

TABLE D-1
SOIL ANALYTICAL DATA - HCID

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

LOCATOR ID	SAMPLE DATE	DEPTH	Diesel Fuel	Gasoline	OIL
			mg/kg	mg/kg	mg/kg
1(C)	7/17/1992	-	Present	20 U	Present
1086(J)	7/22/1998	-	50 U	Present	100 U
10KN.End(P)	3/31/1993	-	Present		
10KN.End(P)	3/31/1993	-		20 U	
10KS.End(P)	3/31/1993	-	50 U		
10KS.End(P)	3/31/1993	-		20 U	
1E(D)	9/30/1996	-	50 U	20 U	100 U
1K-BottomE(P)	4/2/1993	-	Present		
1K-BottomE(P)	4/2/1993	-		Present	
1K-BottomW(P)	4/2/1993	-	Present		
1K-BottomW(P)	4/2/1993	-	Present		
1K-BottomW(P)	4/2/1993	-		Present	
1K-BottomW(P)	4/2/1993	-		Present	
1W(D)	9/30/1996	-	50 U	20 U	100 U
2(C)	7/17/1992	-	50 U	20 U	100 U
2E(D)	9/30/1996	-	50 U	20 U	100 U
2W(D)	9/30/1996	-	50 U	20 U	100 U
3(C)	7/17/1992	-	50 U	20 U	Present
3E(D)	9/30/1996	-	50 U	20 U	100 U
3W(D)	9/30/1996	-	50 U	20 U	100 U
4E(D)	9/30/1996	-	50 U	20 U	100 U
4W(D)	9/30/1996	-	50 U	20 U	100 U
5E(D)	9/30/1996	-	50 U	20 U	100 U
5W(D)	9/30/1996	-	50 U	20 U	100 U
B-1(P)	5/11/1993	-	50 U	20 U	100 U
B-1(P)	6/2/1993	-		20 U	50 U
B-1(P)	6/2/1993	-			100 U
B10(F)	12/3/1991	-	Present	Present	Present
B10(F)	12/3/1991	-	Present	Present	Present

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SOIL ANALYTICAL DATA - HCID

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Astoria, Oregon

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B10(F)	12/3/1991	-	50 U	20 U	100 U
B10(F)	12/4/1991	-	50 U	20 U	100 U
B10(F)	12/4/1991	-	50 U	20 U	100 U
B10(F)	12/3/1991	-	Present	Present	Present
B11(F)	12/3/1991	-	50 U	20 U	100 U
B11(F)	12/3/1991	-	50 U	20 U	100 U
B11(F)	12/3/1991	-	50 U	20 U	100 U
B11(F)	12/3/1991	-	50 U		100 U
B11(F)	12/3/1991	-		20 U	
B11(F)	12/3/1991	-	50 U	20 U	100 U
B11(F)	12/3/1991	-	50 U	20 U	Present
B11(F)	12/3/1991	-	50 U	20 U	100 U
B11(F)	12/3/1991	-	500 U	200 U	Present
B-2(P)	5/11/1993	-	50 U	20 U	100 U
B-3(P)	5/11/1993	-	Present	20 U	100 U
B-4(P)	6/2/1993	-	50 U	20 U	100 U
B-5(P)	6/2/1993	-	50 U	20 U	
B-5(P)	6/2/1993	-			100 U
Boring#1(Q)	8/7/1997	4	50 U	20 U	Present
Boring#1(Q)	8/7/1997	7	50 U	20 U	Present
Boring#1-A(Q)	8/7/1997	4	50 U	20 U	Present
Boring#1-A(Q)	8/7/1997	7	50 U	20 U	Present
Boring#1-B(Q)	8/7/1997	4	50 U	20 U	Present
Boring#1-B(Q)	8/7/1997	7	50 U	20 U	100 U
Boring#1-C(Q)	8/7/1997	4	50 U	20 U	100 U
Boring#1-C(Q)	8/7/1997	8	50 U	20 U	100 U
Boring#1-D(Q)	8/8/1997	6	50 U	20 U	100 U
Boring#1-D(Q)	8/8/1997	8	50 U	20 U	100 U
Boring#1-D(Q)	8/8/1997	8.5	50 U	20 U	Present
Boring#2(Q)	8/8/1997	4	50 U	20 U	100 U

TABLE D-1
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Astoria Area-Wide Petroleum Site
Astoria, Oregon

LOCATOR ID	SAMPLE DATE	DEPTH	Diesel Fuel	Gasoline	OIL
Boring#2(Q)	8/8/1997	8	50 U	20 U	100 U
Boring#2(Q)	8/8/1997	12	50 U	20 U	100 U
Boring#2(Q)	8/8/1997	16	50 U	20 U	100 U
Boring#2(Q)	8/8/1997	4	50 U	Present	100 U
Boring#3(Q)	8/8/1997	3.5	50 U	20 U	100 U
Boring#4(Q)	8/8/1997	3.5	50 U	20 U	100 U
Boring#5(Q)	8/8/1997	3.5	50 U	20 U	100 U
Boring#6(Q)	8/8/1997	3.5	50 U	20 U	Present
Boring#7(Q)	8/7/1997	1.5	50 U	20 U	100 U
BoringB(Q)	8/7/1997	4	50 U	20 U	100 U
BoringB(Q)	8/8/1997	8	50 U		100 U
BoringB(Q)	8/8/1997	8	50 U	20 U	100 U
DEQ1(A)	8/9/1996	6.4	50 U	20 U	
DEQ2(A)	8/9/1996	9	50 U	20 U	
DEQ3(A)	8/9/1996	8	50 U	Present	
DEQ4(A)	8/9/1996	7.5	50 U	20 U	
DEQ5(A)	8/9/1996	6.5	50 U	Present	
DEQ6(A)	8/9/1996	7.5	50 U	20 U	
DEQ7(A)	8/9/1996	8.3	50 U	20 U	
DEQ8(A)	8/9/1996	8	50 U	20 U	
GP2(J)	11/24/1999	-		Present	
HA1(F)	11/4/1991	8	Present	Present	
HA1(F)	11/4/1991	8	50 U	20 U	
HA3(F)	11/4/1991	8	50 U	20 U	
LF-1(C)	8/11/1992	-	50 U	20 U	100 U
LF-2(C)	8/11/1992	-	50 U	20 U	100 U
LF-3(C)	8/11/1992	-	50 U	20 U	100 U
LF-4(C)	8/11/1992	-	50 U	20 U	100 U
MW-1(C)	5/13/1991	5.5	20 U	20 U	20 U
MW-1(C)	5/13/1991	10.5	20 U	20 U	20 U

TABLE D-1
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MW-2(C)	5/13/1991	15.5	20 U	20 U	20 U
MW-2(C)	5/13/1991	25.5	20 U	20 U	20 U
MW-2(C)	5/13/1991	10.5	20 U	20 U	20 U
MW-3(C)	5/13/1991	5.5	20 U	20 U	20 U
MW-3(C)	5/13/1991	10.5	20 U	20 U	20 U
MW-4(C)	5/13/1991	5.5	20 U	20 U	20 U
MW-4(C)	5/13/1991	10.5	20 U	20 U	20 U
MW-5(C)	5/15/1991	5.5	20 U	20 U	20 U
MW-5(C)	5/15/1991	10.5	20 U	Present	20 U
OEX1(F)	8/10/1994	26	50 U	20 U	100 U
OEX1(F)	8/10/1994	26			100 U
OEX2(F)	8/10/1994	26	50 U	20 U	100 U
OEX3(F)	8/10/1994	26	50 U	20 U	100 U
OEX4(F)	8/10/1994	26	50 U	20 U	100 U
OEX5(F)	8/10/1994	26	50 U	20 U	100 U
Port2(P)	6/14/1993	-	Present	20 U	100 U
Port3(P)	6/14/1993	-	Present	20 U	100 U
S-1(C)	1/10/1992	10	20 U	20 U	20 U
S-1(C)	4/7/1992	-	20 U	20 U	Present
S-1(P)	5/11/1993	-	50 U	20 U	100 U
S-10(C)	1/13/1992	-	20 U	20 U	20 U
S-11(C)	1/16/1992	-	20 U	Present	20 U
S-12(C)	1/16/1992	-	20 U	20 U	20 U
S-13(C)	1/16/1992	-	20 U	20 U	20 U
S-14(C)	1/16/1992	-	20 U	20 U	20 U
S-15(C)	1/16/1992	-	20 U	20 U	20 U
S-16(C)	1/16/1992	-	20 U	20 U	20 U
S-2(C)	1/10/1992	10	20 U	20 U	20 U
S-2(P)	5/11/1993	-	50 U	20 U	100 U
S-3(C)	1/10/1992	10	20 U	20 U	20 U

TABLE D-1
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S-3(P)	5/11/1993	-	Present	20 U	100 U
S-4(C)	1/10/1992	10	20 U	20 U	20 U
S-5(C)	1/10/1992	9.5	20 U	20 U	20 U
S-6(C)	1/10/1992	9.5	20 U	20 U	20 U
S-7(C)	1/10/1992	-	20 U	20 U	20 U
S-8(C)	1/10/1992	-	20 U	20 U	20 U
SP-16(M)	10/1/1996	7	50 U	20 U	100 U
SP-20(M)	10/1/1996	7	50 U	20 U	100 U
Stockpile(P)	3/31/1993	-	Present	20 U	
Stockpile(P)	3/31/1993	-	Present		
Stockpile(P)	3/31/1993	-		20 U	
SUMP(C)	4/7/1992	4	20 U	20 U	20 U
TP1(F)	11/4/1991	8	Present	Present	
TP2(F)	11/5/1991	10	Present	Present	
TP3(F)	11/5/1991	10	Present	Present	
TP4(F)	11/5/1991	10	50 U	20 U	
TP4(F)	11/5/1991	3		20 U	
TP5(F)	11/5/1991	11	50 U	20 U	
TP6(F)	11/5/1991	11	50 U	20 U	
TP7(F)	11/5/1991	11	50 U	Present	
US-37(Q)	10/14/1997	12	50 U	Present	100 U
US-37(Q)	10/14/1997	6	50 U	20 U	100 U
US-37(Q)	10/14/1997	7	50 U	20 U	100 U
US-37(Q)	10/14/1997	8	50 U	Present	100 U
US-38(Q)	10/15/1997	6	50 U	20 U	100 U
US-39(Q)	10/15/1997	6	50 U	20 U	100 U
US-40(Q)	10/15/1997	11	50 U	20 U	100 U
US-40(Q)	10/15/1997	8	50 U	20 U	Present
US-41(Q)	10/15/1997	10	50 U	Present	100 U
US-41(Q)	10/15/1997	12	50 U	20 U	100 U

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US-41(Q)	10/15/1997	5	50 U	20 U	100 U
US-41(Q)	10/15/1997	6	50 U	20 U	100 U
US-42(Q)	10/15/1997	10	50 U	20 U	100 U
US-42(Q)	10/15/1997	12	50 U	20 U	100 U
US-42(Q)	10/15/1997	5	50 U	20 U	100 U
US-42(Q)	10/15/1997	6	50 U	20 U	100 U
US-43(Q)	10/16/1997	12	50 U	20 U	100 U
US-43(Q)	10/16/1997	8	50 U	20 U	Present
US-44(Q)	10/15/1997	6	50 U	20 U	100 U
US-45(Q)	10/15/1997	6	50 U	20 U	100 U
US-46(Q)	10/16/1997	6	50 U	20 U	100 U
US-46(Q)	10/16/1997	9	50 U	20 U	100 U
US-47(Q)	10/16/1997	6	50 U	Present	100 U
US-47(Q)	10/16/1997	7	50 U	Present	100 U
US-47(Q)	10/16/1997	7	50 U		
US-47(Q)	10/16/1997	9		Present	
US-48(Q)	10/16/1997	12	50 U	Present	100 U
US-48(Q)	10/16/1997	4	50 U	20 U	100 U
US-48(Q)	10/16/1997	5	50 U	Present	100 U
US-48(Q)	10/16/1997	7	50 U	Present	100 U
W0(D)	9/30/1996	-	50 U	20 U	100 U

TABLE D-2
SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Hydrocarbon mg/kg	Total Petroleum Hydrocarbons (TPH) mg/kg	Diesel Fuel (TPHD) mg/kg	Fuel Oils mg/L	Gasoline (TPHG) mg/kg	Lube Oil mg/kg
1(C)	7/17/1992	-		161				
1086(J)	7/22/1998	-					275	
10KN.End(P)	3/31/1993	-			297			
1K-BottomE(P)	4/2/1993	-			3450		2900	
1K-BottomW(P)	4/2/1993	-			3300		4700	
3(C)	7/17/1992	-		452				
AstoriaComposite(P)	7/28/1993	-			160			
AstoriaComposite(P)	7/28/1993	-			210			
B1(C)	5/23/1990	-		11				
B1(C)	5/23/1990	-		10				
B10(F)	12/3/1991	-		130			1500	
B10(F)	12/3/1991	-		98			170	
B10(F)	12/3/1991	-		U			1400	
B11(F)	12/3/1991	-		20				
B11(F)	12/3/1991	-		4200				
B12(F)	12/4/1991	-					1600	
B2(C)	5/23/1990	-		112		10 U		
B2(C)	5/23/1990	-		21				
B3(C)	5/23/1990	-		9				
B3(C)	5/23/1990	-		9				
B4(C)	5/23/1990	-		462		10 U		
B4(C)	5/24/1990	-		11				
B5(C)	5/24/1990	-		167		10 U		
B5(C)	5/24/1990	-		9				
B6(F)	11/28/1990	-	23000					
B6(F)	11/28/1990	-	1700					
B-6(P)	6/14/1993	-			250			

TABLE D-2
SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Hydrocarbon mg/kg	Total Petroleum Hydrocarbons (TPH) mg/kg	Diesel Fuel (TPHD) mg/kg	Fuel Oils mg/L	Gasoline (TPHG) mg/kg	Lube Oil mg/kg
B7(F)	11/28/1990	-	100					
B7(F)	11/28/1990	-	3500					
B7(F)	11/28/1990	-	2300					
B-7(P)	6/14/1993	-			530			
Boring#1(Q)	8/7/1997	4		140				
Boring#1(Q)	8/7/1997	7		230				
Boring#1-A(Q)	8/7/1997	4		230				
Boring#1-A(Q)	8/7/1997	7		260				
Boring#1-B(Q)	8/7/1997	4		140				
Boring#1-D(Q)	8/8/1997	8.5		270				
Boring#2(Q)	8/8/1997	4					12000	
Boring#6(Q)	8/8/1997	3.5		170				
BoringA(A)	10/16/1997	-					23000	
BoringA(A)	10/16/1997	-					700	
BoringA(A)	10/16/1997	-					3800	
CB-1(C)	8/24/1992	-					10 U	
CB-2(C)	8/24/1992	-					10 U	
CB-3(C)	8/24/1992	-					10 U	
DEQ1(A)	8/9/1996	8.6			6100		8300	
DEQ3(A)	8/9/1996	8					2600	
DEQ5(A)	8/9/1996	6.5					3200	
GP1(J)	11/24/1999	-			50 U		20 U	100 U
GP2(J)	11/24/1999	-			50 U		259	100 U
GP3(J)	11/24/1999	-			50 U		20 U	
GP4(J)	11/24/1999	-			50 U		20 U	100 U
GP5(J)	11/24/1999	-			50 U			100 U

TABLE D-2
SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

LOCATOR ID	SAMPLE DATE	DEPTH	Hydrocarbon mg/kg	Total Petroleum Hydrocarbons (TPH) mg/kg	Diesel Fuel (TPHD) mg/kg	Fuel Oils mg/L	Gasoline (TPHG) mg/kg	Lube Oil mg/kg
GP5(J)	11/24/1999	-					20 U	
GP6(J)	11/24/1999	-			50 U			100 U
GP6(J)	11/24/1999	-					20 U	
HA1(F)	11/4/1991	8		28			250	
HA-12690(F)	12/6/1990	-		2300				
Hole1(Q)	11/25/1997	-					5 U	
Hole2(Q)	11/25/1997	-					5 U	
Hole3(Q)	11/25/1997	-					5 U	
Hole4(Q)	11/25/1997	-					5 U	
Hole5(Q)	11/25/1997	-					5 U	
Hole6(Q)	11/25/1997	-					5 U	
Hole7(Q)	11/25/1997	-					5 U	
Hole8(Q)	11/25/1997	-					13	
Hole9(Q)	11/25/1997	-					5 U	
L1985(A)	6/9/1997	-					68	
L3524(A)	6/9/1997	-					50 U	
L3532(A)	6/9/1997	-					22000	
LF-5(C)	8/24/1992	-					10 U	
LF-6(C)	8/24/1992	-					10 U	
LF-7(C)	8/24/1992	-					10 U	
MW-1(F)	12/7/1990	-		10 U				
MW-1(F)	12/7/1990	-		26				
MW-1(F)	12/7/1990	-		14				
MW-1(F)	12/7/1990	-		12				
MW-1(F)	12/7/1990	-	10 U	940				
MW-2(F)	12/9/1990	-		10 U				

TABLE D-2
SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Hydrocarbon mg/kg	Total Petroleum Hydrocarbons (TPH) mg/kg	Diesel Fuel (TPHD) mg/kg	Fuel Oils mg/L	Gasoline (TPHG) mg/kg	Lube Oil mg/kg
MW-2(F)	12/9/1990	-		10 U				
MW-3(F)	11/28/1990	-	630					
MW-3(F)	11/28/1990	-	1200					
MW-3(F)	11/28/1990	-	2800					
MW-4(F)	12/2/1991	11		190				
MW-4(F)	12/2/1991	11					10 U	
MW-4(F)	12/2/1991	16		710				
MW-4(F)	12/2/1991	5		12000				
MW-5(C)	5/15/1991	10.5					350	
MW-5(C)	5/13/1991	5			46			
MW-6(C)	5/14/1993	11.5					5 U	
Port2(P)	6/14/1993	-			400			
Port3(P)	6/14/1993	-			250			
Port3(P)	6/14/1993	-			230			
RW-1(F)	12/5/1990	-		10 U				
RW-2(F)	12/8/1990	-		10 U				
RW-2(F)	12/8/1990	-		10 U				
RW-2(F)	12/8/1990	-	4900					
RW-2(F)	12/8/1990	-		1600				
RW-2(F)	12/8/1990	-	10 U	10 U				
RW-2(F)	12/8/1990	-		10 U				
S-1(C)	4/7/1992	-		287				
S-10(P)	6/23/1993	-			83			
S-11(C)	1/16/1992	-					72	
S-11(P)	6/23/1993	-			20			
S-12(P)	6/23/1993	-			430			

TABLE D-2
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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

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S-13(P)	6/23/1993	-			430			
S-18(C)	2/7/1992	-					1400	
S-8(P)	6/23/1993	-			20			
S-9(P)	6/23/1993	-			20			
S-9(P)	6/23/1993	-			20			
SB-1(N)	1/16/1997	4			10 U		10 U	50 U
SB-2(N)	1/16/1997	4					10 U	
SB-2(N)	1/16/1997	8			130		10 U	222
SB-3(N)	1/16/1997	8			431		97	50 U
SB-4(N)	1/16/1997	4			10 U		43	50 U
SB-5(N)	1/16/1997	4			10 U		10 U	50 U
SB-5(N)	1/16/1997	8			2000		2500	50 U
SB-6(N)	1/16/1997	4			3100		550	269
SB-6(N)	1/16/1997	8			100		10 U	59
Sol.Blank(A)	6/9/1997	-					50 U	
SP-1(M)	9/30/1996	2.5		3700	5100			10000
SP-1(M)	9/30/1996	7		20 U	25 U			50 U
SP-1(P)	8/9/1993	-			250			
SP-10(M)	9/30/1996	3			25 U			50 U
SP-11(M)	10/1/1996	3			25 U			50 U
SP-13(M)	10/1/1996	3			25 U			50 U
SP-13(M)	10/1/1996	7			25 U			50 U
SP-14(M)	10/1/1996	7			25 U			50 U
SP-15(M)	10/1/1996	7		20 U	25 U			50 U
SP-16(M)	10/1/1996	3			25 U			50 U
SP-16(M)	10/1/1996	7			25 U			50 U

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Astoria, Oregon

LOCATOR ID	SAMPLE DATE	DEPTH	Hydrocarbon mg/kg	Total Petroleum Hydrocarbons (TPH) mg/kg	Diesel Fuel (TPHD) mg/kg	Fuel Oils mg/L	Gasoline (TPHG) mg/kg	Lube Oil mg/kg
SP-17(M)	10/1/1996	7			25 U			50 U
SP-18(M)	10/1/1996	7			25 U			50 U
SP-19(M)	10/1/1996	5			25 U			50 U
SP-2(M)	9/30/1996	3			25 U			50 U
SP-2(P)	8/9/1993	-		190				
SP-2(P)	8/9/1993	-		180				
SP-2(P)	8/9/1993	-			200			
SP-2(P)	8/9/1993	-			260			
SP-20(M)	10/1/1996	3		20 U	25 U			50 U
SP-20(M)	10/1/1996	7		20 U	25 U			50 U
SP-21(M)	10/2/1996	3			25 U			50 U
SP-22(M)	10/1/1996	3		20 U	25 U			50 U
SP-23(M)	10/2/1996	3			25 U			50 U
SP-24(M)	10/2/1996	3		20 U	25 U			50 U
SP-24(M)	10/2/1996	7			25 U			50 U
SP-3(M)	9/30/1996	3		77	150			93
SP-3(P)	8/9/1993	-			270			
SP-4(M)	9/30/1996	3			25 U			60
SP-5(M)	9/30/1996	3			25 U			
SP-6(M)	9/30/1996	3			25 U			50 U
SP-6(M)	9/30/1996	7			25 U			50 U
SP-7(M)	9/30/1996	3		20 U	25 U			50 U
SP-7(M)	9/30/1996	-						50 U
SP-7(M)	9/30/1996	7			25 U			
SP-8(M)	10/1/1996	3			25 U			50 U
SP-9(M)	10/1/1996	3			25 U			50 U

TABLE D-2
SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Hydrocarbon mg/kg	Total Petroleum Hydrocarbons (TPH) mg/kg	Diesel Fuel (TPHD) mg/kg	Fuel Oils mg/L	Gasoline (TPHG) mg/kg	Lube Oil mg/kg
SP-9(M)	10/1/1996	7			25 U			50 U
SP-MW-1234(C)	5/13/1991	-			47			
SpoilsComposite(P)	6/14/1993	-			1100		130	
SpoilsComposite(P)	6/14/1993	-			1600			
SpoilsComposite(P)	6/14/1993	-					190	
SS#1(F)	7/26/1993	30			15 U			
SS#1(F)	12/9/1993	-					2 U	
SS#1(F)	9/14/1993	-					3	
SS#1(F)	9/14/1993	-					2 U	
SS#1(F)	7/12/1994	-			25 U			
SS#10(F)	8/3/1993	-					2 U	
SS#10(F)	12/9/1993	-					2 U	
SS#10(F)	9/14/1993	-					13	
SS#11(F)	8/3/1993	30					33	
SS#11(F)	9/14/1993	-					2 U	
SS#12(F)	8/3/1993	30					13	
SS#12(F)	9/14/1993	-					2 U	
SS#13(F)	8/4/1994	20		1100				
SS#13(F)	9/14/1993	-					2 U	
SS#14(F)	8/16/1993	30					19	
SS#14(F)	9/14/1993	-					2 U	
SS#15(F)	8/16/1993	33					11	
SS#15(F)	9/14/1993	-					2 U	
SS#16(F)	9/14/1993	-					2 U	
SS#17(F)	8/17/1993	30					2 U	
SS#17(F)	9/14/1993	-					2 U	

TABLE D-2
SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Hydrocarbon mg/kg	Total Petroleum Hydrocarbons (TPH) mg/kg	Diesel Fuel (TPHD) mg/kg	Fuel Oils mg/L	Gasoline (TPHG) mg/kg	Lube Oil mg/kg
SS#18(F)	8/17/1993	28					2 U	
SS#18(F)	9/14/1993	-					2 U	
SS#19(F)	8/17/1993	10					2 U	
SS#19(F)	9/14/1993	-					10	
SS#2(F)	7/26/1993	30			15 U			
SS#2(F)	12/9/1993	-					2 U	
SS#2(F)	9/14/1993	-					5	
SS#2(F)	9/14/1993	-					2 U	
SS#2(F)	7/12/1994	20			43			
SS#20(F)	9/14/1993	-					3	
SS#21(F)	9/14/1993	-					5	
SS#22(F)	9/14/1993	-					2 U	
SS#23(F)	9/14/1993	-					2 U	
SS#24(F)	9/14/1993	-					2 U	
SS#25(F)	9/14/1993	-					2 U	
SS#26(F)	9/14/1993	-					2 U	
SS#3(F)	7/26/1993	30			15 U			
SS#3(F)	12/9/1993	-					8	
SS#3(F)	9/14/1993	-					2 U	
SS#3(F)	7/12/1994	-			403			
SS#4(F)	7/28/1993	26					2 U	
SS#4(F)	12/9/1993	-					3	
SS#4(F)	9/14/1993	-					2 U	
SS#4(F)	7/14/1994	-			210			
SS#5(F)	7/28/1993	26					4	
SS#5(F)	12/9/1993	-					2 U	

TABLE D-2
SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Hydrocarbon	Total Petroleum Hydrocarbons (TPH)	Diesel Fuel (TPHD)	Fuel Oils	Gasoline (TPHG)	Lube Oil
			mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg
SS#5(F)	9/14/1993	-					2 U	
SS#5(F)	7/14/1994	-			172			
SS#6(F)	7/28/1993	26					2100	
SS#6(F)	12/9/1993	-					2 U	
SS#6(F)	9/14/1993	-					2 U	
SS#6(F)	7/14/1994	-			272			
SS#7(F)	12/9/1993	-					2 U	
SS#7(F)	9/14/1993	-					2 U	
SS#7(F)	7/14/1994	-			195			
SS#8(F)	8/2/1993	30					2 U	
SS#8(F)	12/9/1993	-					22	
SS#8(F)	9/14/1993	-					2 U	
SS#8(F)	7/14/1994	-			207			
SS#9(F)	8/3/1993	-					97	
SS#9(F)	12/9/1993	-					2 U	
SS#9(F)	9/14/1993	-					2 U	
SS#9(F)	7/14/1994	-			173			
Stockpile(P)	3/31/1993	-			1040			
Tank1(N)	10/18/1999	-					240	
Tank1(N)	10/18/1999	-					36	
Tank2(N)	10/18/1999	-					20000	
Tank2(N)	10/18/1999	-					20 U	
TB8(C)	4/6/1992	10					22	
TB8(C)	4/6/1992	6					10 U	
TB9(C)	4/6/1992	8					10 U	
TestPitSoilsBehindDieselTanks(A)	12/3/1990	-			27			

TABLE D-2
SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Hydrocarbon mg/kg	Total Petroleum Hydrocarbons (TPH) mg/kg	Diesel Fuel (TPHD) mg/kg	Fuel Oils mg/L	Gasoline (TPHG) mg/kg	Lube Oil mg/kg
TP1(C)	4/6/1992	12					10 U	
TP1(C)	4/6/1992	4					248	
TP1(F)	11/5/1991	4		5 U			690	
TP1(F)	11/4/1991	8		7			1100	
TP2(C)	4/6/1992	13					1910	
TP2(C)	4/6/1992	8					10000	
TP2(F)	11/5/1991	10		9			44	
TP2(F)	11/5/1991	4		6			500	
TP3(C)	4/6/1992	13					10 U	
TP3(C)	4/6/1992	8.5					10 U	
TP3(F)	11/5/1991	10		19			310	
TP4(C)	4/6/1992	13					10 U	
TP5(C)	4/6/1992	12.5					10 U	
TP5(C)	4/6/1992	9					10 U	
TP7(C)	4/6/1992	11					10 U	
US-37(Q)	10/14/1997	12					1500	
US-37(Q)	10/14/1997	8					820	
US-40(Q)	10/15/1997	8		60				
US-41(Q)	10/15/1997	10					690	
US-43(Q)	10/16/1997	8		130				
US-47(Q)	10/16/1997	6					12	
US-47(Q)	10/16/1997	7					69	
US-47(Q)	10/16/1997	9					2100	
US-48(Q)	10/16/1997	12					740	
US-48(Q)	10/16/1997	5					8200	
US-48(Q)	10/16/1997	7					1300	

TABLE D-2
SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Hydrocarbon mg/kg	Total Petroleum Hydrocarbons (TPH) mg/kg	Diesel Fuel (TPHD) mg/kg	Fuel Oils mg/L	Gasoline (TPHG) mg/kg	Lube Oil mg/kg
USW-31(Q)	10/7/1997	4					7400	
USW-32(Q)	10/7/1997	6					98	
USW-33(Q)	10/7/1997	4					180	
USW-34(Q)	10/7/1997	6					660	
USW-35(Q)	10/7/1997	4					9300	
USW-36(Q)	10/7/1997	6					3100	
WS1(F)	8/3/1993	-					4700	
X7500(A)	6/9/1997	-					U	

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	1,1,1,2-Tetrachloroethane mg/kg	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,1-Dichloropropene mg/kg	1,2-Trichlorol mg/
AOSI-001(AO)	2/22/1986	-		U	U	U	U	U		
AOSI-002(AO)	2/22/1986	-		U	U	U	U	U		
AOSI-003(AO)	2/22/1986	-		U	U	U	U	U		
AOSI-004(AO)	2/22/1986	-		U		U	U	U		
AOSI-004(AO)	2/22/1986	-			U					
AOSI-005(AO)	2/22/1986	-		U	U	U	U	U		
B1(C)	5/23/1990	-								
B2(C)	5/23/1990	-								
B3(C)	5/23/1990	-								
B4(C)	5/24/1990	-								
B5(C)	5/24/1990	-								
B6(F)	12/28/1990	-								
B6(F)	11/28/1990	-								
B6(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
GP1(J)	11/24/1999	-								
GP2(J)	11/24/1999	-								
GP3(J)	11/24/1999	-								
GP4(J)	11/24/1999	-								
GP5(J)	11/24/1999	-								
GP6(J)	11/24/1999	-								
HA1(F)	11/4/1991	8								
HA-12690(F)	12/6/1990	-								
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	1,1,1,2-Tetrachloroethane mg/kg	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,1-Dichloropropene mg/kg	1,2-Trichloroethane mg/kg
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								
MW-2(F)	12/9/1990	-								
MW-2(F)	12/9/1990	-								
MW-2(F)	12/9/1990	-								
MW-3(F)	11/28/1990	-								
MW-3(F)	11/28/1990	-								
MW-3(F)	11/28/1990	-								
MW-5(C)	5/13/1991	5								
RW-1(F)	12/5/1990	-								
RW-2(F)	12/8/1990	-								
S-1(C)	1/10/1992	10								
S-18(C)	2/7/1992	-								
S-2(C)	1/10/1992	10								
S-3(C)	1/10/1992	10								
S-4(C)	1/10/1992	10								
S-4(C)	1/16/1992	-								
SB-1(N)	1/16/1997	4								
SB-2(N)	1/16/1997	4								
SB-2(N)	1/16/1997	8								
SB-3(N)	1/16/1997	8								
SB-4(N)	1/16/1997	4								
SB-5(N)	1/16/1997	4								
SB-5(N)	1/16/1997	8								
SB-6(N)	1/16/1997	4								

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	1,1,1,2-Tetrachloroethane mg/kg	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,1-Dichloropropene mg/kg	1,2-Trichlorol mg/kg
SB-6(N)	1/16/1997	8								
SP-1(M)	9/30/1996	2.5								
SP-1(M)	9/30/1996	7								
SP-10(M)	9/30/1996	3								
SP-13(M)	10/1/1996	7								
SP-15(M)	10/1/1996	7								
SP-20(M)	10/1/1996	7								
SP-3(M)	9/30/1996	3								
SP-MW-1234(C)	5/13/1991	-								
SS#10(F)	8/3/1993	-								
SS#11(F)	8/3/1993	30								
SS#12(F)	8/3/1993	30								
SS#13(F)	8/4/1994	20	0 U	0 U	0 U	0 U	0 U		0 U	0
SS#13(F)	8/4/1994	20					0 U			0
SS#14(F)	8/16/1993	30								
SS#15(F)	8/16/1993	33								
SS#16(F)	8/16/1993	21	0 U	0 U	0 U	0 U		0 U	0 U	0
SS#16(F)	8/16/1993	21								
SS#17(F)	8/17/1993	30								
SS#18(F)	8/17/1993	28								
SS#19(F)	8/17/1993	10								
SS#4(F)	7/28/1993	26								
SS#5(F)	7/28/1993	26								
SS#6(F)	7/28/1993	26								
SS#8(F)	8/2/1993	30								
SS#9(F)	8/3/1993	-								
SS-1(AO)	6/16/1986	-		U	U	U	U	U		

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	1,1,1,2-Tetrachloroethane mg/kg	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,1-Dichloropropene mg/kg	1,2-Trichlorol mg/
SS4(AO)	6/16/1986	-			U	U				
SS4(AO)	9/26/1986	-								
SS4(AO)	9/26/1986	-		U	U	U	U	U		
SS4(AO)	9/26/1986	-		U	U	U	U	U		
SS4(AO)	9/26/1986	-		U	U	U	U	U		
SS4(AO)	9/26/1986	-		U	U	U	U	U		
SS4(AO)	9/26/1986	-				U				
SS4(AO)	6/16/1986	-		U			U	U		
SS-7(AO)	6/16/1986	-		U	U	U	U	U		
SUMP(C)	4/7/1992	4		0 U	0 U	0 U	0 U	0 U		
SUMP(C)	4/7/1992	4								
TP1(F)	11/5/1991	4								
TP1(F)	11/4/1991	8								
TP2(F)	11/5/1991	10								
TP2(F)	11/5/1991	4								
TP3(F)	11/5/1991	10								
USW-31(Q)	10/7/1997	4								
USW-34(Q)	10/7/1997	6								
WS1(F)	8/3/1993	-								

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	3-benzene kg	1,2,3-Trichloropropane mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg	1,2-Dibromo-3-chloropropane mg/kg	1,2-Dibromoethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg
AOSI-001(AO)	2/22/1986	-								U
AOSI-002(AO)	2/22/1986	-								U
AOSI-003(AO)	2/22/1986	-								U
AOSI-004(AO)	2/22/1986	-								U
AOSI-004(AO)	2/22/1986	-								
AOSI-005(AO)	2/22/1986	-								U
B1(C)	5/23/1990	-								
B2(C)	5/23/1990	-								
B3(C)	5/23/1990	-								
B4(C)	5/24/1990	-								
B5(C)	5/24/1990	-								
B6(F)	12/28/1990	-								
B6(F)	11/28/1990	-								
B6(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
GP1(J)	11/24/1999	-								
GP2(J)	11/24/1999	-								
GP3(J)	11/24/1999	-								
GP4(J)	11/24/1999	-								
GP5(J)	11/24/1999	-								
GP6(J)	11/24/1999	-								
HA1(F)	11/4/1991	8								
HA-12690(F)	12/6/1990	-								
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	3-benzene kg	1,2,3-Trichloropropane mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg	1,2-Dibromo-3-chloropropane mg/kg	1,2-Dibromoethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								
MW-2(F)	12/9/1990	-								
MW-2(F)	12/9/1990	-								
MW-2(F)	12/9/1990	-								
MW-3(F)	11/28/1990	-								
MW-3(F)	11/28/1990	-								
MW-3(F)	11/28/1990	-								
MW-5(C)	5/13/1991	5								
RW-1(F)	12/5/1990	-								
RW-2(F)	12/8/1990	-								
S-1(C)	1/10/1992	10								
S-18(C)	2/7/1992	-								
S-2(C)	1/10/1992	10								
S-3(C)	1/10/1992	10								
S-4(C)	1/10/1992	10								
S-4(C)	1/16/1992	-								
SB-1(N)	1/16/1997	4								
SB-2(N)	1/16/1997	4								
SB-2(N)	1/16/1997	8								
SB-3(N)	1/16/1997	8								
SB-4(N)	1/16/1997	4								
SB-5(N)	1/16/1997	4								
SB-5(N)	1/16/1997	8								
SB-6(N)	1/16/1997	4								

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	3-benzene kg	1,2,3-Trichloropropane mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg	1,2-Dibromo-3-chloropropane mg/kg	1,2-Dibromoethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg
SB-6(N)	1/16/1997	8								
SP-1(M)	9/30/1996	2.5								
SP-1(M)	9/30/1996	7								
SP-10(M)	9/30/1996	3								
SP-13(M)	10/1/1996	7								
SP-15(M)	10/1/1996	7								
SP-20(M)	10/1/1996	7								
SP-3(M)	9/30/1996	3								
SP-MW-1234(C)	5/13/1991	-								
SS#10(F)	8/3/1993	-								
SS#11(F)	8/3/1993	30								
SS#12(F)	8/3/1993	30								
SS#13(F)	8/4/1994	20	U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
SS#13(F)	8/4/1994	20	U							
SS#14(F)	8/16/1993	30								
SS#15(F)	8/16/1993	33								
SS#16(F)	8/16/1993	21	U	0 U	0 U		0 U	0 U	0 U	
SS#16(F)	8/16/1993	21			0 U					
SS#17(F)	8/17/1993	30								
SS#18(F)	8/17/1993	28								
SS#19(F)	8/17/1993	10								
SS#4(F)	7/28/1993	26								
SS#5(F)	7/28/1993	26								
SS#6(F)	7/28/1993	26								
SS#8(F)	8/2/1993	30								
SS#9(F)	8/3/1993	-								
SS-1(AO)	6/16/1986	-								U

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	3-benzene kg	1,2,3-Trichloropropane mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg	1,2-Dibromo-3-chloropropane mg/kg	1,2-Dibromoethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg
SS4(AO)	6/16/1986	-								
SS4(AO)	9/26/1986	-								
SS4(AO)	9/26/1986	-								U
SS4(AO)	9/26/1986	-								U
SS4(AO)	9/26/1986	-								U
SS4(AO)	9/26/1986	-								U
SS4(AO)	9/26/1986	-								
SS4(AO)	6/16/1986	-								U
SS-7(AO)	6/16/1986	-								U
SUMP(C)	4/7/1992	4							0 U	0 U
SUMP(C)	4/7/1992	4								
TP1(F)	11/5/1991	4								
TP1(F)	11/4/1991	8								
TP2(F)	11/5/1991	10								
TP2(F)	11/5/1991	4								
TP3(F)	11/5/1991	10								
USW-31(Q)	10/7/1997	4								
USW-34(Q)	10/7/1997	6								
WS1(F)	8/3/1993	-								

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	Line	1,2-Dichloroethene mg/kg	1,2-Dichloropropane mg/kg	1,3,5-Trimethylbenzene mg/kg	1,3-Dichlorobenzene mg/kg	1,3-Dichloropropane mg/kg	1,4-Dichlorobenzene mg/kg	2,2-Dichloropropane mg/kg
AOSI-001(AO)	2/22/1986	-			U					
AOSI-002(AO)	2/22/1986	-			U					
AOSI-003(AO)	2/22/1986	-			U					
AOSI-004(AO)	2/22/1986	-			U					
AOSI-004(AO)	2/22/1986	-								
AOSI-005(AO)	2/22/1986	-			U					
B1(C)	5/23/1990	-								
B2(C)	5/23/1990	-								
B3(C)	5/23/1990	-								
B4(C)	5/24/1990	-								
B5(C)	5/24/1990	-								
B6(F)	12/28/1990	-								
B6(F)	11/28/1990	-								
B6(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
GP1(J)	11/24/1999	-								
GP2(J)	11/24/1999	-								
GP3(J)	11/24/1999	-								
GP4(J)	11/24/1999	-								
GP5(J)	11/24/1999	-								
GP6(J)	11/24/1999	-								
HA1(F)	11/4/1991	8								
HA-12690(F)	12/6/1990	-								
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	Line	1,2-Dichloroethene mg/kg	1,2-Dichloropropane mg/kg	1,3,5-Trimethylbenzene mg/kg	1,3-Dichlorobenzene mg/kg	1,3-Dichloropropane mg/kg	1,4-Dichlorobenzene mg/kg	2,2-Dichloropropane mg/kg
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								
MW-2(F)	12/9/1990	-								
MW-2(F)	12/9/1990	-								
MW-2(F)	12/9/1990	-								
MW-3(F)	11/28/1990	-								
MW-3(F)	11/28/1990	-								
MW-3(F)	11/28/1990	-								
MW-5(C)	5/13/1991	5								
RW-1(F)	12/5/1990	-								
RW-2(F)	12/8/1990	-								
S-1(C)	1/10/1992	10								
S-18(C)	2/7/1992	-								
S-2(C)	1/10/1992	10								
S-3(C)	1/10/1992	10								
S-4(C)	1/10/1992	10								
S-4(C)	1/16/1992	-								
SB-1(N)	1/16/1997	4								
SB-2(N)	1/16/1997	4								
SB-2(N)	1/16/1997	8								
SB-3(N)	1/16/1997	8								
SB-4(N)	1/16/1997	4								
SB-5(N)	1/16/1997	4								
SB-5(N)	1/16/1997	8								
SB-6(N)	1/16/1997	4								

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	ine	1,2-Dichloroethene mg/kg	1,2-Dichloropropane mg/kg	1,3,5-Trimethylbenzene mg/kg	1,3-Dichlorobenzene mg/kg	1,3-Dichloropropane mg/kg	1,4-Dichlorobenzene mg/kg	2,2-Dichloropropane mg/kg
SB-6(N)	1/16/1997	8								
SP-1(M)	9/30/1996	2.5								
SP-1(M)	9/30/1996	7								
SP-10(M)	9/30/1996	3								
SP-13(M)	10/1/1996	7								
SP-15(M)	10/1/1996	7								
SP-20(M)	10/1/1996	7								
SP-3(M)	9/30/1996	3								
SP-MW-1234(C)	5/13/1991	-								
SS#10(F)	8/3/1993	-								
SS#11(F)	8/3/1993	30								
SS#12(F)	8/3/1993	30								
SS#13(F)	8/4/1994	20			0 U	0 U	0 U	0 U	0 U	0 U
SS#13(F)	8/4/1994	20								
SS#14(F)	8/16/1993	30								
SS#15(F)	8/16/1993	33								
SS#16(F)	8/16/1993	21		0 U	0 U	0 U	0 U	0 U	0 U	0 U
SS#16(F)	8/16/1993	21								
SS#17(F)	8/17/1993	30								
SS#18(F)	8/17/1993	28								
SS#19(F)	8/17/1993	10								
SS#4(F)	7/28/1993	26								
SS#5(F)	7/28/1993	26								
SS#6(F)	7/28/1993	26								
SS#8(F)	8/2/1993	30								
SS#9(F)	8/3/1993	-								
SS-1(AO)	6/16/1986	-			U					

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	Line	1,2- Dichloroethene mg/kg	1,2- Dichloropropane mg/kg	1,3,5- Trimethylbenzene mg/kg	1,3- Dichlorobenzene mg/kg	1,3- Dichloropropane mg/kg	1,4- Dichlorobenzene mg/kg	2,2- Dichloropropane mg/kg
SS4(AO)	6/16/1986	-								
SS4(AO)	9/26/1986	-								
SS4(AO)	9/26/1986	-			U					
SS4(AO)	9/26/1986	-			U					
SS4(AO)	9/26/1986	-			U					
SS4(AO)	9/26/1986	-			U					
SS4(AO)	9/26/1986	-								
SS4(AO)	6/16/1986	-			U					
SS-7(AO)	6/16/1986	-			U					
SUMP(C)	4/7/1992	4			0 U		0 U		0 U	
SUMP(C)	4/7/1992	4								
TP1(F)	11/5/1991	4								
TP1(F)	11/4/1991	8								
TP2(F)	11/5/1991	10								
TP2(F)	11/5/1991	4								
TP3(F)	11/5/1991	10								
USW-31(Q)	10/7/1997	4								
USW-34(Q)	10/7/1997	6								
WS1(F)	8/3/1993	-								

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	2-Butanone mg/kg	2-Chloroethyl vinyl ether mg/kg	2-Chlorotoluene mg/kg	2-Hexanone mg/kg	4-Chlorotoluene mg/kg	4-Isopropyltoluene mg/kg	4-Methyl-2- pentanone mg/kg	Aceto mg/kg
AOSI-001(AO)	2/22/1986	-	U	U		U			U	77
AOSI-002(AO)	2/22/1986	-	U	U		U			U	58
AOSI-003(AO)	2/22/1986	-	U	U		U			U	37
AOSI-004(AO)	2/22/1986	-	U	U		U			U	39
AOSI-004(AO)	2/22/1986	-								
AOSI-005(AO)	2/22/1986	-	U	U		U			U	31
B1(C)	5/23/1990	-								
B2(C)	5/23/1990	-								
B3(C)	5/23/1990	-								
B4(C)	5/24/1990	-								
B5(C)	5/24/1990	-								
B6(F)	12/28/1990	-								
B6(F)	11/28/1990	-								
B6(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
GP1(J)	11/24/1999	-								
GP2(J)	11/24/1999	-								
GP3(J)	11/24/1999	-								
GP4(J)	11/24/1999	-								
GP5(J)	11/24/1999	-								
GP6(J)	11/24/1999	-								
HA1(F)	11/4/1991	8								
HA-12690(F)	12/6/1990	-								
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	2-Butanone mg/kg	2-Chloroethyl vinyl ether mg/kg	2-Chlorotoluene mg/kg	2-Hexanone mg/kg	4-Chlorotoluene mg/kg	4-Isopropyltoluene mg/kg	4-Methyl-2- pentanone mg/kg	Aceto mg/kg
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-								
MW-2(F)	12/9/1990	-								
MW-2(F)	12/9/1990	-								
MW-2(F)	12/9/1990	-								
MW-3(F)	11/28/1990	-								
MW-3(F)	11/28/1990	-								
MW-3(F)	11/28/1990	-								
MW-5(C)	5/13/1991	5								
RW-1(F)	12/5/1990	-								
RW-2(F)	12/8/1990	-								
S-1(C)	1/10/1992	10								
S-18(C)	2/7/1992	-								
S-2(C)	1/10/1992	10								
S-3(C)	1/10/1992	10								
S-4(C)	1/10/1992	10								
S-4(C)	1/16/1992	-								
SB-1(N)	1/16/1997	4								
SB-2(N)	1/16/1997	4								
SB-2(N)	1/16/1997	8								
SB-3(N)	1/16/1997	8								
SB-4(N)	1/16/1997	4								
SB-5(N)	1/16/1997	4								
SB-5(N)	1/16/1997	8								
SB-6(N)	1/16/1997	4								

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	2-Butanone mg/kg	2-Chloroethyl vinyl ether mg/kg	2-Chlorotoluene mg/kg	2-Hexanone mg/kg	4-Chlorotoluene mg/kg	4-Isopropyltoluene mg/kg	4-Methyl-2- pentanone mg/kg	Aceto mg/kg
SB-6(N)	1/16/1997	8								
SP-1(M)	9/30/1996	2.5								
SP-1(M)	9/30/1996	7								
SP-10(M)	9/30/1996	3								
SP-13(M)	10/1/1996	7								
SP-15(M)	10/1/1996	7								
SP-20(M)	10/1/1996	7								
SP-3(M)	9/30/1996	3								
SP-MW-1234(C)	5/13/1991	-								
SS#10(F)	8/3/1993	-								
SS#11(F)	8/3/1993	30								
SS#12(F)	8/3/1993	30								
SS#13(F)	8/4/1994	20	2 U	1 U	0 U	2 U	0 U	1	2 U	2
SS#13(F)	8/4/1994	20								
SS#14(F)	8/16/1993	30								
SS#15(F)	8/16/1993	33								
SS#16(F)	8/16/1993	21	2 U	1 U	0 U	2 U	0 U	0 U	2 U	2
SS#16(F)	8/16/1993	21								
SS#17(F)	8/17/1993	30								
SS#18(F)	8/17/1993	28								
SS#19(F)	8/17/1993	10								
SS#4(F)	7/28/1993	26								
SS#5(F)	7/28/1993	26								
SS#6(F)	7/28/1993	26								
SS#8(F)	8/2/1993	30								
SS#9(F)	8/3/1993	-								
SS-1(AO)	6/16/1986	-		U						

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	2-Butanone mg/kg	2-Chloroethyl vinyl ether mg/kg	2-Chlorotoluene mg/kg	2-Hexanone mg/kg	4-Chlorotoluene mg/kg	4-Isopropyltoluene mg/kg	4-Methyl-2- pentanone mg/kg	Aceto mg/kg
SS4(AO)	6/16/1986	-		U						
SS4(AO)	9/26/1986	-							U	
SS4(AO)	9/26/1986	-	U	U		U			U	
SS4(AO)	9/26/1986	-	U	U		U				
SS4(AO)	9/26/1986	-	U	U		U			U	
SS4(AO)	9/26/1986	-	U	U		U			U	
SS4(AO)	9/26/1986	-								
SS4(AO)	6/16/1986	-								
SS-7(AO)	6/16/1986	-		U						
SUMP(C)	4/7/1992	4	0 U	0 U		0 U			0 U	0
SUMP(C)	4/7/1992	4								
TP1(F)	11/5/1991	4								
TP1(F)	11/4/1991	8								
TP2(F)	11/5/1991	10								
TP2(F)	11/5/1991	4								
TP3(F)	11/5/1991	10								
USW-31(Q)	10/7/1997	4								
USW-34(Q)	10/7/1997	6								
WS1(F)	8/3/1993	-								

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	ne	Acrolein	Benzene	Bromobenzene	Bromochloromethane	Bromodichloro methane	Bromoform	Bromomethane
			g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
AOSI-001(AO)	2/22/1986	-		U	U			U	U	U
AOSI-002(AO)	2/22/1986	-		U	U			U	U	U
AOSI-003(AO)	2/22/1986	-		U	U			U	U	U
AOSI-004(AO)	2/22/1986	-		U	U			U	U	U
AOSI-004(AO)	2/22/1986	-								
AOSI-005(AO)	2/22/1986	-		25	U			U	U	U
B1(C)	5/23/1990	-			0 U					
B2(C)	5/23/1990	-			0 U					
B3(C)	5/23/1990	-			0 U					
B4(C)	5/24/1990	-			0 U					
B5(C)	5/24/1990	-			0 U					
B6(F)	12/28/1990	-			6					
B6(F)	11/28/1990	-			1					
B6(F)	11/28/1990	-			10					
B7(F)	11/28/1990	-			3					
B7(F)	11/28/1990	-			16					
B7(F)	11/28/1990	-			0 U					
GP1(J)	11/24/1999	-			0 U					
GP2(J)	11/24/1999	-			0 U					
GP3(J)	11/24/1999	-			30					
GP4(J)	11/24/1999	-			0 U					
GP5(J)	11/24/1999	-			0 U					
GP6(J)	11/24/1999	-			0 U					
HA1(F)	11/4/1991	8			0.1 U					
HA-12690(F)	12/6/1990	-			1					
MW-1(F)	12/7/1990	-								
MW-1(F)	12/7/1990	-			0 U					

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	ne	Acrolein	Benzene	Bromobenzene	Bromochloromethane	Bromodichloro methane	Bromoform	Bromomethane
			g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-1(F)	12/7/1990	-			0 U					
MW-1(F)	12/7/1990	-			0 U					
MW-1(F)	12/7/1990	-			3					
MW-1(F)	12/7/1990	-			0 U					
MW-2(F)	12/9/1990	-			0 U					
MW-2(F)	12/9/1990	-			0 U					
MW-2(F)	12/9/1990	-			0 U					
MW-3(F)	11/28/1990	-			2					
MW-3(F)	11/28/1990	-			2					
MW-3(F)	11/28/1990	-			6					
MW-5(C)	5/13/1991	5			0 U					
RW-1(F)	12/5/1990	-			0 U					
RW-2(F)	12/8/1990	-			0 U					
S-1(C)	1/10/1992	10			0 U					
S-18(C)	2/7/1992	-			3					
S-2(C)	1/10/1992	10			0 U					
S-3(C)	1/10/1992	10			0 U					
S-4(C)	1/10/1992	10			0 U					
S-4(C)	1/16/1992	-			0 U					
SB-1(N)	1/16/1997	4			0 U					
SB-2(N)	1/16/1997	4			0 U					
SB-2(N)	1/16/1997	8			0 U					
SB-3(N)	1/16/1997	8			0 U					
SB-4(N)	1/16/1997	4			0 U					
SB-5(N)	1/16/1997	4			0 U					
SB-5(N)	1/16/1997	8			0 U					
SB-6(N)	1/16/1997	4			0 U					

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	ne	Acrolein	Benzene	Bromobenzene	Bromochloromethane	Bromodichloro methane	Bromoform	Bromomethane
			g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-6(N)	1/16/1997	8			0 U					
SP-1(M)	9/30/1996	2.5			0.013 U					
SP-1(M)	9/30/1996	7			0.013 U					
SP-10(M)	9/30/1996	3			0.013 U					
SP-13(M)	10/1/1996	7			0.013 U					
SP-15(M)	10/1/1996	7			0.013 U					
SP-20(M)	10/1/1996	7			0.013 U					
SP-3(M)	9/30/1996	3			0.013 U					
SP-MW-1234(C)	5/13/1991	-			0 U					
SS#10(F)	8/3/1993	-			2 U					
SS#11(F)	8/3/1993	30			0 U					
SS#12(F)	8/3/1993	30			0 U					
SS#13(F)	8/4/1994	20	U	2 U	0 U	0 U	0 U	0 U	0 U	0 U
SS#13(F)	8/4/1994	20								
SS#14(F)	8/16/1993	30			0 U					
SS#15(F)	8/16/1993	33			2					
SS#16(F)	8/16/1993	21	U	2 U	0 U	0 U	0 U	0 U	0 U	0 U
SS#16(F)	8/16/1993	21						0 U		
SS#17(F)	8/17/1993	30			0 U					
SS#18(F)	8/17/1993	28			0 U					
SS#19(F)	8/17/1993	10			0 U					
SS#4(F)	7/28/1993	26			0 U					
SS#5(F)	7/28/1993	26			0 U					
SS#6(F)	7/28/1993	26			0 U					
SS#8(F)	8/2/1993	30			0 U					
SS#9(F)	8/3/1993	-			1					
SS-1(AO)	6/16/1986	-			U			U	U	U

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	ne	Acrolein	Benzene	Bromobenzene	Bromochloromethane	Bromodichloro methane	Bromoform	Bromomethane
			g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SS4(AO)	6/16/1986	-			U				U	
SS4(AO)	9/26/1986	-								
SS4(AO)	9/26/1986	-	U	U	U			U	U	U
SS4(AO)	9/26/1986	-	U	U	U			U	U	U
SS4(AO)	9/26/1986	-	U	U	U			U	U	U
SS4(AO)	9/26/1986	-	U	U	U			U	U	U
SS4(AO)	9/26/1986	-								
SS4(AO)	6/16/1986	-						U		U
SS-7(AO)	6/16/1986	-			U			U	U	U
SUMP(C)	4/7/1992	4	U		0 U			0 U	0 U	0 U
SUMP(C)	4/7/1992	4						0 U		
TP1(F)	11/5/1991	4			0.5 U					
TP1(F)	11/4/1991	8			1.3 U					
TP2(F)	11/5/1991	10			0.1 U					
TP2(F)	11/5/1991	4			0.13 U					
TP3(F)	11/5/1991	10			0.22					
USW-31(Q)	10/7/1997	4			20					
USW-34(Q)	10/7/1997	6			4					
WS1(F)	8/3/1993	-			51					

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	Carbon disulfide mg/kg	Carbon tetrachloride mg/kg	Chlorobenzene mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloromethane mg/kg	cis-1,2-Dichloroethene mg/kg
AOSI-001(AO)	2/22/1986	-	U	U	U	U	U	U	
AOSI-002(AO)	2/22/1986	-	U	U	U	U	U	U	
AOSI-003(AO)	2/22/1986	-	U	U	U	U	U	U	
AOSI-004(AO)	2/22/1986	-	U	U		U	U	U	
AOSI-004(AO)	2/22/1986	-			U				
AOSI-005(AO)	2/22/1986	-	U	U	U	U	U	U	
B1(C)	5/23/1990	-							
B2(C)	5/23/1990	-							
B3(C)	5/23/1990	-							
B4(C)	5/24/1990	-							
B5(C)	5/24/1990	-							
B6(F)	12/28/1990	-							
B6(F)	11/28/1990	-							
B6(F)	11/28/1990	-							
B7(F)	11/28/1990	-							
B7(F)	11/28/1990	-							
B7(F)	11/28/1990	-							
GP1(J)	11/24/1999	-							
GP2(J)	11/24/1999	-							
GP3(J)	11/24/1999	-							
GP4(J)	11/24/1999	-							
GP5(J)	11/24/1999	-							
GP6(J)	11/24/1999	-							
HA1(F)	11/4/1991	8							
HA-12690(F)	12/6/1990	-							
MW-1(F)	12/7/1990	-							
MW-1(F)	12/7/1990	-							

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	Carbon disulfide mg/kg	Carbon tetrachloride mg/kg	Chlorobenzene mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloromethane mg/kg	cis-1,2-Dichloroethene mg/kg
MW-1(F)	12/7/1990	-							
MW-1(F)	12/7/1990	-							
MW-1(F)	12/7/1990	-							
MW-1(F)	12/7/1990	-							
MW-2(F)	12/9/1990	-							
MW-2(F)	12/9/1990	-							
MW-2(F)	12/9/1990	-							
MW-3(F)	11/28/1990	-							
MW-3(F)	11/28/1990	-							
MW-3(F)	11/28/1990	-							
MW-5(C)	5/13/1991	5							
RW-1(F)	12/5/1990	-							
RW-2(F)	12/8/1990	-							
S-1(C)	1/10/1992	10							
S-18(C)	2/7/1992	-							
S-2(C)	1/10/1992	10							
S-3(C)	1/10/1992	10							
S-4(C)	1/10/1992	10							
S-4(C)	1/16/1992	-							
SB-1(N)	1/16/1997	4							
SB-2(N)	1/16/1997	4							
SB-2(N)	1/16/1997	8							
SB-3(N)	1/16/1997	8							
SB-4(N)	1/16/1997	4							
SB-5(N)	1/16/1997	4							
SB-5(N)	1/16/1997	8							
SB-6(N)	1/16/1997	4							

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	Carbon disulfide mg/kg	Carbon tetrachloride mg/kg	Chlorobenzene mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloromethane mg/kg	cis-1,2-Dichloroethene mg/kg
SB-6(N)	1/16/1997	8							
SP-1(M)	9/30/1996	2.5							
SP-1(M)	9/30/1996	7							
SP-10(M)	9/30/1996	3							
SP-13(M)	10/1/1996	7							
SP-15(M)	10/1/1996	7							
SP-20(M)	10/1/1996	7							
SP-3(M)	9/30/1996	3							
SP-MW-1234(C)	5/13/1991	-							
SS#10(F)	8/3/1993	-							
SS#11(F)	8/3/1993	30							
SS#12(F)	8/3/1993	30							
SS#13(F)	8/4/1994	20	1 U	0 U	0 U	0 U	0 U	0 U	0 U
SS#13(F)	8/4/1994	20							
SS#14(F)	8/16/1993	30							
SS#15(F)	8/16/1993	33							
SS#16(F)	8/16/1993	21	1 U	0 U	0 U	0 U	0 U	0 U	0 U
SS#16(F)	8/16/1993	21							
SS#17(F)	8/17/1993	30							
SS#18(F)	8/17/1993	28							
SS#19(F)	8/17/1993	10							
SS#4(F)	7/28/1993	26							
SS#5(F)	7/28/1993	26							
SS#6(F)	7/28/1993	26							
SS#8(F)	8/2/1993	30							
SS#9(F)	8/3/1993	-							
SS-1(AO)	6/16/1986	-		U	U	U	U	U	

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	Carbon disulfide mg/kg	Carbon tetrachloride mg/kg	Chlorobenzene mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloromethane mg/kg	cis-1,2-Dichloroethene mg/kg
SS4(AO)	6/16/1986	-			U				
SS4(AO)	9/26/1986	-							
SS4(AO)	9/26/1986	-	U	U	U	U	U	U	
SS4(AO)	9/26/1986	-	U	U	U	U	U	U	
SS4(AO)	9/26/1986	-	U	U	U	U	U	U	
SS4(AO)	9/26/1986	-	U	U	U	U	U	U	
SS4(AO)	9/26/1986	-							
SS4(AO)	6/16/1986	-		U		U	U	U	
SS-7(AO)	6/16/1986	-		U	U	U	U	U	
SUMP(C)	4/7/1992	4	0 U	0 U	0 U	0 U	0 U	0 U	0 U
SUMP(C)	4/7/1992	4							
TP1(F)	11/5/1991	4							
TP1(F)	11/4/1991	8							
TP2(F)	11/5/1991	10							
TP2(F)	11/5/1991	4							
TP3(F)	11/5/1991	10							
USW-31(Q)	10/7/1997	4							
USW-34(Q)	10/7/1997	6							
WS1(F)	8/3/1993	-							

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	cis-1,3-Dichloropropene	Dibenzo(a,h)anthracene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylber
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/l
AOSI-001(AO)	2/22/1986	-	U					
AOSI-002(AO)	2/22/1986	-	U					
AOSI-003(AO)	2/22/1986	-	U					
AOSI-004(AO)	2/22/1986	-						
AOSI-004(AO)	2/22/1986	-	U					
AOSI-005(AO)	2/22/1986	-	U					
B1(C)	5/23/1990	-						0
B2(C)	5/23/1990	-						0
B3(C)	5/23/1990	-						0
B4(C)	5/24/1990	-						0
B5(C)	5/24/1990	-						0
B6(F)	12/28/1990	-						18
B6(F)	11/28/1990	-						9
B6(F)	11/28/1990	-						37
B7(F)	11/28/1990	-						11
B7(F)	11/28/1990	-						33
B7(F)	11/28/1990	-						0
GP1(J)	11/24/1999	-		0 U				0
GP2(J)	11/24/1999	-		0 U				30
GP3(J)	11/24/1999	-						48
GP4(J)	11/24/1999	-						0
GP5(J)	11/24/1999	-						0
GP6(J)	11/24/1999	-						0
HA1(F)	11/4/1991	8						1
HA-12690(F)	12/6/1990	-						52
MW-1(F)	12/7/1990	-						0
MW-1(F)	12/7/1990	-						0

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	cis-1,3-Dichloropropene mg/kg	Dibenzo(a,h)anthracene mg/kg	Dibromochloromethane mg/kg	Dibromomethane mg/kg	Dichlorodifluoromethane mg/kg	Ethylber mg/l
MW-1(F)	12/7/1990	-						0
MW-1(F)	12/7/1990	-						0
MW-1(F)	12/7/1990	-						23
MW-1(F)	12/7/1990	-						
MW-2(F)	12/9/1990	-						0
MW-2(F)	12/9/1990	-						0
MW-2(F)	12/9/1990	-						0
MW-3(F)	11/28/1990	-						16
MW-3(F)	11/28/1990	-						26
MW-3(F)	11/28/1990	-						49
MW-5(C)	5/13/1991	5						1
RW-1(F)	12/5/1990	-						0
RW-2(F)	12/8/1990	-						0
S-1(C)	1/10/1992	10						0
S-18(C)	2/7/1992	-						3
S-2(C)	1/10/1992	10						0
S-3(C)	1/10/1992	10						0
S-4(C)	1/10/1992	10						0
S-4(C)	1/16/1992	-						0
SB-1(N)	1/16/1997	4						0
SB-2(N)	1/16/1997	4						0
SB-2(N)	1/16/1997	8						0
SB-3(N)	1/16/1997	8						0
SB-4(N)	1/16/1997	4						1
SB-5(N)	1/16/1997	4						0
SB-5(N)	1/16/1997	8		0 U				40
SB-6(N)	1/16/1997	4		0 U				3

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	cis-1,3-Dichloropropene	Dibenzo(a,h)anthracene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylber
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/l
SB-6(N)	1/16/1997	8						0
SP-1(M)	9/30/1996	2.5		0.007 U				1
SP-1(M)	9/30/1996	7						1
SP-10(M)	9/30/1996	3						1
SP-13(M)	10/1/1996	7						1
SP-15(M)	10/1/1996	7		0.007 U				1
SP-20(M)	10/1/1996	7		0.007 U				1
SP-3(M)	9/30/1996	3						1
SP-MW-1234(C)	5/13/1991	-						0
SS#10(F)	8/3/1993	-						0
SS#11(F)	8/3/1993	30						0
SS#12(F)	8/3/1993	30						0
SS#13(F)	8/4/1994	20	0 U		0 U	0 U	0 U	0
SS#13(F)	8/4/1994	20						
SS#14(F)	8/16/1993	30						0
SS#15(F)	8/16/1993	33						0
SS#16(F)	8/16/1993	21	0 U			0 U	0 U	0
SS#16(F)	8/16/1993	21						
SS#17(F)	8/17/1993	30						0
SS#18(F)	8/17/1993	28						0
SS#19(F)	8/17/1993	10						0
SS#4(F)	7/28/1993	26						0
SS#5(F)	7/28/1993	26						0
SS#6(F)	7/28/1993	26						13
SS#8(F)	8/2/1993	30						0
SS#9(F)	8/3/1993	-						2
SS-1(AO)	6/16/1986	-	U		U			

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	cis-1,3-Dichloropropene	Dibenzo(a,h)anthracene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylber
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/l
SS4(AO)	6/16/1986	-	U		U			960
SS4(AO)	9/26/1986	-						
SS4(AO)	9/26/1986	-	U					
SS4(AO)	9/26/1986	-	U					
SS4(AO)	9/26/1986	-	U					
SS4(AO)	9/26/1986	-	U					
SS4(AO)	9/26/1986	-						
SS4(AO)	6/16/1986	-						
SS-7(AO)	6/16/1986	-	U			U		
SUMP(C)	4/7/1992	4	0 U					0
SUMP(C)	4/7/1992	4						
TP1(F)	11/5/1991	4						1.3
TP1(F)	11/4/1991	8						4.4
TP2(F)	11/5/1991	10						0.27
TP2(F)	11/5/1991	4						0.31
TP3(F)	11/5/1991	10						0.75
USW-31(Q)	10/7/1997	4						130
USW-34(Q)	10/7/1997	6						9
WS1(F)	8/3/1993	-						4

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	zene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylben
			g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
AOSI-001(AO)	2/22/1986	-	U				U			
AOSI-002(AO)	2/22/1986	-	U				U			
AOSI-003(AO)	2/22/1986	-	U				U			
AOSI-004(AO)	2/22/1986	-					U			
AOSI-004(AO)	2/22/1986	-	U							
AOSI-005(AO)	2/22/1986	-	U				U			
B1(C)	5/23/1990	-	U			0 U				
B2(C)	5/23/1990	-	U			0 U				
B3(C)	5/23/1990	-	U			0 U				
B4(C)	5/24/1990	-	U			0 U				
B5(C)	5/24/1990	-	U			0 U				
B6(F)	12/28/1990	-								
B6(F)	11/28/1990	-								
B6(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
B7(F)	11/28/1990	-								
B7(F)	11/28/1990	-	U							
GP1(J)	11/24/1999	-	U					12 U		
GP2(J)	11/24/1999	-						9		
GP3(J)	11/24/1999	-								
GP4(J)	11/24/1999	-	U							
GP5(J)	11/24/1999	-	U							
GP6(J)	11/24/1999	-	U							
HA1(F)	11/4/1991	8	U							
HA-12690(F)	12/6/1990	-				159				
MW-1(F)	12/7/1990	-	U			0 U				
MW-1(F)	12/7/1990	-	U			0 U				

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	zene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylben
			g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-1(F)	12/7/1990	-	U			0 U				
MW-1(F)	12/7/1990	-	U			0 U				
MW-1(F)	12/7/1990	-				36				
MW-1(F)	12/7/1990	-								
MW-2(F)	12/9/1990	-	U			0 U				
MW-2(F)	12/9/1990	-	U			0 U				
MW-2(F)	12/9/1990	-	U			0 U				
MW-3(F)	11/28/1990	-								
MW-3(F)	11/28/1990	-								
MW-3(F)	11/28/1990	-								
MW-5(C)	5/13/1991	5								
RW-1(F)	12/5/1990	-	U			0 U				
RW-2(F)	12/8/1990	-	U			1				
S-1(C)	1/10/1992	10	U							
S-18(C)	2/7/1992	-								
S-2(C)	1/10/1992	10	U							
S-3(C)	1/10/1992	10	U							
S-4(C)	1/10/1992	10	U							
S-4(C)	1/16/1992	-	U							
SB-1(N)	1/16/1997	4	U							
SB-2(N)	1/16/1997	4	U							
SB-2(N)	1/16/1997	8	U							
SB-3(N)	1/16/1997	8	U							
SB-4(N)	1/16/1997	4								
SB-5(N)	1/16/1997	4	U							
SB-5(N)	1/16/1997	8						24		
SB-6(N)	1/16/1997	4						0 U		

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	zene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylben
			g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-6(N)	1/16/1997	8	U							
SP-1(M)	9/30/1996	2.5	U					1 U		
SP-1(M)	9/30/1996	7	U					1 U		
SP-10(M)	9/30/1996	3	U					1 U		
SP-13(M)	10/1/1996	7	U							
SP-15(M)	10/1/1996	7	U					1 U		
SP-20(M)	10/1/1996	7	U					1 U		
SP-3(M)	9/30/1996	3	U					1 U		
SP-MW-1234(C)	5/13/1991	-	U							
SS#10(F)	8/3/1993	-	U			0 U				
SS#11(F)	8/3/1993	30	U			1				
SS#12(F)	8/3/1993	30	U			1				
SS#13(F)	8/4/1994	20	U	0 U	0 U	0 U	0 U	0 U	1	0 U
SS#13(F)	8/4/1994	20								
SS#14(F)	8/16/1993	30	U			0 U				
SS#15(F)	8/16/1993	33	U			2				
SS#16(F)	8/16/1993	21	U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
SS#16(F)	8/16/1993	21								
SS#17(F)	8/17/1993	30	U			0 U				
SS#18(F)	8/17/1993	28	U			0 U				
SS#19(F)	8/17/1993	10	U			0 U				
SS#4(F)	7/28/1993	26	U			0 U				
SS#5(F)	7/28/1993	26	U			0 U				
SS#6(F)	7/28/1993	26				41				
SS#8(F)	8/2/1993	30	U			0 U				
SS#9(F)	8/3/1993	-				4				
SS-1(AO)	6/16/1986	-	U				U			

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	zene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylben
			g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SS4(AO)	6/16/1986	-								
SS4(AO)	9/26/1986	-								
SS4(AO)	9/26/1986	-	U				U			
SS4(AO)	9/26/1986	-	U				U			
SS4(AO)	9/26/1986	-	U				U			
SS4(AO)	9/26/1986	-	U				U			
SS4(AO)	9/26/1986	-								
SS4(AO)	6/16/1986	-					U			
SS-7(AO)	6/16/1986	-	U				U			
SUMP(C)	4/7/1992	4	U				0 U			
SUMP(C)	4/7/1992	4								
TP1(F)	11/5/1991	4								
TP1(F)	11/4/1991	8								
TP2(F)	11/5/1991	10								
TP2(F)	11/5/1991	4								
TP3(F)	11/5/1991	10								
USW-31(Q)	10/7/1997	4								
USW-34(Q)	10/7/1997	6								
WS1(F)	8/3/1993	-				260				

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	zene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Di
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg
AOSI-001(AO)	2/22/1986	-		U		U		U	U	U
AOSI-002(AO)	2/22/1986	-		U		U		U	U	U
AOSI-003(AO)	2/22/1986	-		49		U		U	U	U
AOSI-004(AO)	2/22/1986	-								U
AOSI-004(AO)	2/22/1986	-		U		U		U	U	
AOSI-005(AO)	2/22/1986	-		U		U		U	U	U
B1(C)	5/23/1990	-		0 U					0 U	
B2(C)	5/23/1990	-		0 U					0 U	
B3(C)	5/23/1990	-		0 U					0 U	
B4(C)	5/24/1990	-		0 U					1	
B5(C)	5/24/1990	-		0 U					0 U	
B6(F)	12/28/1990	-							21	
B6(F)	11/28/1990	-							6	
B6(F)	11/28/1990	-							74	
B7(F)	11/28/1990	-							25	
B7(F)	11/28/1990	-							92	
B7(F)	11/28/1990	-							1	
GP1(J)	11/24/1999	-							0 U	
GP2(J)	11/24/1999	-							0 U	
GP3(J)	11/24/1999	-							2	
GP4(J)	11/24/1999	-							0 U	
GP5(J)	11/24/1999	-							0 U	
GP6(J)	11/24/1999	-							0 U	
HA1(F)	11/4/1991	8							0.1 U	
HA-12690(F)	12/6/1990	-		119					31	
MW-1(F)	12/7/1990	-		0 U					0 U	
MW-1(F)	12/7/1990	-		0 U					0 U	

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	zene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Di
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg
MW-1(F)	12/7/1990	-		0 U					0 U	
MW-1(F)	12/7/1990	-		0 U					0 U	
MW-1(F)	12/7/1990	-		20					23	
MW-1(F)	12/7/1990	-								
MW-2(F)	12/9/1990	-		0 U					0 U	
MW-2(F)	12/9/1990	-		0 U					0 U	
MW-2(F)	12/9/1990	-		0 U					0 U	
MW-3(F)	11/28/1990	-							2	
MW-3(F)	11/28/1990	-							8	
MW-3(F)	11/28/1990	-							13	
MW-5(C)	5/13/1991	5							0 U	
RW-1(F)	12/5/1990	-		0 U					0 U	
RW-2(F)	12/8/1990	-		0 U					0 U	
S-1(C)	1/10/1992	10							0 U	
S-18(C)	2/7/1992	-							2	
S-2(C)	1/10/1992	10							0 U	
S-3(C)	1/10/1992	10							0 U	
S-4(C)	1/10/1992	10							0 U	
S-4(C)	1/16/1992	-							0 U	
SB-1(N)	1/16/1997	4							0 U	
SB-2(N)	1/16/1997	4							0 U	
SB-2(N)	1/16/1997	8							0 U	
SB-3(N)	1/16/1997	8							0 U	
SB-4(N)	1/16/1997	4							1	
SB-5(N)	1/16/1997	4							0 U	
SB-5(N)	1/16/1997	8							49	
SB-6(N)	1/16/1997	4							0 U	

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	zene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Di
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg
SB-6(N)	1/16/1997	8							0 U	
SP-1(M)	9/30/1996	2.5							0.013 U	
SP-1(M)	9/30/1996	7							0.013 U	
SP-10(M)	9/30/1996	3							0.013 U	
SP-13(M)	10/1/1996	7							0.028	
SP-15(M)	10/1/1996	7							0.013 U	
SP-20(M)	10/1/1996	7							0.013 U	
SP-3(M)	9/30/1996	3							0.034	
SP-MW-1234(C)	5/13/1991	-							0 U	
SS#10(F)	8/3/1993	-		0 U					0 U	
SS#11(F)	8/3/1993	30		0 U					0 U	
SS#12(F)	8/3/1993	30		0 U					0 U	
SS#13(F)	8/4/1994	20		0 U	1	0 U	0 U	0 U	0 U	0 U
SS#13(F)	8/4/1994	20								
SS#14(F)	8/16/1993	30		0 U					0 U	
SS#15(F)	8/16/1993	33		0 U					0 U	
SS#16(F)	8/16/1993	21		0 U	0 U	0 U	0 U	0 U	0 U	0 U
SS#16(F)	8/16/1993	21								
SS#17(F)	8/17/1993	30		0 U					0 U	
SS#18(F)	8/17/1993	28		0 U					0 U	
SS#19(F)	8/17/1993	10		0 U					0 U	
SS#4(F)	7/28/1993	26		0 U					0 U	
SS#5(F)	7/28/1993	26		0 U					0 U	
SS#6(F)	7/28/1993	26		8					1	
SS#8(F)	8/2/1993	30		0 U					0 U	
SS#9(F)	8/3/1993	-		1					0 U	
SS-1(AO)	6/16/1986	-						U	U	U

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	zene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Di
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg
SS4(AO)	6/16/1986	-						U	U	
SS4(AO)	9/26/1986	-								
SS4(AO)	9/26/1986	-		U		U		U	U	U
SS4(AO)	9/26/1986	-		U		U		U	U	U
SS4(AO)	9/26/1986	-		U		U		U	U	U
SS4(AO)	9/26/1986	-		U		U		U	U	U
SS4(AO)	9/26/1986	-								
SS4(AO)	6/16/1986	-								U
SS-7(AO)	6/16/1986	-						U	U	U
SUMP(C)	4/7/1992	4				0 U		0 U	0 U	0 U
SUMP(C)	4/7/1992	4								
TP1(F)	11/5/1991	4							0.5 U	
TP1(F)	11/4/1991	8							1.3 U	
TP2(F)	11/5/1991	10							0.1 U	
TP2(F)	11/5/1991	4							0.13 U	
TP3(F)	11/5/1991	10							0.88	
USW-31(Q)	10/7/1997	4							360	
USW-34(Q)	10/7/1997	6							28	
WS1(F)	8/3/1993	-		260					9	

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	chloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylenes
			g/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
AOSI-001(AO)	2/22/1986	-		U	U		U	U	
AOSI-002(AO)	2/22/1986	-		U	U		U	U	
AOSI-003(AO)	2/22/1986	-		U	U		U	U	
AOSI-004(AO)	2/22/1986	-			U		U	U	
AOSI-004(AO)	2/22/1986	-		U					
AOSI-005(AO)	2/22/1986	-		U	U		U	U	
B1(C)	5/23/1990	-							
B2(C)	5/23/1990	-							
B3(C)	5/23/1990	-							
B4(C)	5/24/1990	-							
B5(C)	5/24/1990	-							
B6(F)	12/28/1990	-							89
B6(F)	11/28/1990	-							51
B6(F)	11/28/1990	-							190
B7(F)	11/28/1990	-							52
B7(F)	11/28/1990	-							160
B7(F)	11/28/1990	-							2
GP1(J)	11/24/1999	-							1 U
GP2(J)	11/24/1999	-							30
GP3(J)	11/24/1999	-							38
GP4(J)	11/24/1999	-							1 U
GP5(J)	11/24/1999	-							1 U
GP6(J)	11/24/1999	-							1 U
HA1(F)	11/4/1991	8							0.1 U
HA-12690(F)	12/6/1990	-							
MW-1(F)	12/7/1990	-							
MW-1(F)	12/7/1990	-							

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	chloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylenes
			g/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-1(F)	12/7/1990	-							
MW-1(F)	12/7/1990	-							
MW-1(F)	12/7/1990	-							
MW-1(F)	12/7/1990	-							
MW-2(F)	12/9/1990	-							
MW-2(F)	12/9/1990	-							
MW-2(F)	12/9/1990	-							
MW-3(F)	11/28/1990	-							32
MW-3(F)	11/28/1990	-							32
MW-3(F)	11/28/1990	-							180
MW-5(C)	5/13/1991	5							1
RW-1(F)	12/5/1990	-							
RW-2(F)	12/8/1990	-							
S-1(C)	1/10/1992	10							0 U
S-18(C)	2/7/1992	-							24
S-2(C)	1/10/1992	10							0 U
S-3(C)	1/10/1992	10							0 U
S-4(C)	1/10/1992	10							0 U
S-4(C)	1/16/1992	-							0 U
SB-1(N)	1/16/1997	4							0 U
SB-2(N)	1/16/1997	4							0 U
SB-2(N)	1/16/1997	8							0 U
SB-3(N)	1/16/1997	8							2
SB-4(N)	1/16/1997	4							4
SB-5(N)	1/16/1997	4							0 U
SB-5(N)	1/16/1997	8							220
SB-6(N)	1/16/1997	4							18

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	chloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylenes
			g/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-6(N)	1/16/1997	8							0 U
SP-1(M)	9/30/1996	2.5							0.025 U
SP-1(M)	9/30/1996	7							0.025 U
SP-10(M)	9/30/1996	3							0.025 U
SP-13(M)	10/1/1996	7							0.025 U
SP-15(M)	10/1/1996	7							0.025 U
SP-20(M)	10/1/1996	7							0.025 U
SP-3(M)	9/30/1996	3							0.025 U
SP-MW-1234(C)	5/13/1991	-							0 U
SS#10(F)	8/3/1993	-							
SS#11(F)	8/3/1993	30							
SS#12(F)	8/3/1993	30							
SS#13(F)	8/4/1994	20		0 U	0 U	0 U	1 U	1 U	
SS#13(F)	8/4/1994	20							
SS#14(F)	8/16/1993	30							
SS#15(F)	8/16/1993	33							
SS#16(F)	8/16/1993	21		0 U	0 U	0 U	1 U	1 U	
SS#16(F)	8/16/1993	21							
SS#17(F)	8/17/1993	30							
SS#18(F)	8/17/1993	28							
SS#19(F)	8/17/1993	10							
SS#4(F)	7/28/1993	26							
SS#5(F)	7/28/1993	26							
SS#6(F)	7/28/1993	26							
SS#8(F)	8/2/1993	30							
SS#9(F)	8/3/1993	-							
SS-1(AO)	6/16/1986	-		U	U	U		U	U

TABLE D-3
SOIL ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	chloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylenes
			g/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SS4(AO)	6/16/1986	-		U	U				14000
SS4(AO)	9/26/1986	-							
SS4(AO)	9/26/1986	-		U	U		U	U	
SS4(AO)	9/26/1986	-		U	U		U	U	
SS4(AO)	9/26/1986	-		U	U		U		
SS4(AO)	9/26/1986	-		U	U		U	U	
SS4(AO)	9/26/1986	-						U	
SS4(AO)	6/16/1986	-				U		U	
SS-7(AO)	6/16/1986	-		U	U	U		U	U
SUMP(C)	4/7/1992	4		0 U	0 U	0 U	0 U	0 U	0 U
SUMP(C)	4/7/1992	4							
TP1(F)	11/5/1991	4							10
TP1(F)	11/4/1991	8							15
TP2(F)	11/5/1991	10							1.3
TP2(F)	11/5/1991	4							3.6
TP3(F)	11/5/1991	10							5.8
USW-31(Q)	10/7/1997	4							460
USW-34(Q)	10/7/1997	6							39
WS1(F)	8/3/1993	-							

TABLE D-4
SOIL ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
SB-5(N)	1/16/1997	8	2	7	0 U	0 U	0 U	0 U	0
SB-6(N)	1/16/1997	4	0 U	0 U	0 U	0 U	0 U	0 U	0
SP-1(M)	9/30/1996	2.5	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007
SP-1(M)	9/30/1996	7	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007
SP-10(M)	9/30/1996	3	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007
SP-15(M)	10/1/1996	7	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007
SP-20(M)	10/1/1996	7	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007
SP-3(M)	9/30/1996	3	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007

TABLE D-4
SOIL ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	(g,h,i)perylene mg/kg	Benzo(k)fluoranthene mg/kg	Chrysene mg/kg	Fluoranthene mg/kg	Fluorene mg/kg	Indeno(1,2,3-cd)pyrene mg/kg	Phenanthrene mg/kg
SB-5(N)	1/16/1997	8 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
SB-6(N)	1/16/1997	4 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
SP-1(M)	9/30/1996	2.5 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U
SP-1(M)	9/30/1996	7 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U
SP-10(M)	9/30/1996	3 U	0.007 U	0.007 U	0.007 U	9	0.007 U	0.007 U	0.007 U
SP-15(M)	10/1/1996	7 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U
SP-20(M)	10/1/1996	7 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U
SP-3(M)	9/30/1996	3 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U

TABLE D-4
SOIL ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	Pyrene mg/kg
SB-5(N)	1/16/1997	8	0 U
SB-6(N)	1/16/1997	4	0 U
SP-1(M)	9/30/1996	2.5	0.007 U
SP-1(M)	9/30/1996	7	0.007 U
SP-10(M)	9/30/1996	3	0.007 U
SP-15(M)	10/1/1996	7	0.007 U
SP-20(M)	10/1/1996	7	0.007 U
SP-3(M)	9/30/1996	3	0.007 U

TABLE D-5
SOIL ANALYTICAL DATA - METALS

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

Locator ID	SAMPLE DATE	DEPTH	Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
2A(P)	1/6/1991	-								U
3A(P)	1/6/1991	-								U
6A(P)	1/6/1991	-								U
7A(P)	1/6/1991	-								U
7A(P)	1/6/1991	-								U
AOSI-001(P)	2/22/1986	-		0.2 U	0.3	0.01 U	0.1 U		0.1 U	0.005 U
AOSI-002(P)	2/22/1986	-		0.2 U	0.3	0.01 U	0.1 U		0.1 U	0.005 U
AOSI-003(P)	2/22/1986	-		0.2 U	0.3	0.01 U	0.1 U		0.1 U	0.005 U
AOSI-004(P)	2/22/1986	-		0.2 U	0.2	0.01 U	0.1 U		0.1 U	0.005 U
AOSI-005(P)	2/22/1986	-		0.2 U	0.2	0.01 U	0.1 U		0.1 U	0.005 U
OEX4(F)	8/10/1994	30			0 U					0 U
SP-1(M)	9/30/1996	2.5		8	56	0 U	57		200	0 U
SP-1(M)	9/30/1996	7		2	37	0 U	15		10 U	0 U
SP-10(M)	9/30/1996	3		2	32	0 U	9		10 U	0 U
SP-15(M)	10/1/1996	7		3	36	0 U	13		10 U	0 U
SP-20(M)	10/1/1996	7		2	29	0 U	7		10 U	0 U
SP-3(M)	9/30/1996	3		48	40	0 U	10		10 U	0 U
SP-3(M)	9/30/1996	7		1						

TABLE D-5
SOIL ANALYTICAL DATA - METALS

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

Locator ID	SAMPLE DATE	DEPTH	Nickel mg/kg	Selenium mg/kg	Silver mg/kg	Zinc mg/kg
2A(P)	1/6/1991	-				
3A(P)	1/6/1991	-				
6A(P)	1/6/1991	-				
7A(P)	1/6/1991	-				
7A(P)	1/6/1991	-				
AOSI-001(P)	2/22/1986	-		0.3 U	0.1 U	
AOSI-002(P)	2/22/1986	-		0.3 U	0.1 U	
AOSI-003(P)	2/22/1986	-		0.3 U	0.1 U	
AOSI-004(P)	2/22/1986	-		0.3 U	0.1 U	
AOSI-005(P)	2/22/1986	-		0.3 U	0.1 U	
OEX4(F)	8/10/1994	30				
SP-1(M)	9/30/1996	2.5		0 U	1 U	
SP-1(M)	9/30/1996	7		0 U	1 U	
SP-10(M)	9/30/1996	3		0 U	1 U	
SP-15(M)	10/1/1996	7		0 U	1 U	
SP-20(M)	10/1/1996	7		0 U	1 U	
SP-3(M)	9/30/1996	3		0 U	1 U	
SP-3(M)	9/30/1996	7				

TABLE D-6
SOIL ANALYTICAL DATA - LEACHABLE METALS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L	Lead mg/L	Mercury mg/L	Selenium mg/L	Silver mg/L
SS-1(P)	6/16/1986	-	0.2 U	0.2	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U
SS-2(P)	6/16/1986	-	0.2 U	0.3	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U
SS-3(P)	6/16/1986	-	0.2 U	0.2	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U
SS-3(P)	6/16/1986	-	0.2 U	0.1 U	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U
SS-4(P)	6/16/1986	-	0.2 U	0.3	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U
SS-4(P)	6/16/1986	-	0.2 U	0.2	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U
SS-4(P)	6/16/1986	-	0.2 U	0.2	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U
SS-5(P)	6/16/1986	-	0.2 U	0.2	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U
SS-5(P)	6/16/1986	-	0.2 U	0.2	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U
SS-6(P)	6/16/1986	-	0.2 U	0.3	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U
SS-7(P)	6/16/1986	-	0.2 U	0.2	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U
SS-7(P)	6/16/1986	-	0.2 U	0.2	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U
SS-7(P)	6/16/1986	-	0.2 U	0.2	0.01 U	0.1 U	0.1 U	0.005 U	0.2 U	0.1 U

TABLE D-7
GROUND-WATER ANALYTICAL DATA - HCID

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

LOCATOR ID	SAMPLE DATE	Diesel Fuel	Gasoline	OIL
		mg/L	mg/L	mg/L
Boring#1-D(Q)	8/7/1997	50 U	0 U	
BoringB(Q)	8/8/1997	50 U	Present	100 U
BoringB(Q)	8/8/1997	50 U	Present	100 U
DUP(F)	11/4/1991	1 U		
FBK(F)	11/4/1991	1 U		
MW-1(C)	5/15/1991	1 U	1 U	1 U
MW-2(C)	5/15/1991	1 U	1 U	1 U
MW-3(C)	5/15/1991	1 U	1 U	1 U
MW-4(C)	5/15/1991	1 U	1 U	1 U
MW-5(C)	5/15/1991	1 U	1 U	1 U
MW-6(C)	5/15/1991	1 U	1 U	1 U

TABLE D-8
GROUND-WATER ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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

LOCATOR ID	SAMPLE DATE	Total Petroleum Hydrocarbons (TPH) mg/L	Diesel Fuel (TPHD) ug/L	Gasoline (TPHG) ug/L	JP-4 ug/L	Kerosene ug/L	Lube Oil ug/L	Mineral Spirits ug/L	Oil and Grease mg/L
9640(Q)	5/24/1997			2600					
B1(C)	5/23/1990	19							
B2(C)	5/23/1990	18							
B3(C)	5/23/1990	11							
B4(C)	5/24/1990	18							
Boring#1-D(Q)	8/7/1997			13000					
BoringB(Q)	8/8/1997			8000					
BoringB(Q)	8/8/1997			4000					
HA(F)	2/1/1991	4							
HA(F)	2/4/1991	8							
Johnson(F)	12/14/1990	U							
MW-1(C)	5/19/1993	U		50 U					
MW-1(C)	5/15/1991			50 U					
MW-1(F)	11/4/1991		1000						
MW-1(F)	3/9/1994			50 U					
MW-1(F)	7/11/1994			50 U					
MW-2(C)	5/19/1993	U		50 U					
MW-2(C)	5/15/1991			50 U					
MW-2(C)	12/1/1993			50 U					
MW-2(F)	11/4/1991		1000						
MW-2(F)	9/15/1995			50 U					
MW-2(F)	3/9/1994			50 U					
MW-2(F)	7/11/1994			50 U					
MW-3(C)	3/31/1993			50 U					
MW-3(C)	5/15/1991			50 U					
MW-3(F)	11/4/1991		8000						

TABLE D-8
GROUND-WATER ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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

LOCATOR ID	SAMPLE DATE	Total Petroleum Hydrocarbons (TPH) mg/L	Diesel Fuel (TPHD) ug/L	Gasoline (TPHG) ug/L	JP-4 ug/L	Kerosene ug/L	Lube Oil ug/L	Mineral Spirits ug/L	Oil and Grease mg/L
MW-4(C)	5/15/1991			50 U					
MW-5(C)	5/15/1991			50 U					
MW-6(C)	5/19/1993			50 U					
MW-6(C)	5/15/1991			50 U					
MW-X(F)	1/6/1992	0 U							
RW-1(F)	12/14/1990	540							
RW-1(N)	1/28/1998		70400	17000			11000		
RW-2(F)	12/14/1990	94							
SB-1(N)	1/16/1997		505	50 U			200 U		
SB-3(N)	1/16/1997		3400	17000			200 U		
SB-4(N)	1/16/1997		5990	91000			200 U		
SB-5(N)	1/16/1997		2560	32000			200 U		
SB-6(N)	1/16/1997		4230	11400			200 U		
SP-1(M)	9/30/1996	1							
SP-16(M)	10/1/1996	0 U							
SP-20(M)	10/1/1996	0 U							
SP-21(M)	10/2/1996	0 U							
SP-24(M)	10/2/1996	0 U							
SP-6(M)	9/30/1996	0 U							
SP-7(M)	9/30/1996	0 U							
SP-9(M)	10/1/1996	0 U							
SSP(F)	7/11/1994			5260					
SSP(F)	7/14/1994		480000						
T-Pit(P)	3/31/1993	680					770000		770
T-Pit(P)	3/31/1993						90000		90
VH(F)	3/9/1994		54	50 U		50 U	276	50 U	

TABLE D-8
GROUND-WATER ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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

LOCATOR ID	SAMPLE DATE	Total Petroleum Hydrocarbons (TPH)	Diesel Fuel (TPHD)	Gasoline (TPHG)	JP-4	Kerosene	Lube Oil	Mineral Spirits	Oil and Grease
		mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L
VH(F)	3/9/1994			50 U					
VH(F)	3/9/1994				50 U				
VH(F)	7/11/1994		50 U	572	50 U	50 U	200 U	50 U	
VH(F)	1/27/1994			50 U					
VH(F)	3/21/1994		50 U	7040	50 U	50 U	200 U	50 U	
VH(F)	3/21/1994			6480					
VH(F)	3/3/1994			50 U					
VH(F)	1/27/1994			15000					
VH(F)	1/7/1994			3800					

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	1,2,4-Trichlorobenzene	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
9640(Q)	5/24/1997						
9640(Q)	5/24/1997						
B1(C)	5/23/1990						
B14(N)	1/28/1998		0 U		0 U		
B15(N)	1/28/1998		0 U		0 U		
B2(C)	5/23/1990						
B3(C)	5/23/1990						
B4(C)	5/24/1990						
B6(C)	5/24/1990						
Boring#1-D(Q)	8/7/1997						
BoringB(Q)	8/8/1997						
BoringB(Q)	8/8/1997						
CAF(C)	9/14/1992						
DUP(F)	11/4/1991				1 U		
FBK(F)	11/4/1991				1 U		
FBK(F)	12/5/1991						
Gas Pit Water(C)	1/10/1992						
MW-1(C)	8/18/1997						
MW-1(C)	2/3/1994						
MW-1(C)	5/19/1993						
MW-1(C)	5/19/1993						
MW-1(C)	5/19/1993						
MW-1(C)	5/19/1993						
MW-1(C)	3/2/1992						
MW-1(C)	5/15/1991						

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	1,2,4-Trichlorobenzene	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(C)	2/3/1994						
MW-1(C)	9/14/1992						
MW-1(C)	9/14/1992						
MW-1(C)	3/2/1992						
MW-1(F)	11/4/1991				1 U		
MW-1(F)	12/4/1991						
MW-1(F)	3/9/1994						
MW-1(F)	7/11/1994						
MW-2(C)	8/18/1997						
MW-2(C)	5/19/1993						
MW-2(C)	5/19/1993						
MW-2(C)	5/19/1993						
MW-2(C)	5/19/1993						
MW-2(C)	3/2/1992						
MW-2(C)	5/15/1991						
MW-2(C)	9/14/1992						
MW-2(C)	12/1/1993						
MW-2(F)	11/4/1991				1 U		
MW-2(F)	9/15/1995						
MW-2(F)	3/9/1994						
MW-2(F)	7/11/1994						
MW-3(C)	9/7/1993						
MW-3(C)	9/7/1993						
MW-3(C)	3/31/1993						
MW-3(C)	3/31/1993						

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	1,2,4-Trichlorobenzene ug/L	1,2-Dibromoethane ug/L	1,2-Dichlorobenzene ug/L	1,2-Dichloroethane ug/L	1,3-Dichlorobenzene ug/L	1,4-Dichlorobenzene ug/L
MW-3(C)	3/31/1993						
MW-3(C)	3/31/1993						
MW-3(C)	5/15/1991						
MW-3(C)	2/3/1994						
MW-3(C)	9/14/1992						
MW-3(F)	11/4/1991				1 U		
MW-4(C)	6/23/1993						
MW-4(C)	5/15/1991						
MW-4(C)	2/3/1994						
MW-4(C)	9/14/1992						
MW-4(C)	6/23/1993						
MW-4(F)	12/3/1991						
MW-5(C)	5/19/1993						
MW-5(C)	5/15/1991						
MW-6(C)	9/7/1993						
MW-6(C)	5/19/1993						
MW-6(C)	5/19/1993						
MW-6(C)	5/19/1993						
MW-6(C)	5/15/1991						
MW-6(C)	2/3/1994						
MW-D(C)	5/19/1993						
MW-X(F)	1/6/1992						
RW-1(F)	12/12/1990						
RW-1(F)	12/14/1990						
RW-1(N)	1/28/1998	10 U	5	10 U	5	10 U	10 U

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	1,2,4-Trichlorobenzene	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
RW-2(F)	12/14/1990						
SB-1(N)	1/16/1997						
SB-3(N)	1/16/1997						
SB-4(N)	1/16/1997						
SB-5(N)	1/16/1997						
SB-6(N)	1/16/1997						
SP-1(M)	9/30/1996						
SP-16(M)	10/1/1996						
SP-20(M)	10/1/1996						
SP-21(M)	10/2/1996						
SP-24(M)	10/2/1996						
SP-6(M)	9/30/1996						
SP-7(M)	9/30/1996						
SP-9(M)	10/1/1996						
SS-1(AO)	6/16/1986						
SS-2(AO)	6/16/1986				U		
SS-3(AO)	6/16/1986						
SS-3(AO)	6/16/1986				U		
SS-5(AO)	6/16/1986				U		
SS-5(AO)	6/16/1986				U		
SS-6(AO)	6/16/1986				U		
SS-7(AO)	6/16/1986				U		
SS-7(AO)	6/16/1986				U		
SS-7(AO)	6/16/1986						
SS-7(AO)	6/16/1986				U		

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	1,2,4- Trichlorobenzene	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SSP(F)	7/11/1994						
TB-LB(C)	5/19/1993						
TB-LB(C)	2/3/1994						
T-Pit(P)	3/31/1993						
VH(F)	3/9/1994						
VH(F)	1/27/1994						
VH(F)	3/21/1994						
VH(F)	3/3/1994						
VH(F)	1/27/1994						

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	4-Bromophenyl phenyl ether ug/L	4-Chlorophenyl phenyl ether ug/L
9640(Q)	5/24/1997		
9640(Q)	5/24/1997		
B1(C)	5/23/1990		
B14(N)	1/28/1998		
B15(N)	1/28/1998		
B2(C)	5/23/1990		
B3(C)	5/23/1990		
B4(C)	5/24/1990		
B6(C)	5/24/1990		
Boring#1-D(Q)	8/7/1997		
BoringB(Q)	8/8/1997		
BoringB(Q)	8/8/1997		
CAF(C)	9/14/1992		
DUP(F)	11/4/1991		
FBK(F)	11/4/1991		
FBK(F)	12/5/1991		
Gas Pit Water(C)	1/10/1992		
MW-1(C)	8/18/1997		
MW-1(C)	2/3/1994		
MW-1(C)	5/19/1993		
MW-1(C)	5/19/1993		
MW-1(C)	5/19/1993		
MW-1(C)	5/19/1993		
MW-1(C)	3/2/1992		
MW-1(C)	5/15/1991		

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	4-Bromophenyl phenyl ether ug/L	4-Chlorophenyl phenyl ether ug/L
MW-1(C)	2/3/1994		
MW-1(C)	9/14/1992		
MW-1(C)	9/14/1992		
MW-1(C)	3/2/1992		
MW-1(F)	11/4/1991		
MW-1(F)	12/4/1991		
MW-1(F)	3/9/1994		
MW-1(F)	7/11/1994		
MW-2(C)	8/18/1997		
MW-2(C)	5/19/1993		
MW-2(C)	5/19/1993		
MW-2(C)	5/19/1993		
MW-2(C)	5/19/1993		
MW-2(C)	3/2/1992		
MW-2(C)	5/15/1991		
MW-2(C)	9/14/1992		
MW-2(C)	12/1/1993		
MW-2(F)	11/4/1991		
MW-2(F)	9/15/1995		
MW-2(F)	3/9/1994		
MW-2(F)	7/11/1994		
MW-3(C)	9/7/1993		
MW-3(C)	9/7/1993		
MW-3(C)	3/31/1993		
MW-3(C)	3/31/1993		

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	4-Bromophenyl phenyl ether ug/L	4-Chlorophenyl phenyl ether ug/L
MW-3(C)	3/31/1993		
MW-3(C)	3/31/1993		
MW-3(C)	5/15/1991		
MW-3(C)	2/3/1994		
MW-3(C)	9/14/1992		
MW-3(F)	11/4/1991		
MW-4(C)	6/23/1993		
MW-4(C)	5/15/1991		
MW-4(C)	2/3/1994		
MW-4(C)	9/14/1992		
MW-4(C)	6/23/1993		
MW-4(F)	12/3/1991		
MW-5(C)	5/19/1993		
MW-5(C)	5/15/1991		
MW-6(C)	9/7/1993		
MW-6(C)	5/19/1993		
MW-6(C)	5/19/1993		
MW-6(C)	5/19/1993		
MW-6(C)	5/15/1991		
MW-6(C)	2/3/1994		
MW-D(C)	5/19/1993		
MW-X(F)	1/6/1992		
RW-1(F)	12/12/1990		
RW-1(F)	12/14/1990		
RW-1(N)	1/28/1998	10 U	10 U

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	4-Bromophenyl phenyl ether ug/L	4-Chlorophenyl phenyl ether ug/L
RW-2(F)	12/14/1990		
SB-1(N)	1/16/1997		
SB-3(N)	1/16/1997		
SB-4(N)	1/16/1997		
SB-5(N)	1/16/1997		
SB-6(N)	1/16/1997		
SP-1(M)	9/30/1996		
SP-16(M)	10/1/1996		
SP-20(M)	10/1/1996		
SP-21(M)	10/2/1996		
SP-24(M)	10/2/1996		
SP-6(M)	9/30/1996		
SP-7(M)	9/30/1996		
SP-9(M)	10/1/1996		
SS-1(AO)	6/16/1986		
SS-2(AO)	6/16/1986		
SS-3(AO)	6/16/1986		
SS-3(AO)	6/16/1986		
SS-5(AO)	6/16/1986		
SS-5(AO)	6/16/1986		
SS-6(AO)	6/16/1986		
SS-7(AO)	6/16/1986		
SS-7(AO)	6/16/1986		
SS-7(AO)	6/16/1986		
SS-7(AO)	6/16/1986		

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	4-Bromophenyl phenyl ether ug/L	4-Chlorophenyl phenyl ether ug/L
SSP(F)	7/11/1994		
TB-LB(C)	5/19/1993		
TB-LB(C)	2/3/1994		
T-Pit(P)	3/31/1993		
VH(F)	3/9/1994		
VH(F)	1/27/1994		
VH(F)	3/21/1994		
VH(F)	3/3/1994		
VH(F)	1/27/1994		

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	Dibenzo(a,h)anthracene	Ethylbenzene
		ug/L	ug/L	ug/L	ug/L	ug/L
9640(Q)	5/24/1997	4600				49000
9640(Q)	5/24/1997	4600				49000
B1(C)	5/23/1990	0 U				0 U
B14(N)	1/28/1998	4				0 U
B15(N)	1/28/1998	0 U				0 U
B2(C)	5/23/1990	0 U				0 U
B3(C)	5/23/1990	0 U				0 U
B4(C)	5/24/1990	0 U				0 U
B6(C)	5/24/1990	0 U				0 U
Boring#1-D(Q)	8/7/1997	5 U				5 U
BoringB(Q)	8/8/1997	2200				86
BoringB(Q)	8/8/1997	1800				60
CAF(C)	9/14/1992	0 U				0 U
DUP(F)	11/4/1991	0 U			0 U	0 U
FBK(F)	11/4/1991	0 U			0 U	0 U
FBK(F)	12/5/1991	0 U				0 U
Gas Pit Water(C)	1/10/1992	1000				0 U
MW-1(C)	8/18/1997	0 U				0 U
MW-1(C)	2/3/1994	0 U				0 U
MW-1(C)	5/19/1993	0 U				0 U
MW-1(C)	5/19/1993	0 U				1 U
MW-1(C)	5/19/1993	0 U				4
MW-1(C)	5/19/1993	0 U				4
MW-1(C)	3/2/1992	0 U				0 U
MW-1(C)	5/15/1991	0				0 U

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	Dibenzo(a,h)anthracene	Ethylbenzene
		ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(C)	2/3/1994	0 U				0 U
MW-1(C)	9/14/1992	0 U				0 U
MW-1(C)	9/14/1992	0 U				0 U
MW-1(C)	3/2/1992	0 U				0 U
MW-1(F)	11/4/1991	0 U			0 U	0 U
MW-1(F)	12/4/1991				0 U	
MW-1(F)	3/9/1994	2				1 U
MW-1(F)	7/11/1994	1				1 U
MW-2(C)	8/18/1997	0 U				0 U
MW-2(C)	5/19/1993	0 U				0 U
MW-2(C)	5/19/1993	0 U				1 U
MW-2(C)	5/19/1993	0 U				0 U
MW-2(C)	5/19/1993	0 U				0 U
MW-2(C)	3/2/1992	0 U				0 U
MW-2(C)	5/15/1991	0 U				0 U
MW-2(C)	9/14/1992	0 U				0 U
MW-2(C)	12/1/1993	0 U				1 U
MW-2(F)	11/4/1991	73			0 U	4
MW-2(F)	9/15/1995	0 U				1 U
MW-2(F)	3/9/1994	0 U				1 U
MW-2(F)	7/11/1994	0 U				1 U
MW-3(C)	9/7/1993	0 U				1 U
MW-3(C)	9/7/1993	0 U				1 U
MW-3(C)	3/31/1993	0 U				1 U
MW-3(C)	3/31/1993	0 U				1 U

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	Dibenzo(a,h)anthracene	Ethylbenzene
		ug/L	ug/L	ug/L	ug/L	ug/L
MW-3(C)	3/31/1993	0 U				0 U
MW-3(C)	3/31/1993	0 U				1 U
MW-3(C)	5/15/1991	0 U				0 U
MW-3(C)	2/3/1994	0 U				0 U
MW-3(C)	9/14/1992	0 U				0 U
MW-3(F)	11/4/1991	3800			0 U	2400
MW-4(C)	6/23/1993	0 U				1 U
MW-4(C)	5/15/1991	0 U				0 U
MW-4(C)	2/3/1994	0 U				0 U
MW-4(C)	9/14/1992	0 U				0 U
MW-4(C)	6/23/1993	0 U				1 U
MW-4(F)	12/3/1991				0 U	
MW-5(C)	5/19/1993	0 U				0 U
MW-5(C)	5/15/1991	0 U				0 U
MW-6(C)	9/7/1993	0 U				1 U
MW-6(C)	5/19/1993	0 U				1 U
MW-6(C)	5/19/1993	0 U				0 U
MW-6(C)	5/19/1993	0 U				1 U
MW-6(C)	5/15/1991	0 U				0 U
MW-6(C)	2/3/1994	0 U				0 U
MW-D(C)	5/19/1993	0 U				0 U
MW-X(F)	1/6/1992	0 U				0 U
RW-1(F)	12/12/1990	5050				7610
RW-1(F)	12/14/1990	5460				33300
RW-1(N)	1/28/1998	5	10 U	10 U	10 U	48

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	Dibenzo(a,h)anthracene	Ethylbenzene
		ug/L	ug/L	ug/L	ug/L	ug/L
RW-2(F)	12/14/1990	35600				2570
SB-1(N)	1/16/1997	0 U				1 U
SB-3(N)	1/16/1997	0 U				990
SB-4(N)	1/16/1997	358			1	2000
SB-5(N)	1/16/1997	72				890
SB-6(N)	1/16/1997	23				480
SP-1(M)	9/30/1996	0 U			0 U	0 U
SP-16(M)	10/1/1996	0 U				0 U
SP-20(M)	10/1/1996	0 U				0 U
SP-21(M)	10/2/1996	0 U				0 U
SP-24(M)	10/2/1996	0 U				0 U
SP-6(M)	9/30/1996	0 U				0 U
SP-7(M)	9/30/1996	0 U				0 U
SP-9(M)	10/1/1996	0 U				0 U
SS-1(AO)	6/16/1986	U				U
SS-2(AO)	6/16/1986	U				U
SS-3(AO)	6/16/1986					
SS-3(AO)	6/16/1986	U				U
SS-5(AO)	6/16/1986	U				U
SS-5(AO)	6/16/1986	U				U
SS-6(AO)	6/16/1986	U				U
SS-7(AO)	6/16/1986	U				U
SS-7(AO)	6/16/1986	U				U
SS-7(AO)	6/16/1986					
SS-7(AO)	6/16/1986	U				U

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	Dibenzo(a,h)anthracene	Ethylbenzene
		ug/L	ug/L	ug/L	ug/L	ug/L
SSP(F)	7/11/1994	76				96
TB-LB(C)	5/19/1993	0 U				0 U
TB-LB(C)	2/3/1994	0 U				0 U
T-Pit(P)	3/31/1993	13 U				13 U
VH(F)	3/9/1994	0 U				1 U
VH(F)	1/27/1994	1 U				1 U
VH(F)	3/21/1994	51				2
VH(F)	3/3/1994	0 U				1 U
VH(F)	1/27/1994	210				10 U

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	Ethylene Dibromide	Hexachlorobutadiene	m,p-Xylene (Sum of Isomers)	Naphthalene	n-Nitrosodi-n-propylamine
		ug/L	ug/L	ug/L	ug/L	ug/L
9640(Q)	5/24/1997					
9640(Q)	5/24/1997					
B1(C)	5/23/1990			0 U		
B14(N)	1/28/1998					
B15(N)	1/28/1998					
B2(C)	5/23/1990			0 U		
B3(C)	5/23/1990			0 U		
B4(C)	5/24/1990			0 U		
B6(C)	5/24/1990			0 U		
Boring#1-D(Q)	8/7/1997					
BoringB(Q)	8/8/1997					
BoringB(Q)	8/8/1997					
CAF(C)	9/14/1992					
DUP(F)	11/4/1991	1 U			0 U	
FBK(F)	11/4/1991	1 U			0 U	
FBK(F)	12/5/1991					
Gas Pit Water(C)	1/10/1992					
MW-1(C)	8/18/1997					
MW-1(C)	2/3/1994					
MW-1(C)	5/19/1993			13		
MW-1(C)	5/19/1993			13		
MW-1(C)	5/19/1993					
MW-1(C)	5/19/1993					
MW-1(C)	3/2/1992					
MW-1(C)	5/15/1991					

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	Ethylene Dibromide	Hexachlorobutadiene	m,p-Xylene (Sum of Isomers)	Naphthalene	n-Nitrosodi-n-propylamine
		ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(C)	2/3/1994	1 U			0 U 0 U	
MW-1(C)	9/14/1992					
MW-1(C)	9/14/1992					
MW-1(C)	3/2/1992					
MW-1(F)	11/4/1991					
MW-1(F)	12/4/1991					
MW-1(F)	3/9/1994					
MW-1(F)	7/11/1994					
MW-2(C)	8/18/1997					
MW-2(C)	5/19/1993					
MW-2(C)	5/19/1993	1 U		3 3	0 U	
MW-2(C)	5/19/1993					
MW-2(C)	5/19/1993					
MW-2(C)	5/19/1993					
MW-2(C)	3/2/1992					
MW-2(C)	5/15/1991					
MW-2(C)	9/14/1992					
MW-2(C)	12/1/1993					
MW-2(F)	11/4/1991					
MW-2(F)	9/15/1995					
MW-2(F)	3/9/1994					
MW-2(F)	7/11/1994					
MW-3(C)	9/7/1993					
MW-3(C)	9/7/1993					
MW-3(C)	3/31/1993					
MW-3(C)	3/31/1993					
MW-3(C)	3/31/1993					

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	Ethylene Dibromide	Hexachlorobutadiene	m,p-Xylene (Sum of Isomers)	Naphthalene	n-Nitrosodi-n-propylamine	
		ug/L	ug/L	ug/L	ug/L	ug/L	
MW-3(C)	3/31/1993	1 U			1100		
MW-3(C)	3/31/1993						
MW-3(C)	5/15/1991						
MW-3(C)	2/3/1994						
MW-3(C)	9/14/1992						
MW-3(F)	11/4/1991						
MW-4(C)	6/23/1993						
MW-4(C)	5/15/1991				0 U		
MW-4(C)	2/3/1994						
MW-4(C)	9/14/1992						
MW-4(C)	6/23/1993						
MW-4(F)	12/3/1991						
MW-5(C)	5/19/1993						
MW-5(C)	5/15/1991						
MW-6(C)	9/7/1993						
MW-6(C)	5/19/1993						
MW-6(C)	5/19/1993						
MW-6(C)	5/19/1993						
MW-6(C)	5/15/1991						
MW-6(C)	2/3/1994						
MW-D(C)	5/19/1993						
MW-X(F)	1/6/1992			0 U			
RW-1(F)	12/12/1990			20100			
RW-1(F)	12/14/1990			15400			
RW-1(N)	1/28/1998	10 U		1000	10 U		

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	Ethylene Dibromide	Hexachlorobutadiene	m,p-Xylene (Sum of Isomers)	Naphthalene	n-Nitrosodi-n-propylamine
		ug/L	ug/L	ug/L	ug/L	ug/L
RW-2(F)	12/14/1990			5140		
SB-1(N)	1/16/1997					
SB-3(N)	1/16/1997					
SB-4(N)	1/16/1997				1000	
SB-5(N)	1/16/1997					
SB-6(N)	1/16/1997					
SP-1(M)	9/30/1996				10 U	
SP-16(M)	10/1/1996					
SP-20(M)	10/1/1996					
SP-21(M)	10/2/1996					
SP-24(M)	10/2/1996					
SP-6(M)	9/30/1996					
SP-7(M)	9/30/1996					
SP-9(M)	10/1/1996					
SS-1(AO)	6/16/1986					
SS-2(AO)	6/16/1986					
SS-3(AO)	6/16/1986					
SS-3(AO)	6/16/1986					
SS-5(AO)	6/16/1986					
SS-5(AO)	6/16/1986					
SS-6(AO)	6/16/1986					
SS-7(AO)	6/16/1986					
SS-7(AO)	6/16/1986					
SS-7(AO)	6/16/1986					
SS-7(AO)	6/16/1986					

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	Ethylene Dibromide	Hexachlorobutadiene	m,p-Xylene (Sum of Isomers)	Naphthalene	n-Nitrosodi-n-propylamine
		ug/L	ug/L	ug/L	ug/L	ug/L
SSP(F)	7/11/1994					
TB-LB(C)	5/19/1993					
TB-LB(C)	2/3/1994					
T-Pit(P)	3/31/1993					
VH(F)	3/9/1994					
VH(F)	1/27/1994			1 U		
VH(F)	3/21/1994					
VH(F)	3/3/1994					
VH(F)	1/27/1994			700		

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	o-Xylene ug/L	Toluene ug/L	Xylenes ug/L
9640(Q)	5/24/1997		140000	360000
9640(Q)	5/24/1997		140000	360000
B1(C)	5/23/1990	0 U	0 U	
B14(N)	1/28/1998		2	2
B15(N)	1/28/1998		1	1
B2(C)	5/23/1990	0 U	0 U	
B3(C)	5/23/1990	0 U	0 U	
B4(C)	5/24/1990	0 U	0 U	
B6(C)	5/24/1990	0 U	2	
Boring#1-D(Q)	8/7/1997		5 U	5 U
BoringB(Q)	8/8/1997		1300	310
BoringB(Q)	8/8/1997		1100	220
CAF(C)	9/14/1992		0 U	0 U
DUP(F)	11/4/1991		0 U	0 U
FBK(F)	11/4/1991		0 U	0 U
FBK(F)	12/5/1991		1	0 U
Gas Pit Water(C)	1/10/1992		2000	2000
MW-1(C)	8/18/1997		0 U	2 U
MW-1(C)	2/3/1994		0 U	0 U
MW-1(C)	5/19/1993	5	0 U	0 U
MW-1(C)	5/19/1993	5	1 U	1 U
MW-1(C)	5/19/1993		38	
MW-1(C)	5/19/1993		38	
MW-1(C)	3/2/1992		0 U	0 U
MW-1(C)	5/15/1991		0 U	0 U

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	o-Xylene ug/L	Toluene ug/L	Xylenes ug/L
MW-1(C)	2/3/1994		0 U	0 U
MW-1(C)	9/14/1992		0 U	0 U
MW-1(C)	9/14/1992		0 U	0 U
MW-1(C)	3/2/1992		0 U	0 U
MW-1(F)	11/4/1991		0 U	0 U
MW-1(F)	12/4/1991			
MW-1(F)	3/9/1994		1 U	1 U
MW-1(F)	7/11/1994		1 U	1 U
MW-2(C)	8/18/1997		0 U	2 U
MW-2(C)	5/19/1993	5	0 U	0 U
MW-2(C)	5/19/1993	5	1 U	1 U
MW-2(C)	5/19/1993		0 U	
MW-2(C)	5/19/1993		0 U	
MW-2(C)	3/2/1992		0 U	0 U
MW-2(C)	5/15/1991		0 U	0 U
MW-2(C)	9/14/1992		0 U	0 U
MW-2(C)	12/1/1993		1 U	1 U
MW-2(F)	11/4/1991		0 U	2
MW-2(F)	9/15/1995		1 U	1 U
MW-2(F)	3/9/1994		1 U	1 U
MW-2(F)	7/11/1994		1 U	1 U
MW-3(C)	9/7/1993		1 U	1 U
MW-3(C)	9/7/1993		1 U	1 U
MW-3(C)	3/31/1993		1 U	1 U
MW-3(C)	3/31/1993		1 U	1 U

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	o-Xylene ug/L	Toluene ug/L	Xylenes ug/L
MW-3(C)	3/31/1993		0 U	0 U
MW-3(C)	3/31/1993		1 U	1 U
MW-3(C)	5/15/1991		0 U	0 U
MW-3(C)	2/3/1994		0 U	0 U
MW-3(C)	9/14/1992		0 U	0 U
MW-3(F)	11/4/1991		520	11000
MW-4(C)	6/23/1993		1 U	1 U
MW-4(C)	5/15/1991		0 U	0 U
MW-4(C)	2/3/1994		0 U	0 U
MW-4(C)	9/14/1992		0 U	0 U
MW-4(C)	6/23/1993		1 U	1 U
MW-4(F)	12/3/1991			
MW-5(C)	5/19/1993		0 U	0 U
MW-5(C)	5/15/1991		0 U	0 U
MW-6(C)	9/7/1993		1 U	1 U
MW-6(C)	5/19/1993		1 U	1 U
MW-6(C)	5/19/1993		0 U	0 U
MW-6(C)	5/19/1993		1 U	1 U
MW-6(C)	5/15/1991		0 U	0 U
MW-6(C)	2/3/1994		0 U	0 U
MW-D(C)	5/19/1993		0 U	0 U
MW-X(F)	1/6/1992	0 U	0 U	
RW-1(F)	12/12/1990	14700	13200	
RW-1(F)	12/14/1990	77100	29000	
RW-1(N)	1/28/1998		5	430

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	o-Xylene ug/L	Toluene ug/L	Xylenes ug/L
RW-2(F)	12/14/1990	3970	26500	
SB-1(N)	1/16/1997		1 U	1 U
SB-3(N)	1/16/1997		14	3100
SB-4(N)	1/16/1997		19000	12000
SB-5(N)	1/16/1997		2500	5200
SB-6(N)	1/16/1997		28	900
SP-1(M)	9/30/1996		0 U	1 U
SP-16(M)	10/1/1996		0 U	1 U
SP-20(M)	10/1/1996		0 U	1 U
SP-21(M)	10/2/1996		2	1 U
SP-24(M)	10/2/1996		0 U	1 U
SP-6(M)	9/30/1996		0 U	1 U
SP-7(M)	9/30/1996		0 U	1 U
SP-9(M)	10/1/1996		0 U	1 U
SS-1(AO)	6/16/1986		U	U
SS-2(AO)	6/16/1986		U	U
SS-3(AO)	6/16/1986			
SS-3(AO)	6/16/1986		U	U
SS-5(AO)	6/16/1986		U	U
SS-5(AO)	6/16/1986		U	U
SS-6(AO)	6/16/1986		U	U
SS-7(AO)	6/16/1986		U	U
SS-7(AO)	6/16/1986		U	U
SS-7(AO)	6/16/1986			
SS-7(AO)	6/16/1986		U	U

TABLE D-9
GROUND-WATER ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	o-Xylene ug/L	Toluene ug/L	Xylenes ug/L
SSP(F)	7/11/1994		1 U	6
TB-LB(C)	5/19/1993		0 U	0 U
TB-LB(C)	2/3/1994		0 U	0 U
T-Pit(P)	3/31/1993		13 U	13 U
VH(F)	3/9/1994		1 U	1 U
VH(F)	1/27/1994	1 U	1 U	
VH(F)	3/21/1994		4	170
VH(F)	3/3/1994		1 U	1 U
VH(F)	1/27/1994	73	10 U	

TABLE D-10
GROUND-WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	2,4,5- Trichlorophenol	2,4,6- Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4- Dinitrophenol	2,4-Dinitrotoluene	2,6- Dinitrotol
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP(F)	11/4/1991	10 U	10 U	10 U	10 U	25 U	10 U	10 U
FBK(F)	11/4/1991							
MW-1(F)	11/4/1991							
MW-1(F)	12/4/1991							
MW-2(F)	11/4/1991							
MW-3(F)	11/4/1991							
MW-4(F)	12/3/1991							
RW-1(N)	1/28/1998							
RW-1(N)	1/28/1998							
SB-4(N)	1/16/1997							
SP-1(M)	9/30/1996							

TABLE D-10
GROUND-WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	uene
DUP(F)	11/4/1991	
FBK(F)	11/4/1991	
MW-1(F)	11/4/1991	
MW-1(F)	12/4/1991	
MW-2(F)	11/4/1991	
MW-3(F)	11/4/1991	
MW-4(F)	12/3/1991	
RW-1(N)	1/28/1998	
RW-1(N)	1/28/1998	
SB-4(N)	1/16/1997	
SP-1(M)	9/30/1996	

TABLE D-10
GROUND-WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	2-Chloronaphthalene	2- Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3- Dichlorobenzidine
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP(F)	11/4/1991	10 U	10 U	5 U	10 U	25 U	10 U	10 U
FBK(F)	11/4/1991			5 U				
MW-1(F)	11/4/1991			5 U				
MW-1(F)	12/4/1991			0 U				
MW-2(F)	11/4/1991			5 U				
MW-3(F)	11/4/1991			310				
MW-4(F)	12/3/1991			0 U				
RW-1(N)	1/28/1998			2100				
RW-1(N)	1/28/1998							
SB-4(N)	1/16/1997							
SP-1(M)	9/30/1996							

TABLE D-10
GROUND-WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	3-Nitroaniline	4- Chloroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Aniline	Anthracene
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP(F)	11/4/1991	25 U	10 U	25 U	0 U	0 U	25 U	0 U
FBK(F)	11/4/1991				0 U	0 U		0 U
MW-1(F)	11/4/1991				0 U	0 U		0 U
MW-1(F)	12/4/1991				0 U	0 U		0 U
MW-2(F)	11/4/1991				0 U	0 U		0 U
MW-3(F)	11/4/1991				0 U	0 U		0 U
MW-4(F)	12/3/1991				0 U	0 U		0 U
RW-1(N)	1/28/1998				10 U	10 U		10 U
RW-1(N)	1/28/1998				10	200		1
SB-4(N)	1/16/1997				10 U	10 U		10 U
SP-1(M)	9/30/1996							

TABLE D-10
GROUND-WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP(F)	11/4/1991	0 U	0 U	0 U	0 U	0 U	25 U	10 U
FBK(F)	11/4/1991	0 U	0 U	0 U	0 U	0 U		
MW-1(F)	11/4/1991	0 U	0 U	0 U	0 U	0 U		
MW-1(F)	12/4/1991	0 U	0 U	0 U	0 U	0 U		
MW-2(F)	11/4/1991	0 U	0 U	0 U	0 U	0 U		
MW-3(F)	11/4/1991	0 U	0 U	0 U	0 U	0 U		
MW-4(F)	12/3/1991	0 U	0 U	0 U	0 U	0 U		
RW-1(N)	1/28/1998	10 U	10 U	10 U	10 U	10 U		
RW-1(N)	1/28/1998							
SB-4(N)	1/16/1997	1	1	2	2	1		
SP-1(M)	9/30/1996	0 U	0 U	0 U	0 U	0 U		

TABLE D-10
GROUND-WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	bis(2- Chloroisopropyl)ether ug/L	bis-(2-ethylhexyl)phthalate ug/L	Chrysene ug/L	Dibenzofuran ug/L	Diethyl phthalate ug/L	Dimethyl phthalate ug/L	Di-n-butyl phthalate ug/L
DUP(F)	11/4/1991	10 U	10 U	0 U	10 U	10 U	10 U	10 U
FBK(F)	11/4/1991			0 U				
MW-1(F)	11/4/1991			0 U				
MW-1(F)	12/4/1991			0 U				
MW-2(F)	11/4/1991			0 U				
MW-3(F)	11/4/1991			0 U				
MW-4(F)	12/3/1991			0 U				
RW-1(N)	1/28/1998			10 U				
RW-1(N)	1/28/1998							
SB-4(N)	1/16/1997			1				
SP-1(M)	9/30/1996			0 U				

TABLE D-10
GROUND-WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	ntyl ate
DUP(F)	11/4/1991	
FBK(F)	11/4/1991	
MW-1(F)	11/4/1991	
MW-1(F)	12/4/1991	
MW-2(F)	11/4/1991	
MW-3(F)	11/4/1991	
MW-4(F)	12/3/1991	
RW-1(N)	1/28/1998	
RW-1(N)	1/28/1998	
SB-4(N)	1/16/1997	
SP-1(M)	9/30/1996	

TABLE D-10
GROUND-WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP(F)	11/4/1991	10 U	0 U	0 U	10 U	10 U	10 U	0 U
FBK(F)	11/4/1991		0 U	0 U				0 U
MW-1(F)	11/4/1991		0 U	0 U				0 U
MW-1(F)	12/4/1991		0 U	0 U				0 U
MW-2(F)	11/4/1991		0 U	0 U				0 U
MW-3(F)	11/4/1991		0 U	0 U				0 U
MW-4(F)	12/3/1991		0 U	0 U				0 U
RW-1(N)	1/28/1998		10 U	10 U				10 U
RW-1(N)	1/28/1998							
SB-4(N)	1/16/1997		2	2				1
SP-1(M)	9/30/1996		0 U	10 U				0 U

TABLE D-10
GROUND-WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	3-cd)pyrene	Isophorone	Nitrobenzene	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene
		g/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP(F)	11/4/1991							0 U
FBK(F)	11/4/1991							0 U
MW-1(F)	11/4/1991							0 U
MW-1(F)	12/4/1991							0 U
MW-2(F)	11/4/1991							0 U
MW-3(F)	11/4/1991							0 U
MW-4(F)	12/3/1991							0 U
RW-1(N)	1/28/1998		10 U	10 U	25 U	10 U	25 U	10 U
RW-1(N)	1/28/1998							
SB-4(N)	1/16/1997							1
SP-1(M)	9/30/1996							10 U

TABLE D-10
GROUND-WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	Phenol ug/L	Pyrene ug/L
DUP(F)	11/4/1991	10 U	0 U
FBK(F)	11/4/1991		0 U
MW-1(F)	11/4/1991		0 U
MW-1(F)	12/4/1991		0 U
MW-2(F)	11/4/1991		0 U
MW-3(F)	11/4/1991		0 U
MW-4(F)	12/3/1991		0 U
RW-1(N)	1/28/1998		10 U
RW-1(N)	1/28/1998		
SB-4(N)	1/16/1997		2
SP-1(M)	9/30/1996		8

TABLE D-11
STORM-WATER ANALYTICAL DATA - PETROLEUM HYDROCARBONS

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

LOCATOR ID	SAMPLE DATE	PHC as Lube Oil
		ug/L
Pier3N(P)	11/14/2001	5 U
Pier3W(P)	11/14/2001	5 U

TABLE D-12
STORM-WATER ANALYTICAL DATA - INORGANICS

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

LOCATOR ID	SAMPLE DATE	Chemical Oxygen Demand ug/L	pH pH Units	Phosphorus, Total (as P) ug/L	Suspended Solids ug/L
Pier3N(P)	11/14/2001	31	7	0.15	62
Pier3W(P)	11/14/2001	45	6.19	0.11	48
Pier3W(P)	11/14/2001	3.5			

TABLE D-13
STORM-WATER ANALYTICAL DATA - METALS

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

LOCATOR ID	SAMPLE DATE	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Pier3N(P)	11/14/2001	10 U	5 U	5 U	20	16.4	0.2 U	20 U	149
Pier3W(P)	11/14/2001	10 U	5 U	5 U	12	5.6	0.2 U	20 U	208

TABLE D-14
SEDIMENT ANALYTICAL DATA - VOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	1,2,4- Trichlorobenzene	1,2- Dichlorobenzene	1,4- Dichlorobenzene	Benzyl butyl phthalate	Dibenzo(a,h) anthracene	Hexachloro butadiene	Naphthalene
			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Slip1(P)	8/6/1999	-	2 U	2 U	2 U	3 U	4	2 U	4
Slip2(P)	8/6/1999	-	3	2 U	2 U	3 U	2	2 U	3

TABLE D-15
SEDIMENT ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	2,4-Dimethylphenol ug/kg	2-Methylnaphthalene ug/kg	2-Methylphenol (o-Cresol) ug/kg	4,4'-DDD ug/kg	4,4'-DDE ug/kg	4,4'-DDT ug/kg	4-Methylphenol (p-Cresol) ug/kg	Acenaphthene ug/kg
Slip1(P)	8/6/1999	-		3	30 U	2 U	2	2 U	50 U	6
Slip1(P)	8/6/1999	-	50 U							
Slip2(P)	8/6/1999	-								
Slip2(P)	8/6/1999	-	50 U	2	30 U	2 U	2 U	2 U	50 U	2

TABLE D-15
SEDIMENT ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	Acenaphthylene	Aldrin	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i) perylene
			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Slip1(P)	8/6/1999	-	2 U	2 U	6	26	25	23	19
Slip1(P)	8/6/1999	-							
Slip2(P)	8/6/1999	-							
Slip2(P)	8/6/1999	-	2 U	2 U	3	12	11	11	9

TABLE D-15
SEDIMENT ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis-(2-ethylhexyl)phthalate	Chrysene	Dibenzofuran	Diethyl phthalate
			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Slip1(P)	8/6/1999	-	17	250 U	50 U	38	34	3	9
Slip1(P)	8/6/1999	-							
Slip2(P)	8/6/1999	-							
Slip2(P)	8/6/1999	-	8	250 U	50 U	28	17	1	10

TABLE D-15
SEDIMENT ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Heptachlor	Hexachloro benzene	Indeno (1,2,3-cd)pyrene
			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Slip1(P)	8/6/1999	-	2 U	8	2 U	62	8	2 U	2 U	27
Slip1(P)	8/6/1999	-								
Slip2(P)	8/6/1999	-								
Slip2(P)	8/6/1999	-	2 U	11	2 U	30	4	2 U	2 U	13

TABLE D-15
SEDIMENT ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	n- Nitrosodiphenylamine	PCB-1016 (Aroclor 1016)	PCB-1221 (Aroclor 1221)	PCB-1232 (Aroclor 1232)	PCB-1242 (Aroclor 1242)	PCB-1248 (Aroclor 1248)
			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Slip1(P)	8/6/1999	-	3 U	10 U	20 U	10 U	10 U	10 U
Slip1(P)	8/6/1999	-						
Slip2(P)	8/6/1999	-				10 U		
Slip2(P)	8/6/1999	-	3 U	10 U	20 U		10 U	10 U

TABLE D-15
SEDIMENT ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	DEPTH	PCB-1254 (Aroclor 1254)	PCB-1260 (Aroclor 1260)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Slip1(P)	8/6/1999	-	10 U	10 U	50 U	29	8 U	59
Slip1(P)	8/6/1999	-						
Slip2(P)	8/6/1999	-						
Slip2(P)	8/6/1999	-	10 U	10 U	50 U	14	8 U	31

TABLE D-16
SEDIMENT ANALYTICAL DATA - METALS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Antimony mg/kg	Arsenic, Total mg/kg	Cadmium mg/kg	Copper mg/kg	Lead mg/kg	Mercury mg/kg	Nickel mg/kg	Silver mg/kg	Zinc mg/kg
Slip1(P)	8/6/1999	-	0 U	5	1	24	12	0 U	12	0 U	82
Slip2(P)	8/6/1999	-	0 U	3	0 U	33	9	0 U	9	0 U	63

TABLE D-17
SEDIMENT ANALYTICAL DATA - LEACHABLE METALS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Arsenic, Total mg/L	Cadmium mg/L	Chromium mg/L	Copper mg/L	Lead mg/L	Mercury mg/L	Nickel mg/L	Silver mg/L	Zinc mg/L
Site1(P)	1/24/1990	-	U	1	9	15	8	U	6	U	41
Site2(P)	1/24/1990	-	U	U	12	24	8	U	7	U	58
Site3(P)	1/24/1990	-	U	1	18	29	18	1	9	U	127
Site4(P)	1/24/1990	-	U	1	15	29	10	U	8	U	84
Site4(P)	1/24/1990	-	0 U	1	14		10	0 U	8		82
Site5(P)	1/24/1990	-	U	1	16		11	U		U	
Site6(P)	1/24/1990	-		1	18	29	16	U	8	U	95
Site7(P)	1/24/1990	-	U	1	15		14	U	7	U	75
Site8(P)	1/24/1990	-	U	U	15		14	U	8	U	76

TABLE D-18
PORE WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	1,2,4- Trichlorobenzene	1,2- Dichlorobenzene	1,4- Dichlorobenzene	Benzyl butyl phthalate	Dibenzo(a,h) anthracene	Hexachlorobutadiene	Naphthalene
		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Slip2(P)	8/6/1999	3	2 U	2 U	3 U	2	2 U	3

TABLE D-18
PORE WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	Nitrogen, Ammonia (as N) ug/kg
Slip2(P)	8/6/1999	126

TABLE D-18
PORE WATER ANALYTICAL DATA - SVOCs

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

LOCATOR ID	SAMPLE DATE	PCB-1016 (Aroclor 1016)	PCB-1221 (Aroclor 1221)	PCB-1242 (Aroclor 1242)	PCB-1248 (Aroclor 1248)	PCB-1254 (Aroclor 1254)	PCB-1260 (Aroclor 1260)
		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Slip2(P)	8/6/1999	10 U	20 U	10 U	10 U	10 U	10 U

TABLE D-19
PORE WATER ANALYTICAL DATA - METALS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Antimony	Arsenic	Cadmium	Copper	Lead	Mercury	Nickel	Silver	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Slip2(P)	8/6/1999	-	0 U	3	0 U	33	9	0 U	9	0 U	63

TABLE D-20
SEDIMENT ANALYTICAL DATA - INORGANICS

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

LOCATOR ID	SAMPLE DATE	DEPTH	Nitrogen, Ammonia (as N)
			mg/kg
Slip2(P)	8/6/1999	-	126