Appendix

Example: concentrations of the individual PAH compounds measured, the totals and percent of the different numbered ring molecules and the 16 US EPA priority pollutant compounds

	scaling factor [18]	sampled in July 1999						sampled in August 2001					
		Kinlochleven		Ballachulish		Loch Etive		Kinlochleven		Ballachulish		Loch Etive	
	EPA 16	conc.	% comp.	conc.	% comp.	conc.	% comp.	conc.	% comp.	conc.	% comp.	conc.	% comp.
Naphthalene	*0.001*	*0.4*		*0.3*		*0.3*		*0.2*		*0.3*		*0.2*	
2-Methyl Naphthalene		0.4		0.3		0.3		0.2		0.5		0.5	
1-Methyl Naphthalene		0.3		0.2		0.3		TR		0.3		0.3	
C2 Naphthalenes		0.7		1.3		0.8		0.6		1.3		2.1	
C3 Naphthalenes		0.9		1.0		1.9		0.8		1.7		4.8	
C4 Naphthalenes		0.8		0.9		1.4		0.4		1.2		4.7	
TOTAL Naphthalenes		**3.5**	**0.1**	**4.0**	**0.1**	**5.0**	**15.5**	**2.2**	**1.0**	**5.3**	**7.8**	**12.6**	**22.5**
Acenaphthylene (m/z 152)	*0.001*	*0.3*		*0.3*		*TR*		*ND*		*ND*		*ND*	
Acenaphthene (m/z 154)	*0.001*	*0.5*		*0.5*		*TR*		*0.2*		*0.2*		*TR*	
Fluorene (m/z 166)	*0.001*	*1.3*		*1.4*		*0.3*		*TR*		*0.2*		*TR*	
sub total		**2.1**		**2.2**		**0.3**		**0.2**		**0.4**		**TR**	
Phenanthrene (m/z 178)	*0.001*	*22.4*		*25.3*		*1.3*		*1.9*		*1.8*		*1.3*	
Anthracene (m/z 178)	*0.01*	*3.1*		*3.4*		*TR*		*0.4*		*0.3*		*ND*	
C1 178		37.5		42.4		2.1		3.1		3.3		4.8	
C2 178		29.6		33.1		2.5		2.3		2.3		5.4	
C3 178		14.6		16.0		2.1		1.6		1.5		4.8	
TOTAL 178		**107.2**	**2.4**	**120.2**	**2.4**	**8.0**	**25.7**	**9.3**	**4.4**	**9.2**	**14.1**	**16.3**	**29.1**
Dibenzothiophene		0.9		1.0		TR		TR		TR		0.2	
C1 Dibenzothiophenes		2.0		2.3		0.6		0.5		1.0		2.2	
C2 Dibenzothiophenes		3.4		3.7		1.2		0.5		0.3		5.3	
C3 Dibenzothiophenes		2.6		3.1		1.3		1.0		0.9		2.2	
TOTAL DBTs		**8.9**	**0.2**	**10.1**	**0.2**	**3.1**	**9.6**	**2.0**	**0.9**	**2.2**	**3.2**	**9.9**	**17.6**
Fluoranthene (m/z 202)	*0.001*	*230.9*		*265.1*		*1.7*		*5.8*		*4.9*		*1.4*	
Pyrene (m/z 202)	*0.001*	*192.1*		*223.1*		*1.7*		*5.7*		*3.4*		*1.1*	
C1 202		222.9		249.2		1.2		7.3		3.7		1.4	
C2 202		151.2		176.2		1.3		7.1		2.8		2.7	
C3 202		35.0		40.3		0.8		3.2		0.8		1.3	
TOTAL 202		**832.1**	**18.0**	**953.9**	**19.0**	**6.7**	**20.7**	**29.1**	**13.5**	**15.6**	**22.8**	**7.9**	**14.1**
Benzo[*c*]phenanthrene (*m/z* 228)		33.9		39.0		0.2		1.3		0.7		0.2	
Benz[a]anthracene (m/z 228)	*0.1*	*189.5*		*197.4*		*0.2*		*5.8*		*1.4*		*0.2*	
Chrysene/Triphenylene (m/z 228)	*0.01*	*488.2*		*541.8*		*0.8*		*10.1*		*3.4*		*0.7*	
Benz[b]anthracene (*m/z* 228)		2.3		2.6		ND		0.2		TR		ND	
C1 228		196.0		215.0		0.5		9.3		2.0		0.7	
C2 228		122.6		131.1		1.2		4.9		2.1		1.5	
TOTAL 228		**1032.5**	**22.4**	**1126.9**	**22.4**	**2.9**	**9.0**	**31.6**	**14.7**	**9.6**	**14.1**	**3.3**	**5.9**
Benzo[b]fluoranthene (m/z 252)	*0.1*	*1058.8*		*1142.5*		*1.5*		*31.0*		*4.6*		*0.9*	
Benzo[k]fluoranthene (m/z 252)	*0.1*	*217.7*		*235.0*		*0.3*		*17.5*		*2.9*		*0.6*	
Benzo[*e*]pyrene (*m/z* 252)		606.2		651.0		1.4		31.5		8.6		1.3	
Benzo[a]pyrene (m/z 252)	*1*	***187.9***		*192.9*		*0.2*		*9.9*		*1.4*		*TR*	
Perylene (m/z 252)		44.7		47.2		0.3		3.2		0.8		0.5	
C1 252		184.4		192.1		0.5		10.8		1.9		0.4	
C2 252		41.2		44.9		0.6		4.0		0.3		0.3	
TOTAL 252		**2340.9**	**50.7**	**2505.6**	**49.9**	**4.8**	**14.9**	**107.9**	**50.2**	**20.5**	**30.0**	**4.0**	**7.1**
Dibenz[a,h]anthracene (m/z 278)	*5*	*30.2*	**0.7**	*31.3*	**0.6**	*TR*		*2.7*	**1.3**	*0.4*	**0.6**	*TR*	
Indenopyrene (m/z 276)	*0.1*	*99.7*		*105.0*		*0.5*		*7.9*		*ND*		*ND*	
Benzoperylene (m/z 276)	*0.01*	*116.8*		*123.5*		*0.7*		*17.2*		*4.2*		*1.9*	
C1 276		14.6		15.8		ND		2.0		0.5		0.2	
C2 276		25.8		26.7		0.3		2.9		0.4		TR	
TOTAL 276		**256.9**	**5.6**	**271.0**	**5.4**	**1.5**	**4.6**	**30.0**	**14.0**	**5.1**	**7.5**	**2.1**	**3.7**
TOTAL measured PAH (ng/g)		**4614.3**		**5025.2**		**32.3**		**215.0**		**68.3**		**56.1**	
Total EPA 16 PAH ng/g		***2839.8***		***3088.8***		***9.5***		***116.3***		***29.4***		***8.3***	
Benzo[*a*]pyrene equivalents		**515.4**		**524.6**		**0.5**		**29.9**		**4.4**		**0.2**	

ND = not detected (< 0.04 ng/g)
TR = trace (0.04 - 0.14 ng/g)