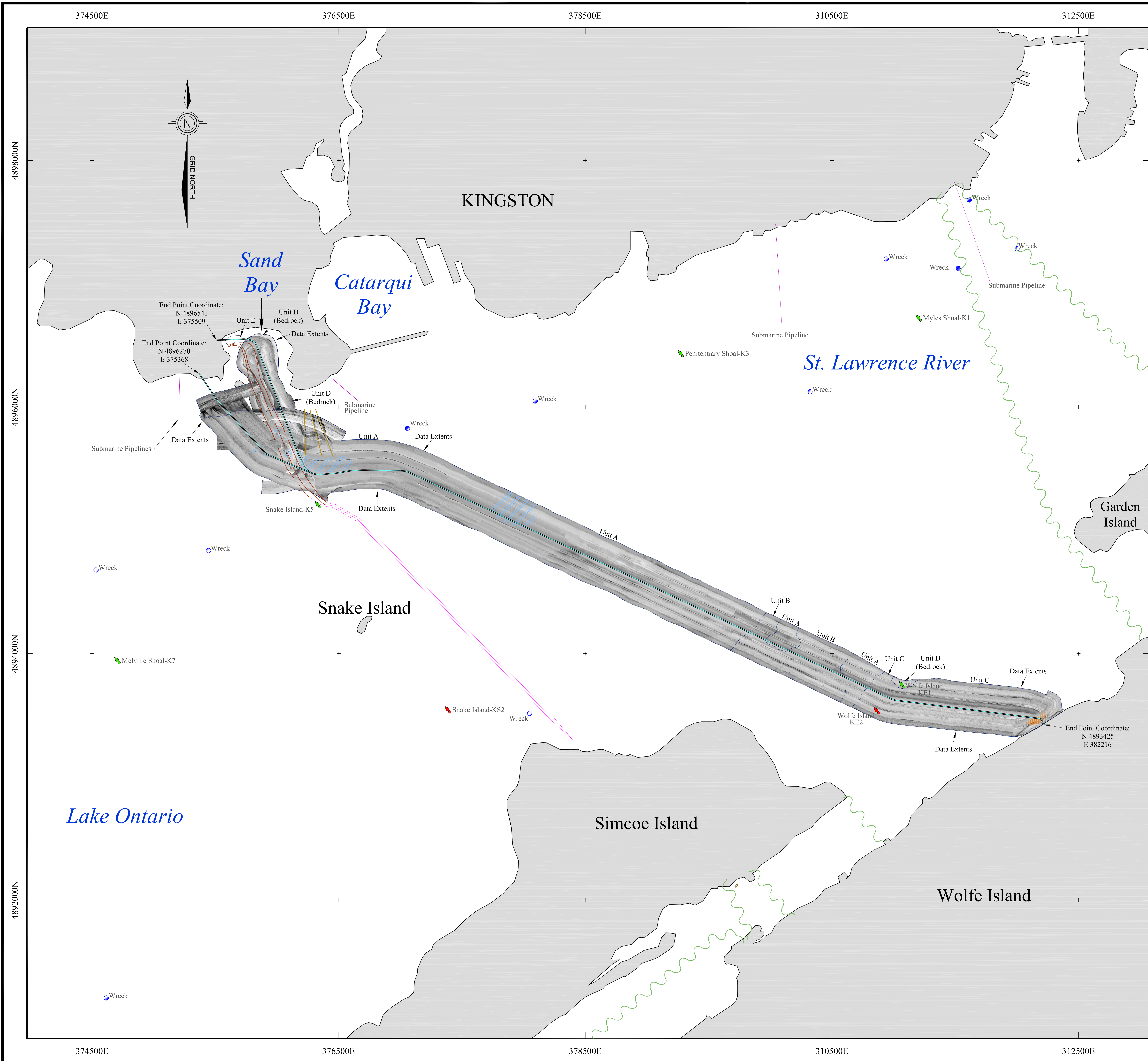




KEY MAP

LEGEND

- Proposed Cable Route
- Cable Route Survey Data Extent
- As-Found Location of Hydro One Submarine Power Cable
- Interpolated Location of Hydro One Submarine Power Cable
- As-Planned Location of Hydro One Submarine Power Cable
- As-Found Submarine Intake Pipes
- Chart Location of Submarine Pipeline (CHS Chart 2017)
- Chart Location of Submarine Cable (CHS Chart 2017)
- Wreck (known Shipwreck)
- Port-Hand Navigational Marker
- Starboard-Hand Navigational Marker
- UTM Graticule

SURFICIAL GEOLOGY AND SEABED FEATURES LEGEND

Unit-A This unit is comprised of fine clay sediments. Dredge spoils and shell beds are present within this unit, characterized by the dark, circular features in the sidescan mosaic. Varying amounts of shell fragments within this unit cause the sidescan imagery to vary in intensity. Anchor drag marks can also be seen within this unit.

Unit-B This unit is interpreted to be fine sand sediments with abundant shell fragments. Gravel and cobble sized clasts are visible throughout the unit as well as occasional boulders.

Unit-C This unit is mostly comprised of sandy silt and an abundance of shell fragments. Gravel and cobble sized clasts are common within the unit, as well as numerous boulders.

Unit-D This unit is found in the shallow portions of the survey area and is the local bedrock surface. Linear patterns associated with the erosion of its horizontal layering are visible in the sidescan imagery. Cobbles and boulders are also visible on top of this unit.

Unit-E This unit is found at the landfall area in Sand Bay and is composed of coarse cobbles within fine sand and silt sediments. This unit is less than 0.5 metres thick and lies atop of bedrock.

- Unit Boundary
- Area of Dredge Spoils
- Area of Logs and Boulders

FIELD SURVEY

The survey was conducted by Canadian Seabed Research Ltd. between June 29 and May 21, 2007.

Party Chief: Blaine Carr

SURVEY VESSEL AND EQUIPMENT

Positioning System: "Seastar" Differential GPS
Survey Navigation Software: Hyack Max
Echo Sounder: Odo Sonar C33 (33 & 200 kHz)
Side Scan Sonar: Klein 595 (500 kHz)
Sub-bottom Profiler: Klein 3.5 kHz
Digital Acquisition System: CODA DA-100

BASEMAP

Projection: Universal Transverse Mercator (Zone 18)
Meridian of Origin: 75° West of Greenwich
Latitude of Origin: Equator
False Co-ords of Origin: 500,000m East
North American Datum of 1983 (NAD83)
Chart Datum (74.2 metres above I.G.L.D. 1985)
Vertical Datum: 1:10,000
Metres

SIDESCAN SONAR MOSAIC

The surficial geological interpretation is based on sidescan sonar and sub-bottom profiler data with ground truthing provided by grab samples and lakefloor video footage.

The digital sidescan sonar mosaic was created from raw sidescan sonar data using Coda Geosurvey software. Once the raw data had been reviewed, navigational corrected and smoothed for ship and fish track offsets, an accurate approximation of the actual fish position was obtained. The corrected navigational files were then imported into the Coda mosaic software to be used during the playback of the individual sidescan lines files while building the mosaic. After final quality control checks, the geo-referenced mosaic was exported from the Coda Geosurvey software and used in Canadian Seabed Research's digital mapping software.

NAVIGATION HAZARDS

The positions for the navigation buoys were obtained from the Fisheries and Oceans Canada, Notice to Mariners, Inland Waters - List of Lights, Buoys and Fog Signals January 2006 (www.notmar.gc.ca). Navigation hazards such as shipwreck positions, submarine cables and pipelines were digitized from Canadian Hydrographic Service Chart 2017, April 29, 2005 and U.S. Department of Commerce, National Oceanic and Atmospheric Administration Chart 14802, 31st ed. October, 2005. Additional submarine pipelines, submarine cables and wrecks may exist within the area and not indicated on the chart.

COASTLINE

The Shoreline was obtained from a NOAA Website (<http://nauticalcharts.noaa.gov/mcd/Raster/index.htm>) and should be considered approximate.

Note: This chart is not for navigational purposes.

Scale (metres)
1 : 10000

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ENGINEERING & ENVIRONMENTAL GEOPHYSICS

Wolfe Island Cable Route Survey
Kingston, Ontario
Surficial Geology and Seabed Features
Enclosure 2

REV	DATE	REMARKS	INTERPRETED BY	COMPILED BY	CHECKED BY
0	June 15, 2007	Draft	AC	AC	GG
1	July 09, 2007	Final	AC	AC	GG

SCALE: 1:10000
PROJECTION: UTM Zone 18
CSR PROJECT #: 0716
FILE: 0716E02_Surf.dwg