

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - SRM - PAH

Field ID	SRM 1941a				SRM 1941a			
Lab ID	BK-S-85SRMRE				BK-S-93SRMRE			
SDG	SDGS004				SDGS004			
File	DX4759.D				DX4760.D			
Sample Type	SRM				SRM			
Matrix	Sediment				Sediment			
Sample Size	4.84 g				4.88 g			
Weight Basis	DRY				DRY			
Associated Blank	BK-S-94PB				BK-S-94PB			
Field Date	NA				NA			
Extract Date	7/31/1997				7/31/1997			
Analysis Date	8/22/1997				8/22/1997			
Min Reporting Limit	0.01				0.01			
Units	ug/g	T	%D	Q	ug/g	T	%D	Q
PAH								
Naphthalene	0.5	1010	-50	&	0.49	1010	-52	&
C1-Naphthalenes	0.21				0.2			
C2-Naphthalenes	0.27				0.27			
C3-Naphthalenes	0.25				0.24			
C4-Naphthalenes	0.2				0.17			
Acenaphthylene	0.093				0.085			
Acenaphthene	0.035				0.033			
Biphenyl	0.06				0.059			
Fluorene	0.061	97.3	-37	&	0.063	97.3	-35	
C1-Fluorenes	0.059				0.064			
C2-Fluorenes	0.12				0.13			
C3-Fluorenes	0.24				0.24			
Anthracene	0.16	184	-13		0.15	184	-18	
Phenanthrene	0.39	489	-20		0.37	489	-24	
C1-Phenanthrenes/anthracenes	0.33				0.32			
C2-Phenanthrenes/anthracenes	0.33				0.31			
C3-Phenanthrenes/anthracenes	0.25				0.23			
C4-Phenanthrenes/anthracenes	0.34				0.34			
Dibenzothiophene	0.052				0.05			
C1-Dibenzothiophenes	0.09				0.087			
C2-Dibenzothiophenes	0.17				0.16			
C3-Dibenzothiophenes	0.19				0.18			
Fluoranthene	0.8	981	-18		0.7	981	-29	
Pyrene	0.68	811	-16		0.63	811	-22	
C1-Fluoranthenes/pyrenes	0.42				0.41			
C2-Fluoranthenes/pyrenes	0.36				0.34			
C3-Fluoranthenes/pyrenes	0.22				0.22			
Benzo[a]anthracene	0.38	427	-11		0.42	427	-1.6	
Chrysene	0.41	592	-31		0.47	592	-21	
C1-Chrysenes	0.24				0.25			
C2-Chrysenes	0.15				0.17			
C3-Chrysenes	0.12				0.15			
C4-Chrysenes	0.087				0.11			
Benzo[b]fluoranthene	1.2	979	22		1.2	979	22	
Benzo[k]fluoranthene	0.26	361	-28		0.27	361	-25	
Benzo[e]pyrene	0.53	553	-4.2		0.54	553	-2.4	
Benzo[a]pyrene	0.5	628	-20		0.49	628	-22	
Perylene	0.33	452	-27		0.33	452	-27	
Indeno[1,2,3,-c,d]pyrene	0.52	501	3.8		0.53	501	5.8	
Dibenzo[a,h]anthracene	0.098	73.9	33		0.1	73.9	35	
Benzo[g,h,i]perylene	0.38	525	-28		0.38	525	-28	
Total PAH	12				12			
d8-Naphthalene	80				79			
d10-Acenaphthene	98				95			
d10-Phenanthrene	101				97			
d12-Benzo[a]pyrene	73				79			

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - SRM - PAH

Field ID	SRM 1941a				SRM 1941a			
Lab ID	BK-S-96SRM				BK-S-99SRM			
SDG	SDGS004				SDGS005			
File	DX4758.D				W1240.D			
Sample Type	SRM				SRM			
Matrix	Sediment				Sediment			
Sample Size	4.95 g				4.88 g			
Weight Basis	DRY				DRY			
Associated Blank	BK-S-94PB				BK-S-97PB			
Field Date	NA				NA			
Extract Date	7/31/1997				7/31/1997			
Analysis Date	8/22/1997				8/28/1997			
Min Reporting Limit	0.01				0.0026			
Units	ug/g	T	%D	Q	ug/g	T	%D	Q
PAH								
Naphthalene	0.6	1010	-41	&	0.62	1010	-39	
C1-Naphthalenes	0.24				0.18			
C2-Naphthalenes	0.32				0.2			
C3-Naphthalenes	0.27				0.16			
C4-Naphthalenes	0.2				0.1			
Acenaphthylene	0.096				0.13			
Acenaphthene	0.04				0.036			
Biphenyl	0.067				0.068			
Fluorene	0.071	97.3	-27		0.073	97.3	-25	
C1-Fluorenes	0.071				0.065			
C2-Fluorenes	0.18				0.12			
C3-Fluorenes	0.26				0.19			
Anthracene	0.18	184	-2.2		0.23	184	25	
Phenanthrene	0.44	489	-10		0.4	489	-18	
C1-Phenanthrenes/anthracenes	0.37				0.34			
C2-Phenanthrenes/anthracenes	0.37				0.31			
C3-Phenanthrenes/anthracenes	0.25				0.22			
C4-Phenanthrenes/anthracenes	0.38				0.28			
Dibenzothiophene	0.058				0.055			
C1-Dibenzothiophenes	0.095				0.063			
C2-Dibenzothiophenes	0.18				0.12			
C3-Dibenzothiophenes	0.2				0.14			
Fluoranthene	0.8	981	-18		0.92 L	981	-6.2	
Pyrene	0.75	811	-7.5		0.74 L	811	-8.8	
C1-Fluoranthenes/pyrenes	0.48				0.48			
C2-Fluoranthenes/pyrenes	0.4				0.4			
C3-Fluoranthenes/pyrenes	0.23				0.23			
Benzo[a]anthracene	0.42	427	-1.6		0.4	427	-6.3	
Chrysene	0.48	592	-19		0.53	577	-8.2	
C1-Chrysenes	0.27				0.29			
C2-Chrysenes	0.17				0.2			
C3-Chrysenes	0.15				0.11			
C4-Chrysenes	0.11				0.1			
Benzo[b]fluoranthene	1.2	979	22		1 L	740	35	
Benzo[k]fluoranthene	0.28	361	-22		0.34	361	-5.8	
Benzo[e]pyrene	0.56	553	1.3		0.57	553	3.1	
Benzo[a]pyrene	0.53	628	-16		0.49	628	-22	
Perylene	0.35	452	-23		0.39	452	-14	
Indeno[1,2,3,-c,d]pyrene	0.56	501	12		0.49	501	-2.2	
Dibenzo[a,h]anthracene	0.1	73.9	35		0.095	73.9	28	
Benzo[g,h,i]perylene	0.41	525	-22		0.46	525	-12	
Total PAH	13				12			
d8-Naphthalene	70				53			
d10-Acenaphthene	91				78			
d10-Phenanthrene	96				90			
d12-Benzo[a]pyrene	75				74			

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1997 Final Data (Surrogate Corrected) - SRM - PAH

Field ID				
SRM 1941a				
Lab ID	BO-S-34SRM			
SDG	SDGS006			
File	DX6417.D			
Sample Type	SRM			
Matrix	Sediment			
Sample Size	5.22 g			
Weight Basis	DRY			
Associated Blank	BO-S-32PB			
Field Date	NA			
Extract Date	12/17/1997			
Analysis Date	12/31/1997			
Min Reporting Limit	0.0096			
Units	ug/g	T	%D	Q
PAH				
Naphthalene	0.73	1010	-28	
C1-Naphthalenes	0.27			
C2-Naphthalenes	0.33			
C3-Naphthalenes	0.29			
C4-Naphthalenes	0.24			
Acenaphthylene	0.08			
Acenaphthene	0.034			
Biphenyl	0.074			
Fluorene	0.068	97.3	-30	
C1-Fluorenes	0.062			
C2-Fluorenes	0.15			
C3-Fluorenes	0.3			
Anthracene	0.16	184	-13	
Phenanthrene	0.41	489	-16	
C1-Phenanthrenes/anthracenes	0.37			
C2-Phenanthrenes/anthracenes	0.4			
C3-Phenanthrenes/anthracenes	0.29			
C4-Phenanthrenes/anthracenes	0.37			
Dibenzothiophene	0.052			
C1-Dibenzothiophenes	0.095			
C2-Dibenzothiophenes	0.17			
C3-Dibenzothiophenes	0.18			
Fluoranthene	0.89	981	-9.3	
Pyrene	0.72	811	-11	
C1-Fluoranthenes/pyrenes	0.47			
C2-Fluoranthenes/pyrenes	0.44			
C3-Fluoranthenes/pyrenes	0.25			
Benzo[a]anthracene	0.38	427	-11	
Chrysene	0.49	592	-17	
C1-Chrysenes	0.24			
C2-Chrysenes	0.19			
C3-Chrysenes	0.11			
C4-Chrysenes	0.087			
Benzo[b]fluoranthene	1	979	2.1	
Benzo[k]fluoranthene	0.33	361	-8.6	
Benzo[e]pyrene	0.53	553	-4.2	
Benzo[a]pyrene	0.48	628	-24	
Perylene	0.35	452	-23	
Indeno[1,2,3,-c,d]pyrene	0.57			
Dibenzo[a,h]anthracene	0.11			
Benzo[g,h,i]perylene	0.46			
Total PAH	13			
d8-Naphthalene	57			
d10-Acenaphthene	80			
d10-Phenanthrene	96			
d12-Benzo[a]pyrene	89			

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - SRM - PAH

Field ID	SRM 1941a				SRM 1941a			
Lab ID	BL-S-07SRMREX				BL-S-12SRM			
SDG	SDGS009				SDGS009			
File	DX5044.D				DX5043.D			
Sample Type	SRM				SRM			
Matrix	Sediment				Sediment			
Sample Size	4.97 g				5.37 g			
Weight Basis	DRY				DRY			
Associated Blank	BL-S-10PB				BL-S-10PB			
Field Date	NA				NA			
Extract Date	8/8/1997				8/8/1997			
Analysis Date	9/17/1997				9/17/1997			
Min Reporting Limit	0.01				0.0093			
Units	ug/g	T	%D	Q	ug/g	T	%D	Q
PAH								
Naphthalene	0.66	1010	-35		0.64	1010	-37	
C1-Naphthalenes	0.24				0.29			
C2-Naphthalenes	0.3				0.33			
C3-Naphthalenes	0.26				0.27			
C4-Naphthalenes	0.2				0.22			
Acenaphthylene	0.08				0.08			
Acenaphthene	0.039				0.039			
Biphenyl	0.07				0.076			
Fluorene	0.078	97.3	-20		0.077	97.3	-21	
C1-Fluorenes	0.073				0.074			
C2-Fluorenes	0.16				0.16			
C3-Fluorenes	0.37				0.34			
Anthracene	0.18	184	-2.2		0.17	184	-7.6	
Phenanthrene	0.45	489	-8		0.44	489	-10	
C1-Phenanthrenes/anthracenes	0.41				0.4			
C2-Phenanthrenes/anthracenes	0.42				0.43			
C3-Phenanthrenes/anthracenes	0.34				0.32			
C4-Phenanthrenes/anthracenes	0.59				0.56			
Dibenzothiophene	0.056				0.054			
C1-Dibenzothiophenes	0.085				0.081			
C2-Dibenzothiophenes	0.19				0.18			
C3-Dibenzothiophenes	0.22				0.23			
Fluoranthene	0.88	981	-10		0.86	981	-12	
Pyrene	0.73	811	-10		0.71	811	-12	
C1-Fluoranthenes/pyrenes	0.49				0.49			
C2-Fluoranthenes/pyrenes	0.49				0.5			
C3-Fluoranthenes/pyrenes	0.32				0.36			
Benzo[a]anthracene	0.43	427	0.7		0.45	427	5.4	
Chrysene	0.55	592	-7.1		0.55	592	-7.1	
C1-Chrysenes	0.34				0.37			
C2-Chrysenes	0.27				0.3			
C3-Chrysenes	0.22				0.23			
C4-Chrysenes	0.15				0.16			
Benzo[b]fluoranthene	0.98	979	0.1		1	979	2.1	
Benzo[k]fluoranthene	0.27	361	-25		0.26	361	-28	
Benzo[e]pyrene	0.53	553	-4.2		0.53	553	-4.2	
Benzo[a]pyrene	0.49	628	-22		0.49	628	-22	
Perylene	0.34	452	-25		0.34	452	-25	
Indeno[1,2,3,-c,d]pyrene	0.52				0.52			
Dibenzo[a,h]anthracene	0.11				0.11			
Benzo[g,h,i]perylene	0.47				0.47			
Total PAH	14				14			
d8-Naphthalene	41 &				52			
d10-Acenaphthene	63				54			
d10-Phenanthrene	73				62			
d12-Benzo[a]pyrene	77				66			

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - SRM - PAH

Field ID		SRM 1941a			
Lab ID	BL-S-15SRM				
SDG	SDGS010				
File	DX5082.D				
Sample Type	SRM				
Matrix	Sediment				
Sample Size	4.93 g				
Weight Basis	DRY				
Associated Blank	BL-S-13PB				
Field Date	NA				
Extract Date	8/11/1997				
Analysis Date	9/19/1997				
Min Reporting Limit	0.01				
Units	ug/g	T	%D	Q	
PAH					
Naphthalene	0.6	1010	-41	&	
C1-Naphthalenes	0.18				
C2-Naphthalenes	0.23				
C3-Naphthalenes	0.19				
C4-Naphthalenes	0.14				
Acenaphthylene	0.062				
Acenaphthene	0.03				
Biphenyl	0.06				
Fluorene	0.068	97.3	-30		
C1-Fluorenes	0.055				
C2-Fluorenes	0.13				
C3-Fluorenes	0.28				
Anthracene	0.14	184	-24		
Phenanthrene	0.32	489	-35		
C1-Phenanthrenes/anthracenes	0.3				
C2-Phenanthrenes/anthracenes	0.33				
C3-Phenanthrenes/anthracenes	0.28				
C4-Phenanthrenes/anthracenes	0.43				
Dibenzothiophene	0.042				
C1-Dibenzothiophenes	0.067				
C2-Dibenzothiophenes	0.16				
C3-Dibenzothiophenes	0.18				
Fluoranthene	0.72	981	-27		
Pyrene	0.58	811	-28		
C1-Fluoranthenes/pyrenes	0.42				
C2-Fluoranthenes/pyrenes	0.41				
C3-Fluoranthenes/pyrenes	0.28				
Benzo[a]anthracene	0.36	427	-16		
Chrysene	0.44	592	-26		
C1-Chrysenes	0.24				
C2-Chrysenes	0.18				
C3-Chrysenes	0.19				
C4-Chrysenes	0.11				
Benzo[b]fluoranthene	0.86	979	-12		
Benzo[k]fluoranthene	0.3	361	-17		
Benzo[e]pyrene	0.45	553	-19		
Benzo[a]pyrene	0.41	628	-35		
Perylene	0.3	452	-34		
Indeno[1,2,3,-c,d]pyrene	0.39				
Dibenzo[a,h]anthracene	0.085				
Benzo[g,h,i]perylene	0.36				
Total PAH	11				
d8-Naphthalene	47				
d10-Acenaphthene	69				
d10-Phenanthrene	81				
d12-Benzo[a]pyrene	85				

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - SRM - PAH

Field ID	SRM 1941a				SRM 1941a			
Lab ID	BK-S-88SRM				BL-S-09SRM			
SDG	SDGS002				SDGS008			
File	DZ0127.D				DZ2178.D			
Sample Type	SRM				SRM			
Matrix	Sediment				Sediment			
Sample Size	4.87 g				5.03 g			
Weight Basis	DRY				DRY			
Associated Blank	NA				BL-S-07PB			
Field Date	NA				NA			
Extract Date	NA				8/6/1997			
Analysis Date	8/14/1997				8/31/1997			
Min Reporting Limit	0.0026				0.0099			
Units	ug/g	T	%D	Q	ug/g	T	%D	Q
PAH								
Naphthalene	0.42	1010	-58	&	0.63	1010	-38	&
C1-Naphthalenes	0.17				0.25			
C2-Naphthalenes	0.2				0.27			
C3-Naphthalenes	0.18				0.2			
C4-Naphthalenes	0.12				0.13			
Acenaphthylene	0.067				0.078			
Acenaphthene	0.027				0.032			
Biphenyl	0.052				0.069			
Fluorene	0.044	97.3	-55	&	0.057	97.3	-42	&
C1-Fluorenes	0.048				0.056			
C2-Fluorenes	0.086				0.11			
C3-Fluorenes	0.21				0.23			
Anthracene	0.12	184	-35		0.17	184	-7.6	
Phenanthrene	0.31	489	-37	&	0.38	489	-22	
C1-Phenanthrenes/anthracenes	0.25				0.33			
C2-Phenanthrenes/anthracenes	0.22				0.33			
C3-Phenanthrenes/anthracenes	0.17				0.24			
C4-Phenanthrenes/anthracenes	0.27				0.36			
Dibenzothiophene	0.037				0.049			
C1-Dibenzothiophenes	0.049				0.065			
C2-Dibenzothiophenes	0.11				0.14			
C3-Dibenzothiophenes	0.12				0.16			
Fluoranthene	0.7	981	-29		0.83	981	-15	
Pyrene	0.56	811	-31		0.67	811	-17	
C1-Fluoranthenes/pyrenes	0.37				0.46			
C2-Fluoranthenes/pyrenes	0.33				0.44			
C3-Fluoranthenes/pyrenes	0.19				0.33			
Benzo[a]anthracene	0.31	427	-28		0.35	427	-18	
Chrysene	0.44	592	-26		0.47	592	-21	
C1-Chrysenes	0.24				0.28			
C2-Chrysenes	0.15				0.22			
C3-Chrysenes	0.1				0.24			
C4-Chrysenes	0.081				0.12			
Benzo[b]fluoranthene	0.88	979	-10		0.89	979	-9.1	
Benzo[k]fluoranthene	0.3	361	-17		0.3	361	-17	
Benzo[e]pyrene	0.48	553	-13		0.49	553	-11	
Benzo[a]pyrene	0.41	628	-35		0.45	628	-28	
Perylene	0.25	452	-45	&	0.32	452	-29	
Indeno[1,2,3,-c,d]pyrene	0.47	501	-6.2		0.45			
Dibenzo[a,h]anthracene	0.087	73.9	18		0.095			
Benzo[g,h,i]perylene	0.42	525	-20		0.43			
Total PAH	10				12			
d8-Naphthalene	71				63			
d10-Acenaphthene	74				64			
d10-Phenanthrene	80				68			
d12-Benzo[a]pyrene	74				64			

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1997 Final Data (Surrogate Corrected) - SRM - PAH

Field ID		SRM 1941a			
Lab ID	BO-S-37SRM				
SDG	SDGSOD				
File	DY7251.D				
Sample Type	SRM				
Matrix	Sediment				
Sample Size	6.49 g				
Weight Basis	DRY				
Associated Blank	BO-S-35PB				
Field Date	NA				
Extract Date	12/23/1997				
Analysis Date	1/14/1998				
Min Reporting Limit	0.0077				
Units	ug/g	T	%D	Q	
PAH					
Naphthalene	1.3	1010	-46	&	
C1-Naphthalenes	0.24				
C2-Naphthalenes	0.29				
C3-Naphthalenes	0.28				
C4-Naphthalenes	0.19				
Acenaphthylene	0.093				
Acenaphthene	0.047				
Biphenyl	0.08				
Fluorene	0.085	97.3	-34		
C1-Fluorenes	0.064				
C2-Fluorenes	0.15				
C3-Fluorenes	0.27				
Anthracene	0.2	184	-13		
Phenanthrene	0.46	489	-22		
C1-Phenanthrenes/anthracenes	0.37				
C2-Phenanthrenes/anthracenes	0.37				
C3-Phenanthrenes/anthracenes	0.26				
C4-Phenanthrenes/anthracenes	0.32				
Dibenzothiophene	0.057				
C1-Dibenzothiophenes	0.076				
C2-Dibenzothiophenes	0.15				
C3-Dibenzothiophenes	0.16				
Fluoranthene	1.1	981	-10		
Pyrene	0.87	811	-12		
C1-Fluoranthenes/pyrenes	0.59				
C2-Fluoranthenes/pyrenes	0.45				
C3-Fluoranthenes/pyrenes	0.26				
Benzo[a]anthracene	0.51	427	-1.6		
Chrysene	0.71	592	-2		
C1-Chrysenes	0.34				
C2-Chrysenes	0.21				
C3-Chrysenes	0.15				
C4-Chrysenes	0.1				
Benzo[b]fluoranthene	1.2	979	2.1		
Benzo[k]fluoranthene	0.4	361	-8.6		
Benzo[e]pyrene	0.57	553	-9.6		
Benzo[a]pyrene	0.54	628	-25		
Perylene	0.39	452	-25		
Indeno[1,2,3,-c,d]pyrene	NA				
Dibenzo[a,h]anthracene	NA				
Benzo[g,h,i]perylene	NA				
Total PAH	14				
d8-Naphthalene	44				
d10-Acenaphthene	75				
d10-Phenanthrene	82				
d12-Benzo[a]pyrene	87				

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - SRM - PAH

Field ID	SRM 1974a
Lab ID	BL-S-66SRMREF
SDG	SDGT001
File	DZ3362.D
Sample Type	SRM
Matrix	Tissue
Sample Size	1.73 g
Weight Basis	DRY
Associated Blank	BL-S-64PBREF
Field Date	NA
Extract Date	8/8/1997
Analysis Date	11/25/1997
Min Reporting Limit	0.029
Units	ug/g
	T %D Q

PAH					
Naphthalene	0.075	23.5	220	&	
C1-Naphthalenes	0.024 J				
C2-Naphthalenes	ND				
C3-Naphthalenes	ND				
C4-Naphthalenes	ND				
Acenaphthylene	ND				
Acenaphthene	ND				
Biphenyl	0.019 J				
Fluorene	0.0088 J				
C1-Fluorenes	ND				
C2-Fluorenes	0.052				
C3-Fluorenes	0.14				
Anthracene	0.014 J	6.1	130	&	
Phenanthrene	0.055	22.2	150	&	
C1-Phenanthrenes/anthracenes	0.048				
C2-Phenanthrenes/anthracenes	0.14				
C3-Phenanthrenes/anthracenes	0.18				
C4-Phenanthrenes/anthracenes	0.17				
Dibenzothiophene	0.0035 J				
C1-Dibenzothiophenes	0.016 J				
C2-Dibenzothiophenes	0.065				
C3-Dibenzothiophenes	0.1				
Fluoranthene	0.17	164	3.8		
Pyrene	0.16	152	5.5		
C1-Fluoranthenes/pyrenes	0.13				
C2-Fluoranthenes/pyrenes	0.11				
C3-Fluoranthenes/pyrenes	0.066				
Benzo[a]anthracene	0.033	32.5	1.5		
Chrysene	0.089	94.9	-6.2		
C1-Chrysenes	0.054				
C2-Chrysenes	0.033				
C3-Chrysenes	ND				
C4-Chrysenes	ND				
Benzo[b]fluoranthene	0.063	46.4	36	&	
Benzo[k]fluoranthene	0.022 J	20.2	9		
Benzo[e]pyrene	0.1	84	19		
Benzo[a]pyrene	0.018 J	15.6	15		
Perylene	0.0075 J	7.68	-2.4		
Indeno[1,2,3,-c,d]pyrene	0.0092 J	14.2	-35		
Dibenzo[a,h]anthracene	ND				
Benzo[g,h,i]perylene	0.017 J	22	-23		

Total PAH 2.2

d8-Naphthalene	59
d10-Acenaphthene	62
d10-Phenanthrene	64
d12-Benzo[a]pyrene	56