

The vessel data contained in this appendix was provided by the WSF Vessel Engineering Department and is current as of December 2015.

APPENDIX O: VESSEL DATA FOR TERMINAL DESIGN

VESSEL CLASS	VESSEL NAME	UNITS	JUMBO MARK II				JUMBO			SUPER				ISSAQUAH			
			TACOMA	WENATCHEE	PUYALLUP	SPOKANE	WALLA WALLA	HYAK	KALEETAN	YAKIMA	ELWHA	ISSAQUAH	KITSAP	KITTITAS	CATHLAMET		
PRINCIPAL DIMENSIONS																	
LENGTH		FEET	460.17	460.17	460.17	440.00	440.00	440.00		382.17	382.17	382.17	382.50	382.50	382.50	382.50	
BREADTH		FEET	90.00	90.00	90.00	87.00	87.00	87.00		73.17	73.17	73.17	78.67	78.67	78.67	78.67	
DEPTH		FEET	25.25	25.25	25.25	24.75	24.75	24.75		24.25	24.25	24.25	23.00	23.00	23.00	23.00	
VEHICLE-TO-PASSENGER DECK DISTANCE		FEET	20.00	20.00	20.00	20.00	20.00	20.00		17.00	17.00	17.00	18.75	18.75	18.75	18.75	
TUNNEL VERTICAL CLEARANCE		FEET	15.50	15.33	15.50	15.69	15.50	15.50		15.50	14.42	15.50	15.67	15.50	15.50	15.50	
OPERATIONAL VESSEL																	
DISPLACEMENT		LONG TONS	5254	5254	5254	4312	4312	4312		3251	3251	3251	2947	2947	2947	2947	
PASSENGER DECK FREEBOARD		FEET	28.25	28.25	28.25	27.75	27.75	27.75		24.25	24.25	24.25	26.25	26.25	26.25	26.25	
VEHICLE DECK FREEBOARD		FEET	8.25	8.25	8.25	7.75	7.75	7.75		7.25	7.25	7.25	7.50	7.50	7.50	7.50	
DRAFT		FEET	17.00	17.00	17.00	17.00	17.00	17.00		17.00	17.00	17.00	15.50	15.50	15.50	15.50	
LAY-UP VESSEL																	
DISPLACEMENT		LONG TONS	4946	4968	4938	4014	4019	4019		3016	3038	2980	2735	2735	2735	2735	
PASSENGER DECK FREEBOARD		FEET	28.77	28.68	28.79	28.33	28.32	28.32		24.39	24.33	24.47	26.87	26.82	26.87	26.87	
VEHICLE DECK FREEBOARD		FEET	8.77	8.68	8.79	8.33	8.32	8.32		7.39	7.33	7.47	8.12	8.12	8.12	8.12	
DRAFT		FEET	16.48	16.57	16.46	16.42	16.43	16.43		16.86	16.92	16.78	14.88	14.88	14.93	14.88	
WINDAGES																	
VESSEL WINDAGE FROM FRONT		SQUARE FEET	4805	4788	4806	3932	3932	3932		3582	3579	3587	3436	3436	3433	3436	
VESSEL WINDAGE FROM SIDE		SQUARE FEET	21160	21120	21170	15060	15075	15075		15673	15650	15703	12902	12902	12886	12902	
CAPACITIES																	
VEHICLE CAPACITY		VEHICLES	202	202	202	188	188	188		144	144	144	124	124	124	124	
PASSENGER CAPACITY		PASSENGERS	2499	2499	2499	2000	2000	2000		2000	1868	2000	1200	1200	1200	1200	
MECHANICAL																	
WATER TANK CAPACITY		GALLONS	21460	21460	18270	24038	24038	24038		9200	9200	9100	14476	14476	14476	14476	
NUMBER OF SEWAGE PUMPS			4	4	4	4	4	4		2	2	2	2	2	2	2	
SEWAGE TANK CAPACITY		GALLONS	21460	21460	21460	27222	27222	27222		10596	10596	10596	14476	14476	14476	14476	
SEWAGE DISCHARGE RATE		GPM	500	500	500	500	500	500		400	400	400	400	400	400	400	

NOTES:
 DISPLACEMENT VALUES ARE IN LONG TONS
 SALT WATER (LTSW) EXCEPT SANPOIL
 FERRY DISPLACEMENT IS IN LONG TONS
 FRESH WATER (LTFW)

THE CHIMACUM VESSEL IS UNDER
 CONSTRUCTION. DATA ARE PRELIMINARY.

APPENDIX O: VESSEL DATA FOR TERMINAL DESIGN

VESSEL CLASS	VESSEL NAME	UNITS	ISSAQUAH (SOLAS)		OLYMPIC			EVERGREEN STATE			KWA-DI TABIL				
			ISSAQUAH	SEALTH	CHELAN	TOKITAE	SAMISH	CHIMACUM (SEE NOTE)	EVERGREEN STATE	KLAWOWYA	TILLIKUM	CHETZEMOKA	SALISH	KENNEWICK	HIYU
PRINCIPAL DIMENSIONS															
LENGTH	382.50	FEET	382.50	382.50	382.25	362.25	362.25	310.17	310.17	310.17	273.75	273.75	273.75	273.75	116.00
BREADTH	78.67	FEET	78.67	78.67	83.17	83.17	83.17	73.17	73.17	73.17	64.08	64.08	64.08	64.08	45.87
DEPTH	23.00	FEET	23.00	23.00	24.50	24.50	24.50	23.25	23.25	23.25	17.58	17.58	17.58	17.50	11.50
VEHICLE-TO-PASSENGER DECK DISTANCE	18.75	FEET	18.75	18.75	18.50	18.50	18.50	16.92	16.92	16.92	19.00	19.00	19.00	9.00	N/A
TUNNEL VERTICAL CLEARANCE	15.17	FEET	15.17	15.67	16.00	16.00	16.00	13.58	13.58	13.50	16.00	16.00	16.00	15.00	15.50
OPERATIONAL VESSEL															
DISPLACEMENT	2947	LONG TONS	2947	2947	4333	4333	4333	2276	2276	2276	2075	2075	2075	534	202
PASSENGER DECK FREEBOARD	26.25	FEET	26.25	26.00	26.55	26.55	26.55	24.42	24.42	23.00	25.58	25.58	25.58	15.50	N/A
VEHICLE DECK FREEBOARD	7.50	FEET	7.50	7.25	8.05	8.05	8.05	7.50	7.50	7.50	6.58	6.58	6.58	6.50	4.50
DRAFT	15.50	FEET	15.50	15.75	16.45	16.45	16.45	15.75	15.75	15.75	11.00	11.00	11.00	10.50	7.00
LAY-UP VESSEL															
DISPLACEMENT	2866	LONG TONS	2866	2866	3866	3866	3866	1962	1962	2099	1630	1630	1639	483	127
PASSENGER DECK FREEBOARD	26.99	FEET	26.99	26.48	27.63	27.63	27.63	25.53	25.53	23.62	27.15	27.15	27.11	15.99	N/A
VEHICLE DECK FREEBOARD	8.24	FEET	8.24	7.73	9.03	9.03	9.03	8.61	8.61	8.12	8.37	8.37	8.11	6.89	6.08
DRAFT	14.76	FEET	14.76	15.27	15.47	15.47	15.47	14.64	14.64	15.13	9.44	9.44	9.47	10.01	5.42
WINDAGES															
VESSEL WINDAGE FROM FRONT	3444	SQUARE FEET	3444	3413	4128	4128	4128	2966	2966	2969	3397	3397	3397	1681	1136
VESSEL WINDAGE FROM SIDE	12941	SQUARE FEET	12941	12777	16534	16534	16534	10405	10405	10262	10762	10762	10755	3223	1621
CAPACITIES															
VEHICLE CAPACITY	90	VEHICLES	90	124	144	144	144	87	87	87	64	64	64	34	20
PASSENGER CAPACITY	1200	PASSENGERS	1200	1200/1076 SOLAS	1500	1500	1500	854	854	792	748	748	750	199	149
MECHANICAL															
WATER TANK CAPACITY	14476	GALLONS	14476	14476	16206	16206	16206	12388	12388	12327	6064	6064	6064	420	N/A
NUMBER OF SEWAGE PUMPS	2		2	2	2	2	2	2	2	2	2	2	2	2	1
SEWAGE TANK CAPACITY	14476	GALLONS	14476	14160	17060	17060	17060	10000	10000	10022	8182	8182	8182	1052	304
SEWAGE DISCHARGE RATE	400	GPM	400	400	500	500	500	400	400	400	175	175	175	75	100

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