APPENDIX B
COMPARISON OF HABITAT IMPACT DETAILS

PEYTON SLOUGH
MARTINEZ, CALIFORNIA

Item	Quantities	Units	Dredge & Cap (3.5 Feet)		Dredge & Cap (6.5 Feet)		New Alignment		Partial Alignment	
1	**Volume and Surface Areas - Dredged or Excavated**									
1a		Cubic Yards	31,800	North Section: Existing Slough is dredged to 5 feet below bottom of Existing Slough.	34,500	North Section: Existing Slough is dredged to 5 feet below bottom of Existing Slough.	8,100	Northern Section: New Alignment from tide gate to Connection to small slough	27,300	Northern Section (X1): Assumes contaminated sediments are removed to 5 feet below bottom of Existing Slough.
1b		Acres	4.63	Surface Area Dredged	5.97	Surface Area Dredged	1.21		3.98	Surface Area Dredged (X1)
1a		Cubic Yards					1,000	Widening of small slough	0	Northern Section (X2): An engineered cap will be placed on this section. No sediment will be dredged.
1b		Acres					0.63			Surface Area (X2)
1a		Cubic Yards							1,000	Northern Section (X3): This area will be widened only.
1b		Acres							0.60	Surface Area (X3)
1a		Cubic Yards							360	Northern Section (X4): This is the new alignment located north of the levee.
1b		Acres							0.06	Surface Area (X4)
1a		Cubic Yards	42,600	Southern Section: Existing Slough from tide gate to 100 ft north of railroad tracks will be dredged to 8 ft below the existing sediments.	46,300	Southern Section: Existing Slough from tide gate to 100 ft north of railroad tracks will be dredged to 8 ft below the existing sediments.	8,600	Southern Section: New Alignment from tide gate to 100 ft north of railroad tracks	7,300	Southern Section (X5): This is the new alignment located to the south of the levee.
1b		Acres	6.21	Surface Area Dredged	8.00	Surface Area Dredged	1.29		1.29	Surface Area (X5)
1a	**Total Material to be dredged (in-situ)**	**Cubic Yards**	**74,400**	**Alt 3**	**80,800**	**Alt 3**	**17,700**	**Alt 1**	**36,000**	**Alt 2**
1b	**Total Surface Area to be dredged**	**Acres**	**10.8**		**14.0**		**3.1**		**5.9**	
2	**Temporary Roads and Bridges**									
	Temporary Access Roads									
2a	North Section	Acres	3.07	Does not include accress road to be built on levee.	3.07	Does not include accress road to be built on levee.	2.69	Does not include accress road to be built on new alignment or levee.	3.60	Does not include accress road to be built on new partial alignment or levee.
	South Section	Acres	2.48		2.48		2.07		2.48	
	Total Temporary Roads	**Acres**	**5.6**	**Alt 3**	**5.6**	**Alt 3**	**4.8**	**Alt 1**	**6.1**	**Alt 2**
	Temporary Trestle Bridges									
2b	North Section	Acres	0.07		0.07		0.07		0	
	South Section	Acres	0.14		0.14		0.28		0.38	
	Total Temporary Bridges	**Acres**	**0.2**	**Alt 3**	**0.2**	**Alt 3**	**0.3**	**Alt 1**	**0.4**	**Alt 2**

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Item	Quantities	Units	Dredge & Cap (3.5 Feet)		Dredge & Cap (6.5 Feet)		New Alignment		Partial Alignment	
3	**Fill Volume (in-situ) and Surface Area**									
3a		Cubic Yards	26,200	North Section: Existing Slough from tide gate to Carquinez Strait (Engineered cap (3.5-ft thick) placed from bottom of dredged section.)	32,400	North Section: Existing Slough from tide gate to Carquinez Strait (Engineered cap (6-ft thick) placed from bottom of dredged section.)	11,141	North Section: Existing Slough from tide gate to Carquinez Strait (Engineered cap placed from bottom of Slough to 0.7 ft. msl [MHT])	15,300	Northern Section (X1): Assumes 3-ft thick engineered cap placed on dredged section.
3b		Acres	3.07	Surface Area of Capped Section	3.30	Surface Area of Capped Section	1.51	Surface area of north section (to 0.7 ft. msl)	3.04	Surface area of X1
3a		Cubic Yards					1,273	North Section Levee Fill: Additional fill will be placed above the cap (at 0.7 ft msl) to levee elevation (approx. 7 to 9 ft msl)	2,223	Northern Section (X2): An engineered cap will be placed on this section to 0.7 ft NGVD plus fill to grade at levee elevation.
3b		Acres					0.20	Surface area of north section levee fill	0.27	Surface area of X2
3a		Cubic Yards					14,933	South Section: Existing Slough from tide gate to 100 ft north of railroad. (Engineered cap placed from bottom of Slough to 0.7 ft msl [MHT].)		Southern Sections (X3, X$ and X5): No cap is placed.
3b		Acres					4.64	Surface Area of south section	0	
3a		Cubic Yards	23,900	South Section: Existing Slough from tide gate to Carquinez Strait (Engineered cap (8-ft thick) placed from bottom of dredged section.)	41,600	South Section: Existing Slough from tide gate to Carquinez Strait (Engineered cap (8-ft thick) placed from bottom of dredged section.)	4,184	South Section Levee Fill: Additional fill will be placed above the cap (at 0.7 ft msl) to levee elevation (approx. 7 ft msl).	17,800	Southern Section (X6): An engineered cap is placed on the South Section of the Existing Slough to 0.7 ft msl [MHT].
3b		Acres	4.73	Surface Area of Capped Section	4.73	Surface Area of Capped Section	0.99	Surface Area of south section levee fill	4.64	Surface area of X6
3a	**Total Volume of Material (Engineered Cap)**	**Cubic Yards**	**50,100**	**Alt 3**	**74,000**	**Alt 3**	**31,500**	**Alt 1**	**35,300**	**Alt 2**
3b	**Total Surface Area to be Capped / Filled**	**Acres**	**7.8**		**8.0**		**7.3**		**7.9**	

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