



SURVEY NOTES

MAY 31, 2012 SURVEY NOTES

SURVEY PARTY CHIEF DARRYL GREEN
SURVEY DATE(S) MAY 31, 2012
LAND SURVEY POSITION BY TRIMBLE 5700
RAW DATA FILE(S): NWL152.ZIP
CAD DRAWING FILE(S): NWL152.DWG

TIDAL REDUCTION SCHEME
REFERENCED TO CHS 1-1983 IN WESTHEAD, ELEV. 4.324m ABOVE CHART DATUM.
OFFICE PROCESSOR DAVID MELANSON
DATE OF PROCESSING JUNE 18, 2012

MARCH 30, 2005 SURVEY NOTES

SURVEY PARTY CHIEF DAVID MELANSON
SURVEY DATE(S) MARCH 30, 2005
SURVEY VESSEL: ALUMINUM BOAT
LAND SURVEY POSITION BY WILD T1600
RAW DATA FILE(S): NEWELLTON (HYPACK)
CAD DRAWING FILE(S): NWL091A1.DWG

TIDAL REDUCTION SCHEME
REFERENCED TO CHS 1-1983 IN WESTHEAD, ELEV. 4.324m ABOVE LNT
OFFICE PROCESSOR MICHEL GOGUEN
DATE OF PROCESSING APRIL 08, 2005

CONTROL POINTS	PL. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
1		287011.47	4816636.27	4.13	PWOSC CONTROL
2		286978.32	4816715.08	4.02	PWOSC CONTROL
3		286987.384	4816449.803	3.499	PWOSC CONTROL
4		N/A	N/A	4.324	CHS MONUMENT
5		286927.6	4816636.5	4.33	PWOSC CONTROL (TOP OF CURB)
6		28694.17	4816601.62	4.47	PWOSC CONTROL

SPECIAL NOTE: SOUNDING DATA IS FROM 2005 SURVEY AND TOPOGRAPHIC INFORMATION OUTSIDE THE SURVEY REQUEST AREA FROM OLDER SURVEYS PRIOR TO 2005. USE THIS INFORMATION WITH CAUTION.

LEGEND

- BM BENCHMARK
- TP1 TEST PIT LOCATION
- BH10 BORE HOLE LOCATION
- △A CONTROL POINT
- PP UTILITY POLE
- SM CAPPED SURVEY MARKER
- A COORDINATE POINT
- 3.6 SOUNDING (METRES BELOW CHART DATUM)
- 4.34 ELEVATION (METRES ABOVE CHART DATUM)
- 10.9/2.2 ELEVATION/SOUNDING (T.WALSH SEPT. 2013)
- DREDGE AREA
AREA TO BE DREDGED TO 2.7m BELOW CHART DATUM
- CRIBWORK EXCAVATION
AREA TO BE EXCAVATED TO 3.0m BELOW CHART DATUM

GENERAL NOTES

- THE WORK UNDER THIS CONTRACT CONSISTS OF, BUT IS NOT LIMITED TO, THE FOLLOWING:
 - DREDGING OF BASIN AREA AS INDICATED ON PLAN TO 2.7 METRES BELOW CHART DATUM.
 - EXCAVATION FOR CRIBWORK MATTRESS TO 3.0 METRES BELOW CHART DATUM, INCLUDING THE SALVAGE OF REMNANTS OF THE EXISTING BREAKWATER MATERIALS, ARMOUR STONE, FILTER STONE AND CORE STONE, FOR REUSE WITHIN THE LIMITS OF THE NEW WORK.
 - CONSTRUCTION OF NEW CRIBWORK MARGINAL WHARF COMPLETE WITH REINFORCED CONCRETE DECK.
 - CONSTRUCTION OF NEW SERVICE AREA, INCLUDING PLACEMENT OF APPROVED SALVAGED MATERIALS, NEW GRANULAR BASE, ROCK FILL, CORE STONE AND CURB STONES AS INDICATED ON PLANS.
 - PLACEMENT OF NEW FILTER STONE SLOPE PROTECTION AND SCOUR PROTECTION.
- THE FIELD SURVEY WAS CARRIED OUT ON VARIOUS DATES, BY PWOSC CREW. DATA VALID ONLY ON DATES TAKEN. DUE TO THE EXTENDED PERIOD OF TIME OVER WHICH THIS DATA WAS OBTAINED, EXTREME CAUTION MUST BE EXERCISED REGARDING ITS USE.
- ELEVATIONS REFER TO TEMPORARY BENCHMARK AT TOP OF CONCRETE GUARD OF PUBLIC WHARF, WHERE INDICATED ON SITE PLAN, WHICH HAS AN ELEVATION OF 4.33 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.
- GRID NORTH REFERS TO UNIVERSAL TRANSVERSE MERCATOR PROJECTION COORDINATES, NORTH AMERICAN DATUM 1983, ZONE 20.
- USING A VOLVO 460 EXCAVATOR EQUIPPED WITH A 1.5 YARD BUCKET, A GRADE OF 3.0 METRES BELOW CHART DATUM WAS ACHIEVED AT TEST PIT LOCATIONS TP1, TP2 AND TP3.
- BOREHOLE LOGS FOR BOREHOLES BH9A AND BH10 ARE ATTACHED AS APPENDIX A IN THE CONTRACT SPECIFICATIONS.

DREDGE COORDINATES		
MARK	EASTING	NORTHING
A	E 286 902.230	N 4 816 658.850
B	E 286 904.519	N 4 816 699.035
C	E 286 910.221	N 4 816 702.416
D	E 286 912.217	N 4 816 702.303
E	E 286 927.193	N 4 816 701.450
F	E 286 924.370	N 4 816 651.880
G	E 286 909.993	N 4 816 652.699
H	E 286 908.160	N 4 816 653.845
J	E 286 906.464	N 4 816 654.905

TEST PIT COORDINATES		
MARK	EASTING	NORTHING
TP1	E 286 905.010	N 4 816 699.091
TP2	E 286 903.885	N 4 816 679.341
TP3	E 286 902.760	N 4 816 659.591
TP4	E 286 911.000	N 4 816 698.750
TP5	E 286 908.750	N 4 816 659.250

BORE HOLE COORDINATES		
MARK	EASTING	NORTHING
BH9A	E 286 904.894	N 4 816 661.919
BH10	E 286 924.227	N 4 816 638.248

CONSTRUCTION BASELINE COORDINATES		
MARK	EASTING	NORTHING
A	E 286 900.128	N 4 816 628.763
B	E 286 893.002	N 4 816 635.779
C	E 286 887.767	N 4 816 649.357
D	E 286 890.852	N 4 816 703.520

