Table 5.1(b) Inlet Cross-Sectional Areas - Existing Versus Three Channel Depths with Maximum Channel Bottom Width of 500 feet

13.5 ft NGVD Channel (Dredge Volume = 1,009,500 cubic yards)

Station	Existing x-Sect Area (ft^2)	x-Area with 13.5-ft NGVD Channel (ft^2)	x-Area Difference (ft^2)	Possible Shoal Area (ft^2)	Cross Sec after shoaling (ft^2)	Potential Scour(-)/Shoal(+) Area for New Channel (ft^2)	Potential Scour(-)/Shoal(+) Volume (CY) New Channel
10+00	12,618	14,516	1,898	2,521	11,995	-623	
15+00	13,880	16,222	2,342	2,572	13,650	-230	-7,895
20+00	14,595	16,134	1,539	0	16,134	1,539	12,120
25+00	14,148	15,806	1,658	1,545	14,261	113	15,292
30+00	12,130	16,974	4,844	4,095	12,879	749	7,975
35+00	11,023	18,561	7,538	9,665	8,896	-2,128	-12,766
40+00	11,315	18,376	7,061	9,285	9,091	-2,224	-40,292
45+00	16,135	23,161	7,026	11,485	11,676	-4,459	-61,877
50+00	16,280	22,821	6,541	10,290	12,531	-3,749	-75,998
55+00	28,350	34,761	6,411	13,795	20,966	-7,384	-103,081
60+00	35,735	38,222	2,487	5,520	32,702	-3,034	-96,456
65+00	46,720	49,195	2,475	5,705	43,490	-3,230	-57,995
70+00	54,200	54,754	554	2,210	52,544	-1,656	-45,237
Ave/Totals							
10+00 to 40+00	**12,816**	**16,655**			**12,415**		**-25,566**
40+00 to 70+00	32,903	37,152			28,985		-440,645
10+00 to 70+00	22,087	26,116			20,063		-466,211
10+00 to 50+00	13,569	18,063			12,346		

15.5 ft NGVD Channel (Dredge Volume = 1,196,600 cubic yards)

Station	Existing x-Sect Area (ft^2)	x-Area with 15.5-ft NGVD Channel (ft^2)	x-Area Difference (ft^2)	Possible Shoal Area (ft^2)	Cross Sec after shoaling (ft^2)	Potential Scour(-)/Shoal(+) Area for New Channel (ft^2)	Potential Scour(-)/Shoal(+) Volume (CY) New Channel
10+00	12,618	15,034	2,416	2,521	12,513	-105	
15+00	13,880	16,758	2,878	2,572	14,186	306	1,862
20+00	14,595	16,609	2,014	0	16,609	2,014	21,487
25+00	14,148	16,292	2,144	1,545	14,747	599	24,197
30+00	12,130	17,894	5,764	4,095	13,799	1,669	20,997
35+00	11,023	19,842	8,819	9,665	10,177	-847	7,613
40+00	11,315	19,647	8,332	9,285	10,362	-953	-16,663
45+00	16,135	24,433	8,298	11,485	12,948	-3,187	-38,336
50+00	16,280	24,068	7,788	10,290	13,778	-2,502	-52,674
55+00	28,350	36,011	7,661	13,795	22,216	-6,134	-79,958
60+00	35,735	38,826	3,091	5,520	33,306	-2,429	-79,288
65+00	46,720	48,251	1,531	5,705	42,546	-4,174	-61,146
70+00	54,200	55,232	1,032	2,210	53,022	-1,178	-49,560
Ave/Totals							
10+00 to 40+00	**12,816**	**17,439**			**13,199**		**59,493**
40+00 to 70+00	32,903	37,803			29,636		-360,962
10+00 to 70+00	22,087	26,838			20,785		-301,469
10+00 to 50+00	13,569	18,953			13,235		

17.5 ft NGVD Channel (Dredge Volume = 1,421,300 cubic yards)

Station	Existing x-Sect Area (ft^2)	x-Area with 17.5-ft NGVD Channel (ft^2)	x-Area Difference (ft^2)	Possible Shoal Area (ft^2)	Cross Sec after shoaling (ft^2)	Potential Scour(-)/Shoal(+) Area for New Channel (ft^2)	Potential Scour(-)/Shoal(+) Volume (CY) New Channel
10+00	12,618	15,584	2,966	2,521	13,063	445	
15+00	13,880	17,329	3,449	2,572	14,757	877	12,242
20+00	14,595	17,114	2,519	0	17,114	2,519	31,447
25+00	14,148	16,827	2,679	1,545	15,282	1,134	33,826
30+00	12,130	18,854	6,724	4,095	14,759	2,629	34,844
35+00	11,023	21,163	10,140	9,665	11,498	475	28,734
40+00	11,315	20,959	9,644	9,285	11,674	359	7,715
45+00	16,135	25,736	9,601	11,485	14,251	-1,884	-14,119
50+00	16,280	25,373	9,093	10,290	15,083	-1,197	-28,527
55+00	28,350	37,301	8,951	13,795	23,506	-4,844	-55,936
60+00	35,735	39,469	3,734	5,520	33,949	-1,786	-61,389
65+00	46,720	48,807	2,087	5,705	43,102	-3,618	-50,038
70+00	54,200	55,749	1,549	2,210	53,539	-661	-39,616
Ave/Totals							
10+00 to 40+00	**12,816**	**18,261**			**14,021**		**148,808**
40+00 to 70+00	32,903	38,739			30,572		-249,625
10+00 to 70+00	22,087	27,713			21,660		-100,817
10+00 to 50+00	13,569	19,882			14,165		