



SURVEY NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY VESSEL ALUMINUM BOAT
SURVEY DATES BETWEEN JUNE 22, 2016 & JUNE 06, 2018

SOUNDER TYPE: SINGLE TRANSDUCER
SOUNDER SETTING MIN/INST VEL. OF SOUND 1436 m/s
DEPTH GATE USED N/A FRE. OF TRANS. 210 KHZ

POSITIONING SYSTEM USED TRIMBLE R7 GNSS DOPS (WITH OTF)
LAND SURVEY POSITION BY TRIMBLE R7 GNSS DOPS (WITH OTF)

DATA TAPE/DISC(S) USED
CAD DRAWING FILE(S)
TIDAL REDUCTION SCHEME

OFFICE PROCESSOR EDDIE BEARNS
DATE OF PROCESSING JUNE 2018

MODE OF PLOTTING LEAST OF MINIMUM DEPTHS
MATRIX CELL WIDTH X LENGTH
REDUCTION OF MATRIX CELLS

CONTROL POINTS:

PL. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
2003G17	579541.081	5795268.285	8.132 m	PROVINCIAL BRASS PLAQUE SET IN BEDROCK
799-1988	579642.353	5795281.423	5.664 m	I.P. WITH CAP SET IN BEDROCK
776-1988	579614.23	5795270.68	7.01 m	I.P. WITH CAP SET IN BEDROCK
PWC 1-2010	579191.040	579541.224	3.51 m	X-CUT IN GUY WIRE ANCHOR
PWC 1-2013	579270.824	579554.955	2.98 m	BOLT SET IN BEDROCK (BOLT MISSING)
F.I.P. 1-2018	579280.252	579543.079	6.298 m	NAIL IN WOODEN DECK OF CRIB FOR DOCKS
95F9337			8.525 m	CHS BRASS PLAQUE SET IN BEDROCK
95F9338			4.078 m	CHS BRASS PLAQUE SET IN BEDROCK

ALL SOUNDINGS & ELEVATIONS IN METRES.
ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 95F9336 ELEV. +6.298m (BRASS PLAQUE SET IN BEDROCK)

SOUNDINGS TAKEN USING NAVSOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM ON MAY 06, 2018 BY PWC/SURVEY CREW.

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 22, USING THE NORTH AMERICAN DATUM OF 1983 (NAD83).

SOUNDINGS WERE REDUCED BY DIGITRACE & RE-CHECKED FROM SOUNDING CHARTS BEFORE BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION.

SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013.14.

SPEED OF SOUND WAS OBTAINED USING A DIGIBAR-PRO VELOCITY METER.

ALL FIELD NOTES ARE IN MARY'S HARBOUR BOOK #216.

- LEGEND**
- SYMBOLS**
- ANCHOR BUREAU
 - ANCHOR BLOCK
 - BOLEHOLE
 - BOUNDARY MARKER
 - CATCH BASIN
 - CLAY
 - CULVERT
 - DEBRIS
 - DREDGE CONTROL
 - ELECTRICAL OUTLET
 - FIRE HYDRANT
 - FIRST AID
 - FISH HANDLING EQUIP.
 - FOG HORN
 - FUEL PUMP
 - HORIZONTAL CONTROL
 - INVERT PIPE
 - JOB CRANE
 - LAND FILL
 - LADDER
 - LIFT RING
 - LIGHT STANDARD
 - MANHOLE
 - MARSH
 - MARSH/TOWER
 - NAVIGATION LIGHT
 - OBSERVED BUOY
 - OBSERVED SPAR BUOY
 - PIPE PILE
 - RANGE LIGHT
 - SAFETY POST
 - SEWER OUTFLOW PIPE
 - SEW
 - TELEPHONE POLE
 - TELEPHONE
 - TIDE GAUGE/STAFF
 - TRAIL
 - UTILITY POLE
 - VERTICAL CONTROL
 - WATER TAP/OUTLET
 - WATER VALVE
 - WATER WELL
 - WOOD PILE
- LINE TYPE**
- ARMOUR STONE
 - CL RAILROAD
 - DRAIN PIPE
 - EDGE ROAD / SHOULDER
 - FENCE LINE
 - FLUORINE WATERMARK
 - GUARD RAIL
 - HIGH WATER MARK
 - LOW WATER MARK
 - MARSH OUTLINE
 - PROPERTY BOUNDARY
 - RANGE LIGHT EXTENSION
 - REINFORCING WALL
 - REPAIR
 - TOE OF BANK
 - TREE LINE
 - UNDERGROUND CABLE
- LEGEND:**
- INDICATES NEW BREAKWATER

GPS COORDINATES

COORDINATE	EASTING	NORTHING
A	579190.4052	5796512.3996
B	579258.0188	5796461.3821
C	579322.2173	5796488.9324

Fisheries and Oceans Canada **Pêches et Océans Canada**

SMALL CRAFT HARBOURS

NOTES:

- ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND

PERMIT HOLDER

This Permit Allows

APN ENGINEERING INC.

To practice Professional Engineering in Newfoundland and Labrador, as per the Permit No. as issued by APENG, 20282, which is valid for the year 2018.

REGISTERED PROFESSIONAL ENGINEER

NIEL C. HUNT

11/20/18

NEWFOUNDLAND & LABRADOR

A	ISSUED FOR TENDER	11/20/18
revisions		date
project		project
BREAKWATER CONSTRUCTION		
MARY'S HARBOUR, NL		
drawing		desain
NEW SITE PLAN		
designed N.H.		concu
date	NOVEMBER, 2018	
drawn P.H.		desine
date	NOVEMBER, 2018	
approved		approve
Tender		Submission
DFD Project Manager		
project number	722614	no. du projet
drawing no.	C2	no. du dessin

EDRM Document No.