Appendix B. Table B-1. Summary Table of 72 Wetlands Impacted by Pipeline Construction[a]

Wetland No.	Approx. Size (acre)	Wetland Category	Impact Area by Vegetation Class (acre)					Common Plant Species in Construction Corridor	Federal Lands
			PFO	PSS	PEM	OW	Total		
Total	635		0.54	9.46	4.93	0.61	15.54	RUSP, Salix, TYLA, PHAR	
Snohomish County									
CountyTotal	147		0.03	2.87	1.31	0.05	4.26		
270522A	10	I	0	0	0.21	0	0.21	RUSP, TYLA, PHAR, Salix	
270522D	6	II	0	0.72	0	0	0.72	PHAR, TYLA, JUEF	
270523	14	I	0	0.65	0	0	0.65	SPDO, Salix, RUSP	
270523A	6	I	0	0.15	0	0	0.15		
270524B	5	II	0	0	0.11	0	0.11	PLLA, AGAL	
270619A	1	III	0	0.02	0	0	0.02	RARE, EPAN, RUSP, ACCI	
270619C	3	I	0	0.10	0	0	0.10		
270619B	45	I	0	0.65	0	0	0.65	PHAR, RUSP, Salix	
270620E	5	I	0	0.11	0.04	0	0.15	JUEF, PHAR, AGAL, RUSP, ALRU, SPDO	
270628	20	I	0	0.26	0.17	0	0.43	PHAR, RUSP, SPDO, POTR	
270621A	6	I	0	0	0.10	0	0.10	LYAM	
270621C	1	I	0	0.09	0	0	0.09	SPDO, RUSP, SALA	
270621B	4	I	0	0	0	0.02	0.02		
270627	2	III	0	0	0.14	0	0.14	TYLA, JUEF	
270626B	0.4	III	0	0	0.03	0	0.03	JUEF, RARE	
270626C	0.3	III	0	0.3	0	0	0.3	POTR, JUEF, RARE	
270625B	1	IV	0	0.03	0	0	0.03	ALRU, PHAR	
270730	3	II	0	0.26	0	0	0.26	RUSP, ALRU, SALA	
270720	1	I	0	0.03	0	0	0.03	RUSP, POTR, ALRU	
270729	3	I	0.03	0	0	0	0.03	ALRU, THPL, RUSP, POTR, SCMI	

Wetland No.	Approx. Size (acre)	Wetland Category	Impact Area by Vegetation Class (acre)					Common Plant Species in Construction Corridor	Federal Lands
			PFO	PSS	PEM	OW	Total		
270732B	9	I	0.28	0	0	0	0.28	RUPA, SPDO, TYLA, PHAR	
King County									
County Total	132		0.51	4.44	0.09	0.03	5.07		
260709	26	I	0	0.52	0.09	0	0.61	PHAR, JUEF, ACCI, RUPA, SPDO	
260716	7	I	0	0.18	0	0	0.18	Salix, PHAR	
260717	5	I	0	0.28	0	0	0.28	RUSP, SPDO, TYLA, PHAR	
260727A	11	I	0	0.34	0	0	0.34	RUSP, ALRU, SPDO, PHAR	
260734	6	I	0	0.05	0	0	0.05	RUSP, SPDO, TYLA, PHAR, POTR	
260735	12	I	0	0.46	0	0	0.46	RUSP, SPDO, TYLA, PHAR, ALRU	
250702C	1	II	0	0.12	0	0	0.12	RUSP, SPDO, POTR, ALRU	
250702B	1	III	0	0.15	0	0	0.15	ALRU, THPL, SPDO, PHAR, SCMI,	
250702A	6	III	0	0.34	0	0	0.34	RUSP, SPDO, ALRU, SCMI, JUEF, POTR	
250714	9	I	0.17	0.05	0.03	0	0.25	THPL, ALRU, POTR	
250725C	1	III	0	0.14	0	0	0.14	RUPA, SPDO, TYLA, ALRU, ACCI, Salix	
250725D	2	II	0	0.34	0	0	0.34	RUPA, SPDO, TYLA, ALRU, POTR, ALRU, SCMI	
250725E	3	II	0	0.53	0	0	0.53	RUPA, SPDO, TYLA, POTR, ALRU, SCMI	
250736	6	II	0	0.15	0	0	0.15	POTR, ALRU, JUEF	
250736A	2	III	0	0.20	0	0	0.20	RUPA, SPDO, TYLA, POTR, JUEF	
240806	20	I	0.15	0	0	0	0.15	POTR, PSME, PISI, RUSP	
240807	8	I	0.19	0	0	0	0.19	POTR, PISI, PSME, RUSP, SPDO	
221013	6	II	0	0.59	0	0	0.59	POTR, ALRU, RUSP, THPL, Salix	USFS
Kittitas County									
County Total	228		0	1.44	1.96	0.02	3.42		
201309	24	I	0	0.07	0	0	0.07	ALRU, EQAR, SCMI	

Wetland No.	Approx. Size (acre)	Wetland Category	Impact Area by Vegetation Class (acre)					Common Plant Species in Construction Corridor	Federal Lands
			PFO	PSS	PEM	OW	Total		
191403	1	III	0	0	0.08	0	0.08	TYLA, SCMI	
191401A	112	II	0	0.81	0.73	0	1.54	PHAR, SCMI, ALSI	
191504	3	II	0	0	0.29	0	0.29	POPR, JUEF	
191608	1	III	0	0	0.08	0	0.08	TYLA, SCAC	
191611A	1	III	0	0	0.08	0	0.08	EQAR, POPR, RUCR	
191611B	3	II	0	0	0.02	0	0.02	EQAR, POPR, TYLA	
191723	3	II	0	0.05	0	0	0.05	POTR, EPAN, Salix	
191821A	15	II	0	0.09	0.32	0.01	0.42	JUEF, TRPR, PHAR, SAEX, CRDO	
191835	23	II	0	0.24	0.09	0	0.33	JUEF, SCMI SAEX	
181918	13	II	0	0.02	0	0	0.02	SAEX	
181919	15	II	0	0	0.23	0	0.23	JUEF	
171904	3	II	0	0.04	0	0	0.04	SAEX	
172008A	1	III	0	0.04	0	0	0.04	JUEF, PHAR, POTR	
172008B	1	II	0	0	0	0.01	0.01	PHAR, SAEX	
172016	4	II	0	0	0.04	0	0.04	JUEF, Carex	
172023[b]	2	III	0	0.02	0	0	0.02	SAEX, POTR, TYLA, PHAR	
162318[b]	3	II	0	0.06	0	0	0.06	SAEX, POTR, PHLE	DOD
Grant County									
County Total	65.5		0	0	1.20	0.27	1.47		
162419	6	II	0	0	0.14	0	0.14	TYLA, SCAC, DIST, ELAN	BOR
162417[b]	6	II	0	0	0.07	0	0.07	TYLA, DIST, ELAN	
162416	2	II	0	0	0.17	0	0.17	TYLA, DIST	
162415	2	II	0	0	0.03	0	0.03	TYLA, DIST, ELAN	BOR
162413	4	II	0	0	0.03	0	0.03	TYLA, SCAC, JUEF	

Wetland No.	Approx. Size (acre)	Wetland Category	Impact Area by Vegetation Class (acre)					Common Plant Species in Construction Corridor	Federal Lands
			PFO	PSS	PEM	OW	Total		
162412	5	III	0	0	0.07	0	0.07	PHAR, TYLA, HOJU	
162414	0.5	III	0	0	0.14	0	0.14	DIST	BOR
162735A	3	I	0	0	0.17	0	0.17	TYLA	
172537B	32	I	0	0	0.38	0.03	0.41	TYLA, SCOL	
162736	5	I	0	0	0	0.24	0.24	DIST	
Adams County									
County Total	4		0	0	0.07	0.21	0.28		
152806A	1	I	0	0	0.07	0	0.07	DIST	
152806B	3	III	0	0	0	0.21	0.21	DIST, SCOL	
Franklin County									
County Total	58		0	0.71	0.30	0.03	1.04		
142812	9	II	0	0.66	0	0	0.66	TYLA, SCAC, SAEX	BOR
132911A	33	II	0	0	0.02	0	0.02	PHAR, DIST, HOLA, ELAN	BOR
132925D	5	III	0	0	0.13	0	0.13	TYLA, SCAC	BOR
132925B	1	III	0	0	0.05	0	0.05	SCAC, ELAN	BOR
112901	5	III	0	0	0.10	0	0.10	PHAR, TYLA	BOR
102924	5	II	0	0.05	0	0.01	0.06	ELAN, TYLA, EPWA	

[a] Six additional wetlands would be impacted by the proposed route as shown in the May 1998 ASC; information to be included in this table was not available at the time the DEIS was printed.

[b] These three wetlands would be avoided by the proposed route as shown in the May 1998 ASC.

Source: Dames & Moore 1997.

Blank: No information on plants provided in Dames & Moore 1997.

Notes: BOR = U.S. Bureau of Reclamation administered federal lands
DOD = U.S. Department of Defense (Yakima Training Center) administered federal lands
USFS = U.S. Forest Service administered federal lands

Common Plant Species Code:
ACCI = vine maple (*Acer circinatum*)
POPR = Kentucky bluegrass (*Poa pratensis*)

Wetland No.	Approx. Size (acre)	Wetland Category	Impact Area by Vegetation Class (acre)					Common Plant Species in Construction Corridor	Federal Lands
			PFO	PSS	PEM	OW	Total		
AGAL = red-top (*Agrostis alba*) ALRU = red alder (*Alnus rubra*) ALSI = Sitka alder (*Alnus sinuata*) CRDO = Douglas' hawthorn (*Crataegus douglasii*) DIST = saltgrass (*Distichlis stricta*) ELAN = Russian olive (*Elaegnus angustifolia*) EPAN = fireweed (*Epilobium angustifolium*) EPWA = Watson's willow-herb (*Epilobium watsonii*) EQAR = common horsetail (*Equisetum arvense*) HOLA = velvetgrass (*Holcus lanatus*) HOJU = fox-tail barley (*Hordeum jubatum*) PJUEF = soft rush (*Juncus effusus*) LYAM = skunk cabbage (*Lysichitum americanum*) PHAR = reed canarygrass (*Phalaris arundinacea*) PHLE = mockorange (*Philadelphus lewisii*) PLLA = English plantain (*Plantago lanceolata*) Vegetation Class Code: PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent OW = open water and/or riverine								POTR = black cottonwood (*Populus trichocarpa*) PSME = Douglas-fir (*Pseudotsuga menziesii*) RARE = creeping buttercup (*Ranunculus repens*) RUPA = thimbleberry (*Rubus parviflorus*) RUSP = salmonberry (*Rubus spectabilis*) RUCR = curly dock (*Rumex crispus*) SAEX = sandbar willow (*Salix exigua*) SALA = Pacific willow (*Salix lasiandra*) SCAC = hardstem bulrush (*Scirpus acutus*) SCMI = small-fruited bulrush (*Scirpus microcarpus*) SCOL = Olney's bulrush (*Scirpus olneyi*) SPDO = Douglas' spirea (*Spiraea douglasii*) THPL = western red cedar (*Thuja plicata*) TRRE = white clover (*Trifolium repens*) TYLA = common cattail (*Typha latifolia*)	

Appendix B. Table B-2. Hydrogeomorphology and Risk of Hydrologic Change to Wetlands

Wetland Number	Hydrologic Input	Shape	Size	Geology	Soils	Risk of Drainage through Trench	Risk of Drainage through Subsoil	Federal Lands
270522A	GW/SR	S	M	Qgt	McKenna Silt Loam	Yes	No	
270522D	SR/STRM	D	L	Qgo	Alderwood Loam	No	Yes	
270523	GW/SR	D	L	Qgt	Alderwood loam	Yes	No	
270523A	STRM	D	L	Qgt	Alderwood loam	No	No	
270524B	SR	D	L	Qgt	Norma Loam	No	No	
270619A	STRM/SR	O	M	Qgt	Alderwood Loam	No	No	
270619C	SR	D	L	Qgo	Alderwood loam	No	Yes	
270619B	STRM/SR	O	L	Qgo	Alderwood Mukilteo	No	Yes	
270620E	SR	D	L	Qgt	Alderwood Loam	No	No	
270628	SR	D	L	Qgt	Mukilteo	No	No	
270621A	STRM	F	L	Qgt	Alderwood	No	No	
270621C	GW/SR	D	L	Tb	Alderwood	No	No	
270621B	STRM	F	L	Qgt	Alderwood	No	No	
270627	SR	D	M	Qgt	Alderwood	No	No	
270626B	SR	D	M	Qgt	Alderwood-Everett	No	No	
270626C	GW/SR	D	S	Qa	Gravel pit	No	No	
270625B	SR/GW	D	S	Qgo	Puget Loam	No	No	
270730	SR	D	M	Qgt	Tokul Loam	No	No	
270720	STRM/SR	F	M	Tan	Tokul Loam	No	Yes	
270729	STRM/SR	F	L	Tan	Mukilteo Muck	No	Yes	
270732B	SR	D	L	Tan	Tokul Loam	Yes	Yes	
260709	STRM	F	L	Qgo Qa	Kitsap Silt Loam	No	No	
260716	STRM	F	L	Qgt	Alderwood Kitsap	No	No	
260717	STRM/SR	F/D	L	Qgt	Alderwood Loam	No	No	
260727A	STRM	F	L	Qgo	Klaber Silt Loam	No	No	
260734	STRM/SR	D	L	Qgt	Tokul	No	No	
260735	SR	D	L	Qgt	Tokul Loam	No	No	
250702C	SR	D	S	Qgt	Tokul Loam	No	No	
250702B	SR	D	S	Qgt	Tokul Loam	No	No	
250702A	SR	D	M	Qgt	Tokul Loam	No	No	
250714	STRM	F	L	Qa	Riverwash	No	No	
250725C	SR	D	S	Qgt	Tokul	No	No	
250725D	SR	D	M	Qgt	Tokul	No	No	
250725E	SR	D	M	Qgt	Tokul	No	No	
250736	STRM	F	L	Qgo	Barneston Gravelly Sandy Loam	No	No	
250736A	SR/GW	S	L	Qgt	Tokul	Yes	No	

Wetland Number	Hydrologic Input	Shape	Size	Geology	Soils	Risk of Drainage through Trench	Risk of Drainage through Subsoil	Federal Lands
240806	STRM/SR	D	L	Qgt	Tokul Gravelly Loam	No	No	
240807	STRM/SR	D	L	Qgt	Tokul Gravelly Loam	No	No	
221013	GW/SR	S	M	Tg	Kaleetan	Yes	Yes	USFS
201309	STRM	F	L	Qa	Kachess	No	No	
191403	STRM/SR	F	M	Qa	Bertolotti Loam	No	Yes	
191401A	SR	D	L	Qa	Peat	No	No	
191504	STRM	D	M	Qa	Peoh Loam	No	Yes	
191608	STRM	F	M	Qgo	Swauk Loam	No	Yes	
191611A	SR/GW	D	S	Qls	Swauk Loam	No	Yes	
191611B	STRM	F	M	Qls	Swauk Loam	No	Yes	
191723	STRM	F	M	Qa	Weirman complex	No	No	
191821A	SW/STRM	D	L	Qa	Woldale Clay Loam	No	Yes	
191835	STRM/GW	F	L	Qa	Reecer-Sketter-Weirman complex	No	Yes	
181918	STRM	F	L	Tal	Wenas Loam	No	Yes	
181919	SR	D	L	Qa	Wenas Loam	No	Yes	
171904	STRM	F	L	Qa	Nanum Loam	No	No	
172008A	STRM	F	M	Qa	Terlan-Durtash-Selah complex	No	No	
172008B	STRM	F	M	Qa	Kittitas Silt Loam	No	No	
172016	STRM	F	L	Tb	Rollinger silt loam	No	No	
172023	STRM	F	M	Tb	Benwy silt loam	No	No	
162318	STRM	F	L	Qa	No data	No	No	DOD
162419	STRM/SR	F	L	Tb	Wanser-Quincy	No	No	BOR
162417	STRM/SR	F	L	Tre	Aquents ponded	No	Yes	
162416	SR	D	M	Tre	Wanser-Quincy	No	Yes	
162415	STRM	F	L	Tb	Wanser-Quincy Sand	No	No	BOR
162413	STRM	F	L	Tre	Kennewick Loam	No	Yes	
162412	SR/STRM	D	L	Qre	Kennewick Loam	No	Yes	
162614	GW/SR	D	S	Tb	Starbuck-Prosser	No	No	BOR
162735A	SR	D	L	Tb	Winchester sand	No	No	
162735B	STRM/SR	F	L	Qa	Aquents, ponded	No	No	
162736	SR/GW	D	L	Qa	Umapine silt loam	No	Yes	
152806A	SR/GW	D	L	Qfg	Red rock	No	Yes	
152806B	SR/GW	D	L	Qfg	Red rock	No	Yes	
142812	STRM/SR	D/F	L	Qs	Quincy-Hezel-Warden	No	Yes	BOR
132911A	STRM	F	L	Tb	Quincy-Quinton	No	No	BOR
132925D	SR	D	M	Tb	Starbuck-Prosser	No	No	BOR
132925B	SR/GW	D	S	Qs	Prosser-Starbuck	No	Yes	BOR
112901	SR	D	M	Trl	Quincy & Sagehill Loam	No	No	BOR

Wetland Number	Hydrologic Input	Shape	Size	Geology	Soils	Risk of Drainage through Trench	Risk of Drainage through Subsoil	Federal Lands
102924	STRM	F	L	Qa	Quincy Loam	No	No	

Hydrologic Input Codes
- STRM - Surface connection to stream, river or lake
- GW - Groundwater discharge
- SR - Surface runoff

Shape Codes
- D - Surface depressional
- F - Floodplain
- S - Slope
- O - Other

Size Codes
- S - Small (< .5 acre)
- M - Medium (.5 to 2 acres)
- L - Large (> 2 acres)

Geology Codes:
- Qa - Quaternary alluvium
- Qfg - Quaternary fluvial gravels
- Qgo - Quaternary glacial outwash
- Qgt - Quaternary glacial till
- Qls - Quaternary landslide deposits
- Qs - Quaternary fluvial and lacustrine sand
- Tal - Tertiary alluvium
- Tan - Tertiary andesite
- Tb - Tertiary basalt
- Tg - Tertiary granites
- Tre - Tertiary Ringold formation eolian silt and sand
- Trl - Tertiary Ringold formation lacustrine clay, silt, and fine sand

Notes: BOR = U.S. Bureau of Reclamation administered federal lands
DOD = U.S. Department of Defense (Yakima Training Center) administered federal lands
USFS = U.S. Forest Service administered federal lands

Information for six additional wetlands impacted by the proposed route as shown in the May 1998 ASC was not available at time of printing of DEIS.