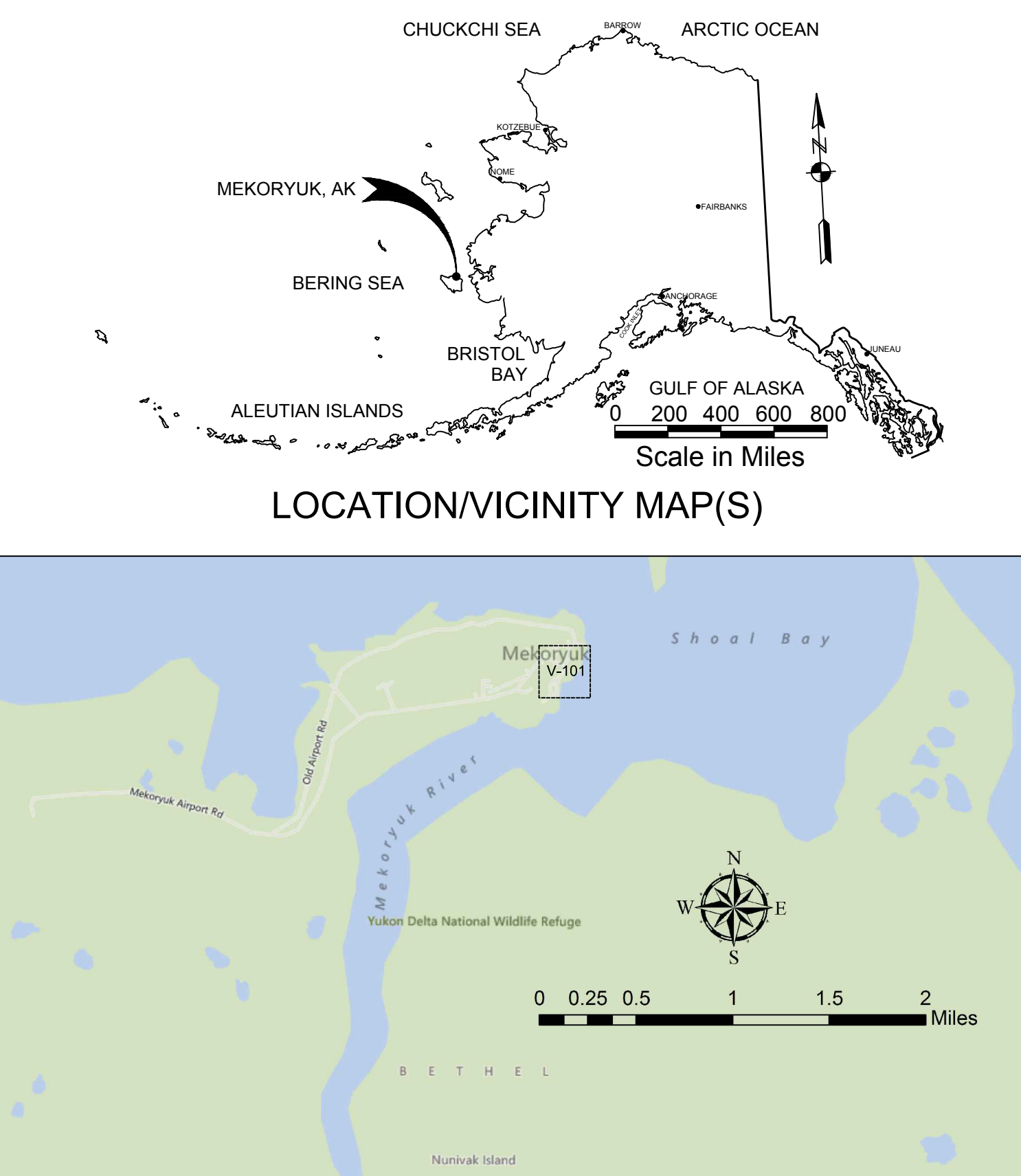
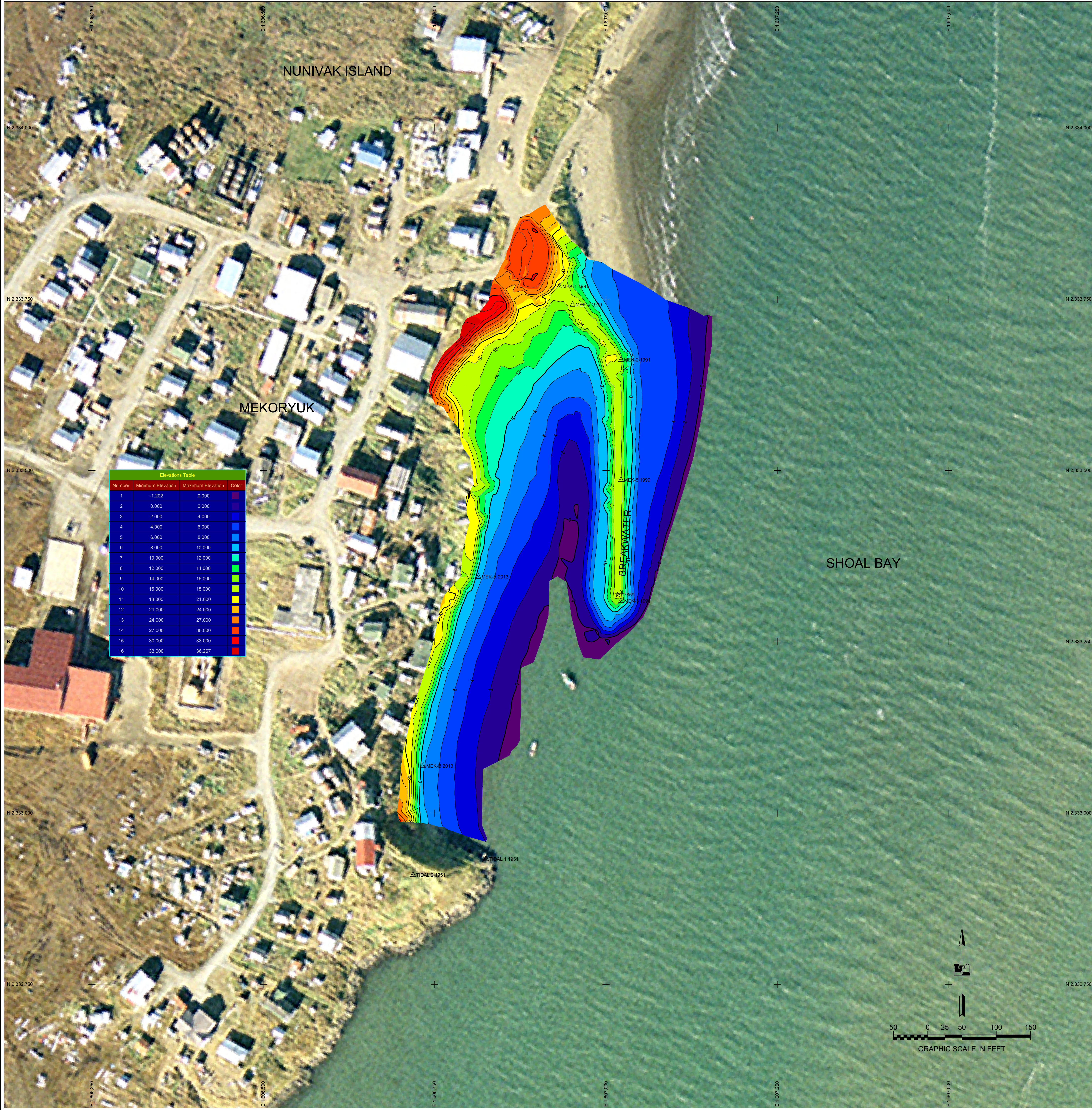




NOTES

1. HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 8, NAD83, IN US SURVEY FEET BASED ON A FULLY CONSTRAINED STATIC GPS NETWORK HOLDING THE PUBLISHED NAD83 (CORS) 2010.00 EPOCH VALUES OF NOS CORS STATIONS "PLATINUM AK2007 CORS ARP" (AS12 - PID DL6872) AS N 58 57 02.871 W 161 44 46.461 (GEOGRAPHIC 1983) AND "BET1 BETHEL WAAS CORS ARP" (BET1 - PID - DK4091) AS N 60 47 16.508 W 161 50 30.123 (GEOGRAPHIC 1983) AND "DILLINGHAM AK2007 CORS ARP" (AS14 PID - DL6426) AS N 59 08 23.405 W 159 05 29.431 (GEOGRAPHIC 1983). RESULTANT COORDINATES AT PRIMARY HARBOR CONTROL HOLDING CONTROL MONUMENT "TIDAL-1 1951" AS N 2,332,933.08, E 1,606,824.85 AND "MEK-1 1991" AS N 2,333,768.92, E 1,606,931.91.
2. VERTICAL CONTROL IS MEAN LOWER LOW WATER (MLLW=0.0), BASED ON NOAA/NOS TIDAL BENCH MARK LIST "946 6217, MEKORYUK, MEKORYUK RIVER ENTRANCE, AK", PUBLISHED 01/14/2011. THIS TIDAL DATUM IS BASED ON THE 1983-2011 TIDAL EPOCH AND IS REFERENCED BY HOLDING NOAA TIDAL BENCH MARK "6217 C 2010" AS 10.48' AND NOAA TIDAL BENCH MARK "TIDAL 1 1951" AS 11.97'.
3. VERTICAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD83 ELEVATIONS HOLDING THE OPUS DB PUBLISHED VALUES OF "6217 C 2010" (PID BBB239) AS 9.94'.
4. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
5. THE EXISTING PROJECT CONSISTS OF MEKORYUK HARBOR LOCATED IN MEKORYUK, ALASKA.
6. THE SURVEY WAS CONDUCTED ON OCTOBER 1, 2013. ALL SURVEY DATA WAS COLLECTED USING TOPOGRAPHIC TECHNIQUES WITH AN R8 RTK ROVER. POSITIONING WAS PROVIDED IN REAL TIME USING A TRIMBLE R8 RTK GPS RECEIVER OPERATING ON KINEMATIC CORRECTIONS BROADCAST FROM A TRIMBLE R8 RTK BASE RECEIVER SET AT CONTROL STATION, "MEK-1". THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY.
8. TOPOGRAPHIC DATA WAS COLLECTED ON A MINIMUM OF 25 FOOT SPACING.

SURVEY CONTROL DATA

STATION	NORTHING	EASTING	MLLW	DESCRIPTION
MEK-1 1991	2,333,768.92	1,606,931.91	16.76	3 1/2 INCH ALUMINUM CAP
MEK-2 1991	2,333,661.69	1,607,021.90	17.69	3 1/2 INCH ALUMINUM CAP
MEK-3 1991	2,333,309.77	1,607,022.15	16.20	5/8 INCH REBAR
MEK-4 1999	2,333,742.12	1,606,951.20	17.21	DOMED BC
MEK-5 1999	2,333,486.30	1,607,021.70	17.25	DOMED BC
MEK-A 2013	2,333,344.84	1,606,813.95	14.18	(SET) FLAT BC
MEK-B 2013	2,333,068.89	1,606,733.34	11.44	(SET) FLAT BC
TIDAL 1 1951	2,332,933.08	1,606,824.85	11.97	USC&GS SBC
TIDAL 2 1951	2,332,909.85	1,606,718.27	41.81	USC&GS SBC

NAVIGATION AIDS

USCG NO.	NORTHING	EASTING	DESCRIPTION
27859	2,333,318.96	1,607,017.26	MEKORYUK BREAKWATER DAYBEACON 2



US Army Corps of Engineers
ALASKA DISTRICT

CONTRACT NO. W11H9-10-2-0065-0014

COMPILED BY: JBER, ALASKA 89506-0898

CITY: WASILLA

STATE: ALASKA

DATE: 10/01/2013

APPROVED BY: GARY S. HUGHES

FILE NAME: MEKORYUK_HARBOR_AK_2013_FINAL.DWG

SIZE: 1,000,000

DATE: 10/01/2013

MEKORYUK, ALASKA
MEKORYUK HARBOR
PROJECT CONDITION SURVEY
OCTOBER 1, 2013

SHEET IDENTIFICATION
V-102
Sheet 2 of 2