







## NOTES

1. PRIMARY PROJECT HORIZONTAL CONTINENTAL IS ALASKA STATE PLANE, ZONE 10, NAD83 (CORES); IN SURVEY FEET BASED ON A STATIC GPS NETWORK HOLDING NSG EPOCH 2003.00 CORES 1 FLIGHT CENTER VALUES (CORES) AND "00000000" CORES 2003.00 "PORT HEIDEN KA 0003 CORES ARF" (NSG PID DL6447) AND "SAND POINT 0004 CORES ARF" (NSG PID DL7635).
2. LOCAL PROJECT HORIZONTAL CONTINENTAL IS ALASKA STATE PLANE, ZONE 10, NAD83. IN SURVEY FEET HOLDING DOMED CA "1-C2007" AS 1,N,1,855,268.50, E,5,316,753.29 AND DOMED CB "U1-1, 2010" AS 1,190,372.71, E,5,313,655.62.
3. VERTICAL CONTINENTAL IS MEAN LOWER LOW WATER (MLLW=0.0) BASED ON THE NOAA/NGS TIDAL BENCH MARK DEPT 1000.00 DUTCH HARBOR, ALASKA PUBLISHED 10/24/2011. THIS TIDAL DATUM IS BASED ON THE 1983-2001 TIDAL EPOCH AND IS REFERENCED BY HOLDING NOAAUSGCS TIDAL BENCHMARK "N 19 1973" AS 16.43.
4. VERTICAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD83 (GEOID 124) ELEVATIONS HOLDING NOAAUSGCS TIDAL BENCHMARK "N 19 1973" PID B88581/M1816 AS 16.70.
5. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
6. BATHYMETRY WAS COLLECTED JUNE 23 & 24, 2014. SOUNDINGS WERE COLLECTED USING AN RSONIC 2002 MULTIBeam ECHOSOUNDER OPERATING AT 200 kHz, SOUND VELOCITY THOUGH THE WATER COLUMN WAS DETERMINED WITH A CTD. SOUND VELOCITY DATA WERE POSITIONED AND VESSEL ORIENTATION WERE MEASURED USING AN APPLIX POSMV WAVEMASTER V5 SYSTEM. DATA WAS COLLECTED AND PROCESSED USING QINSY 8.1 SOFTWARE. HORIZONTAL DATA WAS SURVEYED USING STATIC GNSS EQUIPMENT AND TECHNIQUES. VERTICAL CONTINENTAL WAS SURVEYED USING DIFFERENTIAL LEVELING TECHNIQUES.
7. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY.
8. MAP SOUNDINGS ARE BINNETD AT 24 FEET AND ARE SHOAL-BASED, CONTOURS ARE BASED ON 12 FEET BINNETD SHOAL-BIASED SOUNDINGS. VOLUME SOUNDINGS ARE BINNETD AT 3 FEET AND ARE MEAN VALUE SOUNDINGS.

## SURVEY CONTROL DATA

STATION	NORTHING	EASTING	MLLW	DESCRIPTION
2620 M 1982	1,184,130.08	5,317,058.63	10.97	NOS SBC
2620 N 1990			11.70	NOS SBC
ARGENTINA 1994	1,180,828.37	5,312,893.00	33.59	2 INCH AL CAP
GRAVE 1901-35	1,183,502.41	5,320,202.41	59.72	USCGS SBC (TRI STA)
NO. 19 1973	1,183,685.10	5,317,889.85	16.43	USCGS SBC (BENCH MARK)
UH-1 2010	1,180,372.71	5,313,655.82	10.93	3 INCH DOMED BC
UH-2 2010	1,180,603.19	5,313,280.70	11.05	3 INCH DOMED BC
UH-3 2014	1,181,089.15	5,313,050.09	13.01	3.5 INCH DOMED BC
UH-4 2014	1,181,692.30	5,313,719.62	12.32	3.5 INCH DOMED BC

## NAVIGATION AIDS

USCG NO.	NORTHING	EASTING	DESCRIPTION
UNKNOWN1	1,180,456	5,313,805	FL G 2.5S 19FT 5M "1"
UNKNOWN2	1,180,623	5,313,765	Q 13FT 5M "D"
UNKNOWN3	1,180,990	5,314,017	FL 4S 13FT 5M "C"
UNKNOWN4	1,181,358	5,314,268	FL 2.5S 13FT 5M "B"
UNKNOWN5	1,181,532	5,314,364	FL 4S 13FT 5M "A"

## PROJECT LIMITS

CORNER#	NORTHING	EASTING
1	1,180,542.22	5,313,800.45
2	1,180,513.22	5,313,647.74
3	1,180,537.04	5,313,612.77
4	1,180,689.75	5,313,583.77

## PROJECT LIMITS

CORNER#	NORTHING	EASTING
5	1,181,595.52	5,314,200.49
6	1,181,521.67	5,314,308.97
7	1,180,615.89	5,313,692.25

## VOLUME COMPUTATIONS

AVAILABLE TO PROJECT DEPTH (-18.0)	0 CU. YD.
AVAILABLE TO PROJECT DEPTH (-20.0)	0 CU. YD.
AVAILABLE TO MAX PAY DEPTH (-18.5)	0 CU. YD.
AVAILABLE TO MAX PAY DEPTH (-20.5)	0 CU. YD.
TOTAL AVAILABLE	0 CU. YD.



THIS HYDROGRAPHIC SURVEY WAS COMPLETED  
UNDER THE OVERSIGHT OF AN ACSM/THOSOA  
CERTIFIED HYDROGRAPHER

David R. Neff C.H. (275)



