APPENDIX E

SOIL MAP UNITS CROSSED BY MILEPOST

APPENDIX E

SOIL MAP UNITS BY MILEPOST SEGMENT ALONG THE PROPOSED PIPELINE ROUTE

Beginning MP	Ending MP	Crossing Length (miles)	Map Unit Symbol	Map Unit Name
Clatsop County				
0	0.03	0.03	69	Udipsamments, 0 to 15 percent slopes
0.03	0.06	0.03	22F	Harslow-Kilchis very gravelly loam, 60 to 90 percent slopes
0.06	0.43	0.37	7D	Braun-Scaponia silt loam, 3 to 30 percent slopes
0.43	0.56	0.13	57E	Scaponia-Braun silt loam, 30 to 60 percent slopes
0.56	0.89	0.33	7D	Braun-Scaponia silt loam, 3 to 30 percent slopes
0.89	1.21	0.32	22F	Harslow-Kilchis very gravelly loam, 60 to 90 percent slopes
1.21	1.55	0.34	1E	Alstony gravelly loam, 30 to 60 percent slopes
1.55	3.39	1.84	1D	Alstony gravelly loam, 3 to 30 percent slopes
3.39	3.52	0.13	39A	Locoda silt loam, 0 to 3 percent slopes
3.52	3.62	0.10	1D	Alstony gravelly loam, 3 to 30 percent slopes
3.62	4.06	0.44	69	Udipsamments, 0 to 15 percent slopes
4.06	4.19	0.13	39A	Locoda silt loam, 0 to 3 percent slopes
4.19	4.21	0.02	W	Water
4.21	4.3	0.09	39A	Locoda silt loam, 0 to 3 percent slopes
4.3	4.39	0.09	69	Udipsamments, 0 to 15 percent slopes
4.39	4.42	0.03	39A	Locoda silt loam, 0 to 3 percent slopes
4.42	4.47	0.05	69	Udipsamments, 0 to 15 percent slopes
4.47	4.86	0.39	39A	Locoda silt loam, 0 to 3 percent slopes
4.86	4.87	0.01	69	Udipsamments, 0 to 15 percent slopes
4.87	5.19	0.32	39A	Locoda silt loam, 0 to 3 percent slopes
5.19	5.3	0.11	W	Water
5.3	5.96	0.66	39A	Locoda silt loam, 0 to 3 percent slopes
5.96	6.17	0.21	40A	Locoda silt loam, protected, 0 to 3 percent slopes
Columbia County				
6.17	8.48	2.31	29	Locoda silt loam, protected, 0 to 3 percent slopes
8.48	8.53	0.05	66	Wauna silt loam, protected
8.53	10.02	1.49	29	Locoda silt loam, protected, 0 to 3 percent slopes
10.02	10.06	0.04	W	Water
10.06	10.42	0.36	29	Locoda silt loam, protected, 0 to 3 percent slopes
10.42	10.69	0.27	66	Wauna silt loam, protected
10.69	10.9	0.21	68	Wauna-Locoda silt loam, protected
10.9	11.98	1.08	15	Crims silt loam, protected
11.98	12.24	0.26	68	Wauna-Locoda silt loam, protected

SOIL MAP UNITS BY MILEPOST SEGMENT ALONG THE PROPOSED PIPELINE ROUTE

Beginning MP	Ending MP	Crossing Length (miles)	Map Unit Symbol	Map Unit Name
12.24	12.27	0.03	15	Crims silt loam, protected
12.27	12.38	0.11	68	Wauna-Locoda silt loam, protected
12.38	12.39	0.01	15	Crims silt loam, protected
12.39	12.53	0.14	68	Wauna-Locoda silt loam, protected
12.53	12.57	0.04	15	Crims silt loam, protected
12.57	13.08	0.51	68	Wauna-Locoda silt loam, protected
13.08	13.18	0.10	66	Wauna silt loam, protected
13.18	13.24	0.06	67	Wauna-Locoda silt loam
13.24	13.33	0.09	W	Water
13.33	13.38	0.05	66	Wauna silt loam, protected
13.38	13.46	0.08	29	Locoda silt loam, protected, 0 to 3 percent slopes
13.46	13.92	0.46	68	Wauna-Locoda silt loam, protected
13.92	14.01	0.09	15	Crims silt loam, protected
14.01	14.1	0.09	68	Wauna-Locoda silt loam, protected
14.1	14.15	0.05	29	Locoda silt loam, protected, 0 to 3 percent slopes
14.15	14.36	0.21	68	Wauna-Locoda silt loam, protected
14.36	14.56	0.20	66	Wauna silt loam, protected
14.56	14.93	0.37	15	Crims silt loam, protected
14.93	15.19	0.26	66	Wauna silt loam, protected
15.19	15.24	0.05	29	Locoda silt loam, protected, 0 to 3 percent slopes
15.24	15.28	0.04	66	Wauna silt loam, protected
15.28	15.34	0.06	29	Locoda silt loam, protected, 0 to 3 percent slopes
15.34	15.66	0.32	66	Wauna silt loam, protected
15.66	15.7	0.04	68	Wauna-Locoda silt loam, protected
15.7	16.02	0.32	66	Wauna silt loam, protected
16.02	16.83	0.81	68	Wauna-Locoda silt loam, protected
16.83	17.01	0.18	66	Wauna silt loam, protected
17.01	17.43	0.42	68	Wauna-Locoda silt loam, protected
17.43	17.87	0.44	66	Wauna silt loam, protected
17.87	18.15	0.28	29	Locoda silt loam, protected, 0 to 3 percent slopes
18.15	18.25	0.10	66	Wauna silt loam, protected
18.25	18.8	0.55	61	Udipsamments, nearly level, protected
18.8	18.92	0.12	61	Udipsamments, nearly level, protected
18.92	19.04	0.12	60	Udipsamments, nearly level
19.04	19.38	0.34	W	Water

SOIL MAP UNITS BY MILEPOST SEGMENT ALONG THE PROPOSED PIPELINE ROUTE

Beginning MP	Ending MP	Crossing Length (miles)	Map Unit Symbol	Map Unit Name
Cowlitz County				
19.38	19.61	0.23	263	Water
19.61	19.73	0.12	109	Lithic Haplumbrepts, 50 to 100 percent slopes
19.73	19.96	0.23	146	Olympic silt loam, 2 to 8 percent slopes
19.96	20.13	0.17	148	Olympic silt loam, 20 to 30 percent slopes
20.13	20.16	0.03	147	Olympic silt loam, 8 to 20 percent slopes
20.16	20.27	0.11	148	Olympic silt loam, 20 to 30 percent slopes
20.27	20.37	0.10	147	Olympic silt loam, 8 to 20 percent slopes
20.37	20.47	0.10	148	Olympic silt loam, 20 to 30 percent slopes
20.47	20.71	0.24	78	Hazeldell gravelly silt loam, 30 to 65 percent slopes
20.71	20.77	0.06	147	Olympic silt loam, 8 to 20 percent slopes
20.77	20.79	0.02	146	Olympic silt loam, 2 to 8 percent slopes
20.79	20.83	0.04	147	Olympic silt loam, 8 to 20 percent slopes
20.83	20.95	0.12	148	Olympic silt loam, 20 to 30 percent slopes
20.95	20.97	0.02	147	Olympic silt loam, 8 to 20 percent slopes
20.97	21.05	0.08	148	Olympic silt loam, 20 to 30 percent slopes
21.05	21.11	0.06	78	Hazeldell gravelly silt loam, 30 to 65 percent slopes
21.11	21.14	0.03	149	Olympic silt loam, 30 to 65 percent slopes
21.14	21.17	0.03	148	Olympic silt loam, 20 to 30 percent slopes
21.17	21.29	0.12	56	Germany silt loam, 20 to 30 percent slopes
21.29	21.56	0.27	55	Germany silt loam, 8 to 20 percent slopes
21.56	21.57	0.01	56	Germany silt loam, 20 to 30 percent slopes
21.57	21.62	0.05	55	Germany silt loam, 8 to 20 percent slopes
21.62	21.67	0.05	56	Germany silt loam, 20 to 30 percent slopes
21.67	21.78	0.11	55	Germany silt loam, 8 to 20 percent slopes
21.78	22.06	0.28	56	Germany silt loam, 20 to 30 percent slopes
22.06	22.15	0.09	57	Germany silt loam, 30 to 65 percent slopes
22.15	22.26	0.11	148	Olympic silt loam, 20 to 30 percent slopes
22.26	22.32	0.06	149	Olympic silt loam, 30 to 65 percent slopes
22.32	22.37	0.05	148	Olympic silt loam, 20 to 30 percent slopes
22.37	22.53	0.16	47	Edgewick silt loam, 0 to 3 percent slopes
22.53	22.71	0.18	148	Olympic silt loam, 20 to 30 percent slopes
22.71	22.87	0.16	146	Olympic silt loam, 2 to 8 percent slopes
22.87	22.92	0.05	147	Olympic silt loam, 8 to 20 percent slopes
22.92	22.96	0.04	148	Olympic silt loam, 20 to 30 percent slopes
22.96	23.05	0.09	149	Olympic silt loam, 30 to 65 percent slopes

SOIL MAP UNITS BY MILEPOST SEGMENT ALONG THE PROPOSED PIPELINE ROUTE

Beginning MP	Ending MP	Crossing Length (miles)	Map Unit Symbol	Map Unit Name
23.05	23.11	0.06	54	Germany silt loam, 0 to 8 percent slopes
23.11	23.14	0.03	55	Germany silt loam, 8 to 20 percent slopes
23.14	23.15	0.01	56	Germany silt loam, 20 to 30 percent slopes
23.15	23.25	0.10	54	Germany silt loam, 0 to 8 percent slopes
23.25	23.35	0.10	56	Germany silt loam, 20 to 30 percent slopes
23.35	23.48	0.13	55	Germany silt loam, 8 to 20 percent slopes
23.48	23.7	0.22	56	Germany silt loam, 20 to 30 percent slopes
23.7	23.93	0.23	55	Germany silt loam, 8 to 20 percent slopes
23.93	24.26	0.33	54	Germany silt loam, 0 to 8 percent slopes
24.26	24.4	0.14	55	Germany silt loam, 8 to 20 percent slopes
24.4	24.5	0.10	56	Germany silt loam, 20 to 30 percent slopes
24.5	24.59	0.09	55	Germany silt loam, 8 to 20 percent slopes
24.59	24.67	0.08	56	Germany silt loam, 20 to 30 percent slopes
24.67	24.77	0.10	47	Edgewick silt loam, 0 to 3 percent slopes
24.77	25.04	0.27	56	Germany silt loam, 20 to 30 percent slopes
25.04	25.14	0.10	57	Germany silt loam, 30 to 65 percent slopes
25.14	25.33	0.19	56	Germany silt loam, 20 to 30 percent slopes
25.33	25.43	0.10	54	Germany silt loam, 0 to 8 percent slopes
25.43	25.56	0.13	56	Germany silt loam, 20 to 30 percent slopes
25.56	25.78	0.22	54	Germany silt loam, 0 to 8 percent slopes
25.78	26.13	0.35	56	Germany silt loam, 20 to 30 percent slopes
26.13	26.21	0.08	54	Germany silt loam, 0 to 8 percent slopes
26.21	26.28	0.07	56	Germany silt loam, 20 to 30 percent slopes
26.28	26.34	0.06	54	Germany silt loam, 0 to 8 percent slopes
26.34	26.59	0.25	55	Germany silt loam, 8 to 20 percent slopes
26.59	26.63	0.04	56	Germany silt loam, 20 to 30 percent slopes
26.63	26.93	0.30	55	Germany silt loam, 8 to 20 percent slopes
26.93	26.94	0.01	54	Germany silt loam, 0 to 8 percent slopes
26.94	27.7	0.76	148	Olympic silt loam, 20 to 30 percent slopes
27.7	27.73	0.03	147	Olympic silt loam, 8 to 20 percent slopes
27.73	27.88	0.15	142	Olequa silt loam, 0 to 8 percent slopes
27.88	27.92	0.04	147	Olympic silt loam, 8 to 20 percent slopes
27.92	27.95	0.03	32	Clato silt loam, 0 to 3 percent slopes
27.95	28.08	0.13	23	Centralia silt loam, 20 to 30 percent slopes
28.08	28.14	0.06	13	Buckpeak silt loam, 65 to 90 percent slopes
28.14	28.2	0.06	22	Centralia silt loam, 8 to 20 percent slopes

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Beginning MP	Ending MP	Crossing Length (miles)	Map Unit Symbol	Map Unit Name
28.2	28.24	0.04	23	Centralia silt loam, 20 to 30 percent slopes
28.24	28.44	0.20	22	Centralia silt loam, 8 to 20 percent slopes
28.44	28.76	0.32	23	Centralia silt loam, 20 to 30 percent slopes
28.76	28.89	0.13	22	Centralia silt loam, 8 to 20 percent slopes
28.89	29.23	0.34	23	Centralia silt loam, 20 to 30 percent slopes
29.23	29.29	0.06	22	Centralia silt loam, 8 to 20 percent slopes
29.29	29.33	0.04	23	Centralia silt loam, 20 to 30 percent slopes
29.33	29.58	0.25	22	Centralia silt loam, 8 to 20 percent slopes
29.58	30.58	1.00	23	Centralia silt loam, 20 to 30 percent slopes
30.58	30.66	0.08	22	Centralia silt loam, 8 to 20 percent slopes
30.66	31.21	0.55	23	Centralia silt loam, 20 to 30 percent slopes
31.21	31.46	0.25	147	Olympic silt loam, 8 to 20 percent slopes
31.46	31.72	0.26	23	Centralia silt loam, 20 to 30 percent slopes
31.72	31.87	0.15	147	Olympic silt loam, 8 to 20 percent slopes
31.87	32.02	0.15	146	Olympic silt loam, 2 to 8 percent slopes
32.02	32.15	0.13	23	Centralia silt loam, 20 to 30 percent slopes
32.15	32.2	0.05	147	Olympic silt loam, 8 to 20 percent slopes
32.2	32.67	0.47	23	Centralia silt loam, 20 to 30 percent slopes
32.67	32.82	0.15	12	Buckpeak silt loam, 30 to 65 percent slopes
32.82	33.19	0.37	23	Centralia silt loam, 20 to 30 percent slopes
33.19	33.84	0.65	148	Olympic silt loam, 20 to 30 percent slopes
33.84	33.92	0.08	100	Kelso silt loam, 0 to 8 percent slopes
33.92	34.12	0.20	102	Kelso silt loam, 15 to 30 percent slopes
34.12	34.25	0.13	32	Clato silt loam, 0 to 3 percent slopes
34.25	34.27	0.02	172	Riverwash
34.27	34.35	0.08	263	Water
34.35	34.43	0.08	36	Cowlitz extremely gravelly sand, disturbed, 0 to 5 percent slopes
34.43	34.61	0.18	141	Newberg fine sandy loam, 0 to 3 percent slopes
34.61	34.81	0.20	32	Clato silt loam, 0 to 3 percent slopes
34.81	34.87	0.06	19	Carrolls loamy sand, 0 to 2 percent slopes
34.87	34.95	0.08	32	Clato silt loam, 0 to 3 percent slopes
34.95	34.97	0.02	19	Carrolls loamy sand, 0 to 2 percent slopes
34.97	34.98	0.01	32	Clato silt loam, 0 to 3 percent slopes
34.98	35.09	0.11	101	Kelso silt loam, 8 to 15 percent slopes
35.09	35.18	0.09	100	Kelso silt loam, 0 to 8 percent slopes
35.18	35.29	0.11	102	Kelso silt loam, 15 to 30 percent slopes

SOIL MAP UNITS BY MILEPOST SEGMENT ALONG THE PROPOSED PIPELINE ROUTE

Beginning MP	Ending MP	Crossing Length (miles)	Map Unit Symbol	Map Unit Name
35.29	35.36	0.07	100	Kelso silt loam, 0 to 8 percent slopes
35.36	35.38	0.02	102	Kelso silt loam, 15 to 30 percent slopes
35.38	35.41	0.03	100	Kelso silt loam, 0 to 8 percent slopes
35.41	35.42	0.01	102	Kelso silt loam, 15 to 30 percent slopes
35.42	35.47	0.05	186	Sauvola loam, 8 to 15 percent slopes
35.47	35.57	0.10	181	Sara silt loam, 15 to 40 percent slopes
35.57	35.8	0.23	93	Kalama gravelly loam, 8 to 15 percent slopes
35.8	36.08	0.28	181	Sara silt loam, 15 to 40 percent slopes
36.08	36.17	0.09	78	Hazeldell gravelly silt loam, 30 to 65 percent slopes
36.17	36.28	0.11	16	Camas cobbly loam, 0 to 3 percent slopes
36.28	36.29	0.01	174	Rose valley silt loam, 0 to 8 percent slopes