

SURVEY NOTES

SURVEY PARTY CHIEF: DARRYL GREEN
SURVEY VESSEL: SCOTIA SURVEYOR
SURVEY DATE(S): JUNE 10-11, 2015
SOUNDER TYPE: ROSS SWEEP SYSTEM
SOUNDER SETTINGS: INST VEL. OF SOUND 1477 m/s
DEPTH GATE USED: N/A FREQ. OF TRANS. 180-210 kHz
LAND SURVEY POSITION BY RTK GPS TRIMBLE R7
RAW DATA FILE(S): BAL162MX.ZIP (HYPACK)
CAD DRAWING FILE(S): BAL162A.DWG

TIDAL REDUCTION SCHEME: REF TO NS MON, 11457, ELEV. 60.46m ABOVE CD
REF TO CHS BM 65N9002, ELEV 3.828m LOCATED IN PICTOU. CHART DATUM GSC DATUM
DIFFERENCE OF 0.92m APPLIED TO NS MON 11457 LISTED GSC ELEVATION.

OFFICE PROCESSOR: S. DUFFY
DATE OF PROCESSING: JUNE 2015

MODE OF PLOTTING: AVERAGE DEPTHS
MATRIX CELL WIDTH X LENGTH: 1.2m BY 3.0m

CONTROL POINTS: NAD83 (ORIGINAL) UTM ZONE 20
RL NAME EASTING NORTHING C.D. ELEV. DESCRIPTION
NS 11457 583288.272 5078297.984 +60.46 LRIS CONTROL
PT "501" 583979.341 5079006.325 +2.98 PWGSC
PT "502" 583993.715 5078919.420 +2.98 PWGSC

NOTE:
WHARF STRUCTURES AND LAND FEATURES ON THIS
PLAN WERE OBTAINED FROM REALITY PLAN S-9324
REVISED IN 2006.

TOPO ELEVATIONS SURVEYED ON JUNE 10, 2015.

SOUNDINGS WERE ROUNDED ACCORDING TO CANADIAN
HYDROGRAPHIC SERVICE SURVEY STANDARDS.

LEGEND

- ▲ PWGSC HORIZONTAL CONTROL
- /● PWGSC VERTICAL CONTROL
- /● SOUNDING/TOPOGRAPHIC ELEVATION
- ⊕ HORIZONTAL CONTROL POINT
- ⊕ TOPOGRAPHIC ELEVATION
- +3.00 POWER POLE
- DERRICK
- × NAVIGATION LIGHT

DREDGE COORDINATES		
MARK	EASTING	NORTHING
1	E 583 869.082	N 5 078 941.195
2	E 583 895.546	N 5 078 955.193
3	E 583 948.593	N 5 078 986.095
4	E 583 976.171	N 5 078 985.887
5	E 583 986.639	N 5 078 922.584
6	E 583 949.003	N 5 078 916.342
7	E 583 951.928	N 5 078 898.710
8	E 583 989.683	N 5 078 904.973
9	E 583 995.667	N 5 078 869.518
10	E 583 918.455	N 5 078 855.830
11	E 583 901.805	N 5 078 865.126

CONCRETE ANCHOR SLAB CENTER POINTS		
MARK	EASTING	NORTHING
SLAB A	E 583 880.472	N 5 078 948.825
SLAB B	E 583 883.791	N 5 078 941.829
SLAB C	E 583 917.770	N 5 078 922.436
SLAB D	E 583 915.468	N 5 078 921.461
SLAB E	E 583 922.049	N 5 078 912.333
SLAB F	E 583 819.747	N 5 078 911.358
SLAB G	E 583 933.623	N 5 078 885.560
SLAB H	E 583 831.321	N 5 078 884.584
SLAB J	E 583 967.902	N 5 078 875.457
SLAB K	E 583 935.600	N 5 078 874.481

EXISTING CONDITIONS AND DREDGE PLAN

SCALE: 1:500
0m 10m 20m 30m 40m 50m

FLOATING DOCKS, GANGWAY / STRONG ARM ASSEMBLIES AND CONCRETE ANCHOR
SLABS MUST BE REMOVED AND RELOCATED BY THE CONTRACTOR, AS REQUIRED,
TO ACCOMMODATE DREDGING OPERATIONS. SEE NOTE 10, SHEET 1.

DREDGE SECTION

SCALE: 1:125
0m 1 2 3 4 5 6 7 8 9 10m

GENERAL NOTES

- THE WORK UNDER THIS CONTRACT CONSISTS OF, BUT IS NOT LIMITED TO, THE FOLLOWING:
 - REMOVAL AND SALVAGE OF EXISTING ARMOURSTONE AND FILTERSTONE BETWEEN STA 0+050 AND STA 0+130. SALVAGED MATERIAL TO BE USED IN CONSTRUCTION OF NEW CONTAINMENT BERM.
 - SUPPLY & INSTALLATION OF NEW CONTAINMENT BERM.
 - DREDGING OF AREA SHOWN ON DRAWING TO ELEVATION -2.30m. DISPOSAL OF DREDGE MATERIAL IN NEW CONTAINMENT AREA.
- ELEVATIONS REFER TO BENCHMARK - BM(1) - AT TOP OF CONCRETE SLAB OF FISHERIES STORAGE SHED, WHERE INDICATED ON SITE PLAN; WHICH HAS AN ELEVATION OF 3.31 METRES ABOVE CHART DATUM.
- CHART DATUM IS, BY INTERNATIONAL AGREEMENT, A PLANE BELOW WHICH THE TIDE WILL SELDOM FALL. THE CANADIAN HYDROGRAPHIC SERVICE HAS ADOPTED THE PLANE OF LOWEST NORMAL TIDE (L.N.T.) AS CHART DATUM. AS THE RISE, FALL AND RANGE OF TIDES VARIES DAILY, THE CANADIAN TIDE AND CURRENT TABLES, AS ISSUED BY THE CANADIAN HYDROGRAPHIC SERVICE, SHOULD BE CONSULTED FOR TIDAL PREDICTIONS AND OTHER TIDAL INFORMATION RELATING TO WORK.
- THE CONTRACTOR SHALL BE HELD TO HAVE VISITED THE SITE AND TO HAVE BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE PLAN BEFORE STARTING WORK.

- GRID NORTH REFERS TO UNIVERSAL TRANSVERSE MERCATOR PROJECTION COORDINATES, NORTH AMERICAN DATUM 1983, ZONE 20.
- ALL DIMENSIONS SHOWN ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES. DO NOT SCALE FROM DRAWINGS, FIGURED DIMENSIONS ARE TO BE FOLLOWED.
- DREDGING OPERATIONS ARE NOT TO UNDERMINE THE EXISTING BREAKWATERS.
- DREDGE SIDE SLOPES AT 1 VERTICAL TO 2 HORIZONTAL.
- FLOATING DOCKS, GANGWAY / STRONG ARM ASSEMBLIES AND CONCRETE ANCHOR SLABS MUST BE REMOVED AND RELOCATED BY THE CONTRACTOR, AS REQUIRED, TO ACCOMMODATE DREDGING OPERATIONS. ALL CONCRETE ANCHOR SLABS AND COMPONENTS MUST BE REINSTATED TO ORIGINAL LOCATIONS (COORDINATES PROVIDED ON PLAN) AND CONDITION FOLLOWING COMPLETION OF DREDGING. FLOATS TO BE SECURED "IN WATER" FOR WINTERIZATION AS PER TYPICAL ARRANGEMENT UNDER GUIDANCE FROM THE HARBOUR AUTHORITY. IN SPRING, CONTRACTOR WILL BE RESPONSIBLE TO REINSTATE FLOATING DOCKS, GANGWAY / STRONGARM ASSEMBLIES AS PER PRE-DREDGE LAYOUT PRIOR TO APRIL 15, 2017 TO ENSURE THEY ARE FULLY OPERATIONAL FOR START OF LOBSTER SEASON.

EXISTING CONDITIONS SECTION

SCALE: 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

1 LAYER OF 2 TONNE TO 4 TONNE ARMOUR
STONE ON SEAWARD FACE TO BE
REMOVED AND REUSED IN NEW WORK

TOP OF CORE STONE/FILTER STONE EL.+3.00m

2 LAYERS OF 200kg TO 400kg FILTER
STONE ON SEAWARD FACE TO BE
REMOVED AND REUSED IN NEW WORK

CHART DATUM EL. 0.00m

BASIN DREDGING AND CONTAINMENT CELL CONSTRUCTION

BALLANTYNES COVE
ANTIGONISH COUNTY NOVA SCOTIA

EXISTING CONDITIONS, REMOVALS AND DREDGE PLAN AND SECTION

designed ROSALIA GALANTE
date AUGUST 2016
drawn GEORGE PROSPER
date AUGUST 2016
approved
date
checked
date
PROJECT NUMBER
R.076163.001
drawing no. SHT 1 OF 2