

TABLE D-11

## RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,4- Trimethylbenzene ug/L	1,2-Dibromoethane ug/L	1,2-Dichloroethane ug/L	1,3,5- Trimethylbenzene ug/L	Benzene ug/L	Ethylbenzene ug/L
MW-1(F)	MW-1-082302	8/23/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-1(F)	MW-1-082302	8/23/2002					0.5 U	0.5 U
MW-1(F)	MW-1(F)	10/22/2003	1.64	0.5 U	0.5 U	0.42 J	0.41 J	3.65
MW-1(F)	MW-1 (F)	1/15/2004	0.09 J	0.5 U	0.5 U	0.5 U	2.79	1.99
MW-1(F)	MW-1(F)	4/15/2004	0.36 J	0.5 U	0.5 U	0.5 U	0.2 U	0.66
MW-1(F)	MW-1 (F)	7/20/2004	0.37 J	0.5 U	0.5 U	0.5 U	0.23	2.48
MW-2(M)	MW-2(M)	6/19/2003	100	2.5 U	2.5 U	14.6	48.4	756
MW-2(M)	MW-2 (M)	10/15/2003	2.23	0.5 U	0.5 U	0.5 U	125	92.6
MW-2(M)	MW-2 (M)	1/12/2004	1 U	0.5 U	0.5 U	0.5 U	10.6	2.52
MW-2(M)	MW-2(M)	4/14/2004	87.6	2.5 U	2.5 U	3.55	28.8	625
MW-2(M)	MW-2 (M)	7/22/2004	16.3	2.5 U	2.5 U	2.7	15.5	196
MW-6(M)	MW-6(M)	6/19/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6(M)	MW-6(M)	10/22/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.41 J
MW-6(M)	MW-6 (M)	1/12/2004	0.92	0.5 U	0.5 U	0.2	0.5 U	0.5 U
MW-6(M)	MW-6 (M)	4/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-6(M)	MW-6 (M)	7/19/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-7(M)	BM-7(M)	6/19/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7(M)	MW-7(M)	6/19/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7(M)	MW-7(M)	10/13/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7(M)	MW-7 (M)	1/12/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7(M)	MW-7 (M)	4/12/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-7(M)	MW-7 (M)	7/19/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-10(M)	MW-10(M)	6/19/2003	26.1	0.5 U	0.5 U	7.58	21	25
MW-10(M)	MW-10 (M)	10/15/2003	6.3	1 U	1 U	1.34	319	182
MW-10(M)	MW-10 (M)	1/13/2004	4.05	0.5 U	0.5 U	4.55	50.3	24.9
MW-10(M)	MW-10 (M)	4/13/2004	3.71	0.5 U	0.5 U	3.15	52.4	32.1
MW-10(M)	MW-10 (M)	7/19/2004	4.16	0.5 U	0.5 U	4.76	34.4	7.38
MW-11(M)	MW-11(M)	6/19/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-11(M)	MW-11 (M)	10/15/2003	1 U B	0.5 U	0.5 U	0.31 J	11.6	0.38 J
MW-11(M)	MW-11 (M)	1/13/2004	1 U	0.5 U	0.5 U	0.5 U	8.86	0.11
MW-11(M)	MW-11 (M)	4/13/2004	0.19 J	0.5 U	0.5 U	0.5 U	0.35	0.53
MW-11(M)	MW-11 (M)	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.44	0.5 U
MW-12(A)	MW-12(A)	10/22/2003	0.15 J	0.5 U	0.5 U	0.5 U	0.19 J	1.35
MW-12(A)	MW-12 (A)	1/15/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-12(A)	MW-12(A)	4/16/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-12(A)	MW-12 (A)	7/22/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-13(A)	MW-13(A)	10/22/2003	17.4	2.5 U	2.5 U	42.8	259	915

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Locator ID	Sample ID	Sample Date	1,2,4- Trimethylbenzene ug/L	1,2-Dibromoethane ug/L	1,2-Dichloroethane ug/L	1,3,5- Trimethylbenzene ug/L	Benzene ug/L	Ethylbenzene ug/L
MW-13(A)	MW-13 (A)	1/15/2004	393	10 U	6.8	10 U	750	2270
MW-13(A)	MW-13(A)	4/16/2004	31	10 U	10 U	41.8	564	2190
MW-13(A)	MW-13 (A)	7/22/2004	8.6 J	10 U	10 U	45.4	256	1290
MW-14(A)	MW-14(A)	10/21/2003	0.53 J	0.5 U	0.5 U	0.17 J	0.77	2.36
MW-14(A)	MW-14 (A)	1/15/2004	0.09 J	0.5 U	0.5 U	0.5 U	0.65	3.28
MW-14(A)	MW-14(A)	4/16/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-14(A)	MW-14 (A)	7/23/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-15(A)	MW-15(A)	10/20/2003	7.37	0.5 U	0.26 J	6.87	127	27
MW-16(A)	MW-16(A)	10/20/2003	2.09	0.5 U	0.5 U	0.93	11.4	1.86
MW-16(A)	MW-16(A)	1/19/2004	1 U	0.5 U	0.5 U	0.5 U	2.32	0.36 J
MW-16(A)	MW-16(A)	4/15/2004	1 U	0.5 U	0.5 U	0.5 U	11.7	1.1
MW-16(A)	MW-16 (A)	7/22/2004	0.48 J	0.5 U	0.5 U	0.5 U	7.26	1.39
MW-17 (A)	BM-17 (A)	7/22/2004	0.16 J	0.5 U	0.5 U	0.5 U	1.18	0.58
MW-17(A)	MW-17 (A)	10/17/2003	3.19	0.5 U	0.5 U	0.54	9.19	14.7
MW-17(A)	BM-17(A)	1/19/2004	0.62 J	0.5 U	0.5 U	2.21	2.5	50.3
MW-17(A)	MW-17(A)	1/19/2004	0.72 J	0.5 U	0.5 U	2.64	2.52	51.7
MW-17(A)	MW-17(A)	4/15/2004	0.44 J	0.5 U	0.5 U	1.73	2.69	29.3
MW-17(A)	MW-17 (A)	7/22/2004	0.44 J	0.5 U	0.5 U	0.5 U	1.22	0.86
MW-18(A)	MW-18(A)	10/21/2003	0.72 J	1 U	1 U	1.56	273	2.18
MW-18(A)	MW-18(A)	1/19/2004	0.29 J	0.5 U	0.5 U	1.15	138	5.45
MW-18(A)	MW-18(A)	4/15/2004	0.17 J	0.5 U	0.5 U	0.5 U	3.2	0.26 J
MW-18(A)	MW-18 (A)	7/21/2004	0.09 J	0.5 U	0.5 U	0.34 J	44.1	1.92
MW-19(A)	BM-19(A)	10/20/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-19(A)	MW-19(A)	10/20/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-19(A)	MW-19 (A)	1/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-19(A)	MW-19(A)	4/15/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-19(A)	BM-19 (A)	7/20/2004	1 U	0.5 U	0.5 U	0.5 U	0.46	2.13
MW-19(A)	MW-19 (A)	7/20/2004	0.13 J	0.5 U	0.5 U	0.5 U	0.31	1.58
MW-20(A)	MW-20(A)	10/20/2003	15.9	0.5 U	0.5 U	2.06	16.9	20.2
MW-20(A)	MW-20 (A)	1/13/2004	56.2	0.5 U	0.5 U	7.32	3.64	12.5
MW-20(A)	MW-20(A)	4/15/2004	5.97	0.5 U	0.5 U	0.59	1.77	0.11
MW-20(A)	MW-20 (A)	7/20/2004	19.6	0.5 U	0.5 U	1.89	2.98	14.8

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			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-21(A)	MW-21(A)	10/20/2003	0.2 J	0.5 U	0.5 U	0.24 J	0.5 U	3.1
MW-21(A)	BM-21 (A)	1/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.25	1.2
MW-21(A)	MW-21 (A)	1/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.31	1.45
MW-21(A)	MW-21(A)	4/16/2004	1.37	0.5 U	0.5 U	0.5 U	0.7	2.51
MW-21(A)	MW-21 (A)	7/20/2004	0.22 J	0.5 U	0.5 U	0.5 U	0.26	3.01
MW-22(A)	MW-22 (A)	10/16/2003	1 U B	0.5 U	0.5 U	0.5 U	19.4	52.9
MW-22(A)	MW-22(A)	1/19/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J
MW-22(A)	MW-22(A)	4/15/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.19
MW-22(A)	MW-22 (A)	7/20/2004	1 U	0.5 U	0.5 U	0.5 U	0.26	1.25
MW-23(A)	MW-23(A)	10/20/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-23(A)	MW-23 (A)	1/15/2004	0.1	0.5 U	0.5 U	0.5 U	0.5 U	0.52
MW-23(A)	BM-23(A)	4/15/2004	1.89	0.5 U	0.5 U	0.57	2.75	12.1
MW-23(A)	MW-23(A)	4/15/2004	2.7	0.5 U	0.5 U	0.84	3.04	14.8
MW-23(A)	MW-23 (A)	7/20/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-24(A)	MW-24(A)	10/21/2003	2.05	0.5 U	0.5 U	1.35	0.62	7.69
MW-24(A)	MW-24 (A)	1/15/2004	232	5 U	5 U	33.9	2.7	60.1
MW-24(A)	MW-24(A)	4/14/2004	55	0.5 U	0.5 U	3.87	0.16	28.4
MW-24(A)	MW-24 (A)	7/22/2004	48.3	0.5 U	0.5 U	1.4	0.55	29.5
MW-26(A)	MW-26 (A)	10/17/2003	600	2.5 U	2.5 U	135	3.05	373
MW-26(A)	MW-26 (A)	1/15/2004	3120	10 U	10 U	682	3	1280
MW-26(A)	MW-26(A)	4/14/2004	2580	10 U	10 U	565	4 U	852
MW-26(A)	MW-26 (A)	7/22/2004	3300	10 U	10 U	665	4 U	886
MW-27(A)	MW-27(A)	10/21/2003	1 U	0.5 U	0.5 U	0.5 U	0.98	0.12 J
MW-27(A)	MW-27 (A)	1/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-27(A)	MW-27 (A)	4/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-27(A)	MW-27 (A)	7/22/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.37 J
MW-28(A)	MW-28 (A)	10/17/2003	566	5 U	5 U	138	208	334
MW-28(A)	MW-28(A)	1/19/2004	942	5 U	5 U	204	702	902
MW-28(A)	MW-28(A)	4/14/2004	250	5 U	5 U	51.2	179	247
MW-28(A)	MW-28 (A)	7/23/2004	130	2.5 U	2.5 U	28.4	72.2	141
MW-29(A)	MW-29(A)	10/21/2003	1980	25 U	25 U	446	482	2480
MW-29(A)	MW-29(A)	1/19/2004	2630	25 U	25 U	568	330	2640
MW-29(A)	MW-29(A)	4/16/2004	1770	25 U	25 U	396	148	1840
MW-29(A)	MW-29 (A)	7/22/2004	2260	25 U	25 U	521	380	1750

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MW-30(A)	MW-30 (A)	10/16/2003	20 U B	10 U	10 U	34.8	262	2080
MW-30(A)	MW-30 (A)	1/16/2004	33.6	10 U	10 U	14.2	341	1910
MW-30(A)	MW-30 (A)	4/13/2004	75.7	5 U	5 U	85.5	533	1850
MW-30(A)	MW-30 (A)	7/20/2004	3.4 J	10 U	10 U	60.6	407	2070
MW-31(A)	BM-31 (A)	10/16/2003	10 U B	5 U	5 U	3.9 J	1260	728
MW-31(A)	MW-31 (A)	10/16/2003	10 U B	5 U	5 U	3.9	1170	706
MW-31(A)	MW-31 (A)	1/12/2004	10 U	5 U	5 U	2.2	1390	798
MW-31(A)	BM-31 (A)	4/13/2004	0.9 J	2.5 U	2.5 U	2.7	538	432
MW-31(A)	MW-31 (A)	4/13/2004	0.85	2.5 U	2.5 U	2.65	574	533
MW-31(A)	MW-31 (A)	7/20/2004	1.1 J	5 U	5 U	4.8 J	1020	911
MW-32(A)	MW-32(A)	10/14/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-32(A)	MW-32 (A)	1/12/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-32(A)	MW-32 (A)	4/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-32(A)	MW-32 (A)	7/19/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-33(A)	MW-33(A)	10/14/2003	1 U	0.5 U	0.5 U	0.5 U	3.49	0.5 U
MW-33(A)	MW-33 (A)	1/12/2004	1 U	0.5 U	0.5 U	0.5 U	15	0.55
MW-33(A)	MW-33 (A)	4/13/2004	1 U	0.5 U	0.5 U	0.5 U	12.1	1.82
MW-33(A)	MW-33 (A)	7/19/2004	1 U	0.5 U	0.5 U	0.5 U	3.47	0.5 U
MW-34(A)	MW-34(A)	10/14/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.29 J
MW-34(A)	MW-34 (A)	1/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25
MW-34(A)	MW-34 (A)	4/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.21
MW-34(A)	MW-34 (A)	7/20/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-35(A)	MW-35 (A)	10/16/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	1.12
MW-35(A)	MW-35 (A)	1/16/2004	0.13 J	0.5 U	0.5 U	0.5 U	0.5 U	0.42 J
MW-35(A)	MW-35 (A)	4/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-35(A)	MW-35 (A)	7/20/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-36(A)	MW-36(A)	10/21/2003	0.15 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-36(A)	MW-36 (A)	1/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-36(A)	MW-36 (A)	4/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.92
MW-36(A)	MW-36 (A)	7/22/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.54
MW-37(A)	MW-37 (A)	10/17/2003	12.2	0.5 U	0.5 U	2.96	0.16 J	17
MW-38(A)	MW-38(A)	10/21/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-38(A)	MW-38 (A)	1/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-38(A)	MW-38 (A)	4/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-38(A)	MW-38 (A)	7/22/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.73

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MW-39(A)	MW-39 (A)	10/16/2003	19.7	0.5 U	0.5 U	3.02	3.98	10.9
MW-39(A)	MW-39 (A)	1/16/2004	14.4	0.5 U	0.5 U	2.7	3.37	10.8
MW-39(A)	MW-39 (A)	4/14/2004	6.04	0.5 U	0.5 U	1.12	3.4	9.92
MW-39(A)	MW-39 (A)	7/21/2004	7.49	0.5 U	0.5 U	1.9	1.7	6.32
MW-39(A)	Trip Blank	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-39(A)	Trip Blank	7/22/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-40(A)	MW-40 (A)	10/17/2003	40.6	2.5 U	2.5 U	8.7	81.2	650
MW-40(A)	MW-40(A)	1/20/2004	3170	10 U	10 U	527	7.8 J	2230
MW-40(A)	MW-40(A)	4/16/2004	3170	25 U	25 U	620	83.5	2510
MW-41(A)	MW-41(A)	10/14/2003	15.4	5 U	5 U	5 U	355	1260
MW-42(A)	MW-42 (A)	10/15/2003	44.8	10 U	10 U	11.2	3020	1850
MW-43(A)	MW-43(A)	10/13/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-43(A)	MW-43 (A)	1/12/2004	1 U	0.5 U	0.5 U	0.5 U	10.9	3.56
MW-43(A)	MW-43 (A)	4/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.48 J
MW-43(A)	MW-43 (A)	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-44(A)	MW-44 (A)	10/17/2003	3470	25 U	25 U	898	898	2890
MW-45(A)	MW-45 (A)	10/16/2003	1 U B	0.5 U	0.5 U	0.5 U	0.16 J	0.32 J
MW-45(A)	MW-45 (A)	1/16/2004	0.11 J	0.5 U	0.5 U	0.5 U	0.5 U	0.23 J
MW-45(A)	MW-45 (A)	4/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.11 J
MW-45(A)	MW-45 (A)	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.11 J
MW-46(A)	MW-46(A)	10/14/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-46(A)	MW-46(A)	1/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-46(A)	MW-46 (A)	4/12/2004	0.32 J	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-46(A)	MW-46 (A)	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-47(A)	MW-47(A)	10/13/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-47(A)	MW-47 (A)	1/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.21	0.13
MW-47(A)	MW-47 (A)	4/12/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-47(A)	MW-47 (A)	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-48(A)	MW-48(A)	10/14/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-48(A)	MW-48 (A)	1/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-48(A)	MW-48 (A)	4/12/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
MW-48(A)	MW-48 (A)	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
R-1(M)	R-1(M)	10/22/2003	1 U B	0.5 U	0.5 U	0.5 U	0.23 J	0.63

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## RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,4- Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5- Trimethylbenzene	Benzene	Ethylbenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-100(C)	SB100(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-103(C)	SB103(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-104(C)	SB104(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-200(C)	SB200(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-201(C)	SB201(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-202(C)	SB202(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-203(C)	SB203(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-204(C)	SB204(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-204(C)	SB204(C)W2	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-304(D)	SB-304-D-9.0	8/19/2002					174	39.1
TW-304(D)	SB-304-D-9.0 DU	8/19/2002					151	30.8
TW-305(D)	SB-305-D-9.0	8/19/2002	3040	10 U	10 U	958	489	1760
TW-306(D)	SB-306-D-9.0	8/19/2002					372	222
TW-307(D)	SB-307-D-9.0	8/19/2002					934	47.1
TW-309(D)	SB-309-D-9.0	8/19/2002	0.34 J	0.5 U	0.5 U	0.58	19.2	0.93
TW-311(D)	SB-311-D-10.0	8/19/2002					24.2	4.13
TW-312(D)	SB-312-D-10.0	8/19/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-313(D)	TW-313-D-22.0	8/20/2002					255	1280
TW-314(D)	TW-314-D-22.0	8/20/2002					68.3	90.9
TW-318(D)	TW-318-D-22.0	8/20/2002	0.66 J	0.5 U	0.5 U	0.5 U	0.71	0.95
TW-319(D)	SB-319-D-14.0	8/19/2002					0.5 U	0.337 U
TW-400(F)	TW-400(F)	8/22/2002					0.5 U	0.5 U
TW-401(F)	TW-401(F)	8/23/2002					0.5 U	0.5 U
TW-402(F)	TW-402(F)	8/23/2002					0.5 U	0.5 U
TW-405(F)	TW-405(F)	8/22/2002					4.23	22.2
TW-406(F)	TW-406(F)	8/22/2002					14.2	249
TW-407(F)	TW-407(F)	8/22/2002					11.6	9.05
TW-408(F)	TW-408(F)	8/22/2002					0.853	3.98
TW-409(F)	TW-409(F)	8/22/2002					0.5 U	0.5 U
TW-600(N)	TW-600(N)	9/13/2002	7.35	2.5 U	2.5 U	2.5 U	2.5 U	799
TW-601(N)	TW-601(N)	9/13/2002	192	1 U	1 U	1 U	1 U	119
TW-602(N)	BT-602(N)	9/13/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-602(N)	TW-602(N)	9/13/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-603(N)	TW-603(N)	9/13/2002	1.72	0.5 U	0.5 U	0.5 U	0.5 U	1.13
TW-608(N)	TW-608 (N)	9/13/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-612(N)	TW-612(N)	9/12/2002	50 U	25 U	25 U	25 U	2610	312
TW-612(N)	TW-612(N)	9/12/2002					3060	533
TW-616(N)	TW-616(N)	9/12/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-616(N)	TW-616(N)	9/12/2002					0.5 U	0.5 U
TW-619(N)	TW-619(N)	9/12/2002	9.5	2.5 U	2.5 U	2.5 U	3.4	80.6

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## RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,4- Trimethylbenzene ug/L	1,2-Dibromoethane ug/L	1,2-Dichloroethane ug/L	1,3,5- Trimethylbenzene ug/L	Benzene ug/L	Ethylbenzene ug/L
TW-619(N)	TW-619(N)	9/12/2002					8.18	99.5
TW-623(N)	TW-623(N)	9/12/2002	22.2	0.5 U	0.5 U	20.8	0.5 U	16.1
TW-623(N)	TW-623(N)	9/12/2002					6.04	25.4
TW-624(N)	TW-624(N)	9/12/2002	31.5	0.4 U	0.4 U	50.5	0.4 U	34.8
TW-625(N)	BT-625(N)	9/12/2002					0.5 U	0.5 U
TW-625(N)	TW-625(N)	9/12/2002					0.5 U	0.5 U
TW-700(P)	TW-700(P)	8/21/2002	803	2 U	2 U	272	2 U	358
TW-701(P)	TW-701(P)	8/20/2002	204	4 U	4 U	5 U	40.3	933
TW-702(P)	TW-702(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-703(P)	TW-703(P)	8/21/2002	53.8	0.8 U	0.8 U	33.5	3.3	172
TW-704(P)	TW-704(P)	8/21/2002	1.22	0.4 U	0.4 U	6.07	0.16 J	1.46
TW-706(P)	TW-706(P)	8/21/2002	113	2 U	2 U	40.8	106	195
TW-707(P)	TW-707(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	1.41	2.87
TW-708(P)	BT-708(P)	8/20/2002	10 U	5 U	5 U	5 U	1230	154
TW-708(P)	TW-708(P)	8/20/2002	10 U	5 U	5 U	5 U	976	80.9
TW-709(P)	TW-709(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-710(P)	TW-710(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-711(P)	BT-711(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-711(P)	TW-711(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-712(P)	TW-712(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-714(P)	TW-714(P)	8/21/2002	914	10 U	10 U	115	83.8	2110
TW-716(P)	TW-716(P)	8/20/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-717(P)	TW-717(P)	8/20/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U
TW-718(P)	TW-718(P)	8/21/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-719(P)	BT-719(P)	8/23/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-719(P)	TW-719(P)	8/23/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-720(P)	TW-720(P)	8/23/2002	1810	10 U	10 U	119	28	1530
TW-800(Q)	TW-800(Q)-10.5	8/27/2002					0.5 U	0.5 U
TW-801(Q)	TW801(Q)-10	8/26/2002					0.5 U	0.5 U
TW-803(Q)	TW-803(Q)-9	8/26/2002					0.5 U	0.5 U
TW-805(Q)	TW-805(Q)-10	8/26/2002					1.98	2.26
TW-806(Q)	TW-806 (Q)-11	8/28/2002					20.3	0.5 U
TW-810(Q)	TW-810 (Q)-8	8/28/2002					0.5 U	0.5 U
TW-814(Q)	TW814(Q)9	8/27/2002					0.5 U	0.5 U
TW-816(Q)	TW-816(Q)-12	8/27/2002					0.5 U	0.5 U
TW-818(Q)	TW-818 (Q)-11	8/28/2002					0.5 U	0.5 U

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## RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,4- Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5- Trimethylbenzene	Benzene	Ethylbenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002					8	7.78
TW-819(Q)	TW-819 (Q)-9.5Q	8/28/2002					13.7	11
TW-820(Q)	TW-820 (Q)-10	8/29/2002					11	30.2
TW-822(Q)	TW-822 (Q)-9	8/29/2002					31.3 J	111 J
TW-824(Q)	TW-824(Q)-9	8/28/2002					2.4	0.5 U
TW-825(Q)	TW-825(Q)-8.5	8/27/2002					0.5 U	0.5 U
TW-826(Q)	TW-826(Q)-9	8/27/2002					0.5 U	0.5 U
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002					0.506	0.5 U
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002					0.5 U	0.5 U
TW-833(Q)	TW-833 (Q)-10.5	8/28/2002					0.5 U	0.5 U
TW-900(S)	SB-900(TW)	8/26/2002					2.72	0.977
TW-901(S)	SB-901(TW)	8/26/2002	468	2.5 U	2.5 U	147	5.92	7.82
TW-901(S)	SB-901(TW)	8/26/2002					2.5 U	7
TW-902(S)	SB-902(TW)	8/26/2002					0.5 U	1.51
TW-903(S)	SB-903(TW)	8/26/2002	79.8	0.5 U	0.5 U	17.4	0.5 U	12.8
TW-903(S)	SB-903(TW)	8/26/2002					0.5 U	14
TW-904(S)	SB-904(TW)	8/26/2002	1.6	0.5 U	0.5 U	0.35 J	0.5 U	0.5 U
TW-904(S)	SB-904(TW)	8/26/2002					0.5 U	0.26 J
TW-905(S)	SB-905(TW)	8/26/2002	35.6 J	0.5 U	0.5 U	7.17 J	0.5 U	18.9 J
TW-905(S)	SB-905(TW)	8/26/2002					2.5 U	46.4
TW-906(S)	SB-906(TW)	8/27/2002	15.6	0.5 U	0.5 U	3.89	0.5 U	0.15 J
TW-906(S)	SB-906(TW)	8/27/2002					0.5 U	0.5 U
TW-908(S)	SB-908(TW)	8/27/2002	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-908(S)	SB-908(TW)	8/27/2002					0.5 U	0.5 U
TW-909(S)	SB-909(TW)	8/27/2002					0.5 U	0.5 U
TW-910(S)	SB-910(TW)	8/26/2002					0.5 U	0.803
TW-911(S)	SB-911(TW)	8/27/2002	0.27 J	0.5 U	0.5 U	0.5 U	0.718	13
TW-911(S)	SB-911(TW)	8/27/2002					0.34 J	5.41



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## RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002	2 U	2 U	0.5 U		0.5 U		1 U
MW-1(F)	MW-1-082302	8/23/2002					0.5 U		1 U
MW-1(F)	MW-1(F)	10/22/2003	0.17 J	2 U	0.26 J		7.08		16.3
MW-1(F)	MW-1 (F)	1/15/2004	2.1	2 U	1.13		0.5 U		1 U
MW-1(F)	MW-1(F)	4/15/2004	0.19 J	2 U	0.26 J		0.5 U		0.92 J
MW-1(F)	MW-1 (F)	7/20/2004	0.18 J	2 U	0.4 J		0.32 J		2
MW-2(M)	MW-2(M)	6/19/2003		10 U	270		15.5		369
MW-2(M)	MW-2 (M)	10/15/2003	42.9	2 U	159		8.5		21.3
MW-2(M)	MW-2 (M)	1/12/2004	10.2	2 U	47.8		0.51 J+,B		0.86
MW-2(M)	MW-2(M)	4/14/2004	54.7	10 U	212		13.4		342
MW-2(M)	MW-2 (M)	7/22/2004	50.6	10 U	206		7.35		29.4
MW-6(M)	MW-6(M)	6/19/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-6(M)	MW-6(M)	10/22/2003	2 U	2 U	0.5 U		0.5 U B		1 U
MW-6(M)	MW-6 (M)	1/12/2004	0.27	2 U	0.49		0.5 U		1 U
MW-6(M)	MW-6 (M)	4/13/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-6(M)	MW-6 (M)	7/19/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-7(M)	BM-7(M)	6/19/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-7(M)	MW-7(M)	6/19/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-7(M)	MW-7(M)	10/13/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-7(M)	MW-7 (M)	1/12/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-7(M)	MW-7 (M)	4/12/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-7(M)	MW-7 (M)	7/19/2004	0.12 J	2 U	0.17 J		0.5 U		1 U
MW-10(M)	MW-10(M)	6/19/2003	27.8	2 U	26.8		5.55		49
MW-10(M)	MW-10 (M)	10/15/2003	18.5	4 U	48.6		19.3		49.6
MW-10(M)	MW-10 (M)	1/13/2004	27.5	2 U	28.9		15.3		46.9
MW-10(M)	MW-10 (M)	4/13/2004	23.1	2 U	21.7		10.5		55
MW-10(M)	MW-10 (M)	7/19/2004	28.9	2 U	37.1		6.09		31.2
MW-11(M)	MW-11(M)	6/19/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-11(M)	MW-11 (M)	10/15/2003	4.37	2 U	7.48		0.96 JB		8.39
MW-11(M)	MW-11 (M)	1/13/2004	3.15	2 U	1.3		0.5 U B		1 U
MW-11(M)	MW-11 (M)	4/13/2004	0.43 J	2 U	3.19		0.5 U B		1 U
MW-11(M)	MW-11 (M)	7/21/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-12(A)	MW-12(A)	10/22/2003	2 U	2 U	0.5 U		2.77		3.77
MW-12(A)	MW-12 (A)	1/15/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-12(A)	MW-12(A)	4/16/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-12(A)	MW-12 (A)	7/22/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-13(A)	MW-13(A)	10/22/2003	94.7	10 U	228		26.6		94.6

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## RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-13(A)	MW-13 (A)	1/15/2004	225	40 U	676		82.4		578
MW-13(A)	MW-13(A)	4/16/2004	233	40 U	657		58		110
MW-13(A)	MW-13 (A)	7/22/2004	137	40 U	355		30		50.4
MW-14(A)	MW-14(A)	10/21/2003	0.11 J	2 U	0.2 J		5.91		6.82
MW-14(A)	MW-14 (A)	1/15/2004	0.28 J	2 U	0.66		0.5 U		0.47 J
MW-14(A)	MW-14(A)	4/16/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-14(A)	MW-14 (A)	7/23/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-15(A)	MW-15(A)	10/20/2003	42.4	0.93 J	90.3		13.5		40.7
MW-16(A)	MW-16(A)	10/20/2003	7.81	2 U	12.3		1.43 J,B		9.74
MW-16(A)	MW-16(A)	1/19/2004	3.79	2 U	5.44		0.5 U B		1 U
MW-16(A)	MW-16(A)	4/15/2004	28.8	0.38 J	29.9		0.71 JB		0.34 J
MW-16(A)	MW-16 (A)	7/22/2004	13.3	2 U	25.1		2.15		2.83
MW-17 (A)	BM-17 (A)	7/22/2004	1.75 J	2 U	3.95		1.09		1.12
MW-17(A)	MW-17 (A)	10/17/2003	2.9	2 U	7.97		25.5		35.3
MW-17(A)	BM-17(A)	1/19/2004	6.44	2 U	16.4		1.04 JB		18.9
MW-17(A)	MW-17(A)	1/19/2004	6.55	2 U	17.4		1.05 JB		20.1
MW-17(A)	MW-17(A)	4/15/2004	7.78	2 U	23		0.67 JB		8.65
MW-17(A)	MW-17 (A)	7/22/2004	1.85 J	2 U	4.37		1.46		1.83
MW-18(A)	MW-18(A)	10/21/2003	25.8	0.98 J	45		21.1		22.4
MW-18(A)	MW-18(A)	1/19/2004	13.8	2 U	26.9		13.9		18.9
MW-18(A)	MW-18(A)	4/15/2004	2.09	0.2 J	1.6		0.68 JB		0.82 J
MW-18(A)	MW-18 (A)	7/21/2004	9.41	2 U	19		3.18		1.68
MW-19(A)	BM-19(A)	10/20/2003	2 U	0.23 J	0.5 U		0.5 U		1 U
MW-19(A)	MW-19(A)	10/20/2003	2 U	0.23 J	0.5 U		0.5 U		1 U
MW-19(A)	MW-19 (A)	1/13/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-19(A)	MW-19(A)	4/15/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-19(A)	BM-19 (A)	7/20/2004	0.11 J	0.11 J	0.21 J		0.25 J		0.73 J
MW-19(A)	MW-19 (A)	7/20/2004	2 U	2 U	0.2 J		0.19 J		0.61 J
MW-20(A)	MW-20(A)	10/20/2003	1.88 J	2 U	3.62		1.29 J,B		121
MW-20(A)	MW-20 (A)	1/13/2004	6.54	2 U	8.92		0.88 J+,B		46.2
MW-20(A)	MW-20(A)	4/15/2004	1.16	2 U	2.02		0.5 U B		1.08
MW-20(A)	MW-20 (A)	7/20/2004	4.03	2 U	3		1.18		63.3

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## RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-21(A)	MW-21(A)	10/20/2003	2.5	2 U	7.31		0.5 U		1.73
MW-21(A)	BM-21 (A)	1/13/2004	2.36	2 U	6.9		0.5 U B		0.45
MW-21(A)	MW-21 (A)	1/13/2004	2.53	2 U	7.59		0.5 U B		0.46
MW-21(A)	MW-21(A)	4/16/2004	2.59	2 U	3.97		0.52 JB		5.41
MW-21(A)	MW-21 (A)	7/20/2004	3.9	2 U	13.3		0.17 J		0.88 J
MW-22(A)	MW-22 (A)	10/16/2003	2.78	2 U	7		2.96		7.82
MW-22(A)	MW-22(A)	1/19/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-22(A)	MW-22(A)	4/15/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-22(A)	MW-22 (A)	7/20/2004	2 U	2 U	0.18 J		0.5 U		0.46 J
MW-23(A)	MW-23(A)	10/20/2003	2 U	2 U	0.15 J		0.5 U		1 U
MW-23(A)	MW-23 (A)	1/15/2004	2 U	2 U	0.17		0.5 U		0.38
MW-23(A)	BM-23(A)	4/15/2004	2.64	2 U	5.04		0.94 JB		10.9
MW-23(A)	MW-23(A)	4/15/2004	3.27	2 U	6.02		1.13 JB		14.5
MW-23(A)	MW-23 (A)	7/20/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-24(A)	MW-24(A)	10/21/2003	0.94 J	2 U	2.01		1.17 J,B		10.5
MW-24(A)	MW-24 (A)	1/15/2004	4.8	20 U	9.7		5 U		116
MW-24(A)	MW-24(A)	4/14/2004	4.54	2 U	11.1		0.5 U B		30.7
MW-24(A)	MW-24 (A)	7/22/2004	3.2	2 U	6.53		0.98		15.6
MW-26(A)	MW-26 (A)	10/17/2003	32	10 U	83.3		18.4		1040
MW-26(A)	MW-26 (A)	1/15/2004	104	40 U	280		24.2 JB		5500
MW-26(A)	MW-26(A)	4/14/2004	96	40 U	251		14.8 JB		3060
MW-26(A)	MW-26 (A)	7/22/2004	102	40 U	278		17.2		3430
MW-27(A)	MW-27(A)	10/21/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-27(A)	MW-27 (A)	1/14/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-27(A)	MW-27 (A)	4/14/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-27(A)	MW-27 (A)	7/22/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-28(A)	MW-28 (A)	10/17/2003	24.4	20 U	85.6		201		1070
MW-28(A)	MW-28(A)	1/19/2004	30.1	20 U	92.4		696		4000
MW-28(A)	MW-28(A)	4/14/2004	16.2 J	20 U	37.4		88.9		874
MW-28(A)	MW-28 (A)	7/23/2004	6.55 J	10 U	18.2		15.8		412
MW-29(A)	MW-29(A)	10/21/2003	86 J	100 U	234		5160		13300
MW-29(A)	MW-29(A)	1/19/2004	82 J	100 U	241		8170		13500
MW-29(A)	MW-29(A)	4/16/2004	69.5 J	100 U	188		3780		8920
MW-29(A)	MW-29 (A)	7/22/2004	98.5 J	100 U	270		5520		8130

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## RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-30(A)	MW-30 (A)	10/16/2003	88.8	40 U	238		110		663
MW-30(A)	MW-30 (A)	1/16/2004	79	40 U	232		127		378
MW-30(A)	MW-30 (A)	4/13/2004	70.2	20 U	170		243		2140
MW-30(A)	MW-30 (A)	7/20/2004	83.2	40 U	218		128		1330
MW-31(A)	BM-31 (A)	10/16/2003	56.5	20 U	156		41.6		143
MW-31(A)	MW-31 (A)	10/16/2003	54.4	20 U	152		38.4		138
MW-31(A)	MW-31 (A)	1/12/2004	44.2	20 U	121		109		189
MW-31(A)	BM-31 (A)	4/13/2004	33	10 U	73		29.2		121
MW-31(A)	MW-31 (A)	4/13/2004	35.2	10 U	80.2		35.9		127
MW-31(A)	MW-31 (A)	7/20/2004	44.8	20 U	119		67.9		356
MW-32(A)	MW-32(A)	10/14/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-32(A)	MW-32 (A)	1/12/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-32(A)	MW-32 (A)	4/13/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-32(A)	MW-32 (A)	7/19/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-33(A)	MW-33(A)	10/14/2003	0.35 J	2 U	0.63		0.5 U		0.28 J
MW-33(A)	MW-33 (A)	1/12/2004	3.71	2 U	8.13		2.16		4.16
MW-33(A)	MW-33 (A)	4/13/2004	4.07	2 U	8.46		0.83 JB		2.13
MW-33(A)	MW-33 (A)	7/19/2004	0.89 J	2 U	1.61		0.62		0.65 J
MW-34(A)	MW-34(A)	10/14/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-34(A)	MW-34 (A)	1/13/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-34(A)	MW-34 (A)	4/14/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-34(A)	MW-34 (A)	7/20/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-35(A)	MW-35 (A)	10/16/2003	2 U	2 U	0.17 J		0.5 U		1 U
MW-35(A)	MW-35 (A)	1/16/2004	2 U	2 U	0.18 J		0.5 U		1 U
MW-35(A)	MW-35 (A)	4/13/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-35(A)	MW-35 (A)	7/20/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-36(A)	MW-36(A)	10/21/2003	2 U	2 U	0.5 U		0.5 U		0.28 J
MW-36(A)	MW-36 (A)	1/14/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-36(A)	MW-36 (A)	4/14/2004	2 U	2 U	0.5 U		0.5 U B		1 U
MW-36(A)	MW-36 (A)	7/22/2004	2 U	2 U	0.14 J		0.5 U		1 U
MW-37(A)	MW-37 (A)	10/17/2003	6.72	2 U	10.4		0.72 J		30.6
MW-38(A)	MW-38(A)	10/21/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-38(A)	MW-38 (A)	1/14/2004	2 U	2 U	0.15		0.5 U		1 U
MW-38(A)	MW-38 (A)	4/14/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-38(A)	MW-38 (A)	7/22/2004	0.2 J	2 U	0.51		0.5 U		1 U

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## RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-39(A)	MW-39 (A)	10/16/2003	3.42	2 U	5.33		0.5 U B		21.6
MW-39(A)	MW-39 (A)	1/16/2004	3.34	2 U	4.57		0.5 U B		28.8
MW-39(A)	MW-39 (A)	4/14/2004	3.36	2 U	6.58		0.6 JB		11.7
MW-39(A)	MW-39 (A)	7/21/2004	2.77	2 U	4.4		0.26 J		13.2
MW-39(A)	Trip Blank	7/21/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-39(A)	Trip Blank	7/22/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-40(A)	MW-40 (A)	10/17/2003	44.8	10 U	86.4		57.6		367
MW-40(A)	MW-40(A)	1/20/2004	98	40 U	334		833		6460
MW-40(A)	MW-40(A)	4/16/2004	98.5 J	100 U	325		1530		8150
MW-41(A)	MW-41(A)	10/14/2003	38.1	20 U	88.9		103		192
MW-42(A)	MW-42 (A)	10/15/2003	63.4	40 U	226		163		370
MW-43(A)	MW-43(A)	10/13/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-43(A)	MW-43 (A)	1/12/2004	2 U	2 U	0.5 U		0.5 U B		1 U
MW-43(A)	MW-43 (A)	4/13/2004	2 U	2 U	3.76		0.5 U		1 U
MW-43(A)	MW-43 (A)	7/21/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-44(A)	MW-44 (A)	10/17/2003	94 J	100 U	388		5320		14900
MW-45(A)	MW-45 (A)	10/16/2003	2 U	2 U	0.21 J		0.5 U		1 U
MW-45(A)	MW-45 (A)	1/16/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-45(A)	MW-45 (A)	4/14/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-45(A)	MW-45 (A)	7/21/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-46(A)	MW-46(A)	10/14/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-46(A)	MW-46(A)	1/14/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-46(A)	MW-46 (A)	4/12/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-46(A)	MW-46 (A)	7/21/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-47(A)	MW-47(A)	10/13/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-47(A)	MW-47 (A)	1/14/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-47(A)	MW-47 (A)	4/12/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-47(A)	MW-47 (A)	7/21/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-48(A)	MW-48(A)	10/14/2003	2 U	2 U	0.5 U		0.5 U		1 U
MW-48(A)	MW-48 (A)	1/14/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-48(A)	MW-48 (A)	4/12/2004	2 U	2 U	0.5 U		0.5 U		1 U
MW-48(A)	MW-48 (A)	7/21/2004	2 U	2 U	0.5 U		0.5 U		1 U
R-1(M)	R-1(M)	10/22/2003	2 U	2 U	0.5 U		0.5 U B		1 U

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## RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-100(C)	SB100(C)W	8/22/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-103(C)	SB103(C)W	8/22/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-104(C)	SB104(C)W	8/22/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-200(C)	SB200(C)W	8/22/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-201(C)	SB201(C)W	8/22/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-202(C)	SB202(C)W	8/22/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-203(C)	SB203(C)W	8/22/2002	0.4 J	0.4 U	0.88	0.4 U	0.4 U	0.8 U	
TW-204(C)	SB204(C)W	8/22/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-204(C)	SB204(C)W2	8/22/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-304(D)	SB-304-D-9.0	8/19/2002					10.9		73.1
TW-304(D)	SB-304-D-9.0 DT	8/19/2002					10.2		56.1
TW-305(D)	SB-305-D-9.0	8/19/2002	128	40 U	416		186		3870
TW-306(D)	SB-306-D-9.0	8/19/2002					83.3		106
TW-307(D)	SB-307-D-9.0	8/19/2002					76		135
TW-309(D)	SB-309-D-9.0	8/19/2002	3.75	2 U	5.72		2.09		5.13
TW-311(D)	SB-311-D-10.0	8/19/2002					1.6		3.17 U
TW-312(D)	SB-312-D-10.0	8/19/2002	0.17 J	2 U	0.32 J		0.5 U		1 U
TW-313(D)	TW-313-D-22.0	8/20/2002					40.6		316
TW-314(D)	TW-314-D-22.0	8/20/2002					9.8		81.3
TW-318(D)	TW-318-D-22.0	8/20/2002	2 U	2 U	0.14 J		0.5 U		2.03
TW-319(D)	SB-319-D-14.0	8/19/2002					0.5 U		0.724 U
TW-400(F)	TW-400(F)	8/22/2002					0.5 U		1 U
TW-401(F)	TW-401(F)	8/23/2002					0.5 U		1 U
TW-402(F)	TW-402(F)	8/23/2002					0.5 U		1 U
TW-405(F)	TW-405(F)	8/22/2002					0.86		62.7
TW-406(F)	TW-406(F)	8/22/2002					7.59		474
TW-407(F)	TW-407(F)	8/22/2002					1.63		17.3
TW-408(F)	TW-408(F)	8/22/2002					0.5 U		1.47
TW-409(F)	TW-409(F)	8/22/2002					0.5 U		1 U
TW-600(N)	TW-600(N)	9/13/2002	34	10 U	89.2		28		840
TW-601(N)	TW-601(N)	9/13/2002	29.1	4 U	49.3		1.1		107
TW-602(N)	BT-602(N)	9/13/2002	2 U	2 U	0.5 U		0.5 U		1.19
TW-602(N)	TW-602(N)	9/13/2002	2 U	2 U	0.5 U		0.5 U		1.39
TW-603(N)	TW-603(N)	9/13/2002	2 U	2 U	1.19		0.5 U		3.65
TW-608(N)	TW-608 (N)	9/13/2002	2 U	2 U	0.5 U		0.5 U		1 U
TW-612(N)	TW-612(N)	9/12/2002	100 U	100 U	98		102		250
TW-612(N)	TW-612(N)	9/12/2002					145		353
TW-616(N)	TW-616(N)	9/12/2002	2 U	2 U	0.5 U		0.5 U		1 U
TW-616(N)	TW-616(N)	9/12/2002					0.5 U		1 U
TW-619(N)	TW-619(N)	9/12/2002	12	10 U	17.6		7.85		61.8

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## RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-619(N)	TW-619(N)	9/12/2002					11.7		81.3
TW-623(N)	TW-623(N)	9/12/2002	9.57	2 U	23.2		0.68		27.9
TW-623(N)	TW-623(N)	9/12/2002					3.3		40.1
TW-624(N)	TW-624(N)	9/12/2002	24.3	0.4 U	60.7	11.2	1.65	47.1	
TW-625(N)	BT-625(N)	9/12/2002					0.5 U		1 U
TW-625(N)	TW-625(N)	9/12/2002					0.5 U		1 U
TW-700(P)	TW-700(P)	8/21/2002	70.8	2 U	131	172	5.35	898	
TW-701(P)	TW-701(P)	8/20/2002	41.2	4 U	81.9	27.8	85.7	1350	
TW-702(P)	TW-702(P)	8/21/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-703(P)	TW-703(P)	8/21/2002	42.3	0.8 U	58	29.9	30.9	229	
TW-704(P)	TW-704(P)	8/21/2002	17.8	0.4 U	23.8	3.69	1.07	5.98	
TW-706(P)	TW-706(P)	8/21/2002	14.2	2 U	26.6	91.6	19	540	
TW-707(P)	TW-707(P)	8/21/2002	0.5 U	0.4 U	0.5 U	0.27 J	0.41	1.14	
TW-708(P)	BT-708(P)	8/20/2002	32.5	20 U	88.5		43.6		69.9
TW-708(P)	TW-708(P)	8/20/2002	27.8	20 U	73.2		31.9		57.4
TW-709(P)	TW-709(P)	8/21/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-710(P)	TW-710(P)	8/21/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-711(P)	BT-711(P)	8/21/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-711(P)	TW-711(P)	8/21/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-712(P)	TW-712(P)	8/21/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-714(P)	TW-714(P)	8/21/2002	73.2	40 U	277		33.6		1450
TW-716(P)	TW-716(P)	8/20/2002	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.8 U	
TW-717(P)	TW-717(P)	8/20/2002	0.5 U	0.4 U	0.14 J	0.49	0.38 J	0.8 U	
TW-718(P)	TW-718(P)	8/21/2002	2 U	2 U	0.5 U		0.5 U		1 U
TW-719(P)	BT-719(P)	8/23/2002	0.4 J	2 U	0.41 J		0.5 U		1 U
TW-719(P)	TW-719(P)	8/23/2002	2 U	2 U	0.35 J		0.5 U		1 U
TW-720(P)	TW-720(P)	8/23/2002	56.2	40 U	188		192		2650
TW-800(Q)	TW-800(Q)-10.5	8/27/2002					0.5 U		1 U
TW-801(Q)	TW801(Q)-10	8/26/2002					0.5 U		1 U
TW-803(Q)	TW-803(Q)-9	8/26/2002					0.5 U		1 U
TW-805(Q)	TW-805(Q)-10	8/26/2002					0.5 U		6.87
TW-806(Q)	TW-806 (Q)-11	8/28/2002					1.13		1 U
TW-810(Q)	TW-810 (Q)-8	8/28/2002					0.5 U		1 U
TW-814(Q)	TW814(Q)9	8/27/2002					0.5 U		1 U
TW-816(Q)	TW-816(Q)-12	8/27/2002					0.5 U		1 U
TW-818(Q)	TW-818 (Q)-11	8/28/2002					0.5 U		1 U

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Remedial Investigation/Feasibility Study  
Astoria Area-Wide Petroleum Site  
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002					0.581		7.93
TW-819(Q)	TW-819 (Q)-9.5C	8/28/2002					3.17		6.49
TW-820(Q)	TW-820 (Q)-10	8/29/2002					1.05		11.6
TW-822(Q)	TW-822 (Q)-9	8/29/2002					2.89 J		336 J
TW-824(Q)	TW-824(Q)-9	8/28/2002					0.5 U		1 U
TW-825(Q)	TW-825(Q)-8.5	8/27/2002					0.5 U		1 U
TW-826(Q)	TW-826(Q)-9	8/27/2002					0.5 U		1 U
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002					0.5 U		1 U
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002					0.5 U		1 U
TW-833(Q)	TW-833 (Q)-10.5	8/28/2002					0.5 U		1 U
TW-900(S)	SB-900(TW)	8/26/2002					0.701		1 U
TW-901(S)	SB-901(TW)	8/26/2002	16.3	10 U	32.4		1.03		64.1
TW-901(S)	SB-901(TW)	8/26/2002					2.5 U		55.6
TW-902(S)	SB-902(TW)	8/26/2002					0.907		137
TW-903(S)	SB-903(TW)	8/26/2002	4.76	2 U	7.85		4.32		146
TW-903(S)	SB-903(TW)	8/26/2002					4.51		146
TW-904(S)	SB-904(TW)	8/26/2002	0.17 J	2 U	0.27 J		0.5 U		1 U
TW-904(S)	SB-904(TW)	8/26/2002					0.5 U		0.63 J
TW-905(S)	SB-905(TW)	8/26/2002	1.83 J	2 U	1.86 J		0.81 J		193 J
TW-905(S)	SB-905(TW)	8/26/2002					2.5 U		406
TW-906(S)	SB-906(TW)	8/27/2002	1.16 J	2 U	2.04		0.25 J		8.89
TW-906(S)	SB-906(TW)	8/27/2002					0.5 U		12.8
TW-908(S)	SB-908(TW)	8/27/2002	2 U	0.14 J	0.5 U		0.5 U		1 U
TW-908(S)	SB-908(TW)	8/27/2002					0.5 U		1 U
TW-909(S)	SB-909(TW)	8/27/2002					0.5 U		1 U
TW-910(S)	SB-910(TW)	8/26/2002					0.5 U		1.43
TW-911(S)	SB-911(TW)	8/27/2002	1.1 J	2 U	0.8		1.1		5.65
TW-911(S)	SB-911(TW)	8/27/2002					0.43 J		2.22