

2004 FIELD and FINAL TIDE NOTE
Hydrographic Sheet: H11249
Sheet B
North Point Shoal to Knik Arm
Cook Inlet, Alaska

NOAA Project No:		OPR-P385-KR-04 Cook Inlet, Alaska			
NOAA Contract No:		50-DGNC-C-90003			
The NOS Anchorage, AK tide station (945-5920) and Nikiski (956-5760) served as control for the subordinate stations on this project. Datum determinations were made for the tertiary subordinate stations: Fire Island (945-5912). The NTDE 1983-2001 was utilized.					
Location and Time Meridian	Name:	Lat (NAD83)	Long(NAD83)	Time Meridian:	
	Fire Island	N 61° 10' 20.8"	W 150° 12' 19.3"	0° (UTC)	
Time Period and Datum Reference	Name:	Established:	Removed:	MLLW	MHW
	Fire Island	6/11/2004	11/6/2004	1.122 M	9.159
Tide Observer	Terra Surveys, LLC 1930 South Whiting Circle Palmer, Alaska 99645 (907) 745-7215				
Gauges	Design Analysis Ass. H350XL/355 bubbler systems.				
Install Type	Each gauge was secured inside a waterproof case, and fastened vertically to a wooden brace above the high water line. A weather port covered the gauges.				
Tide Staff	No tide staff was installed. Levelling was performed from a tidal bench mark to the water surface. The water height was read using a metric rod with a stilling well attached to remove interference from waves.				
Bench Marks	The following bench marks were installed at these sites: none				
	The following bench marks were recovered at these sites: Fire Island:13,N,C,D,E,Rife,12				
Levels	Bench marks were levelled at the installation and removal of the tidal stations. The bench marks and station datums were connected through frequent water level measurements. The level runs closed within NOS tolerance.				
Final Tidal Zoning	This survey was tide corrected using a combination of a dual gauge distance weighted interpolation and standard zoning(developed by John Oswald and Associates in 2001).				
Reduction of Hydrographic Data	Six minute tide data reduced to MLLW and applied with verified Anchorage (945-5920) tides after the final extraction from CARIS.				

Abstract of Times of Hydrography for Smooth Tides

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Inclusive Dates: June 13, – Oct. 28, 2004

START		END	
Day (Julian)	Time (UTC)	Day (Julian)	Time (UTC)
159	22:25	159	23:03
160	18:47	161	02:19
162	00:21	162	02:07
162	17:07	163	01:23
163	16:09	164	01:39
164	17:27	165	00:32
165	19:15	166	01:11
166	15:56	167	01:42
167	15:56	168	01:49
207	23:53	208	02:16
227	01:06	227	01:50
240	20:15	240	20:20
262	20:43	263	02:49
263	20:10	264	02:45
266	18:41	267	01:44
274	18:37	275	02:46
281	20:02	282	02:08
282	17:03	283	01:09
284	16:24	285	02:59
285	16:05	286	02:51
286	16:50	287	02:44
287	16:44	288	01:11
289	22:36	290	02:53
290	22:25	291	02:19
291	17:51	292	00:47

