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PETROLEUM HYDROCARBONS IN GROUND WATER

Remedial Investigation/Feasibility Study

Astoria Area-Wide Petroleum Site

Astoria, Oregon

Locator ID	Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002	250 U	143		500 U
MW-1(F)	MW-1(F)	10/22/2003	250 U	94		500 U
MW-1(F)	MW-1 (F)	1/15/2004	171 J	408		500 U
MW-1(F)	MW-1(F)	4/15/2004	163 J	141 JB		500 U
MW-1(F)	MW-1 (F)	7/20/2004	250 U B	197		500 U
MW-2(M)	MW-2(M)	6/19/2003	2900	9440		500 U
MW-2(M)	MW-2 (M)	10/15/2003	3260	4510		1670
MW-2(M)	MW-2 (M)	1/12/2004	1340	628		500 U
MW-2(M)	MW-2(M)	4/14/2004	4170	6470		295 J
MW-2(M)	MW-2 (M)	7/22/2004	3580	5010		294 J
MW-6(M)	MW-6(M)	6/19/2003	250 U	457		500 U
MW-6(M)	MW-6(M)	10/22/2003	179 J	80 U		500 U
MW-6(M)	MW-6 (M)	1/12/2004	250 U	80 U		500 U
MW-6(M)	MW-6 (M)	4/13/2004	250 U	80 U B		500 U
MW-6(M)	MW-6 (M)	7/19/2004	250 U B	80 U		500 U
MW-7(M)	BM-7(M)	6/19/2003	250 U	80 U		500 U
MW-7(M)	MW-7(M)	6/19/2003	250 U	80 U		500 U
MW-7(M)	MW-7(M)	10/13/2003	307	80 U		500 U
MW-7(M)	MW-7 (M)	1/12/2004	756	80 U		500 U
MW-7(M)	MW-7 (M)	4/12/2004	401	14.9		500 U
MW-7(M)	MW-7 (M)	7/19/2004	610	80 U		196 J
MW-10(M)	MW-10(M)	6/19/2003	1430	2400		500 U
MW-10(M)	MW-10 (M)	10/15/2003	1790	3360		302 J
MW-10(M)	MW-10 (M)	1/13/2004	1590	2570		500 U
MW-10(M)	MW-10 (M)	4/13/2004	2670	2440		379 J
MW-10(M)	MW-10 (M)	7/19/2004	2260	2240		410 J
MW-11(M)	MW-11(M)	6/19/2003	250 U	179		500 U
MW-11(M)	MW-11 (M)	10/15/2003	250 U	652		500 U
MW-11(M)	MW-11 (M)	1/13/2004	500	219		500 U
MW-11(M)	MW-11 (M)	4/13/2004	222 J	106		500 U
MW-11(M)	MW-11 (M)	7/21/2004	250 U	80 U		500 U
MW-12(A)	MW-12(A)	10/22/2003	250 U	60.1 J		500 U
MW-12(A)	MW-12 (A)	1/15/2004	250 U	80 U		500 U
MW-12(A)	MW-12(A)	4/16/2004	250 U	80 U B		500 U
MW-12(A)	MW-12 (A)	7/22/2004	250 U	80 U		500 U
MW-13(A)	MW-13(A)	10/22/2003	250 U	10100		500 U
MW-13(A)	MW-13 (A)	1/15/2004	1310	15300		658
MW-13(A)	MW-13(A)	4/16/2004	1930	13400		500 U
MW-13(A)	MW-13 (A)	7/22/2004	1040	9140		500 U
MW-14(A)	MW-14(A)	10/21/2003	250 U	71.8 J		500 U
MW-14(A)	MW-14 (A)	1/15/2004	250 U	80 U		500 U
MW-14(A)	MW-14(A)	4/16/2004	250 U	80 U B		500 U
MW-14(A)	MW-14 (A)	7/23/2004	250 U	80 U		500 U
MW-15(A)	MW-15(A)	10/20/2003	250 U	2550		500 U

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Locator ID	Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			ug/L	ug/L	ug/L	ug/L
MW-16(A)	MW-16(A)	10/20/2003	250 U	457		425 J
MW-16(A)	MW-16(A)	1/19/2004	250 U	141		500 U
MW-16(A)	MW-16(A)	4/15/2004	859	315		500 U
MW-16(A)	MW-16 (A)	7/22/2004	551	458		500 U
MW-17(A)	MW-17 (A)	10/17/2003	250 U	740		500 U
MW-17(A)	BM-17(A)	1/19/2004	250 U	1050		500 U
MW-17(A)	MW-17(A)	1/19/2004	250 U	778		500 U
MW-17(A)	MW-17(A)	4/15/2004	490	516		500 U
MW-17(A)	MW-17 (A)	7/22/2004	137 J	124		500 U
MW-17(A)	BM-17 (A)	7/22/2004	110 J			500 U
MW-17(A)	BM-17 (A)	7/22/2004		131		
MW-18(A)	MW-18(A)	10/21/2003	936	1280		2180
MW-18(A)	MW-18(A)	1/19/2004	807	830		500 U
MW-18(A)	MW-18(A)	4/15/2004	241 J	148 JB		500 U
MW-18(A)	MW-18 (A)	7/21/2004	229 J	266		500 U
MW-19(A)	BM-19(A)	10/20/2003	176 J	80 U		500 U
MW-19(A)	MW-19(A)	10/20/2003	180 J	80 U		500 U
MW-19(A)	MW-19 (A)	1/13/2004	250 U	80 U		500 U
MW-19(A)	MW-19(A)	4/15/2004	250 U	80 U B		500 U
MW-19(A)	BM-19 (A)	7/20/2004	250 U B	80 U		500 U
MW-19(A)	MW-19 (A)	7/20/2004	250 U B	80 U		500 U
MW-20(A)	MW-20(A)	10/20/2003	1370	1400		710
MW-20(A)	MW-20 (A)	1/13/2004	927	979		918
MW-20(A)	MW-20(A)	4/15/2004	918	263		640
MW-20(A)	MW-20 (A)	7/20/2004	1900	821		951
MW-21(A)	MW-21(A)	10/20/2003	1460	753		500 U
MW-21(A)	BM-21 (A)	1/13/2004	644	186		500 U
MW-21(A)	MW-21 (A)	1/13/2004	799	309		500 U
MW-21(A)	MW-21(A)	4/16/2004	4860	243		734
MW-21(A)	MW-21 (A)	7/20/2004	1670	847		500 U
MW-22(A)	MW-22 (A)	10/16/2003	250 U	140		500 U
MW-22(A)	MW-22(A)	1/19/2004	250 U	80 U		500 U
MW-22(A)	MW-22(A)	4/15/2004	250 U	80 U B		500 U
MW-22(A)	MW-22 (A)	7/20/2004	250 U B	80 U		500 U
MW-23(A)	MW-23(A)	10/20/2003	250 U	80 U		500 U
MW-23(A)	MW-23 (A)	1/15/2004	250 U	61.7 J		500 U
MW-23(A)	BM-23(A)	4/15/2004	250 U	198		500 U
MW-23(A)	MW-23(A)	4/15/2004	194 J	207		500 U
MW-23(A)	MW-23 (A)	7/20/2004	250 U B	80 U		500 U
MW-24(A)	MW-24(A)	10/21/2003	250 U	376		500 U
MW-24(A)	MW-24 (A)	1/15/2004	250 U	4050		500 U
MW-24(A)	MW-24(A)	4/14/2004	735	813		500 U
MW-24(A)	MW-24 (A)	7/22/2004	359	915		500 U
MW-26(A)	MW-26 (A)	10/17/2003	250 U	8050		500 U
MW-26(A)	MW-26 (A)	1/15/2004	250 U	24800		500 U
MW-26(A)	MW-26(A)	4/14/2004	3460	18500		500 U
MW-26(A)	MW-26 (A)	7/22/2004	3960	26000		500 U

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			ug/L	ug/L	ug/L	ug/L
MW-27(A)	MW-27(A)	10/21/2003	250 U	99		500 U
MW-27(A)	MW-27 (A)	1/14/2004	250 U	173		500 U
MW-27(A)	MW-27 (A)	4/14/2004	250 U	80 U B		500 U
MW-27(A)	MW-27 (A)	7/22/2004	250 U	80 U		500 U
MW-28(A)	MW-28 (A)	10/17/2003	2130	2060		500 U
MW-28(A)	MW-28(A)	1/19/2004	250 U	13800		500 U
MW-28(A)	MW-28(A)	4/14/2004	851	8910		500 U
MW-28(A)	MW-28 (A)	7/23/2004	1390	2240		678
MW-29(A)	MW-29(A)	10/21/2003	4120	60200		500 U
MW-29(A)	MW-29(A)	1/19/2004	250 U	62000		310 J
MW-29(A)	MW-29(A)	4/16/2004	3660	34200		500 U
MW-29(A)	MW-29 (A)	7/22/2004	3170	39800		500 U
MW-30(A)	MW-30 (A)	10/16/2003	250 U	14700		500 U
MW-30(A)	MW-30 (A)	1/16/2004	250 U	9570		500 U
MW-30(A)	MW-30 (A)	4/13/2004	250 U	8090		500 U
MW-30(A)	MW-30 (A)	7/20/2004	3730	12600		500 U
MW-31(A)	BM-31 (A)	10/16/2003	250 U	7390		500 U
MW-31(A)	MW-31 (A)	10/16/2003	250 U	7200		500 U
MW-31(A)	MW-31 (A)	1/12/2004	1100	5220		500 U
MW-31(A)	BM-31 (A)	4/13/2004	1370	4770		500 U
MW-31(A)	MW-31 (A)	4/13/2004	1420	3230		500 U
MW-31(A)	MW-31 (A)	7/20/2004	2210	6140		500 U
MW-32(A)	MW-32(A)	10/14/2003	250 U	80 U		500 U
MW-32(A)	MW-32 (A)	1/12/2004	250 U	80 U		500 U
MW-32(A)	MW-32 (A)	4/13/2004	250 U	80 U		500 U
MW-32(A)	MW-32 (A)	7/19/2004	250 U	80 U		500 U
MW-33(A)	MW-33(A)	10/14/2003	250 U	70 J		500 U
MW-33(A)	MW-33 (A)	1/12/2004	250 U	276		500 U
MW-33(A)	MW-33 (A)	4/13/2004	250 U	434		500 U
MW-33(A)	MW-33 (A)	7/19/2004	511 JB	116		198 J
MW-34(A)	MW-34(A)	10/14/2003	250 U	80 U		500 U
MW-34(A)	MW-34 (A)	1/13/2004	250 U	80 U		500 U
MW-34(A)	MW-34 (A)	4/14/2004	250 U	80 U B		500 U
MW-34(A)	MW-34 (A)	7/20/2004	250 U	80 U		500 U
MW-35(A)	MW-35 (A)	10/16/2003	250 U	80 U		500 U
MW-35(A)	MW-35 (A)	1/16/2004	250 U	80 U		500 U
MW-35(A)	MW-35 (A)	4/13/2004	250 U	80 U B		500 U
MW-35(A)	MW-35 (A)	7/20/2004	250 U B	80 U		500 U
MW-36(A)	MW-36(A)	10/21/2003	250 U	80 U		500 U
MW-36(A)	MW-36 (A)	1/14/2004	250 U	80 U		500 U
MW-36(A)	MW-36 (A)	4/14/2004	250 U	80 U B		500 U
MW-36(A)	MW-36 (A)	7/22/2004	250 U	80 U		500 U
MW-37(A)	MW-37 (A)	10/17/2003	174 J	1350		500 U
MW-38(A)	MW-38(A)	10/21/2003	250 U	80 U		500 U
MW-38(A)	MW-38 (A)	1/14/2004	250 U	80 U		500 U
MW-38(A)	MW-38 (A)	4/14/2004	250 U	80 U B		500 U

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Locator ID	Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			ug/L	ug/L	ug/L	ug/L
MW-38(A)	MW-38 (A)	7/22/2004	250 U	80 U		500 U

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Locator ID	Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			ug/L	ug/L	ug/L	ug/L
MW-39(A)	MW-39 (A)	10/16/2003	1250	518		500 U
MW-39(A)	MW-39 (A)	1/16/2004	806	291		500 U
MW-39(A)	MW-39 (A)	4/14/2004	1170	381		500 U
MW-39(A)	MW-39 (A)	7/21/2004	883	421		500 U
MW-40(A)	MW-40 (A)	10/17/2003	3660	8270		500 U
MW-40(A)	MW-40(A)	1/20/2004	9380	31400		598
MW-40(A)	MW-40(A)	4/16/2004	8360	41600		689
MW-41(A)	MW-41(A)	10/14/2003	4700	7700		319 J
MW-42(A)	MW-42 (A)	10/15/2003	5740	18900		2500 U
MW-43(A)	MW-43(A)	10/13/2003	1000	80 U		500 U
MW-43(A)	MW-43 (A)	1/12/2004	633	80 U		500 U
MW-43(A)	MW-43 (A)	4/13/2004	1050	80 U B		500 U
MW-43(A)	MW-43 (A)	7/21/2004	1980	80 U		191 J
MW-44(A)	MW-44 (A)	10/17/2003	5780	67700		500 U
MW-45(A)	MW-45 (A)	10/16/2003	250 U	80 U		500 U
MW-45(A)	MW-45 (A)	1/16/2004	250 U	80 U		500 U
MW-45(A)	MW-45 (A)	4/14/2004	250 U	80 U B		500 U
MW-45(A)	MW-45 (A)	7/21/2004	250 U	80 U		500 U
MW-46(A)	MW-46(A)	10/14/2003	250 U	80 U		500 U
MW-46(A)	MW-46(A)	1/14/2004	250 U	80 U		500 U
MW-46(A)	MW-46 (A)	4/12/2004	179 J	28.3		500 U
MW-46(A)	MW-46 (A)	7/21/2004	250 U B	80 U		500 U
MW-47(A)	MW-47(A)	10/13/2003	250 U	80 U		500 U
MW-47(A)	MW-47 (A)	1/14/2004	250 U	54.3		500 U
MW-47(A)	MW-47 (A)	4/12/2004	207 J	6.85		500 U
MW-47(A)	MW-47 (A)	7/21/2004	250 U B	80 U		500 U
MW-48(A)	MW-48(A)	10/14/2003	250 U	80 U		500 U
MW-48(A)	MW-48 (A)	1/14/2004	250 U	80 U		500 U
MW-48(A)	MW-48 (A)	4/12/2004	250 U	22.7		500 U
MW-48(A)	MW-48 (A)	7/21/2004	250 U B	80 U		500 U
R-1(M)	R-1(M)	10/22/2003	250 U	80 U		500 U
TW-100(C)	SB100(C)W	8/22/2002	250 U	80 U		500 U
TW-103(C)	SB103(C)W	8/22/2002	250 U	80 U		500 U
TW-104(C)	SB104(C)W	8/22/2002	250 U	80 U		500 U
TW-200(C)	SB200(C)W	8/22/2002	250 U	80 U		500 U
TW-201(C)	SB201(C)W	8/22/2002	250 U	80 U		500 U
TW-202(C)	SB202(C)W	8/22/2002	250 U	80 U		500 U
TW-203(C)	SB203(C)W	8/22/2002	471	158		500 U
TW-204(C)	SB204(C)W	8/22/2002	250 U	80 U		500 U
TW-204(C)	SB204(C)W2	8/22/2002	250 U	80 U		500 U

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			ug/L	ug/L	ug/L	ug/L
TW-400(F)	TW-400(F)	8/22/2002	250 U	80 U		500 U
TW-401(F)	TW-401(F)	8/23/2002	250 U	80 U		500 U
TW-402(F)	TW-402(F)	8/23/2002	250 U	80 U		500 U
TW-405(F)	TW-405(F)	8/22/2002	250 U	675		500 U
TW-406(F)	TW-406(F)	8/22/2002	250 U	5380		500 U
TW-407(F)	TW-407(F)	8/22/2002	250 U	1660		500 U
TW-408(F)	TW-408(F)	8/22/2002	367	182		500 U
TW-409(F)	TW-409(F)	8/22/2002	250 U	80 U		500 U
TW-600(N)	TW-600(N)	9/13/2002	Not Present	Present		Not Present
TW-601(N)	TW-601(N)	9/13/2002	Not Present	Present		Not Present
TW-602(N)	BT-602(N)	9/13/2002	Not Present	Not Present		Not Present
TW-602(N)	TW-602(N)	9/13/2002	Not Present	Not Present		Not Present
TW-603(N)	TW-603(N)	9/13/2002	Not Present	Not Present		Not Present
TW-608(N)	TW-608 (N)	9/13/2002	Not Present	Not Present		Not Present
TW-612(N)	TW-612(N)	9/12/2002	4700	9340		500 U
TW-616(N)	TW-616(N)	9/12/2002	250 U	80 U		500 U
TW-619(N)	TW-619(N)	9/12/2002	250 U	1560		500 U
TW-623(N)	TW-623(N)	9/12/2002	250 U	2280		500 U
TW-624(N)	TW-624(N)	9/12/2002	Not Present	Not Present		Not Present
TW-625(N)	BT-625(N)	9/12/2002	250 U	80 U		500 U
TW-625(N)	TW-625(N)	9/12/2002	250 U	80 U		500 U
TW-800(Q)	TW-800(Q)-10.5	8/27/2002	250 U	80 U		500 U
TW-801(Q)	TW801(Q)-10	8/26/2002	250 U	80 U		500 U
TW-803(Q)	TW-803(Q)-9	8/26/2002	250 U	80 U		500 U
TW-805(Q)	TW-805(Q)-10	8/26/2002	250 U	119		500 U
TW-806(Q)	TW-806 (Q)-11	8/28/2002	250 U	401	500 U	
TW-810(Q)	TW-810 (Q)-8	8/28/2002	303	80 U	500 U	
TW-814(Q)	TW814(Q)9	8/27/2002	286 U	80 U		571 U
TW-816(Q)	TW-816(Q)-12	8/27/2002	250 U	80 U		500 U
TW-818(Q)	TW-818 (Q)-11	8/28/2002	250 U	80 U	500 U	
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002	309	410	500 U	
TW-819(Q)	TW-819 (Q)-9.5C	8/28/2002	340	718	500 U	
TW-820(Q)	TW-820 (Q)-10	8/29/2002	250 U	439	500 U	
TW-822(Q)	TW-822 (Q)-9	8/29/2002	335	2740 J	500 U	
TW-824(Q)	TW-824(Q)-9	8/28/2002	250 U	80 U		500 U
TW-825(Q)	TW-825(Q)-8.5	8/27/2002	294 U	80 U		588 U
TW-826(Q)	TW-826(Q)-9	8/27/2002	312 U	80 U		625 U
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002	250 U	80 U	500 U	
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002	429	80 U	500 U	
TW-833(Q)	TW-833 (Q)-10.5	8/28/2002	480	80 U	500 U	
TW-833(Q)	TW-833 (Q)-11C	8/28/2002	250 U		500 U	
TW-900(S)	SB-900(TW)	8/26/2002	250 U			500 U
TW-903(S)	SB-903(TW)	8/26/2002	6660			1000 U
TW-904(S)	SB-904(TW)	8/26/2002	758			500 U
TW-905(S)	SB-905(TW)	8/26/2002	1440			500 U
TW-906(S)	SB-906(TW)	8/27/2002	2630			500 U
TW-908(S)	SB-908(TW)	8/27/2002	688			624
TW-909(S)	SB-909(TW)	8/27/2002	250 U			500 U
TW-910(S)	SB-910(TW)	8/26/2002	3520			500 U
TW-911(S)	SB-911(TW)	8/27/2002	9040			500 U