12 M
8668	GRAB	504-77-40	40	504-77	PIPER, D.J.W.	LAHAVE	44.2143	-64.3511	12 M
8669	GRAB	504-77-41	41	504-77	PIPER, D.J.W.	LAHAVE	44.2156	-64.3535	9 M
8673	GRAB	504-77-45	45	504-77	PIPER, D.J.W.	LAHAVE	44.1998	-64.4100	12 M
8674	GRAB	504-77-46	46	504-77	PIPER, D.J.W.	LAHAVE	44.2210	-64.3901	12 M
10161	BOXCORE	77-002-2		77-002	PIPER, D.J.W.	SOUTH SHORE	44.5342	-63.9800	
10162	BOXCORE	77-002-3		77-002	PIPER, D.J.W.	SOUTH SHORE	44.5372	-63.9833	
10163	BOXCORE	77-002-4		77-002	PIPER, D.J.W.	SOUTH SHORE	44.5383	-63.9850	
10164	BOXCORE	77-002-5		77-002	PIPER, D.J.W.	SOUTH SHORE	44.5367	-63.9825	
10165	BOXCORE	77-002-6		77-002	PIPER, D.J.W.	SOUTH SHORE	44.5342	-63.9800	
10166	BOXCORE	77-002-7		77-002	PIPER, D.J.W.	SOUTH SHORE	44.5380	-63.9850	
10167	CORE	77-002-8		77-002	PIPER, D.J.W.	SOUTH SHORE	44.5325	-63.9908	
10168	CORE	77-002-9		77-002	PIPER, D.J.W.	SOUTH SHORE	44.5467	-63.9983	
10169	CORE	77-002-10		77-002	PIPER, D.J.W.	SOUTH SHORE	44.5463	-64.0000	
10170	CORE	77-002-11		77-002	PIPER, D.J.W.	SOUTH SHORE	44.5980	-64.0067	
10171	CORE	77-002-12		77-002	PIPER, D.J.W.	SOUTH SHORE	44.5958	-63.9942	
10172	CORE	77-002-13		77-002	PIPER, D.J.W.	SOUTH SHORE	44.2317	-64.3050	
10173	CORE	77-002-14		77-002	PIPER, D.J.W.	SOUTH SHORE	44.2063	-64.3030	
10174	CORE	77-002-15		77-002	PIPER, D.J.W.	SOUTH SHORE	44.2675	-64.1425	
10175	CORE	77-002-16		77-002	PIPER, D.J.W.	SOUTH SHORE	44.4267	-64.1718	
10176	CORE	77-002-17		77-002	PIPER, D.J.W.	SOUTH SHORE	44.4292	-64.1600	
10177	BOXCORE	77-002-18		77-002	PIPER, D.J.W.	SOUTH SHORE	44.4342	-64.2517	
10534	GRAB				GREGORY, M.R.	HALIFAX HARBOUR	44.6385	-63.6144	
10535	GRAB				GREGORY, M.R.	HALIFAX HARBOUR	44.6203	-63.5566	
10536	GRAB				GREGORY, M.R.	HALIFAX HARBOUR	44.6193	-63.5535	
10537	GRAB				GREGORY, M.R.	HALIFAX HARBOUR	44.6175	-63.5540	
10538	GRAB				GREGORY, M.R.	HALIFAX HARBOUR	44.6141	-63.5601	
10539	GRAB				GREGORY, M.R.	HALIFAX HARBOUR	44.6134	-63.5738	
10540	GRAB				GREGORY, M.R.	HALIFAX HARBOUR	44.6105	-63.5712	
10541	GRAB				GREGORY, M.R.	HALIFAX HARBOUR	44.6145	-63.5687	
10542	GRAB				GREGORY, M.R.	HALIFAX HARBOUR	44.6163	-63.5686	
10543	GRAB				GREGORY, M.R.	HALIFAX HARBOUR	44.6178	-63.5688	
10544	GRAB				GREGORY, M.R.	HALIFAX HARBOUR	44.6124	-63.5660	
10585	GRAB	N-12-7			SONNICHSEN, G.	EASTERN SHORE	44.6250	-63.3029	
10586	GRAB	N-18-2			SONNICHSEN, G.	EASTERN SHORE	44.6250	-63.3029	
10587	GRAB	N-12-9			SONNICHSEN, G.	EASTERN SHORE	44.6250	-63.3029	
10588	GRAB	N-12-11			SONNICHSEN, G.	EASTERN SHORE	44.6250	-63.3029	
10589	GRAB	N-17-1			SONNICHSEN, G.	EASTERN SHORE	44.6250	-63.3029	
10590	GRAB	N-12-10			SONNICHSEN, G.	EASTERN SHORE	44.6250	-63.3029	
10591	GRAB	N-12-3			SONNICHSEN, G.	EASTERN SHORE	44.6306	-63.3045	
10592	GRAB	O-10-3			SONNICHSEN, G.	EASTERN SHORE	44.6306	-63.3045	
10593	GRAB	N-12-12			SONNICHSEN, G.	EASTERN SHORE	44.6306	-63.3045	
10594	GRAB	N-12-4			SONNICHSEN, G.	EASTERN SHORE	44.6306	-63.3045	
10595	GRAB	N-12-5			SONNICHSEN, G.	EASTERN SHORE	44.6306	-63.3045	
10596	GRAB	O-10-4			SONNICHSEN, G.	EASTERN SHORE	44.6328	-63.3109	
10597	GRAB	N-12-1			SONNICHSEN, G.	EASTERN SHORE	44.6328	-63.3109	
10598	GRAB	N-17-7			SONNICHSEN, G.	EASTERN SHORE	44.6328	-63.3109	
10599	GRAB	N-12-2			SONNICHSEN, G.	EASTERN SHORE	44.6328	-63.3109	
10600	GRAB	N-18-1			SONNICHSEN, G.	EASTERN SHORE	44.6328	-63.3109	
10601	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.1299	-61.6483	
10602	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.1305	-61.6469	
10603	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0719	-61.6540	
10604	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0743	-61.6524	
10605	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0782	-61.6476	
10606	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0810	-61.6411	
10607	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0746	-61.6453	
10608	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0416	-61.6388	
10609	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0500	-61.6457	
10610	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0558	-61.6491	
10611	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0639	-61.6526	
10612	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0747	-61.6617	
10613	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0818	-61.6638	
10614	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0926	-61.6844	
10615	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0611	-61.6770	
10616	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0580	-61.6823	
10617	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0536	-61.6875	
10618	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0480	-61.6858	
10619	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0439	-61.6921	
10620	GRAB				SCHAFER, C.T.	COUNTRY HARBOUR AREA	45.0419	-61.6990	
10766	CORE					COUNTRY HARBOUR	44.8400	-61.4200	
10767	GRAB					COUNTRY HARBOUR	44.8100	-61.4000	
10768	GRAB					COUNTRY HARBOUR	44.7900	-61.3900	
10770	GRAB					COUNTRY HARBOUR	45.0600	-61.5700	
10771	GRAB					COUNTRY HARBOUR	45.1000	-61.6000	
10772	CORE					COUNTRY HARBOUR	44.8373	-61.4187	
10773	GRAB					COUNTRY HARBOUR	44.8060	-61.4000	
10774	GRAB					COUNTRY HARBOUR	44.7873	-61.3873	
10775	GRAB					COUNTRY HARBOUR	45.1520	-61.6670	
10776	GRAB					COUNTRY HARBOUR	45.1002	-61.6022	
10777	GRAB					COUNTRY HARBOUR	45.1035	-61.5910	
10778	GRAB					COUNTRY HARBOUR	45.1167	-61.6262	

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
10944	GRAB				CANPLAN	HALIFAX HARBOUR	44.5741	-63.4778	
10945	GRAB				CANPLAN	HALIFAX HARBOUR	44.5480	-63.5016	
10946	GRAB				CANPLAN	HALIFAX HARBOUR	44.5436	-63.4999	
10947	GRAB				CANPLAN	HALIFAX HARBOUR	44.5500	-63.4677	
10948	GRAB				CANPLAN	HALIFAX HARBOUR	44.5480	-63.4561	
10949	CORE				CANPLAN	HALIFAX HARBOUR	44.5879	-63.5138	
10950	CORE				CANPLAN	HALIFAX HARBOUR	44.5744	-63.5245	
10951	CORE				CANPLAN	HALIFAX HARBOUR	44.5641	-63.5310	
10952	CORE				CANPLAN	HALIFAX HARBOUR	44.5570	-63.5290	
10953	CORE				CANPLAN	HALIFAX HARBOUR	44.5421	-63.5022	
10954	CORE				CANPLAN	HALIFAX HARBOUR	44.5454	-63.4986	
10955	CORE				CANPLAN	HALIFAX HARBOUR	44.5970	-63.4966	
10956	CORE				CANPLAN	HALIFAX HARBOUR	44.6004	-63.4850	
10957	CORE				CANPLAN	HALIFAX HARBOUR	44.6023	-63.4878	
10958	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.1330	-61.9813	
10959	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.1296	-61.9821	
10960	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.1172	-61.9662	
10961	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.1060	-61.9632	
10962	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0499	-61.8936	
10963	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0319	-61.8781	
10964	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0688	-61.8016	
10965	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0749	-61.7371	
10966	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0793	-61.7283	
10967	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0825	-61.7452	
10968	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0417	-61.9478	
10969	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0322	-61.9372	
10970	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0200	-61.9398	
10971	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0238	-61.9347	
10972	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0267	-61.9301	
10973	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0296	-61.9265	
10974	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0794	-61.8227	
10975	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0813	-61.8158	
10976	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0830	-61.8102	
10977	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0859	-61.8004	
10978	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0943	-61.8175	
10979	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0925	-61.8220	
10980	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0913	-61.8251	
10981	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0901	-61.8284	
10982	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.1001	-61.8408	
10983	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.1025	-61.8432	
10984	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0866	-61.7522	
10985	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0868	-61.7286	
10986	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0839	-61.7352	
10987	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.1003	-61.7227	
10988	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0925	-61.7170	
10989	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0936	-61.7106	
10990	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0906	-61.7106	
10991	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0701	-61.8629	
10992	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0713	-61.8564	
10993	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0727	-61.8534	
10994	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0562	-61.8360	
10995	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0544	-61.8391	
10996	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0528	-61.8416	
10997	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0554	-61.8448	
10998	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0570	-61.8420	
10999	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0594	-61.8386	
11000	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0730	-61.8497	
11001	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0677	-61.8199	
11002	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0648	-61.8194	
11003	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0635	-61.8193	
11004	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0621	-61.8190	
11005	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0604	-61.8190	
11006	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0812	-61.6877	
11007	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0763	-61.6986	
11008	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0001	-61.8973	
11009	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	44.9984	-61.9040	
11010	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	44.9967	-61.9061	
11011	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0753	-61.9289	
11012	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0716	-61.9215	
11013	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0553	-61.9020	
11014	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0526	-61.8989	
11015	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0439	-61.8872	
11016	GRAB				HOOPER, K.	SOUTH OF SHERBROOKE	45.0481	-61.8898	
11017	GRAB				CLARK, D.F.	CLAM BAY	44.7413	-62.9475	
11018	GRAB				CLARK, D.F.	CLAM BAY	44.7218	-62.8785	
11019	GRAB				CLARK, D.F.	CLAM BAY	44.7054	-62.8791	
11020	GRAB				CLARK, D.F.	CLAM BAY	44.6907	-62.8749	
11021	GRAB				CLARK, D.F.	CLAM BAY	44.7014	-62.9265	
11022	GRAB				CLARK, D.F.	CLAM BAY	44.7057	-62.9265	
11023	GRAB				CLARK, D.F.	CLAM BAY	44.7108	-62.9380	
11024	GRAB				CLARK, D.F.	CLAM BAY	44.7045	-62.9573	
11025	GRAB				CLARK, D.F.	CLAM BAY	44.6993	-62.9602	

Unique_no	Sampletype	Sample_no	Station_no	Cruise_no	Reference	Location	Latitude	Longitude	Waterdept
11026	GRAB				CLARK, D.F.	CLAM BAY	44.7097	-62.9690	
11027	GRAB				CLARK, D.F.	CLAM BAY	44.7275	-62.9572	
11028	GRAB				CLARK, D.F.	CLAM BAY	44.7306	-62.9571	
11029	GRAB				CLARK, D.F.	CLAM BAY	44.7409	-62.9497	
11030	GRAB				CLARK, D.F.	CLAM BAY	44.7402	-62.9507	
11031	GRAB				CLARK, D.F.	CLAM BAY	44.7387	-62.9556	
11032	GRAB				CLARK, D.F.	CLAM BAY	44.7408	-62.9477	
11033	GRAB				CLARK, D.F.	CLAM BAY	44.7408	-62.9432	
11034	GRAB				CLARK, D.F.	CLAM BAY	44.7383	-62.9374	
11035	GRAB				CLARK, D.F.	CLAM BAY	44.7092	-62.8938	
11036	GRAB				CLARK, D.F.	CLAM BAY	44.7400	-62.9571	
11037	GRAB				CLARK, D.F.	CLAM BAY	44.7419	-62.9523	
11038	GRAB				CLARK, D.F.	CLAM BAY	44.7347	-62.8942	
11039	GRAB				CLARK, D.F.	CLAM BAY	44.7284	-62.8956	
11040	GRAB				CLARK, D.F.	CLAM BAY	44.7213	-62.9183	
11041	GRAB				CLARK, D.F.	CLAM BAY	44.7093	-62.9194	
11042	GRAB				CLARK, D.F.	CLAM BAY	44.7173	-62.9509	
11043	GRAB				CLARK, D.F.	CLAM BAY	44.7136	-62.9122	
11044	GRAB				CLARK, D.F.	CLAM BAY	44.7002	-62.9801	
11045	GRAB				CLARK, D.F.	CLAM BAY	44.6838	-62.8974	
11046	GRAB				CLARK, D.F.	CLAM BAY	44.6718	-62.9725	
11047	GRAB				CLARK, D.F.	CLAM BAY	44.6905	-62.9325	
11048	GRAB				CLARK, D.F.	CLAM BAY	44.6677	-62.8887	
11049	GRAB				CLARK, D.F.	CLAM BAY	44.7347	-62.8844	
11050	GRAB				CLARK, D.F.	CLAM BAY	44.7254	-62.9693	
11051	GRAB				CLARK, D.F.	CLAM BAY	44.7237	-62.9408	

APPENDIX 3

GOVERNMENT SEISMIC CRUISE DATABASE

Cruise	Scientist	Ship	Year	Es	Re	Ss	Dt	Cam	Navigation
75007	KING/MCKEOWN	HUDSON	1975	T	T	T	T	F	LORAN C/SATNAV
76016	KING	HUDSON	1976	F	F	T	T	T	ACOUSTIC POSITION
77002	BIDGOOD	DAWSON	1977	T	T	T	T	F	DECCA/RADAR/VISUAL
77005	MCKEOWN	HUDSON	1977	T	F	F	T	F	BIONAV/ACOUSTIC POS.
78005	BIDGOOD/PIPER	DAWSON	1978	T	F	F	T	F	DECCA/SATNAV/RADAR
78008	MCKEOWN	HUDSON	1978	F	T	F	T	F	BIONAV/ACOUSTIC POS.
78068	SIMPKIN	QUEST	1978	F	F	F	T	F	LORAN C
79002	BIDGOOD/PIPER	DAWSON	1979	T	T	F	T	T	RADAR/LORAN C
79011	KING/MCKEOWN	HUDSON	1979	T	F	T	T	T	ACOUSTIC POSITION
83019	FADER	HUDSON	1983	T	F	T	T	T	BIONAV/ORE TRACK PT.
84003	BIDGOOD/PIPER	DAWSON	1984	T	T	T	T	F	LORAN C/SATNAV
84011	SCOTT	HUDSON	1984	T	F	T	T	F	LORAN C
84029	FADER	HUDSON	1984	T	F	T	T	F	LORAN C/SATNAV
86034	PIPER	HUDSON	1986	T	T	F	T	F	BIONAV
87003	PIPER	HUDSON	1987	T	T	F	T	F	BIONAV/GPS
87300	FORBES	SIGMA-T	1987	T	F	T	T	F	LORAN C
88010	PIPER	HUDSON	1988	T	T	F	T	T	BIONAV
88018A	MILLER	NAVICULA	1988	T	F	T	T	F	LORAN C/RADAR
88300	FORBES	SIGMA-T	1988	T	F	T	T	F	LORAN C
89302	FORBES	CORMORANT	1989	F	F	T	F	T	LORAN C
87042	FORBES	DAWSON	1987	T	T	T	T	T	LORAN C/RADAR/SATNAV
90002	PIPER	DAWSON	1990	T	T	F	F	F	LORAN C/SATNAV
89008	PARROTT	BAFFIN	1989	T	T	T	T	F	LORAN C/SATNAV
90010	FADER	NAVICULA	1990	T	T	T	F	F	LORAN C/RADAR
90038	MILLER	NAVICULA	1990	T	T	T	F	F	LORAN C/RADAR
90301B	FORBES	CREED	1990	T	T	T	F	F	LORAN C/RADAR/QMIPS
90301	MILLER	CREED	1990	T	T	T	F	F	LORAC C/RADAR

APPENDIX 4

INDUSTRY AND UNIVERSITY CRUISE DATABASE

Unique_no	Scientist	Agency	Year	Location	Re	Ss	Dt	Mc	Cam	Vid	Navigation
179	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
180	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
181	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
182	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
183	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
184	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
185	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
186	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
187	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
188	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
189	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
190	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
191	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
192	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
193	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
194	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
195	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
196	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
197	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
198	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
199	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
200	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
201	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
202	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
203	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
204	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
205	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
206	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
207	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
208	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
209	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
210	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
211	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
212	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
213	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
214	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
215	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
216	McKAY, A.G.	NSRFC	1981	COUNTRY HARBOUR	T	F	F	F	F	F	TRISPONDER
408	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
409	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
410	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
411	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
412	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
413	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
414	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
415	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
416	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
417	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
418	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
419	LIBBY, F.	OCEAN SCI. & ENGIN.	1977	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
420	LIBBY, F.	OCEAN SCI. & ENGIN.	1977	ROSE BAY	T	F	F	F	F	F	DECCA MK 12.& RADAR
443		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
444		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
445		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
446		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
447		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
448		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
449		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
450		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
451		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
452		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
453		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
454		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
455		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
456		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
457		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
458		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
459		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
460		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
461		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
462		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
463		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
464		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
465		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
466		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
467		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
468		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
469		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
470		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
471		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	F	T	F	T	F	F	LORAN-C
472		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C
473		GEOSEA SURVEY/HUNTEC	1983	COUNTRY HARBOUR	T	F	F	F	F	F	LORAN-C

Unique_no	Scientist	Agency	Year	Location	Re	Ss	Dt	Mc	Cam	Vid	Navigation
720	A.C. GRANT	BIO	1966	HALIFAX HARBOUR	T	F	F	F	F	F	
1006	EASTON, J.A.	DALHOUSIE UNIVERSITY	1980	HARTLEN POINT-JEDDORE CAPE	T	F	F	F	F	F	RADAR
1007	EASTON, J.A.	DALHOUSIE UNIVERSITY	1980	HARTLEN POINT-JEDDORE CAPE	T	F	F	F	F	F	RADAR
1008	EASTON, J.A.	DALHOUSIE UNIVERSITY	1980	HARTLEN POINT-JEDDORE CAPE	T	F	F	F	F	F	RADAR
1009	EASTON, J.A.	DALHOUSIE UNIVERSITY	1980	HARTLEN POINT-JEDDORE CAPE	T	F	F	F	F	F	RADAR
1010	EASTON, J.A.	DALHOUSIE UNIVERSITY	1980	HARTLEN POINT-JEDDORE CAPE	T	F	F	F	F	F	DECCA/RADAR
1011	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	T	F	T	F	DECCA/RADAR
1012	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	F	F	F	F	DECCA/RADAR
1013	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	F	F	F	F	DECCA/RADAR
1014	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	F	F	F	F	DECCA/RADAR
1015	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	F	F	T	T	DECCA/RADAR
1016	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	F	F	T	T	DECCA/RADAR
1017	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	F	F	F	F	DECCA/RADAR
1018	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	F	F	F	F	DECCA/RADAR
1019	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	F	F	F	F	DECCA/RADAR
1020	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	F	F	F	F	DECCA/RADAR
1021	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	F	F	T	T	DECCA/RADAR
1022	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	F	F	F	F	DECCA/RADAR
1023	LAPIERRE, A.	DALHOUSIE UNIVERSITY	1985	OSBORNE HEAD - JEDDORE CAPE	T	T	F	F	F	F	DECCA/RADAR
1024	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1025	PIPER, D.J.	DALHOUSIE UNIVERSITY	1973	MAHONE BAY	T	F	F	F	F	F	RADAR
1026	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1027	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1028	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1029	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1030	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1031	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1032	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1033	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1034	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1035	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1036	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1037	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1038	PIPER & KEEN	DALHOUSIE UNIVERSITY	1972	ST. MARGARETS BAY	T	F	F	F	F	F	DECCA/RADAR
1039	PIPER & KEEN	DALHOUSIE UNIVERSITY	1972	ST. MARGARETS BAY	T	F	F	F	F	F	DECCA/RADAR
1040	PIPER & KEEN	DALHOUSIE UNIVERSITY	1972	ST. MARGARETS BAY	T	F	F	F	F	F	DECCA/RADAR
1041	PIPER & KEEN	DALHOUSIE UNIVERSITY	1972	ST. MARGARETS BAY	T	F	F	F	F	F	DECCA/RADAR
1042	PIPER & KEEN	DALHOUSIE UNIVERSITY	1972	ST. MARGARETS BAY	T	F	F	F	F	F	DECCA/RADAR
1043	PIPER & KEEN	DALHOUSIE UNIVERSITY	1972	ST. MARGARETS BAY	T	F	F	F	F	F	DECCA/RADAR
1044	PIPER & KEEN	DALHOUSIE UNIVERSITY	1972	ST. MARGARETS BAY	T	F	F	F	F	F	DECCA/RADAR
1045	PIPER & KEEN	DALHOUSIE UNIVERSITY	1972	ST. MARGARETS BAY	T	F	F	F	F	F	DECCA/RADAR
1046	PIPER & KEEN	DALHOUSIE UNIVERSITY	1972	ST. MARGARETS BAY	T	F	F	F	F	F	DECCA/RADAR
1047	PIPER & KEEN	DALHOUSIE UNIVERSITY	1972	ST. MARGARETS BAY	T	F	F	F	F	F	DECCA/RADAR
1048	PIPER & KEEN	DALHOUSIE UNIVERSITY	1972	ST. MARGARETS BAY	T	F	F	F	F	F	DECCA/RADAR
1049	PIPER & KEEN	DALHOUSIE UNIVERSITY	1973	ST. MARGARETS BAY	T	F	F	F	F	F	RADAR
1050	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	RADAR
1051	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	RADAR
1052	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	RADAR
1055	BIDGOOD, D.	N.S.R.F.C.	1976	MAHONE BAY	T	T	T	F	F	F	DECCA/RADAR
1056	BIDGOOD, D.	N.S.R.F.C.	1976	MAHONE BAY	T	T	T	F	F	F	DECCA/RADAR
1057	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	DECCA/RADAR
1058	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	DECCA/RADAR
1059	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	DECCA/RADAR
1060	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	RADAR
1061	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	RADAR
1062	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	RADAR
1063	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	SEXTANT
1064	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	RADAR
1065	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	
1066	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	
1067	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	
1068	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	
1069	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	
1070	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	
1071	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	
1072	PIPER, D.J.	DALHOUSIE UNIVERSITY	1986	MAHONE BAY	T	F	F	F	F	F	RADAR/SEXTANT
1073	BIDGOOD, D.	N.S.R.F.C.	1977	MAHONE BAY	T	T	T	F	F	F	DECCA/RADAR
1074	BIDGOOD, D.	N.S.R.F.C.	1977	MAHONE BAY	T	T	T	F	F	F	DECCA/RADAR
1075	BIDGOOD, D.	N.S.R.F.C.	1977	MAHONE BAY	T	T	T	F	F	F	DECCA/RADAR
1076	BIDGOOD, D.	N.S.R.F.C.	1978	MAHONE BAY	T	F	T	F	F	F	DECCA/RADAR/SATNAV
1086	BIDGOOD, D.	N.S.R.F.C.	1977	MAHONE BAY	T	T	T	F	F	F	DECCA/RADAR
1087	BIDGOOD, D.	N.S.R.F.C.	1978	MAHONE BAY	T	F	T	F	F	F	DECCA/RADAR
1088	BIDGOOD, D.	N.S.R.F.C.	1976	MAHONE BAY	T	T	T	F	F	F	DECCA/RADAR
1089	BIDGOOD, D.	N.S.R.F.C.	1978	MAHONE BAY	T	F	T	F	F	F	DECCA/RADAR
1090	BIDGOOD, D.	N.S.R.F.C.	1978	MAHONE BAY	T	F	T	F	F	F	DECCA/RADAR
1106	PIPER, D.J.	DALHOUSIE UNIVERSITY	1975	MAHONE BAY	T	F	F	F	F	F	RADAR
1107	PIPER, D.J.	DALHOUSIE UNIVERSITY	1974	MAHONE BAY	T	F	F	F	F	F	RADAR
1108	PIPER, D.J.	DALHOUSIE UNIVERSITY	1974	MAHONE BAY	T	F	F	F	F	F	RADAR
1109	PIPER, D.J.	DALHOUSIE UNIVERSITY	1974	MAHONE BAY	T	F	F	F	F	F	RADAR
1110	PIPER, D.J.	DALHOUSIE UNIVERSITY	1974	MAHONE BAY	T	F	F	F	F	F	RADAR
1111	PIPER, D.J.	DALHOUSIE UNIVERSITY	1974	MAHONE BAY	T	F	F	F	F	F	RADAR
1112	PIPER, D.J.	DALHOUSIE UNIVERSITY	1974	MAHONE BAY	T	F	F	F	F	F	RADAR

Unique_no	Scientist	Agency	Year	Location	Re	Ss	Dt	Mc	Cam	Vid	Navigation
1113	PIPER, D.J.	DALHOUSIE UNIVERSITY	1974	MAHONE BAY	T	F	F	F	F	F	RADAR
1114	PIPER, D.J.	DALHOUSIE UNIVERSITY	1974	MAHONE BAY	T	F	F	F	F	F	RADAR
1115	PIPER, D.J.	DALHOUSIE UNIVERSITY	1974	MAHONE BAY	T	F	F	F	F	F	RADAR
1116	PIPER, D.J.	DALHOUSIE UNIVERSITY	1974	MAHONE BAY	T	F	F	F	F	F	RADAR
1117	PIPER, D.J.	DALHOUSIE UNIVERSITY	1974	MAHONE BAY	T	F	F	F	F	F	RADAR
1118	EASTON, J.A.	DALHOUSIE UNIVERSITY	1982	HARTLEN POINT-JEDDORE CAPE	T	F	F	F	T	F	RADAR
1119	EASTON, J.A.	DALHOUSIE UNIVERSITY	1982	HARTLEN POINT-JEDDORE CAPE	T	F	F	F	T	F	RADAR
1120	EASTON, J.A.	DALHOUSIE UNIVERSITY	1982	HARTLEN POINT-JEDDORE CAPE	T	F	F	F	T	F	RADAR
1121	HALL	DALHOUSIE UNIVERSITY	1982	EASTERN SHORE	T	F	F	F	T	F	RADAR
1122	HALL	DALHOUSIE UNIVERSITY	1982	EASTERN SHORE	T	F	F	F	F	F	RADAR
1123	EASTON, J.A.	DALHOUSIE UNIVERSITY	1982	HARTLEN POINT-JEDDORE CAPE	T	T	F	F	F	F	RADAR
1124	EASTON, J.A.	DALHOUSIE UNIVERSITY	1982	HARTLEN POINT-JEDDORE CAPE	T	T	F	F	F	F	RADAR
1125	BIDGOOD, D.	N.S.R.F.C.	1981	EASTERN SHORE	T	T	T	F	T	F	DECCA/RADAR
1126	EASTON, J.A.	DALHOUSIE UNIVERSITY	1983	HARTLEN POINT-JEDDORE CAPE	F	T	F	F	T	F	RADAR
1127	EASTON, J.A.	DALHOUSIE UNIVERSITY	1983	HARTLEN POINT-JEDDORE CAPE	F	T	F	F	T	F	RADAR
1128	EASTON, J.A.	DALHOUSIE UNIVERSITY	1983	HARTLEN POINT-JEDDORE CAPE	F	T	F	F	T	F	RADAR
1129	EASTON, J.A.	DALHOUSIE UNIVERSITY	1983	HARTLEN POINT-JEDDORE CAPE	F	T	F	F	T	F	RADAR
1130	EASTON, J.A.	DALHOUSIE UNIVERSITY	1983	HARTLEN POINT-JEDDORE CAPE	F	T	F	F	T	F	RADAR
1131	EASTON, J.A.	DALHOUSIE UNIVERSITY	1983	HARTLEN POINT-JEDDORE CAPE	F	T	F	F	T	F	RADAR
1132	EASTON, J.A.	DALHOUSIE UNIVERSITY	1983	HARTLEN POINT-JEDDORE CAPE	F	T	F	F	T	F	RADAR
1133	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	PETPESWICK	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1134	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1135	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1136	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1137	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1138	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1139	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1140	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	SEAL HARBOUR	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1141	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	SEAL HARBOUR	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1142	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	JEDDORE HBR - SPRY BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1143	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1144	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1145	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1146	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1147	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1148	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1149	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1150	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1151	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1152	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1153	LIBBY, F.	OCEAN SCI. & ENGIN.		LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1154	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1155	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1156	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1157	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	LUNENBURG BAY	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1166	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	HALIFAX HARBOUR	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1167	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	COLE HARBOUR	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1170	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	TAYLOR HD -SOBER IS	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1172	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1175	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1181	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1182	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1183	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1184	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1185	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1186	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1187	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1188	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1189	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1190	LIBBY, F.	OCEAN SCI. & ENGIN.	1968	DOME AREA	T	F	F	F	F	F	DECCA/SEXTANT/RADAR
1238		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1239		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1240		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1241		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1242		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1243		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1244		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1245		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1246		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1247		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1248		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1249		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1250		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1251		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1252		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1253		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1254		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1255		GEOMARINE ASSOCIATES	1977	MCNABS COVE	T	F	F	F	F	F	TRISPONDER
1256		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1257		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1258		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1259		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO

Unique_no	Scientist	Agency	Year	Location	Re	Ss	Dt	Mc	Cam	Vid	Navigation
1260		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1261		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1262		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1263		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1264		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1265		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1266		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1267		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1268		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1269		GEONAUTICS LTD.	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1270	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1271	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1272	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1273	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1274	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1275	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1276	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1277	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1278	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1279	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1280	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1281	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1282	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1283	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1284	PLASSE, D.	GEOMARINE ASSOCIATES	1984	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1394	MILLER, R.O.	BIO	1987	SCOTIAN SHELF	T	T	T	F	F	F	LORAN-C
1395	MILLER, R.O.	BIO	1987	SCOTIAN SHELF	T	T	T	F	F	F	LORAN-C
1396	MILLER, R.O.	BIO	1987	SCOTIAN SHELF	T	T	T	F	F	F	LORAN-C
1397	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1398	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1399	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1400	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1401	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1402	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1403	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1404	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1405	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1406	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1407	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1408	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1409	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1410	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1411	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1412	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1413	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1414	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1415	STEWART, J.M.	GEOMARINE ASSOCIATES	1975	LIGHTHOUSE BANK, HALIFAX HARB.	F	T	F	F	F	F	TRISPONDER
1416		GEONAUTICS	1983	LIGHTHOUSE BANK, HALIFAX HARB.	T	T	T	F	T	F	ARGO
1417		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1418		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1419		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1420		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1421		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1422		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1423		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1424		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1425		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1426		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1427		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1428		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1429		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1430		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1431		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1432		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1433		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1434		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1435		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1436		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1437		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1438		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1439		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1440		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1441		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1443		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1444		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO
1445		GEONAUTICS	1983	COUNTRY HARBOUR	T	T	T	F	T	F	ARGO

APPENDIX 5

SOURCES OF SAMPLE AND SEISMIC DATA COMPILED ON MAPS AND IN DATABASES (APPENDICES)

Most of the following entries were obtained from "Compilation of Information of Surficial Mineral Resources Off Eastern Canada", a report submitted by Earth & Ocean Research Ltd. to the Mineral Policy Sector, Energy Mines and Resources.

Allen, R. and Roda, R.S. 1977 BENTHONIC FORAMINIFERA FROM LAHAVE ESTUARY. Maritime Sediments, vol. 13, no. 2, pp67-72.

Anon. 1981 No Report - Sample Log of CSS Dawson May 1981 Cruise No. 81-016

Barnes, N.E. 1976 THE AREAL GEOLOGY AND HOLOCENE HISTORY OF THE EASTERN HALF OF MAHONE BAY, NOVA SCOTIA. MSc. thesis, Dalhousie University, Halifax, Nova Scotia.

Barrett, A.M. 1981 ISSAC'S HARBOUR PLACERS ASSESSMENT Report submitted by A.M. Barrett to NSDM; Rept # 11F/040 21-G-22(06)

Barrett, A.M. 1981 AN ASSESSMENT OF PLACER GOLD DEPOSITS AT THE OVENS. Assessment Report submitted by A.M. Barrett to NSDM Rept #21A/08B 21-L-46(01)

Barrett, A.M. 1980 ASSESSMENT REPORT ON ROSE BAY PLACER EXPLORATION. Assessment Report Submitted by A.M. Barrett to NSDM; Rept # 21A/08B 21-1-40(01).

Bartlett, G.A. 1964 BENTHONIC FORAMINIFERAL ECOLOGY IN ST. MARGARET'S BAY AND MAHONE BAY, SOUTHEAST NOVA SCOTIA. Bedford Institute of Oceanography, Report 64-8, p159.

Brisco, C.D. 1974 CONCENTRATIONS AND DISTRIBUTION OF OIL POLLUTANTS IN MCNABS COVE, HALIFAX HARBOUR, NOVA SCOTIA. Dept. of Geology, Dalhousie University

Canplan Consultants Ltd. 1975 HALIFAX HARBOUR BOTTOM STUDY. Report submitted to Department of Regional Economic Expansion.

Clark, D.F. 1971 EFFECTS OF AQUACULTURE OUTFALL ON BENTHONIC FORAMINIFERA IN CLAM BAY, NOVA SCOTIA. Maritime Sediments, vol.14, no.3, pp83-94.

Coughlan, T.D. 1981 REPORT ON COUNTRY HARBOUR OFF-SHORE PLACER DEPOSIT. Assessment Report Submitted by Seabright Resources Inc to Nova Scotia Dept of Mines. NSDM report #11F/04A 21-G-61 (01)

Coughlan,T.D. 1981 RESULTS OF THE 1981 BOTTOM SEDIMENT-GOLD SURVEY BETWEEN WINE HARBOUR AND NEW HARBOUR COVE, NOVA SCOTIA. Assessment Report Submitted by Seabright Resources Inc. to NSDM. Report # 11F/04A 21-G-61(04)

DeIure, A.M. 1983 THE EFFECT OF STORMS ON SEDIMENTS IN HALIFAX INLET, NOVA SCOTIA. MSc. thesis Dalhousie University, 216p

Deonarine, B. 1979 FORAMINIFERAL DISTRIBUTION IN TWO NOVA SCOTIA MARSHES Maritime Sediments, Vol. 15, Nos. 2 & 3, pp35-46

Easton, J.A. 1982 MARINE AND COASTAL GEOLOGY BETWEEN HARTLEN POINT AND JEDDORE CAPE, NOVA SCOTIA. BSc. thesis, Dalhousie University, Halifax, Nova Scotia.

Geonautics, Ltd. 1983, VENTURE PIPELINE ROUTE SUREY - COUNTRY HARBOUR AREA. Report to Sable Gas Systems.

Geosea Services, Ltd. 1983 FIELD REPORT ON REFLECTION SEISMIC PROGRAM CARRIED OUT NEAR COUNTRY HARBOUR, NOVA SCOTIA. Report prepared for Seabright Resources. NSDM Assessment Report No. AR 84-039, 11F/04A, 11F/04B, 11F/04D

Grant, A.C. 1967 A CONTINUOUS SEISMIC PROFILE FROM HALIFAX HARBOUR, NOVA SCOTIA BIO contribution No. 101

Gregory, M.R. 1970 DISTRIBUTION OF BENTHONIC FORAMINIFERA IN HALIFAX HARBOUR, NOVA SCOTIA, CANADA. PhD. thesis, Dalhousie University

Hall, R.K. 1985 INNER SHELF ACOUSTIC FACIES AND SURFICIAL SEDIMENT DISTRIBUTION OF THE EASTERN SHORE, NOVA SCOTIA. Center for Marine Geology, Dalhousie University, Technical Report No 8.

Hooper, K. 1978 DISTRIBUTION OF FORAMINIFERA SOUTH OF SHERBROOKE, NOVA SCOTIA. Maritime Sediments, vol.14, no.3, pp83-94

Hopkins, R. 1985 PLACER GOLD POTENTIAL OFFSHORE COUNTRY HARBOUR, NOVA SCOTIA Special Project for the Ocean Mining Division, Resource Evaluation Branch, Canada Oil and Gas Lands Administration, EMR

Hoskin, S. 1983 COASTAL SEDIMENTATION AT LAWRENCETOWN BEACH, EASTERN SHORE, NOVA SCOTIA. Center for Marine Geology, Dalhousie University, Technical Report No. 5.

Hunter, N.J. 1967 MATACHEWAN CANADIAN GOLD LIMITED, OFF-SHORE PROGRAM: OUTLINE PLAN OF INTENDED EXPLORATION. Report to Matachewan Canadian Gold Ltd.
Hunter,N.J. 1968 GEOLOGICAL BACKGROUND FOR PLACER EXPLORATION ON THE NOVA SCOTIAN SHELF. Report to Matachewan Canadian Gold Ltd.

Khavari, Pardis E. 1986 REPORT OF THE HALIFAX HARBOUR MONITORING PROGRAM Report to the Nova Scotia Department of the Environment

King, E. 1983 ANALYSIS OF COUNTRY HARBOUR SEISMIC SURVEY DATA: SEDIMENT TYPES AND THICKNESSES. Report submitted by Huntec (70) Ltd. to Seabright Resources Inc.

LaPierre, A.B. 1985 MODERN SEDIMENTARY ENVIRONMENTS ON THE INNER SHELF EASTERN SHORE, NOVA SCOTIA. BSc.(Hons) thesis, Dalhousie University, Halifax, Nova Scotia.

Letson, J.R. 1978 SEDIMENTOLOGY IN SOUTHWESTERN MAHONE BAY. MSc. thesis, Dalhousie University, Halifax, Nova Scotia.

Libby see Ocean Science and Enginneering

Long, B.F.N. 1986 CRUISE SUMMARY : DAWSON 86-039 Internal BIO report

MacKnight, S. 1987 ENVIRONMENTAL DATA ON ATLANTIC HARBOURS Report submitted by Ocean Chem Group to Waterways Development, Canadian Coast Guard, Transport Canada.

MacKnight, S. 1985 REVIEW OF WATER QUALITY DATA FOR HALIFAX HARBOUR in: The Halifax Inlet Water Quality Study, Phase 1: Data Review

MacKnight, Scott 1985 OCEAN DISPOSAL OF DREDGED MATERIALS FROM ATLANTIC CANADIAN HARBOURS Report Submitted by Ocean Chem Group to the Small Craft Harbours Branch of Fisheries and Oceans.

McKay, A.C. 1981 SUBBOTTOM PROFILING SURVEY OF THE AREAS OFF COUNTRY HARBOUR, NOVA SCOTIA. Nova Scotia Research Foundation Corporation Report NO. 6-81 submitted to Seabright Resources Inc. NSDM Report No. 11F/04A 21-G-61 (02)

Miller, R.O. 1987 CRUISE REPORT - ARCTIC PROWLER TELEGLOBE CANADA SURVEY FOR TAT-9

Munroe, H.D. 1980 PHYSICAL ENVIRONMENTS AND REGIONAL VARIABILITY OF THE ATLANTIC COAST OF MAINLAND NOVA SCOTIA. Report of Atlantic Applied Science Consulting Ltd. to G.S.C. - Open file report #725.

Nolan, F.J. 1963 HEAVY MINERAL ANALYSIS OF BEACH SANDS OF NOVA SCOTIA. MSc Thesis, Dalhousie University.

Ocean Science and Engineering Inc. 1968 FINAL REPORT TO MATACHEWAN CANADIAN GOLD LTD. ON OFFSHORE GOLD EXPLORATION, ATLANTIC COAST, NOVA SCOTIA, CANADA. Report by Ocean Science and Engineering Inc. to Matachewan Canadian Gold Ltd. on Offshore Gold Exploration, Nova Scotia.

Owens, E.H. and Bowen, A.J. 1977 COASTAL ENVIRONMENTS OF THE MARITIME PROVINCES. Maritime Sediments, vol. 13, no. 1, pp1-31.

Pezzetta, J.M. 1962 RECENT SEDIMENTS OF THE SCOTIAN SHELF. MSc. thesis, Dalhousie University, Halifax, Nova Scotia.

Piper, D.J.W. 1978 COASTAL GEOLOGICAL STUDIES, NOVA SCOTIA AND LABRADOR Progress Report to the Department of Energy, Mines and Resources, Research Agreement 147-4-79

Piper, D.J.W. 1978 GEOLOGY OF COASTAL BAYS IN LABRADOR AND NOVA SCOTIA Progress Report to the Department of Energy, Mines and Resources, Research Agreement #113-4-78

Piper, D.J.W. 1977 STUDIES OF THE NEARSHORE ZONE, SOUTH SHORE, NOVA SCOTIA. Progress Report to the Department of Energy, Mines and Resources, Research Agreement #EMR 2239 4 39/77

Piper, D.J.W. and Keen, M.J. 1976 GEOLOGICAL STUDIES IN ST. MARGARETS BAY, NOVA SCOTIA. Geological Survey of Canada, Paper 76-18.

Piper, D.J.W. and Keen, M.J. 1974 ST. MARGARETS BAY, NOVA SCOTIA. Report to the Department of Energy, Mines and Resources

Piper, D.J.W., Mudie, P.J., Letson, J.R.J., Barnes, N.E., Iuliucci, R.J. 1986 THE MARINE GEOLOGY OF THE INNER SCOTIAN SHELF OFF THE SOUTH SHORE, NOVA SCOTIA Geological Survey of Canada Paper 85-19

Plasse, D. 1984. VENTURE PIPELINE ROUTE SURVEY. Geomarine Associates Ltd report to Venture Project Task Task Force, Mobil oil Canada, Ltd., Mobil Report No. 377.

Samson, J. 1984 AN OVERVIEW OF COASTAL AND MARINE GOLD PLACER OCCURRENCES IN NOVA SCOTIA AND BRITISH COLUMBIA Ocean Mining Division Document 1984-3

Schafer, C.T. see Geosea Services Ltd.

Scott, D.B. 1977 DISTRIBUTIONS AND POPULATION DYNAMICS OF MARSH-ESTUARINE FORAMINIFERA WITH APPLICATIONS TO RELOCATING HOLOCENE SEA-LEVEL. PhD. thesis, Dalhousie University

Scott, D.B. 1977 PHYSIOGRAPHIC AND OCEANOGRAPHIC CHARACTERISTICS OF CHEZZETCOOK INLET,NOVA SCOTIA. Maritime Sediments, Vol. 13, No. 2, pp73-78

Sonnichsen, G. 1984 THE RELATIONSHIP OF COASTAL DRUMLINS TO BARRIER BEACH FORMATION ALONG THE EASTERN SHORE OF NOVA SCOTIA. Center for Marine Geology, Dalhousie University, Technical Report No. 6.

Stea, R., and Brisco, V. 1984 BIBLIOGRAPHY OF THE SURFICIAL GEOLOGY OF NOVA SCOTIA AND THE OFFSHORE (WITH RADIOCARBON DATE LIST) Nova Scotia Department of Mines and Energy Report 84-6

Taylor, B. 1978 No report - Sample logging sheets

Urquart, Emmett F. 1977 HOLOCENE HISTORY OF KINGS AND HARTLING BAYS, ATLANTIC COAST OF NOVA SCOTIA. Report to Geological Survey of Canada - Open File Report 586.

von Borstal, B.B. 1974 THE PHYSICAL BEHAVIOUR OF OIL IN SANDY BEACHES, MCNABS ISLAND, NOVA SCOTIA. MSc. thesis, Dalhousie University, Halifax, Nova Scotia.